

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

3a. Address

3b. Phone No. (include area code)

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

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

8. Well Name and No.

25H

9. API Well No. **XXXX 30-025-50259**

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 recompleat 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 performed 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 recompleat 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

Additional Remarks

New SHL: 545 FNL & 1666 FWL

New FTP, KOP: 545 FNL & 597 FWL

New BHL, LTP: 100 FSL & 597 FWL

Please see attached drilling plan, revised C-102, revised direction survey and required APD attachments.

Location of Well

0. SHL: NENW / 545 FNL / 1706 FWL / TWSP: 24S / RANGE: 32E / SECTION: 11 / LAT: 32.237909 / LONG: -103.64844 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 545 FNL / 843 FWL / TWSP: 24S / RANGE: 32E / SECTION: 11 / LAT: 32.237905 / LONG: -103.65123 (TVD: 12340 feet, MD: 12899 feet)

PPP: NWSW / 2653 FNL / 843 FWL / TWSP: 24S / RANGE: 32E / SECTION: 11 / LAT: 32.232122 / LONG: -103.651231 (TVD: 12334 feet, MD: 14273 feet)

BHL: SWSW / 100 FSL / 497 FWL / TWSP: 24S / RANGE: 32E / SECTION: 14 / LAT: 32.210624 / LONG: -103.65124 (TVD: 12300 feet, MD: 22094 feet)

CONFIDENTIAL

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-025-50259
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

25. Signature 	Name (Printed/Typed)	Date
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Title

Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

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

Conditions of approval, if any, are attached.

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

(Continued on page 2)

*(Instructions on page 2)

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws 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, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: 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 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., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

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

The BLM connects this information to an evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. 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 Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-50259		² Pool Code 96603		³ Pool Name Triste Draw; Bone Spring	
⁴ Property Code 322999		⁵ Property Name DOS EQUIS 11-14 FEDERAL COM			⁶ Well Number 25H
⁷ OGRID No. 215099		⁸ Operator Name CIMAREX ENERGY CO.			⁹ Elevation 3618.6'

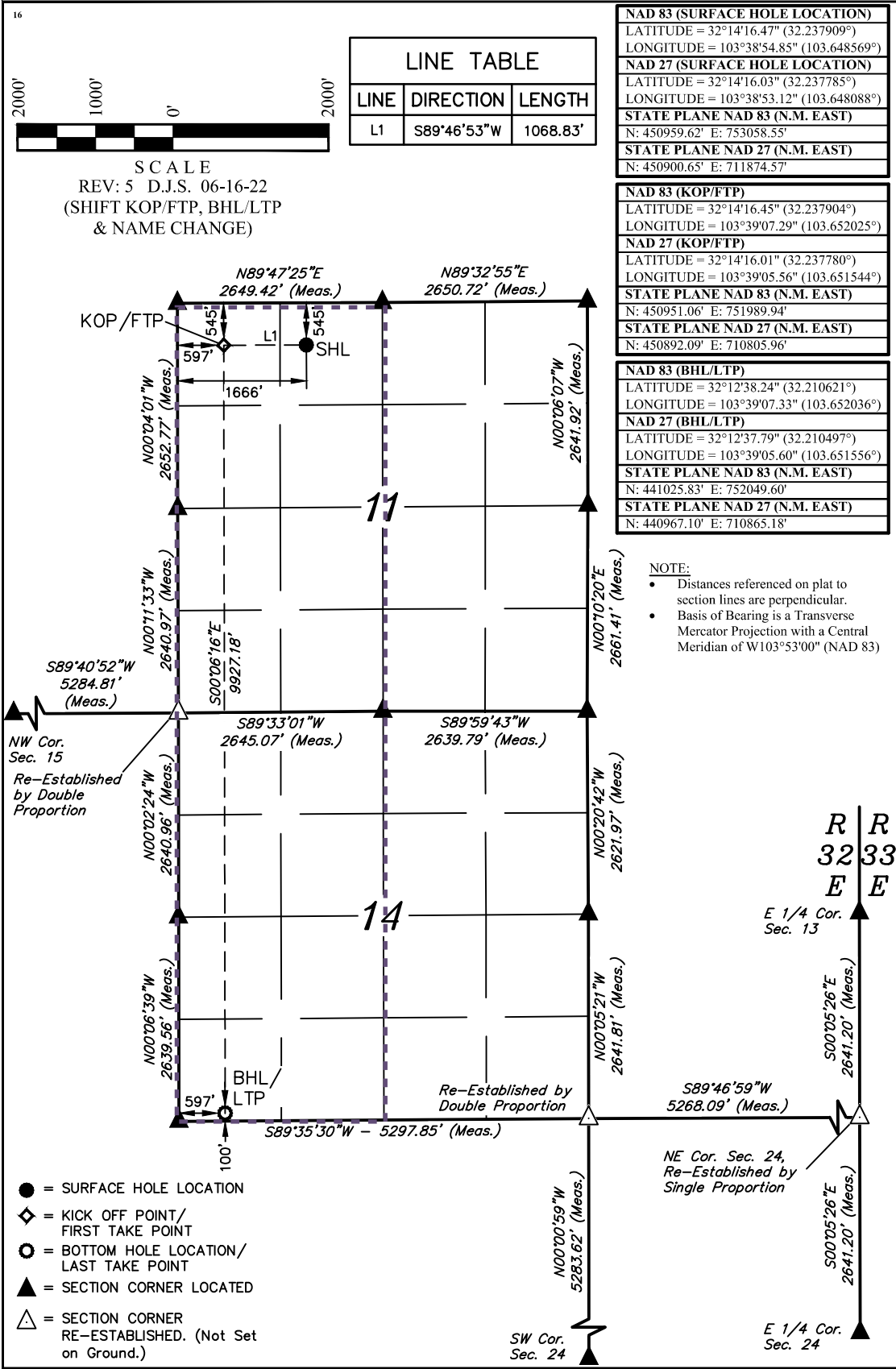
¹⁰ Surface Location

UL or lot no. C	Section 11	Township 24S	Range 32E	Lot Idn	Feet from the 545	North/South line NORTH	Feet from the 1666	East/West line WEST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. M	Section 14	Township 24S	Range 32E	Lot Idn	Feet from the 100	North/South line SOUTH	Feet from the 597	East/West line WEST	County LEA
¹² Dedicated Acres 640		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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



¹⁷ OPERATOR
CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Kanicia Schlichting* Date: 6/16/22

Printed Name: Kanicia Schlichting

E-mail Address: kanicia.schlichting@coterra.com

¹⁸ SURVEYOR
CERTIFICATION

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

October 13, 2017

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number:

PAUL BUCHELE
NEW MEXICO
23782
06-16-22
PROFESSIONAL SURVEYOR

1. Geological Formations

TVD of target 11,000

Pilot Hole TD N/A

MD at TD 20,775

Deepest expected fresh water

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone	Hazards
Rustler	1166	Useable Water	
Salado (Top Salt)	1390	N/A	
Base of Salt	4684	N/A	
Lamar	4910	N/A	
Bell Canyon	4965	N/A	
Cherry Canyon	5858	N/A	
Brushy Canyon	7222	Hydrocarbons	
Bone Spring	8779	Hydrocarbons	
Leonard Shale	8892	Hydrocarbons	
Avalon Shale	9219	Hydrocarbons	
1st Bone Spring Sand	9944	Hydrocarbons	
2nd Bone Spring Carb	10108	Hydrocarbons	
2nd Bone Spring Sand	10478	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	ST&C	1.40	3.28	5.52
12 1/4	0	4860	4860	9-5/8"	40.00	HCK-55	LT&C	1.46	1.52	2.89
8 3/4	0	10522	10522	7"	29.00	L-80	LT&C	1.43	1.66	1.84
8 3/4	10522	11422	11000	7"	29.00	P-110	BT&C	1.66	2.18	67.02
6	9522	20775	11000	4-1/2"	11.60	P-110	BT&C	1.47	2.08	21.41
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 11-14 Federal Com 25H

	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.	Y
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	912	12.90	1.88	9.65	12	Lead: 35:65 (Poz:C) + Salt + Bentonite
	284	14.80	1.34	6.32	9.5	Tail: Class C + LCM
Production	360	10.30	3.64	22.18		Lead: Tuned Light + LCM
	150	14.80	1.36	6.57	9.5	Tail: Class C + Retarder
Completion System	695	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	4660	25
Completion System	11222	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	2M
			Blind Ram		
			Pipe Ram		
			Double Ram	X	
			Other		
8 3/4	13 5/8	3M	Annular	X	3M
			Blind Ram		
			Pipe Ram		
			Double Ram	X	
			Other		
6	13 5/8	5M	Annular	X	5M
			Blind Ram		
			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 4860'	Brine Water	9.80 - 10.30	30-32	N/C
4860' to 11422'	Cut Brine or OBM	8.50 - 9.00	27-70	N/C
11422' to 20775'	OBM	8.50 - 9.00	50-70	N/C

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

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

Logging, Coring and Testing	
	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	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	5148 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 working pressure, or a maximum test pressure of 5000 psi. 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.

Cimarex requests to perform offline cementing. OLC procedure as follows: 1. Land casing on solid body mandrel hanger. Engage packoff and lockring 2. Install BPV 3. Skid rig 4. Check for pressure and remove BPV 5. Circulate down casing, taking returns through casing valves 6. Pump lead and tail cement 7. Displace cement and bump the plug 8. Ensure floats are holding pressure 9. RD cement crew 10. Install BPV and TA cap.

Cimarex requests permission to skid the rig to the next well on the pad to begin operations instead of waiting 8 hours for surface cement to harden on this 25H well. Surface cement will be pumped, we will ensure floats hold, do a green cement test and then Skid to the next well on pad. We will not perform any operations on this 25H well until at least 8 hours and when both tail and lead slurry reach 500psi. The mandrel hanger is made up on the last joint of 13 3/8" casing and then lowered down with a landing joint. It is then lowered down until the mandrel contacts the landing ring which is prewelded to the conductor pipe. At this point the 13 3/8" casing is entirely supported by the conductor pipe via the landing ring / mandrel and is independent from the rig. This allows us to walk the rig away from the 25H well and begin work on the next well while the cement is hardening. There is no way for the casing to be moved or knocked off center since it is hanging from the landing ring.



Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Proposal Geodetic Report (Def Plan)



Report Date: June 16, 2022 - 07:07 PM
Client: COTERRA
Field: NM Lea County (NAD 83)
Structure / Slot: Coterra Dos Equis 11-14 Fed Com Pad (East) / New Slot
Well: Dos Equis 11-14 Federal Com 25H
Borehole: Dos Equis 11-14 Federal Com 25H
UWI / API#: Unknown / Unknown
Survey Name: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22
Survey Date: June 16, 2022
Tort / AHD / DDI / ERD Ratio: 108.935 ° / 10972.969 ft / 6.352 / 0.998
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 14' 16.47093", W 103° 38' 54.84813"
Location Grid N/E Y/X: N 450959.620 ftUS, E 753058.550 ftUS
CRS Grid Convergence Angle: 0.3653 °
Grid Scale Factor: 0.99996043
Version / Patch: 2.10.829.1

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 179.660 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB = 22ft
TVD Reference Elevation: 3640.600 ft above MSL
Seabed / Ground Elevation: 3618.600 ft above MSL
Magnetic Declination: 6.350 °
Total Gravity Field Strength: 998.4362mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47590.403 nT
Magnetic Dip Angle: 59.837 °
Declination Date: June 16, 2022
Magnetic Declination Model: HDGM 2022
North Reference: Grid North
Grid Convergence Used: 0.3653 °
Total Corr Mag North->Grid North: 5.9845 °
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL [545' FNL, 597' FWL]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	450959.62	753058.55	N 32 14 16.47	W 103 38 54.85
	100.00	0.00	180.00	100.00	0.00	0.00	0.00	0.00	450959.62	753058.55	N 32 14 16.47	W 103 38 54.85
	200.00	0.00	180.00	200.00	0.00	0.00	0.00	0.00	450959.62	753058.55	N 32 14 16.47	W 103 38 54.85
	300.00	0.00	180.00	300.00	0.00	0.00	0.00	0.00	450959.62	753058.55	N 32 14 16.47	W 103 38 54.85
	400.00	0.00	180.00	400.00	0.00	0.00	0.00	0.00	450959.62	753058.55	N 32 14 16.47	W 103 38 54.85
Walk South, Build 1"/100ft Hold	500.00	0.00	180.00	500.00	0.00	0.00	0.00	0.00	450959.62	753058.55	N 32 14 16.47	W 103 38 54.85
	600.00	1.00	180.00	599.99	0.87	-0.87	0.00	1.00	450958.75	753058.55	N 32 14 16.46	W 103 38 54.85
	700.00	1.00	180.00	699.98	2.62	-2.62	0.00	0.00	450957.00	753058.55	N 32 14 16.45	W 103 38 54.85
	800.00	1.00	180.00	799.96	4.36	-4.36	0.00	0.00	450955.26	753058.55	N 32 14 16.43	W 103 38 54.85
	900.00	1.00	180.00	899.95	6.11	-6.11	0.00	0.00	450953.51	753058.55	N 32 14 16.41	W 103 38 54.85
	1000.00	1.00	180.00	999.93	7.85	-7.85	0.00	0.00	450951.77	753058.55	N 32 14 16.39	W 103 38 54.85
	1100.00	1.00	180.00	1099.92	9.60	-9.60	0.00	0.00	450950.02	753058.55	N 32 14 16.38	W 103 38 54.85
Rustler	1166.09	1.00	180.00	1166.00	10.75	-10.75	0.00	0.00	450948.87	753058.55	N 32 14 16.36	W 103 38 54.85
	1200.00	1.00	180.00	1199.90	11.34	-11.34	0.00	0.00	450948.28	753058.55	N 32 14 16.36	W 103 38 54.85
	1300.00	1.00	180.00	1299.89	13.09	-13.09	0.00	0.00	450946.53	753058.55	N 32 14 16.34	W 103 38 54.85
Salado (Top Salt)	1390.13	1.00	180.00	1390.00	14.66	-14.66	0.00	0.00	450944.96	753058.55	N 32 14 16.33	W 103 38 54.85
	1400.00	1.00	180.00	1399.87	14.83	-14.83	0.00	0.00	450944.79	753058.55	N 32 14 16.32	W 103 38 54.85
Nudge, Build & Turn 2"/100ft	1500.00	1.00	180.00	1499.86	16.58	-16.58	0.00	0.00	450943.04	753058.55	N 32 14 16.31	W 103 38 54.85
	1600.00	2.12	249.26	1599.83	18.10	-18.11	-1.73	2.00	450941.51	753056.82	N 32 14 16.29	W 103 38 54.87
	1700.00	4.00	262.78	1699.68	19.16	-19.20	-6.92	2.00	450940.42	753051.63	N 32 14 16.28	W 103 38 54.93
	1800.00	5.96	267.57	1799.30	19.77	-19.86	-15.57	2.00	450939.76	753042.98	N 32 14 16.28	W 103 38 55.03
	1900.00	7.94	269.99	1898.56	19.92	-20.08	-27.66	2.00	450939.54	753030.89	N 32 14 16.27	W 103 38 55.17
	1940.91	8.75	270.66	1939.03	19.85	-20.05	-33.60	2.00	450939.57	753024.95	N 32 14 16.27	W 103 38 55.24
Hold	2000.00	8.75	270.66	1997.44	19.69	-19.94	-42.59	0.00	450939.68	753015.96	N 32 14 16.28	W 103 38 55.35
	2100.00	8.75	270.66	2096.27	19.42	-19.77	-57.80	0.00	450939.85	753000.75	N 32 14 16.28	W 103 38 55.52
	2200.00	8.75	270.66	2195.11	19.16	-19.59	-73.01	0.00	450940.03	752985.54	N 32 14 16.28	W 103 38 55.70
	2300.00	8.75	270.66	2293.95	18.89	-19.42	-88.22	0.00	450940.20	752970.33	N 32 14 16.28	W 103 38 55.88
	2400.00	8.75	270.66	2392.78	18.63	-19.24	-103.44	0.00	450940.38	752955.12	N 32 14 16.29	W 103 38 56.05
	2500.00	8.75	270.66	2491.62	18.36	-19.07	-118.65	0.00	450940.56	752939.91	N 32 14 16.29	W 103 38 56.23
	2600.00	8.75	270.66	2590.45	18.09	-18.89	-133.86	0.00	450940.73	752924.70	N 32 14 16.29	W 103 38 56.41
	2700.00	8.75	270.66	2689.29	17.83	-18.71	-149.07	0.00	450940.91	752909.49	N 32 14 16.30	W 103 38 56.59
	2800.00	8.75	270.66	2788.13	17.56	-18.54	-164.28	0.00	450941.08	752894.27	N 32 14 16.30	W 103 38 56.76
	2900.00	8.75	270.66	2886.96	17.30	-18.36	-179.49	0.00	450941.26	752879.06	N 32 14 16.30	W 103 38 56.94
	3000.00	8.75	270.66	2985.80	17.03	-18.19	-194.71	0.00	450941.43	752863.85	N 32 14 16.30	W 103 38 57.12
	3100.00	8.75	270.66	3084.64	16.77	-18.01	-209.92	0.00	450941.61	752848.64	N 32 14 16.31	W 103 38 57.29
	3200.00	8.75	270.66	3183.47	16.50	-17.84	-225.13	0.00	450941.78	752833.43	N 32 14 16.31	W 103 38 57.47
	3300.00	8.75	270.66	3282.31	16.23	-17.66	-240.34	0.00	450941.96	752818.22	N 32 14 16.31	W 103 38 57.65
	3400.00	8.75	270.66	3381.14	15.97	-17.48	-255.55	0.00	450942.14	752803.01	N 32 14 16.31	W 103 38 57.82
	3500.00	8.75	270.66	3479.98	15.70	-17.31	-270.76	0.00	450942.31	752787.80	N 32 14 16.32	W 103 38 58.00
	3600.00	8.75	270.66	3578.82	15.44	-17.13	-285.97	0.00	450942.49	752772.59	N 32 14 16.32	W 103 38 58.18
	3700.00	8.75	270.66	3677.65	15.17	-16.96	-301.19	0.00	450942.66	752757.38	N 32 14 16.32	W 103 38 58.36
	3800.00	8.75	270.66	3776.49	14.90	-16.78	-316.40	0.00	450942.84	752742.17	N 32 14 16.32	W 103 38 58.53
	3900.00	8.75	270.66	3875.32	14.64	-16.61	-331.61	0.00	450943.01	752726.95	N 32 14 16.33	W 103 38 58.71
	4000.00	8.75	270.66	3974.16	14.37	-16.43	-346.82	0.00	450943.19	752711.74	N 32 14 16.33	W 103 38 58.89
	4100.00	8.75	270.66	4073.00	14.11	-16.26	-362.03	0.00	450943.37	752696.53	N 32 14 16.33	W 103 38 59.06
	4200.00	8.75	270.66	4171.83	13.84	-16.08	-377.24	0.00	450943.54	752681.32	N 32 14 16.34	W 103 38 59.24
	4300.00	8.75	270.66	4270.67	13.58	-15.90	-392.46	0.00	450943.72	752666.11	N 32 14 16.34	W 103 38 59.42
	4400.00	8.75	270.66	4369.50	13.31	-15.73	-407.67	0.00	450943.89	752650.90	N 32 14 16.34	W 103 38 59.60
	4500.00	8.75	270.66	4468.34	13.04	-15.55	-422.88	0.00	450944.07	752635.69	N 32 14 16.34	W 103 38 59.77
	4600.00	8.75	270.66	4567.18	12.78	-15.38	-438.09	0.00	450944.24	752620.48	N 32 14 16.35	W 103 38 59.95
Base Salt	4700.00	8.75	270.66	4666.01	12.51	-15.20	-453.30	0.00	450944.42	752605.27	N 32 14 16.35	W 103 39 0.13
	4718.20	8.75	270.66	4684.00	12.46	-15.17	-456.07	0.00	450944.45	752602.50	N 32 14 16.35	W 103 39 0.16
	4800.00	8.75	270.66	4764.85	12.25	-15.03	-468.51	0.00	450944.59	752590.06	N 32 14 16.35	W 103 39 0.30
	4900.00	8.75	270.66	4863.69	11.98	-14.85	-483.73	0.00	450944.77	752574.84	N 32 14 16.35	W 103 39 0.48
Lamar	4946.86	8.75	270.66	4910.00	11.86	-14.77	-490.85	0.00	450944.85	752567.72	N 32 14 16.36	W 103 39 0.56
	5000.00	8.75	270.66	4962.52	11.71	-14.67	-498.94	0.00	450944.95	752559.63	N 32 14 16.36	W 103 39 0.66
Bell Canyon	5002.51	8.75	270.66	4965.00	11.71	-14.67	-499.32	0.00	450944.95	752559.25	N 32 14 16.36	W 103 39 0.66
	5100.00	8.75	270.66	5061.36	11.45	-14.50	-514.15	0.00	450945.12	752544.42	N 32 14 16.36	W 103 39 0.84
	5200.00	8.75	270.66	5160.19	11.18	-14.32	-529.36	0.00	450945.30	752529.21	N 32 14 16.36	W 103 39 1.01
	5300.00	8.75	270.66	5259.03	10.92	-14.15	-544.57	0.00	450945.47	752514.00	N 32 14 16.37	W 103 39 1.19
	5400.00	8.75	270.66	5357.87	10.65	-13.97	-559.78	0.00	450945.65	752498.79	N 32 14 16.37	W 103 39 1.37
	5500.00	8.75	270.66	5456.70	10.38	-13.80	-574.99	0.00	450945.82	752483.58	N 32 14 16.37	W 103 39 1.54
	5600.00	8.75	270.66	5555.54	10.12	-13.62	-590.21	0.00	450946.00	752468.37	N 32 14 16.37	W 103 39 1.72
	5700.00	8.75	270.66	5654.37	9.85	-13.45	-605.42	0.00	450946.17	752453.16	N 32 14 16.38	W 103 39 1.90
	5800.00	8.75	270.66	5753.21	9.59	-13.27	-620.63	0.00	450946.35	752437.95	N 32 14 16.38	W 103 39 2.07
	5900.00	8.75	270.66	5852.05	9.32	-13.09	-635.84	0.00	450946.53	752422.74	N 32 14 16.38	W 103 39 2.25
Cherry Canyon	5906.02	8.75	270.66	5858.00	9.31	-13.08	-636.76	0.00	450946.54	752421.82	N 32 14 16.38	W 103 39 2.26
	6000.00	8.75	270.66	5950.88	9.06	-12.92	-651.05	0.00	450946.70	752407.52	N 32 14 16.38	W 103 39 2.43
	6100.00	8.75	270.66	6049.72	8.79	-12.74	-666.26	0.00	450946.88	752392.31	N 32 14 16.39	W 103 39 2.61
	6200.00	8.75	270.66	6148.55	8.52	-12.57	-681.48	0.00	450947.05	752377.10	N 32 14 16.39	W 103 39 2.78
	6300.00	8.75	270.66	6247.39	8.26	-12.39	-696.69	0.00	450947.23	752361.89	N 32 14 16.39	W 103 39 2.96
	6400.00	8.75	270.66	6346.23	7.99	-12.22	-711.90	0.00	450947.40	752346.68	N 32 14 16.39	W 103 39 3.14

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N S ° ' ")	Longitude (E W ° ' ")	
Brushy Canyon	6500.00	8.75	270.66	6445.06	7.73	-12.04	-727.11	0.00	450947.58	752331.47	N 32 14 16.40	W 103 39 3.31	
	6600.00	8.75	270.66	6543.90	7.46	-11.87	-742.32	0.00	450947.76	752316.26	N 32 14 16.40	W 103 39 3.49	
	6700.00	8.75	270.66	6642.74	7.19	-11.69	-757.53	0.00	450947.93	752301.05	N 32 14 16.40	W 103 39 3.67	
	6800.00	8.75	270.66	6741.57	6.93	-11.51	-772.75	0.00	450948.11	752285.84	N 32 14 16.41	W 103 39 3.85	
	6900.00	8.75	270.66	6840.41	6.66	-11.34	-787.96	0.00	450948.28	752270.63	N 32 14 16.41	W 103 39 4.02	
	7000.00	8.75	270.66	6939.24	6.40	-11.16	-803.17	0.00	450948.46	752255.42	N 32 14 16.41	W 103 39 4.20	
	7100.00	8.75	270.66	7038.08	6.13	-10.99	-818.38	0.00	450948.63	752240.20	N 32 14 16.41	W 103 39 4.38	
	7200.00	8.75	270.66	7136.92	5.86	-10.81	-833.59	0.00	450948.81	752224.99	N 32 14 16.42	W 103 39 4.55	
	7286.09	8.75	270.66	7222.00	5.64	-10.66	-846.69	0.00	450948.96	752211.90	N 32 14 16.42	W 103 39 4.71	
	7300.00	8.75	270.66	7235.75	5.60	-10.64	-848.80	0.00	450948.98	752209.78	N 32 14 16.42	W 103 39 4.73	
	7400.00	8.75	270.66	7334.59	5.33	-10.46	-864.01	0.00	450949.16	752194.57	N 32 14 16.42	W 103 39 4.91	
	7500.00	8.75	270.66	7433.42	5.07	-10.28	-879.23	0.00	450949.34	752179.36	N 32 14 16.42	W 103 39 5.09	
	7600.00	8.75	270.66	7532.26	4.80	-10.11	-894.44	0.00	450949.51	752164.15	N 32 14 16.43	W 103 39 5.26	
	7700.00	8.75	270.66	7631.10	4.54	-9.93	-909.65	0.00	450949.69	752148.94	N 32 14 16.43	W 103 39 5.44	
	7800.00	8.75	270.66	7729.93	4.27	-9.76	-924.86	0.00	450949.86	752133.73	N 32 14 16.43	W 103 39 5.62	
Drop 2"/100ft	7900.00	8.75	270.66	7828.77	4.00	-9.58	-940.07	0.00	450950.04	752118.52	N 32 14 16.44	W 103 39 5.79	
	8000.00	8.75	270.66	7927.60	3.74	-9.41	-955.28	0.00	450950.21	752103.31	N 32 14 16.44	W 103 39 5.97	
	8100.00	8.75	270.66	8026.44	3.47	-9.23	-970.50	0.00	450950.39	752088.09	N 32 14 16.44	W 103 39 6.15	
	8200.00	8.75	270.66	8125.28	3.21	-9.06	-985.71	0.00	450950.56	752072.88	N 32 14 16.44	W 103 39 6.32	
	8262.80	8.75	270.66	8187.34	3.04	-8.95	-995.26	0.00	450950.68	752063.33	N 32 14 16.45	W 103 39 6.44	
	8300.00	8.01	270.66	8224.15	2.94	-8.88	-1000.68	2.00	450950.74	752057.91	N 32 14 16.45	W 103 39 6.50	
	8400.00	6.01	270.66	8323.40	2.73	-8.74	-1012.88	2.00	450950.88	752045.72	N 32 14 16.45	W 103 39 6.64	
	8500.00	4.01	270.66	8423.01	2.58	-8.64	-1021.60	2.00	450950.98	752036.99	N 32 14 16.45	W 103 39 6.74	
	8600.00	2.01	270.66	8522.87	2.49	-8.58	-1026.84	2.00	450951.04	752031.75	N 32 14 16.45	W 103 39 6.80	
	8700.00	0.01	270.66	8622.85	2.46	-8.56	-1028.60	2.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82	
	8700.30	0.00	270.66	8623.15	2.46	-8.56	-1028.60	2.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82	
	8800.00	0.00	270.66	8722.85	2.46	-8.56	-1028.60	0.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82	
	8856.15	0.00	270.66	8779.00	2.46	-8.56	-1028.60	0.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82	
	8900.00	0.00	270.66	8822.85	2.46	-8.56	-1028.60	0.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82	
	8969.15	0.00	270.66	8892.00	2.46	-8.56	-1028.60	0.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82	
Leonard Shale	9000.00	0.00	270.66	8922.85	2.46	-8.56	-1028.60	0.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82	
	9100.00	0.00	270.66	9022.85	2.46	-8.56	-1028.60	0.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82	
	9200.00	0.00	270.66	9122.85	2.46	-8.56	-1028.60	0.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82	
	9296.15	0.00	270.66	9219.00	2.46	-8.56	-1028.60	0.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82	
	9300.00	0.00	270.66	9222.85	2.46	-8.56	-1028.60	0.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82	
	9400.00	0.00	270.66	9322.85	2.46	-8.56	-1028.60	0.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82	
	9500.00	0.00	270.66	9422.85	2.46	-8.56	-1028.60	0.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82	
	9600.00	0.00	270.66	9522.85	2.46	-8.56	-1028.60	0.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82	
	9700.00	0.00	270.66	9622.85	2.46	-8.56	-1028.60	0.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82	
	9800.00	0.00	270.66	9722.85	2.46	-8.56	-1028.60	0.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82	
	9900.00	0.00	270.66	9822.85	2.46	-8.56	-1028.60	0.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82	
	10000.00	0.00	270.66	9922.85	2.46	-8.56	-1028.60	0.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82	
	1st Bone Spring Sand	10021.15	0.00	270.66	9944.00	2.46	-8.56	-1028.60	0.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82
	2nd Bone Spring Carb	10100.00	0.00	270.66	10022.85	2.46	-8.56	-1028.60	0.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82
		10185.15	0.00	270.66	10108.00	2.46	-8.56	-1028.60	0.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82
10200.00		0.00	270.66	10122.85	2.46	-8.56	-1028.60	0.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82	
KOP, Build 10"/100ft	10300.00	0.00	270.66	10222.85	2.46	-8.56	-1028.60	0.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82	
	10400.00	0.00	270.66	10322.85	2.46	-8.56	-1028.60	0.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82	
	10456.30	0.00	270.66	10379.15	2.46	-8.56	-1028.60	0.00	450951.06	752029.99	N 32 14 16.45	W 103 39 6.82	
2nd Bone Spring Sand	10500.00	4.37	183.66	10422.81	4.12	-10.22	-1028.71	10.00	450949.40	752029.89	N 32 14 16.43	W 103 39 6.83	
	10555.65	9.93	183.66	10478.00	11.03	-17.13	-1029.15	10.00	450942.49	752029.44	N 32 14 16.37	W 103 39 6.83	
Build & Turn 5"/100ft	10600.00	14.37	183.66	10521.35	20.34	-26.45	-1029.74	10.00	450933.17	752028.85	N 32 14 16.27	W 103 39 6.84	
	10700.00	24.37	183.66	10615.57	53.38	-59.51	-1031.86	10.00	450900.12	752026.74	N 32 14 15.95	W 103 39 6.87	
	10800.00	34.37	183.66	10702.60	102.24	-108.39	-1034.98	10.00	450851.24	752023.61	N 32 14 15.46	W 103 39 6.91	
	10900.00	44.37	183.66	10779.81	165.44	-171.61	-1039.02	10.00	450788.02	752019.57	N 32 14 14.84	W 103 39 6.96	
	11000.00	54.37	183.66	10844.85	241.05	-247.25	-1043.85	10.00	450712.38	752014.74	N 32 14 14.09	W 103 39 7.02	
	11100.00	64.37	183.66	10895.73	326.78	-333.02	-1049.33	10.00	450626.62	752009.26	N 32 14 13.24	W 103 39 7.09	
	11200.00	74.37	183.66	10930.92	420.03	-426.30	-1055.29	10.00	450533.34	752003.30	N 32 14 12.32	W 103 39 7.17	
	11206.30	75.00	183.66	10932.58	426.09	-432.36	-1055.68	10.00	450527.28	752002.91	N 32 14 12.26	W 103 39 7.17	
	11300.00	79.52	182.40	10953.24	517.30	-523.60	-1060.50	5.00	450436.04	751998.10	N 32 14 11.36	W 103 39 7.23	
	11400.00	84.35	181.11	10967.26	616.21	-622.53	-1063.52	5.00	450337.11	751995.07	N 32 14 10.38	W 103 39 7.28	
Landing Point	11500.00	89.19	179.83	10972.89	716.01	-722.34	-1064.33	5.00	450237.31	751994.26	N 32 14 9.39	W 103 39 7.29	
	11513.65	89.85	179.66	10973.00	729.66	-735.99	-1064.27	5.00	450223.66	751994.32	N 32 14 9.26	W 103 39 7.29	
	11600.00	89.85	179.66	10973.23	816.01	-822.34	-1063.75	0.00	450137.32	751994.84	N 32 14 8.40	W 103 39 7.29	
	11700.00	89.85	179.66	10973.49	916.01	-922.34	-1063.15	0.00	450037.32	751995.44	N 32 14 7.41	W 103 39 7.29	
	11800.00	89.85	179.66	10973.75	1016.01	-1022.33	-1062.55	0.00	449937.33	751996.04			

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	15000.00	89.85	179.66	10982.14	4216.00	-4222.26	-1043.32	0.00	446737.53	752015.27	N 32 13 34.76	W 103 39 7.31
	15100.00	89.85	179.66	10982.40	4316.00	-4322.26	-1042.72	0.00	446637.54	752015.87	N 32 13 33.77	W 103 39 7.31
	15200.00	89.85	179.66	10982.66	4416.00	-4422.26	-1042.12	0.00	446537.54	752016.48	N 32 13 32.78	W 103 39 7.31
	15300.00	89.85	179.66	10982.92	4516.00	-4522.26	-1041.52	0.00	446437.55	752017.08	N 32 13 31.79	W 103 39 7.31
	15400.00	89.85	179.66	10983.18	4616.00	-4622.26	-1040.92	0.00	446337.56	752017.68	N 32 13 30.80	W 103 39 7.31
	15500.00	89.85	179.66	10983.45	4716.00	-4722.25	-1040.32	0.00	446237.56	752018.28	N 32 13 29.81	W 103 39 7.31
NMNM0002889 to NMNM0033503 Lease Crossing	15531.82	89.85	179.66	10983.53	4747.81	-4754.07	-1040.12	0.00	446205.75	752018.47	N 32 13 29.50	W 103 39 7.31
	15600.00	89.85	179.66	10983.71	4816.00	-4822.25	-1039.71	0.00	446137.57	752018.88	N 32 13 28.82	W 103 39 7.31
	15700.00	89.85	179.66	10983.97	4916.00	-4922.25	-1039.11	0.00	446037.58	752019.48	N 32 13 27.83	W 103 39 7.31
	15800.00	89.85	179.66	10984.23	5016.00	-5022.25	-1038.51	0.00	445937.58	752020.08	N 32 13 26.84	W 103 39 7.31
	15900.00	89.85	179.66	10984.49	5116.00	-5122.25	-1037.91	0.00	445837.59	752020.68	N 32 13 25.85	W 103 39 7.31
	16000.00	89.85	179.66	10984.76	5216.00	-5222.24	-1037.31	0.00	445737.59	752021.28	N 32 13 24.86	W 103 39 7.31
	16100.00	89.85	179.66	10985.02	5316.00	-5322.24	-1036.71	0.00	445637.60	752021.88	N 32 13 23.87	W 103 39 7.31
	16200.00	89.85	179.66	10985.28	5416.00	-5422.24	-1036.11	0.00	445537.61	752022.48	N 32 13 22.88	W 103 39 7.31
	16300.00	89.85	179.66	10985.54	5515.99	-5522.24	-1035.51	0.00	445437.61	752023.09	N 32 13 21.89	W 103 39 7.31
	16400.00	89.85	179.66	10985.80	5615.99	-5622.23	-1034.91	0.00	445337.62	752023.69	N 32 13 20.90	W 103 39 7.31
	16500.00	89.85	179.66	10986.07	5715.99	-5722.23	-1034.31	0.00	445237.63	752024.29	N 32 13 19.91	W 103 39 7.31
	16600.00	89.85	179.66	10986.33	5815.99	-5822.23	-1033.70	0.00	445137.63	752024.89	N 32 13 18.93	W 103 39 7.31
	16700.00	89.85	179.66	10986.59	5915.99	-5922.23	-1033.10	0.00	445037.64	752025.49	N 32 13 17.94	W 103 39 7.31
	16800.00	89.85	179.66	10986.85	6015.99	-6022.23	-1032.50	0.00	444937.64	752026.09	N 32 13 16.95	W 103 39 7.31
	16900.00	89.85	179.66	10987.11	6115.99	-6122.22	-1031.90	0.00	444837.65	752026.69	N 32 13 15.96	W 103 39 7.31
	17000.00	89.85	179.66	10987.38	6215.99	-6222.22	-1031.30	0.00	444737.66	752027.29	N 32 13 14.97	W 103 39 7.31
	17100.00	89.85	179.66	10987.64	6315.99	-6322.22	-1030.70	0.00	444637.66	752027.89	N 32 13 13.98	W 103 39 7.31
	17200.00	89.85	179.66	10987.90	6415.99	-6422.22	-1030.10	0.00	444537.67	752028.49	N 32 13 12.99	W 103 39 7.31
	17300.00	89.85	179.66	10988.16	6515.99	-6522.22	-1029.50	0.00	444437.68	752029.10	N 32 13 12.00	W 103 39 7.32
	17400.00	89.85	179.66	10988.42	6615.99	-6622.21	-1028.90	0.00	444337.68	752029.70	N 32 13 11.01	W 103 39 7.32
	17500.00	89.85	179.66	10988.69	6715.99	-6722.21	-1028.30	0.00	444237.69	752030.30	N 32 13 10.02	W 103 39 7.32
	17600.00	89.85	179.66	10988.95	6815.99	-6822.21	-1027.69	0.00	444137.69	752030.90	N 32 13 9.03	W 103 39 7.32
	17700.00	89.85	179.66	10989.21	6915.99	-6922.21	-1027.09	0.00	444037.70	752031.50	N 32 13 8.04	W 103 39 7.32
	17800.00	89.85	179.66	10989.47	7015.99	-7022.20	-1026.49	0.00	443937.71	752032.10	N 32 13 7.05	W 103 39 7.32
	17900.00	89.85	179.66	10989.73	7115.99	-7122.20	-1025.89	0.00	443837.71	752032.70	N 32 13 6.06	W 103 39 7.32
	18000.00	89.85	179.66	10990.00	7215.99	-7222.20	-1025.29	0.00	443737.72	752033.30	N 32 13 5.07	W 103 39 7.32
	18100.00	89.85	179.66	10990.26	7315.99	-7322.20	-1024.69	0.00	443637.73	752033.90	N 32 13 4.08	W 103 39 7.32
	18200.00	89.85	179.66	10990.52	7415.99	-7422.20	-1024.09	0.00	443537.73	752034.50	N 32 13 3.09	W 103 39 7.32
	18300.00	89.85	179.66	10990.78	7515.99	-7522.19	-1023.49	0.00	443437.74	752035.10	N 32 13 2.10	W 103 39 7.32
	18400.00	89.85	179.66	10991.04	7615.99	-7622.19	-1022.89	0.00	443337.75	752035.71	N 32 13 1.11	W 103 39 7.32
	18500.00	89.85	179.66	10991.31	7715.99	-7722.19	-1022.29	0.00	443237.75	752036.31	N 32 13 0.12	W 103 39 7.32
	18600.00	89.85	179.66	10991.57	7815.99	-7822.19	-1021.68	0.00	443137.76	752036.91	N 32 12 59.14	W 103 39 7.32
	18700.00	89.85	179.66	10991.83	7915.99	-7922.19	-1021.08	0.00	443037.76	752037.51	N 32 12 58.15	W 103 39 7.32
	18800.00	89.85	179.66	10992.09	8015.99	-8022.18	-1020.48	0.00	442937.77	752038.11	N 32 12 57.16	W 103 39 7.32
	18900.00	89.85	179.66	10992.35	8115.99	-8122.18	-1019.88	0.00	442837.78	752038.71	N 32 12 56.17	W 103 39 7.32
	19000.00	89.85	179.66	10992.61	8215.99	-8222.18	-1019.28	0.00	442737.78	752039.31	N 32 12 55.18	W 103 39 7.32
	19100.00	89.85	179.66	10992.88	8315.99	-8322.18	-1018.68	0.00	442637.79	752039.91	N 32 12 54.19	W 103 39 7.32
	19200.00	89.85	179.66	10993.14	8415.98	-8422.17	-1018.08	0.00	442537.80	752040.51	N 32 12 53.20	W 103 39 7.32
	19300.00	89.85	179.66	10993.40	8515.98	-8522.17	-1017.48	0.00	442437.80	752041.11	N 32 12 52.21	W 103 39 7.32
	19400.00	89.85	179.66	10993.66	8615.98	-8622.17	-1016.88	0.00	442337.81	752041.72	N 32 12 51.22	W 103 39 7.32
	19500.00	89.85	179.66	10993.92	8715.98	-8722.17	-1016.28	0.00	442237.81	752042.32	N 32 12 50.23	W 103 39 7.32
	19600.00	89.85	179.66	10994.19	8815.98	-8822.17	-1015.68	0.00	442137.82	752042.92	N 32 12 49.24	W 103 39 7.32
	19700.00	89.85	179.66	10994.45	8915.98	-8922.16	-1015.07	0.00	442037.83	752043.52	N 32 12 48.25	W 103 39 7.32
	19800.00	89.85	179.66	10994.71	9015.98	-9022.16	-1014.47	0.00	441937.83	752044.12	N 32 12 47.26	W 103 39 7.32
	19900.00	89.85	179.66	10994.97	9115.98	-9122.16	-1013.87	0.00	441837.84	752044.72	N 32 12 46.27	W 103 39 7.33
	20000.00	89.85	179.66	10995.23	9215.98	-9222.16	-1013.27	0.00	441737.85	752045.32	N 32 12 45.28	W 103 39 7.33
	20100.00	89.85	179.66	10995.50	9315.98	-9322.16	-1012.67	0.00	441637.85	752045.92	N 32 12 44.29	W 103 39 7.33
	20200.00	89.85	179.66	10995.76	9415.98	-9422.15	-1012.07	0.00	441537.86	752046.52	N 32 12 43.30	W 103 39 7.33
	20300.00	89.85	179.66	10996.02	9515.98	-9522.15	-1011.47	0.00	441437.87	752047.12	N 32 12 42.31	W 103 39 7.33
	20400.00	89.85	179.66	10996.28	9615.98	-9622.15	-1010.87	0.00	441337.87	752047.72	N 32 12 41.32	W 103 39 7.33
	20500.00	89.85	179.66	10996.54	9715.98	-9722.15	-1010.27	0.00	441237.88	752048.33	N 32 12 40.33	W 103 39 7.33
	20600.00	89.85	179.66	10996.81	9815.98	-9822.14	-1009.67	0.00	441137.88	752048.93	N 32 12 39.34	W 103 39 7.33
	20700.00	89.85	179.66	10997.07	9915.98	-9922.14	-1009.06	0.00	441037.89	752049.53	N 32 12 38.36	W 103 39 7.33
Dos Equis 11-14 Federal Com 25H - BHL [100' FSL, 597' FWL]	20712.06	89.85	179.66	10997.10	9928.04	-9934.20	-1008.99	0.00	441025.83	752049.60	N 32 12 38.24	W 103 39 7.33

Survey Type: Def Plan

Survey Error Model: ISCWSA Rev 3 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	22.000	1/100.000	30.000	30.000		A001Mb_MWD-Depth Only	Dos Equis 11-14 Federal Com 25H / Coterra Dos Equis 11-14
	1	22.000	10400.000	1/100.000	30.000	30.000		A001Mb_MWD	Dos Equis 11-14 Federal Com 25H / Coterra Dos Equis 11-14
	1	10400.000	20712.061	1/100.000	30.000	30.000		A008Mb_MWD+IFR1+MS	Dos Equis 11-14 Federal Com 25H / Coterra Dos Equis 11-14

...Dos Equis 11-14 Federal Com 25H/Coterra Dos Equis 11-14 Federal Com 25Y Rev0 kFc 16Jun22



Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Anti-Collision Detailed Report

Analysis Method:	3D Least Distance	Distance Unit:	ft
Depth Interval:	Every 100.00 (ft) Measured Depth	Azimuth Unit:	deg
Step-down Trajectory:	Reference Trajectory	TC Azimuth Reference:	North
Analysis Date-24hr Time:	June 16, 2022 - 19:01	North Reference:	Grid
Analysis Machine:	SLB-C5ZGWT2	Client	COTERRA
Database \ Project:	Us1455vsm3172\drilling-NM Lea County 2.10	Version / Patch:	2.10.829.1

NOTE: Measured Depth is referenced to individual borehole elevation.
TVD, NS, EW are referenced to the reference trajectory's wellhead location and borehole elevation.
A minimum of 0.300 m is always included for borehole diameters.

All local minima indicated.

Anti-Collision Rules Used				
Rule Set Name		Exemption Risk Level:	Minor	
NAL Procedure: D&M AntiCollision Standard S002				
<u>Rule Name</u>	<u>Risk Level</u>	<u>Rule Type</u>	<u>Rule Label</u>	<u>NoGo Rule</u>
SLB Alert Zone Threshold OSF=5.0 S002 v5.1/5.2	Alert	Ratio	OSF = 5.00	
SLB Minor Risk Threshold OSF=1.5 S002 v5.1/5.2	Minor	Ratio	OSF = 1.50	X
SLB Major Risk Threshold OSF=1.0 S002 v5.1/5.2	Major	Ratio	OSF = 1.00	
SLB Surface Rule S002 v5.1/5.2	Major	CT_CT	MAS = 32.81(ft)	
SLB Alert Zone Threshold CtCt<=15m S002 v5.1/5.2	Alert	CT_CT	MAS = 49.21(ft)	

Field:

Structure:

Slot:

Client:

Coordinate System:

North Reference:

Magnetic Declination:

Reference Point:

North

East

Elevation

Structure Unc.

Slot Unc.

NM Lea County (NAD 83)

Coterra Dos Equis 11-14 Fed Com Pad (East)

New Slot

COTERRA

NAD83 New Mexico State Plane, Eastern Zone, US Feet

Grid

6.350°

753058.550 (ftUS)

3640.600 (ft) MSL

0.000 (ft) (3 sigma)

0.000 (ft) (3 sigma)

Reference Trajectory Summary

Well:

Borehole:

Trajectory:

Type:

Dos Equis 11-14 Federal Com 25H

Dos Equis 11-14 Federal Com 25H

Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22

Def Plan

Grid Convergence Angle:

Grid Scale Factor:

Magnetic Declination Date:

Magnetic Model:

0.36529063°

0.99996043

June 16, 2022

HDGM 2022

Trajectory Error Model: ISCWSA0 3-D 95.000% Confidence 2.7955 sigma								
Surveying Prog: While Drilling								
Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Survey Tool Type	Hole Size (in)	Casing Diameter (in)	Borehole / Survey
	1	0.000	22.000	1/100.000	A001Mb_MWD-Depth Only	30.000	30.000	uis 11-14 Federal Com 25Y Rev0 kFc 16Jun22
	1	22.000	10400.000	1/100.000	A001Mb_MWD	30.000	30.000	uis 11-14 Federal Com 25Y Rev0 kFc 16Jun22
	1	10400.000	20712.061	1/100.000	A008Mb_MWD+IFR1+MS	30.000	30.000	uis 11-14 Federal Com 25Y Rev0 kFc 16Jun22

Offset Trajectory Summary

Offset Selection Criteria:

Offset Selection Criteria: 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 Selection Summary

Wells Selected:17
Boreholes Selected:12
Definitive Surveys Selected:14
Non-Def Surveys Selected:0
Definitive Plans Selected:3
Non-Def Plans Selected:2
Total Trajectories:19
OSF filter in detailed report: None
* Excluded: The trajectory was analyzed and fully passed all criteria so the detailed results have been excluded from this report for clarity.

Trajectory	Borehole	Well	Type	Passing Excluded *
MCI Operating Jennings Federal #1 Blind to 5019ft - SWD	Original Borehole	MCI Operating Jennings Federal #1 (Offset)	Def Survey	
Coterra Dos Equis 11-14 Federal Com 25Y Corrected MWD to 20681ft	Dos Equis 11-14 Federal Com 25Y	Dos Equis 11-14 Federal Com 25Y	Def Survey	
Cimarex Dos Equis 11-14 Federal Com 4H Corrected MWD to 13100ft	Original Borehole	Cimarex Dos Equis 11-14 Federal Com 4H	Def Survey	
Cimarex Dos Equis 11-14 Federal Com 4H ST01 Corrected MWD to 21967ft	ST01	Cimarex Dos Equis 11-14 Federal Com 4H	Def Survey	
Coterra Dos Equis 11-14 Federal Com 24H Corrected MWD to 20387ft	Dos Equis 11-14 Federal Com 24H	Dos Equis 11-14 Federal Com 24H	Def Survey	
Coterra Dos Equis 11-14 Federal Com 5H Corrected MWD to 20508ft	Dos Equis 11-14 Federal Com 5H	Dos Equis 11-14 Federal Com 5H	Def Survey	
Coterra Dos Equis 11-14 Federal Com 23H Corrected MWD to 20586ft	Dos Equis 11-14 Federal Com 23H	Dos Equis 11-14 Federal Com 23H	Def Survey	
Bill J Graham Oil Hanagan D #4 Inc Only to 5107ft - P	Original Borehole	Bill J Graham Oil Hanagan D #4 (Offset)	Def Survey	
Cimarex Dos Equis 11-14 Federal Com 49H Rev0 RM 22Aug19	Dos Equis 11-14 Federal Com 49H	Dos Equis 11-14 Federal Com 49H	Non-Def Plan	
Cimarex Dos Equis 11 Federal #2H ST01 XEM+MWD 10343ft to 15244ft - A	ST01	Cimarex Dos Equis 11 Federal #2H	Def Survey	
Cimarex Dos Equis 11-14 Federal Com 7H Rev0 RM 05Sept19	Dos Equis 11-14 Federal Com 7H	Dos Equis 11-14 Federal Com 7H	Non-Def Plan	
Cimarex Dos Equis 11 Federal #2H XEM + MWD to 11103ft - P	Pilot	Cimarex Dos Equis 11 Federal #2H	Def Survey	
Cimarex Dos Equis 11-14 Federal Com 63H Rev0 RM 26Aug19	Dos Equis 11-14 Federal Com 63H	Dos Equis 11-14 Federal Com 63H	Def Plan	
Cimarex Dos Equis 11-14 Federal Com 62H Rev0 RM 23Aug19	Dos Equis 11-14 Federal Com 62H	Dos Equis 11-14 Federal Com 62H	Def Plan	
Rover Operating Co Wimberly #6 Inc Only to 5075ft - P	Original Borehole	Rover Operating Co Wimberly #6 (Offset)	Def Survey	
Cimarex Dos Equis 11-14 Federal Com 8H Rev0 RM 22Aug19	Dos Equis 11-14 Federal Com 8H	Dos Equis 11-14 Federal Com 8H	Def Plan	
MCI Operating Jennings Federal #2 Inc Only to 5000ft - P	Original Borehole	MCI Operating Jennings Federal #2 (Offset)	Def Survey	
MCI Operating Jennings Federal #4 Inc Only to 5000ft - P	Original Borehole	MCI Operating Jennings Federal #4 (Offset)	Def Survey	
MCI Operating Jennings Federal #5 Inc Only to 4950ft - P	Original Borehole	MCI Operating Jennings Federal #5 (Offset)	Def Survey	

Field: NM Lea County (NAD 83)
 Structure: Coterra Dos Equis 11-14 Fed Com Pad (East)
 Slot: 25H
 Client: COTERRA
 Coordinate System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 North Reference: Grid
 Grid Convergence Angle: 0.36535963°
 Well: Dos Equis 11-14 Federal Com 25H
 Borehole: Dos Equis 11-14 Federal Com 25H
 Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Corrected MWD to 20681ft
 Type: Def Survey
 Grid Scale Factor: 0.999960449
 Magnetic Declination: 6.353°
 Reference Point: Magnetic Declination Date: June 04, 2022
 Magnetic Model: HDGM 2022
 Northing: 4530959.860 (ftUS)
 Easting: 753098.540 (ftUS)
 Elevation: 3640.300 (ft) MSL
 Structure Unc.: 0.000 (ft) (3 sigma)
 Slot Unc.: 0.000 (ft) (3 sigma)

Trajectory Error Model: ISCWSA0 3-D 95.000% Confidence 2.7955 sigma
 Surveying Prog: As Drilled

Description	MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type	Hole Size (in)	Casing Diameter (in)	Borehole / Survey
	0.000	22.000	1/98.425	A008Mb_MWD+IFR1+MS-Depth Only	17.500	13.375	I Federal Com 25H Corrected MWD to 20681ft
	22.000	22.000	Act-Slts	A008Mb_MWD+IFR1+MS-Depth Only	17.500	13.375	I Federal Com 25H Corrected MWD to 20681ft
	22.000	1250.000	Act-Slts	A008Mb_MWD+IFR1+MS	17.500	13.375	I Federal Com 25H Corrected MWD to 20681ft
	1250.000	5005.000	Act-Slts	A008Mb_MWD+IFR1+MS	12.250	9.625	I Federal Com 25H Corrected MWD to 20681ft
	5005.000	10448.000	Act-Slts	A008Mb_MWD+IFR1+MS	8.750	7.000	I Federal Com 25H Corrected MWD to 20681ft
	10448.000	20681.000	Act-Slts	A008Mb_MWD+IFR1+MS	6.000	4.500	I Federal Com 25H Corrected MWD to 20681ft

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
All local minima indicated.															
0.00	0.00	0.00	0.00	0.00	0.30	0.24	39.99	89.66	39.99	32.36	7.63	38.19		N/A IAS = 9.86 (m)	Warning
100.00	100.00	0.00	0.00	99.57	99.87	0.12	40.15	89.83	40.15	32.36	7.79	37.95		98.10 IAS = 9.86 (m)	Warning
200.00	200.00	0.00	0.00	199.47	199.76	-0.25	40.62	90.35	40.62	32.36	8.26	37.61		32.25 IAS = 9.86 (m)	Warning
300.00	300.00	0.00	0.00	299.46	299.76	-0.83	41.20	91.15	41.21	32.36	8.85	37.20		17.93 IAS = 9.86 (m)	Warning
400.00	400.00	0.00	0.00	400.33	400.62	-1.07	40.85	91.50	40.87	32.36	8.50	35.87		12.27 IAS = 9.86 (m)	Warning
500.00	500.00	0.00	0.00	500.41	500.69	-0.55	39.18	90.81	39.19	32.36	6.83	33.22		8.99 IAS = 9.86 (m)	Warning
600.00	599.99	-0.87	0.00	600.33	600.59	-0.10	37.58	88.81	37.59	32.36	5.23	30.67		6.99 IAS = 9.86 (m)	Warning
700.00	699.98	-2.62	0.00	700.42	700.67	0.09	35.76	85.66	35.87	32.36	3.51	27.99		5.61 IAS = 9.86 (m)	Warning
800.00	799.96	-4.36	0.00	800.38	800.61	0.03	33.86	82.59	34.15	32.36	1.78	25.30		4.59 IAS = 9.86 (m)	Warning
900.00	899.95	-6.11	0.00	900.34	900.55	0.03	31.97	79.12	32.56	32.36	0.20	22.74		3.84 IAS = 9.86 (m)	Warning
1000.00	999.93	-7.85	0.00	1000.34	1000.53	0.03	30.06	75.29	31.08	32.36	-1.28	20.27		3.25 IAS = 9.86 (m)	Fail
1100.00	1099.92	-9.60	0.00	1100.38	1100.55	0.14	27.91	70.75	29.57	32.36	-2.79	17.77		2.78 IAS = 9.86 (m)	Fail
1200.00	1199.90	-11.34	0.00	1200.37	1200.51	0.13	25.54	65.78	28.01	32.36	-4.35	15.22		2.39 IAS = 9.86 (m)	Fail
1300.00	1299.89	-13.09	0.00	1300.18	1300.30	0.29	23.39	60.23	26.95	32.36	-5.41	13.45		2.14 IAS = 9.86 (m)	Fail
1400.00	1399.87	-14.83	0.00	1400.56	1400.63	0.87	20.51	52.55	25.84	32.36	-6.52	11.76		1.95 IAS = 9.86 (m)	Fail
1500.00	1499.86	-16.58	0.00	1500.55	1500.45	2.32	14.98	38.38	24.12	32.36	-8.24	9.45		1.73 IAS = 9.86 (m)	Fail
1506.20	1506.06	-16.69	-0.01	1506.74	1506.62	2.45	14.57	37.28	24.06	32.36	-8.30	9.35		1.72 IAS = 9.86 (m)	Fail
1600.00	1599.83	-18.11	-1.73	1600.64	1600.19	4.45	6.87	20.88	24.14	32.36	-8.22	8.83		1.65 IAS = 9.86 (m)	Fail
1700.00	1699.68	-19.20	-6.92	1700.45	1699.29	6.83	-4.64	4.94	26.14	32.36	-6.22	10.14		1.71 IAS = 9.86 (m)	Fail
1800.00	1799.30	-19.86	-15.57	1800.10	1797.70	9.59	-20.08	351.02	29.83	32.36	-2.53	13.13		1.87 IAS = 9.86 (m)	Fail
1900.00	1898.56	-20.08	-27.66	1899.83	1895.35	11.36	-40.20	337.76	34.00	32.36	1.64	16.55		2.05 IAS = 9.86 (m)	Warning
2000.00	1997.44	-19.94	-42.59	1999.30	1992.04	12.10	-63.54	326.11	38.66	32.36	6.30	20.46		2.24 IAS = 9.86 (m)	Warning
2100.00	2096.27	-19.77	-57.80	2098.85	2088.58	12.50	-87.82	316.31	44.74	32.36	12.38	25.76		2.49 IAS = 9.86 (m)	Warning
2200.00	2195.11	-19.59	-73.01	2198.30	2184.97	12.75	-112.30	308.71	51.88	32.36	19.52	32.10		2.77 IAS = 9.86 (m)	Warning
2300.00	2293.95	-19.42	-88.22	2298.19	2281.71	12.89	-137.15	302.76	59.89	32.36	27.53	39.25		3.07 IAS = 9.86 (m)	Warning
2400.00	2392.78	-19.24	-103.44	2398.60	2379.20	11.86	-161.17	297.76	66.97	32.36	34.61	45.43		3.28 IAS = 9.86 (m)	Warning
2500.00	2491.62	-19.07	-118.65	2498.26	2476.03	10.15	-184.69	293.37	73.88	32.81	41.07	51.45		3.48 OSF1.50	Warning
2600.00	2590.45	-18.89	-133.86	2597.74	2572.61	8.11	-208.49	289.46	81.34	34.15	47.19	58.03		3.68 OSF1.50	Warning
2700.00	2689.29	-18.71	-149.07	2697.04	2668.94	5.80	-232.47	286.01	89.27	35.50	53.77	65.06		3.88 OSF1.50	Warning
2800.00	2788.13	-18.54	-164.28	2796.32	2765.16	3.42	-256.80	283.04	97.82	36.88	60.95	72.69		4.10 OSF1.50	Warning
2900.00	2886.96	-18.36	-179.49	2898.23	2864.17	1.63	-280.86	280.93	105.80	38.40	67.41	79.66		4.25 OSF1.50	Warning
3000.00	2985.80	-18.19	-194.71	2998.41	2961.94	0.83	-302.67	279.79	112.20	39.85	72.34	85.08		4.34 OSF1.50	Warning
3100.00	3084.64	-18.01	-209.92	3097.99	3059.13	-0.01	-324.38	278.76	118.64	41.30	77.35	90.56		4.43 OSF1.50	Warning
3200.00	3183.47	-17.84	-225.13	3197.87	3156.59	-0.91	-346.20	277.80	125.17	42.76	82.41	96.11		4.51 OSF1.50	Warning
3300.00	3282.31	-17.66	-240.34	3298.16	3254.50	-1.87	-367.87	276.93	131.48	44.25	87.23	101.43		4.57 OSF1.50	Warning
3400.00	3381.14	-17.48	-255.55	3398.52	3352.56	-2.89	-389.19	276.12	137.44	45.74	91.69	106.39		4.62 OSF1.50	Warning
3500.00	3479.98	-17.31	-270.76	3499.58	3451.44	-3.85	-410.06	275.43	142.83	47.26	95.57	110.77		4.64 OSF1.50	Warning
3600.00	3578.82	-17.13	-285.97	3599.40	3549.29	-4.74	-429.76	274.84	147.31	48.75	98.56	114.26	4.64	OSF1.50	Warning
3700.00	3677.65	-16.96	-301.19	3696.61	3644.29	-5.26	-450.40	274.40	153.35	50.17	103.18	119.35	4.69	OSF1.50	Warning
3800.00	3776.49	-16.78	-316.40	3796.40	3741.63	-5.81	-472.37	273.95	160.20	51.68	108.52	125.20	4.75	OSF1.50	Warning
3900.00	3875.32	-16.61	-331.61	3897.96	3840.83	-6.66	-494.12	273.44	166.43	53.24	113.18	130.38	4.79	OSF1.50	Warning
4000.00	3974.16	-16.43	-346.82	3999.31	3940.07	-7.62	-514.69	272.96	171.52	54.80	116.72	134.44	4.79	OSF1.50	Warning
4100.00	4073.00	-16.26	-362.03	4096.58	4035.30	-8.19	-534.46	272.64	176.68	56.24	120.44	138.63	4.81	OSF1.50	Warning
4200.00	4171.83	-16.08	-377.24	4197.72	4134.08	-7.43	-556.13	272.73	183.03	57.81	125.21	143.94	4.84	OSF1.50	Warning
4300.00	4270.67	-15.90	-392.46	4301.23	4235.57	-7.10	-576.48	272.70	187.55	59.43	128.12	147.38	4.83	OSF1.50	Warning
4400.00	4369.50	-15.73	-407.67	4396.40	4328.88	-6.66	-595.21	272.72	192.10	60.84	131.26	150.99	4.83	OSF1.50	Warning
4500.00	4468.34	-15.55	-422.88	4497.31	4427.52	-5.35	-616.41	272.97	198.05	62.41	135.64	155.90	4.85	OSF1.50	Warning
4600.00	4567.18	-15.38	-438.09	4599.08	4527.21	-4.60	-636.90	273.06	203.07	64.00	139.07	159.85	4.85	OSF1.50	Warning
4700.00	4666.01	-15.20	-453.30	4699.58	4625.81	-4.32	-656.37	273.02	207.30	65.55	141.74	163.04	4.83	OSF1.50	Warning
4800.00	4764.85	-15.03	-468.51	4795.84	4720.00	-3.16	-676.12	273.22	212.72	67.01	145.71	167.50	4.84	OSF1.50	Warning
4900.00	4863.69	-14.85	-483.73	4898.64	4820.71	-1.96	-696.70	273.41	217.65	68.64	149.01	171.34	4.84	OSF1.50	Warning
5000.00	4962.52	-14.67	-498.94	4994.76	4914.78	-0.61	-716.40	273.64	223.08	70.10	152.99	175.80	4.85	OSF1.50	Warning
5100.00	5061.36	-14.50	-514.15	5092.84	5010.44	0.48	-738.02	273.76	230.07	71.04	159.03	182.20	4.93	OSF1.50	Warning
5200.00	5160.19	-14.32	-529.36	5194.24	5109.40	2.35	-760.04	274.06	236.80	71.95	164.85	188.32	5.01	OSF1.50	Pass
5300.00	5259.03	-14.15	-544.57	5296.86	5209.75	4.10	-781.49	274.33	242.67	72.91	169.76	193.55	5.07	OSF1.50	Pass
5400.00	5357.87	-13.97	-559.78	5392.72	5303.54	5.55	-801.17	274.54	248.20	73.76	174.43	198.51	5.12	OSF1.50	Pass
5500.00	5456.70	-13.80	-574.99	5490.20	5398.48	7.42	-823.20	274.79	255.82	74.66	181.16	205.53	5.22	OSF1.50	Pass
5600.00	5555.54	-13.62	-590.21	5590.41	5496.09	9.01	-845.86	274.96	263.45	75.65	187.80	212.50	5.30	OSF1.50	Pass
5700.00	5654.37	-13.45	-605.42	5691.36	5594.48	10.45	-868.40	275.09	270.78	76.67	194.11	219.15	5.38	OSF1.50	Pass
5800.00	5753.21	-13.27	-620.63	5794.46	5695.15	11.40	-890.65	275.13	277.29	77.75	199.54	224.95	5.43	OSF1.50	Pass
5900.00	5852.05	-13.09	-635.84	5897.14	5795.67	12.22	-911.56	275.16	282.56	78.83	203.73	229.49	5.45	OSF1.50	Pass
6000.00	5950.88	-12.92	-651.05	5990.17	5886.58	12.79	-931.31	275.14	288.69	79.75	208.93	235.00	5.51	OSF1.50	Pass
6100.00	6049.72	-12.74	-666.26	6092.68	5986.59	12.61	-953.81	274.95	295.48	80.87	214.61	241.05	5.56	OSF1.50	Pass
6200.00	6148.55	-12.57	-681.48	6193.96	6085.62	11.91	-975.01	274.68	301.93	81.98	219.22	246.03	5.59	OSF1.50	Pass

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Coterra Dos Equis 11-14 Federal Com 25Y Corrected MWD to 20681ft

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
6300.00	6247.39	-12.39	-696.69	6287.14	6176.46	11.04	-995.72	274.39	308.22	82.94	225.28	252.41	5.65	OSF1.50	Pass
6400.00	6346.23	-12.22	-711.90	6384.86	6271.40	9.69	-1018.82	274.00	316.67	84.00	232.66	260.15	5.73	OSF1.50	Pass
6500.00	6445.06	-12.04	-727.11	6487.52	6371.20	8.18	-1042.84	273.59	324.88	85.20	239.68	267.57	5.80	OSF1.50	Pass
6600.00	6543.90	-11.87	-742.32	6592.08	6473.14	6.64	-1066.01	273.22	331.85	86.43	245.42	273.71	5.84	OSF1.50	Pass
6700.00	6642.74	-11.69	-757.53	6696.62	6575.41	5.26	-1087.66	272.90	337.34	87.67	249.68	278.38	5.85	OSF1.50	Pass
6800.00	6741.57	-11.51	-772.75	6803.07	6679.87	3.89	-1108.10	272.60	341.33	88.93	252.40	281.53	5.83	OSF1.50	Pass
6900.00	6840.41	-11.34	-787.96	6907.09	6782.28	2.43	-1126.25	272.31	343.53	90.15	253.38	282.92	5.79	OSF1.50	Pass
7000.00	6939.24	-11.16	-803.17	7022.89	6896.74	0.20	-1143.61	271.90	343.27	91.42	251.85	281.81	5.70	OSF1.50	Pass
7100.00	7038.08	-10.99	-818.38	7139.72	7013.00	-2.78	-1154.61	271.40	337.27	92.53	244.73	275.06	5.53	OSF1.50	Pass
7200.00	7136.92	-10.81	-833.59	7243.65	7116.63	-5.69	-1161.92	270.89	328.99	93.67	235.32	266.03	5.33	OSF1.50	Pass
7300.00	7235.75	-10.64	-848.80	7349.28	7222.07	-9.01	-1167.40	270.29	318.89	94.77	224.12	255.20	5.11	OSF1.50	Pass
7400.00	7334.59	-10.46	-864.01	7452.10	7324.77	-12.17	-1171.15	269.67	307.30	95.90	211.40	242.85	4.86	OSF1.50	Warning
7500.00	7433.42	-10.28	-879.23	7553.14	7425.72	-14.97	-1174.02	269.08	294.94	97.06	197.88	223.72	4.61	OSF1.50	Warning
7600.00	7532.26	-10.11	-894.44	7652.89	7525.41	-17.63	-1176.45	268.46	282.19	98.25	183.94	216.17	4.35	OSF1.50	Warning
7700.00	7631.10	-9.93	-909.65	7751.87	7624.33	-20.11	-1178.79	267.81	269.42	99.48	169.95	202.59	4.10	OSF1.50	Warning
7800.00	7729.93	-9.76	-924.86	7852.44	7724.85	-22.40	-1180.99	267.14	256.49	100.67	155.83	188.87	3.86	OSF1.50	Warning
7900.00	7828.77	-9.58	-940.07	7950.93	7823.30	-24.33	-1182.95	266.49	243.39	101.92	141.46	174.92	3.61	OSF1.50	Warning
8000.00	7927.60	-9.41	-955.28	8050.60	7922.93	-26.29	-1184.94	265.75	230.33	103.16	127.17	161.04	3.38	OSF1.50	Warning
8100.00	8026.44	-9.23	-970.50	8150.60	8022.90	-28.37	-1186.81	264.89	217.18	104.39	112.80	147.08	3.15	OSF1.50	Warning
8200.00	8125.28	-9.06	-985.71	8255.39	8127.63	-31.63	-1188.41	263.49	201.98	105.41	96.57	131.19	2.89	OSF1.50	Warning
8300.00	8224.15	-8.88	-1000.68	8354.23	8226.40	-34.89	-1184.75	261.86	185.91	106.68	79.23	114.27	2.63	OSF1.50	Warning
8400.00	8323.40	-8.74	-1012.88	8452.66	8324.76	-38.17	-1183.23	260.13	172.88	108.03	64.86	100.35	2.41	OSF1.50	Warning
8500.00	8423.01	-8.64	-1021.60	8551.58	8423.63	-41.26	-1182.07	258.48	163.75	109.38	54.37	90.32	2.26	OSF1.50	Warning
8600.00	8522.87	-8.58	-1026.84	8650.98	8522.96	-44.70	-1181.12	256.81	158.44	110.74	47.71	84.11	2.16	OSF1.50	Warning
8700.00	8622.85	-8.56	-1028.60	8750.11	8622.03	-48.00	-1180.44	255.44	156.88	112.10	44.78	81.64	2.11	OSF1.50	Warning
8800.00	8722.85	-8.56	-1028.60	8849.33	8721.21	-50.93	-1180.54	254.42	157.74	113.40	44.35	81.63	2.09	OSF1.50	Warning
8900.00	8822.85	-8.56	-1028.60	8948.70	8820.53	-53.81	-1180.96	253.46	158.95	114.70	44.26	81.98	2.09	OSF1.50	Warning
9000.00	8922.85	-8.56	-1028.60	9048.01	8919.82	-56.92	-1182.07	252.85	160.64	115.98	44.96	82.80	2.09	OSF1.50	Warning
9100.00	9022.85	-8.56	-1028.60	9151.33	9023.12	-57.13	-1182.94	252.53	161.80	117.05	44.75	83.26	2.08	OSF1.50	Warning
9200.00	9122.85	-8.56	-1028.60	9253.17	9124.96	-56.98	-1182.06	252.49	160.93	118.14	42.79	81.66	2.05	OSF1.50	Warning
9300.00	9222.85	-8.56	-1028.60	9352.64	9224.42	-57.06	-1180.79	252.32	159.74	119.38	40.36	79.64	2.01	OSF1.50	Warning
9400.00	9322.85	-8.56	-1028.60	9451.91	9323.68	-58.27	-1179.63	251.78	159.00	120.68	38.32	78.04	1.98	OSF1.50	Warning
9500.00	9422.85	-8.56	-1028.60	9552.56	9424.31	-59.82	-1178.36	251.10	158.30	121.92	36.37	76.50	1.95	OSF1.50	Warning
9600.00	9522.85	-8.56	-1028.60	9653.94	9525.66	-61.57	-1176.37	250.27	157.02	123.14	33.88	74.41	1.92	OSF1.50	Warning
9700.00	9622.85	-8.56	-1028.60	9755.70	9627.35	-62.98	-1173.08	249.36	154.45	124.34	30.12	71.05	1.87	OSF1.50	Warning
9800.00	9722.85	-8.56	-1028.60	9855.43	9727.03	-63.51	-1169.91	248.75	151.68	125.64	26.04	67.41	1.81	OSF1.50	Warning
9900.00	9822.85	-8.56	-1028.60	9955.69	9827.23	-64.09	-1166.61	248.08	148.83	126.91	21.91	63.70	1.76	OSF1.50	Warning
10000.00	9922.85	-8.56	-1028.60	10055.49	9926.96	-64.99	-1163.04	247.23	145.86	128.24	17.62	59.85	1.71	OSF1.50	Warning
10100.00	10022.85	-8.56	-1028.60	10155.16	10026.57	-65.98	-1159.74	246.35	143.20	129.60	13.61	56.29	1.66	OSF1.50	Warning
10200.00	10122.85	-8.56	-1028.60	10254.07	10125.43	-66.90	-1156.76	245.52	140.84	131.00	9.83	52.99	1.61	OSF1.50	Warning
10300.00	10222.85	-8.56	-1028.60	10352.52	10223.85	-68.41	-1154.70	244.61	139.58	132.45	7.13	50.77	1.58	OSF1.50	Warning
10400.00	10322.85	-8.56	-1028.60	10450.74	10322.04	-70.51	-1153.54	243.63	139.46	133.81	5.65	48.77	1.56	OSF1.50	Warning
10500.00	10422.81	-10.22	-1028.71	10544.55	10415.77	-73.95	-1153.70	242.87	140.48	134.58	5.90	50.28	1.57	OSF1.50	Warning
10600.00	10521.35	-26.45	-1029.74	10630.53	10500.38	-88.53	-1155.58	242.69	141.87	134.66	7.21	51.62	1.58	OSF1.50	Warning
10700.00	10615.67	-58.51	-1031.86	10715.13	10579.49	-117.84	-1159.88	242.34	145.06	133.90	11.16	55.32	1.63	OSF1.50	Warning
10800.00	10702.60	-108.39	-1034.98	10804.98	10656.84	-163.10	-1164.54	241.95	147.90	133.03	14.87	58.73	1.67	OSF1.50	Warning
10900.00	10779.81	-171.61	-1039.02	10901.60	10731.87	-223.80	-1166.94	242.02	146.24	132.69	13.55	57.30	1.65	OSF1.50	Warning
11000.00	10844.85	-247.25	-1043.85	11002.62	10803.19	-295.15	-1163.18	243.97	150.16	132.95	2.21	46.05	1.53	OSF1.50	Warning
11100.00	10895.73	-333.02	-1049.33	11093.52	10857.46	-367.61	-1156.12	247.00	118.60	132.69	-14.09	29.66	1.34	OSF1.50	Fail
11200.00	10930.92	-426.30	-1055.29	11183.48	10899.63	-446.69	-1149.36	251.75	101.21	133.05	-31.83	12.03	1.14	OSF1.50	Fail
11300.00	10953.24	-523.60	-1060.50	11272.36	10929.68	-530.20	-1146.55	256.12	89.46	134.17	-44.70	-0.46	0.99	OSF1.50	Fail
11400.00	10967.26	-622.53	-1063.52	11363.10	10946.94	-619.11	-1149.53	257.99	88.44	135.45	-47.01	-2.34	0.97	OSF1.50	Fail
11500.00	10972.89	-722.34	-1064.33	11462.04	10954.11	-717.57	-1155.82	258.27	93.52	136.23	-42.71	2.22	1.02	OSF1.50	Fail
11600.00	10973.23	-822.34	-1063.75	11562.82	10957.62	-818.14	-1161.21	260.56	98.79	136.88	-38.09	7.06	1.08	OSF1.50	Fail
11700.00	10973.49	-922.34	-1063.15	11663.49	10959.88	-918.68	-1165.82	262.11	103.63	137.51	-33.88	11.48	1.13	OSF1.50	Fail
11800.00	10973.75	-1022.33	-1062.55	11767.43	10961.29	-1022.59	-1167.17	262.86	105.36	137.92	-32.57	12.93	1.14	OSF1.50	Fail
11900.00	10974.02	-1122.33	-1061.95	11866.81	10962.66	-1121.96	-1167.40	263.51	106.06	138.77	-32.71	13.06	1.14	OSF1.50	Fail
12000.00	10974.28	-1222.33	-1061.35	11966.79	10964.64	-1221.92	-1168.11	264.50	107.19	139.60	-32.41	13.64	1.15	OSF1.50	Fail
12100.00	10974.54	-1322.33	-1060.75	12066.96	10965.39	-1322.08	-1168.28	264.79	107.92	140.53	-32.60	13.76	1.15	OSF1.50	Fail
12200.00	10974.80	-1422.32	-1060.15	12167.30	10966.00	-1422.42	-1168.71	265.02	108.92	141.50	-32.58	14.11	1.15	OSF1.50	Fail
12300.00	10975.06	-1522.32	-1059.55	12267.16	10966.84	-1522.28	-1168.33	265.34	109.10	142.58	-33.48	15.57	1.14	OSF1.50	Fail
12400.00	10975.33	-1622.32	-1058.95	12366.62	10967.23	-1621.73	-1168.91	265.45	110.26	143.78	-33.52	13.93	1.15	OSF1.50	Fail
12500.00	10975.59	-1722.32	-1058.34	12469.67	10967.71	-1724.77	-1168.51	265.56	110.47	144.63	-34.16	13.57	1.14	OSF1.50	Fail
12600.00	10975.85	-1822.32	-1057.74	12566.72	10968.36	-1821.80	-1166.77	265.73	109.29	146.25	-36.96	11.31	1.12	OSF1.50	Fail
12700.00	10976.11	-1922.31	-1057.14	12667.44	10969.20	-1922.51	-1167.77	266.08	110.84	147.46	-36.62	12.05	1.12	OSF1.50	Fail
12800.00	10976.37	-2022.31	-1056.54	12768.60	10970.70	-2023.66	-1166.97	266.72	110.59	148.64	-38.05	11.02	1.11	OSF1.50	Fail
12900.00	10976.63	-2122.31	-1055.94	12867.42	10971.85	-2122.47	-1166.24	267.17	110.40	150.19	-39.79	9.80	1.10	OSF1.50	Fail
13000.00	10976.90	-2222.31													

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Coterra Dos Equis 11-14 Federal Com 25Y Corrected MWD to 20681ft

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
14800.00	10981.61	-4022.27	-1044.52	14766.99	10979.12	-4021.82	-1155.50	268.37	111.00	186.35	-75.35	-13.71	0.89	OSF1.50	Fail
14900.00	10981.87	-4122.27	-1043.92	14869.69	10976.95	-4124.48	-1154.55	267.11	110.76	188.19	-77.42	-15.17	0.88	OSF1.50	Fail
15000.00	10982.14	-4222.26	-1043.32	14968.99	10976.97	-4223.76	-1152.83	266.95	109.65	190.64	-80.99	-17.92	0.86	OSF1.50	Fail
15100.00	10982.40	-4322.26	-1042.72	15068.28	10977.59	-4323.05	-1152.12	267.14	109.51	193.08	-83.58	-19.70	0.85	OSF1.50	Fail
15200.00	10982.66	-4422.26	-1042.12	15169.77	10978.55	-4424.52	-1150.17	267.48	108.15	195.06	-86.90	-22.36	0.83	OSF1.50	Fail
15300.00	10982.92	-4522.26	-1041.52	15267.89	10979.32	-4522.63	-1149.52	267.75	108.06	197.82	-89.76	-24.30	0.81	OSF1.50	Fail
15400.00	10983.18	-4622.26	-1040.92	15369.05	10980.00	-4623.78	-1148.34	267.96	107.48	199.92	-92.44	-26.28	0.80	OSF1.50	Fail
15500.00	10983.45	-4722.25	-1040.32	15468.64	10980.49	-4723.36	-1147.23	268.07	106.96	202.42	-95.46	-28.46	0.79	OSF1.50	Fail
15600.00	10983.71	-4822.25	-1039.71	15568.92	10981.01	-4823.63	-1146.12	268.20	106.45	204.77	-98.32	-30.55	0.77	OSF1.50	Fail
15700.00	10983.97	-4922.25	-1039.11	15668.57	10981.52	-4923.28	-1144.80	268.33	105.72	207.29	-101.57	-32.95	0.76	OSF1.50	Fail
15800.00	10984.23	-5022.25	-1038.51	15768.27	10982.07	-5022.97	-1144.17	268.48	105.68	209.82	-104.14	-34.68	0.75	OSF1.50	Fail
15900.00	10984.49	-5122.25	-1037.91	15868.79	10982.48	-5123.49	-1143.26	268.56	105.37	212.18	-106.81	-36.56	0.74	OSF1.50	Fail
16000.00	10984.76	-5222.24	-1037.31	15969.65	10982.96	-5224.34	-1141.71	268.67	104.43	214.47	-110.03	-39.02	0.73	OSF1.50	Fail
16100.00	10985.02	-5322.24	-1036.71	16069.49	10983.99	-5324.15	-1139.65	269.08	102.96	217.00	-114.04	-42.18	0.71	OSF1.50	Fail
16200.00	10985.28	-5422.24	-1036.11	16168.94	10985.33	-5423.58	-1138.08	269.68	101.98	219.63	-117.64	-44.91	0.69	OSF1.50	Fail
16300.00	10985.54	-5522.24	-1035.51	16268.80	10986.05	-5523.43	-1136.87	269.94	101.37	222.20	-120.83	-47.24	0.68	OSF1.50	Fail
16400.00	10985.80	-5622.23	-1034.91	16368.04	10986.56	-5622.66	-1136.03	270.09	101.13	224.97	-123.83	-49.32	0.67	OSF1.50	Fail
16500.00	10986.07	-5722.23	-1034.31	16468.72	10986.94	-5723.34	-1135.33	270.15	101.04	227.38	-126.34	-51.03	0.66	OSF1.50	Fail
16600.00	10986.33	-5822.23	-1033.70	16569.48	10987.42	-5824.08	-1133.79	270.28	100.11	229.78	-129.67	-53.56	0.65	OSF1.50	Fail
16700.00	10986.59	-5922.23	-1033.10	16667.82	10987.84	-5922.41	-1132.86	270.37	99.77	232.84	-133.07	-55.94	0.64	OSF1.50	Fail
16800.00	10986.85	-6022.23	-1032.50	16768.34	10988.05	-6022.93	-1132.45	270.34	99.95	235.35	-135.40	-57.43	0.63	OSF1.50	Fail
16900.00	10987.11	-6122.22	-1031.90	16869.20	10988.39	-6123.79	-1131.20	270.39	99.32	237.77	-138.45	-59.68	0.62	OSF1.50	Fail
17000.00	10987.38	-6222.22	-1031.30	16969.33	10988.65	-6223.90	-1129.61	270.39	98.34	240.41	-142.07	-62.42	0.61	OSF1.50	Fail
17100.00	10987.64	-6322.22	-1030.70	17069.30	10989.01	-6323.86	-1127.69	270.47	97.01	243.09	-146.08	-65.53	0.59	OSF1.50	Fail
17200.00	10987.90	-6422.22	-1030.10	17168.03	10989.35	-6422.58	-1126.70	270.52	96.62	246.14	-149.53	-67.96	0.58	OSF1.50	Fail
17300.00	10988.16	-6522.22	-1029.50	17267.87	10989.56	-6522.42	-1126.69	270.48	97.20	248.90	-151.70	-69.21	0.58	OSF1.50	Fail
17400.00	10988.42	-6622.21	-1028.90	17368.66	10988.84	-6623.20	-1125.97	269.90	97.08	251.46	-154.38	-71.04	0.57	OSF1.50	Fail
17500.00	10988.69	-6722.21	-1028.30	17468.30	10988.32	-6722.84	-1124.97	269.44	96.68	254.34	-157.66	-73.36	0.56	OSF1.50	Fail
17600.00	10988.95	-6822.21	-1027.69	17568.28	10989.18	-6822.81	-1124.55	269.79	96.86	257.06	-160.20	-74.99	0.56	OSF1.50	Fail
17700.00	10989.21	-6922.21	-1027.09	17668.35	10990.14	-6922.87	-1123.77	270.21	96.68	259.75	-163.07	-76.97	0.55	OSF1.50	Fail
17800.00	10989.47	-7022.20	-1026.49	17767.93	10993.13	-7022.40	-1123.22	271.82	96.80	262.48	-165.69	-78.67	0.55	OSF1.50	Fail
17900.00	10989.73	-7122.20	-1025.89	17868.56	10997.06	-7122.94	-1122.72	273.98	97.10	264.85	-167.75	-79.94	0.54	OSF1.50	Fail
18000.00	10990.00	-7222.20	-1025.29	17968.39	10997.20	-7222.77	-1121.89	273.92	96.87	267.70	-170.82	-82.07	0.54	OSF1.50	Fail
18100.00	10990.26	-7322.20	-1024.69	18069.03	10998.21	-7323.39	-1120.99	274.38	96.64	270.26	-173.63	-84.02	0.53	OSF1.50	Fail
18200.00	10990.52	-7422.20	-1024.09	18167.89	10998.16	-7422.25	-1120.26	274.20	96.47	273.41	-176.93	-86.28	0.52	OSF1.50	Fail
18300.00	10990.78	-7522.19	-1023.49	18269.03	10996.85	-7523.38	-1119.70	273.26	96.41	276.02	-179.61	-88.08	0.52	OSF1.50	Fail
18400.00	10991.04	-7622.19	-1022.89	18367.82	10995.16	-7622.15	-1119.32	272.10	96.52	279.32	-182.79	-90.17	0.51	OSF1.50	Fail
18500.00	10991.31	-7722.19	-1022.29	18468.65	10993.31	-7722.97	-1119.09	270.84	96.83	282.04	-185.21	-91.68	0.51	OSF1.50	Fail
18600.00	10991.57	-7822.19	-1021.68	18569.89	10993.35	-7824.19	-1117.48	270.72	95.83	284.51	-188.68	-94.32	0.50	OSF1.50	Fail
18700.00	10991.83	-7922.19	-1021.08	18669.50	10996.49	-7923.72	-1115.32	272.48	94.36	287.33	-192.97	-97.68	0.49	OSF1.50	Fail
18800.00	10992.09	-8022.18	-1020.48	18768.79	10996.09	-8023.00	-1114.23	272.09	93.83	290.45	-196.61	-100.28	0.48	OSF1.50	Fail
18900.00	10992.35	-8122.18	-1019.88	18868.72	10994.85	-8122.92	-1113.47	271.18	93.62	293.42	-199.79	-102.47	0.47	OSF1.50	Fail
19000.00	10992.61	-8222.18	-1019.28	18968.79	10993.74	-8222.98	-1112.68	270.35	93.41	296.34	-202.93	-104.63	0.47	OSF1.50	Fail
19100.00	10992.88	-8322.18	-1018.68	19068.71	10992.57	-8322.89	-1111.85	269.47	93.17	299.31	-206.14	-106.85	0.46	OSF1.50	Fail
19200.00	10993.14	-8422.17	-1018.08	19168.59	10991.47	-8422.76	-1111.14	268.59	93.05	302.28	-209.21	-108.92	0.46	OSF1.50	Fail
19300.00	10993.40	-8522.17	-1017.48	19268.16	10991.31	-8522.33	-1110.74	268.37	93.26	305.32	-212.03	-110.74	0.45	OSF1.50	Fail
19400.00	10993.66	-8622.17	-1016.88	19368.44	10990.65	-8622.60	-1110.46	267.81	93.64	308.16	-214.52	-112.28	0.45	OSF1.50	Fail
19500.00	10993.92	-8722.17	-1016.28	19469.05	10989.01	-8723.19	-1109.38	266.63	93.24	310.93	-217.70	-114.53	0.44	OSF1.50	Fail
19600.00	10994.19	-8822.17	-1015.68	19568.35	10987.85	-8822.48	-1108.78	265.76	93.32	314.10	-220.78	-116.56	0.44	OSF1.50	Fail
19700.00	10994.45	-8922.16	-1015.07	19668.90	10986.88	-8923.02	-1108.13	265.01	93.36	316.87	-223.51	-118.36	0.44	OSF1.50	Fail
19800.00	10994.71	-9022.16	-1014.47	19768.82	10987.60	-9022.94	-1107.08	265.27	93.02	319.80	-226.91	-120.79	0.43	OSF1.50	Fail
19900.00	10994.97	-9122.16	-1013.87	19868.29	10988.29	-9122.41	-1106.65	265.54	93.02	322.87	-229.85	-122.71	0.43	OSF1.50	Fail
20000.00	10995.23	-9222.16	-1013.27	19967.93	10988.42	-9222.04	-1106.58	265.48	93.56	325.91	-232.35	-124.19	0.43	OSF1.50	Fail
20100.00	10995.50	-9322.16	-1012.67	20067.76	10987.56	-9321.87	-1106.75	264.84	94.42	328.91	-234.50	-125.34	0.43	OSF1.50	Fail
20200.00	10995.76	-9422.15	-1012.07	20167.88	10984.90	-9421.95	-1106.75	263.11	95.30	331.87	-236.57	-126.42	0.43	OSF1.50	Fail
20300.00	10996.02	-9522.15	-1011.47	20269.33	10982.84	-9523.37	-1105.94	261.71	95.39	334.39	-239.00	-128.02	0.42	OSF1.50	Fail
20400.00	10996.28	-9622.15	-1010.87	20368.89	10982.11	-9622.92	-1104.73	261.07	94.93	337.49	-242.56	-130.54	0.42	OSF1.50	Fail
20500.00	10996.54	-9722.15	-1010.27	20468.46	10979.88	-9722.46	-1104.02	259.58	95.23	340.59	-245.36	-132.31	0.41	OSF1.50	Fail
20600.00	10996.81	-9822.14	-1009.67	20568.88	10980.50	-9822.87	-1103.20	259.77	94.95	343.41	-248.47	-134.47	0.41	OSF1.50	Fail
20700.00	10997.07	-9922.14	-1009.06	20668.55	10980.69	-9922.53	-1102.98	259.76	95.34	346.48	-251.15	-136.13	0.41	OSF1.50	Fail
20712.06	10997.10	-9934.20	-1008.99	20680.61	10980.86	-9934.59	-1102.96	259.85	95.36	346.84	-251.48	-136.34	0.41	OSF1.50	Fail

End of results

...Dos Equis 11-14 Federal Com 25Y\Coterra Dos Equis 11-14 Federal Com 25Y Rev0 kFc 16Jun22

Drilling Office 2.10.829.1

Schlumberger-Private

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Field: NM Lea County (NAD 83)
 Structure: MCI Operating Jennings Federal #1 (Offset)
 Slot: MCI Operating Jennings Federal #1 (Offset)
 Client:
 Coordinate System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 North Reference: Grid
 Grid Convergence Angle: 0.36568278°
 Grid Scale Factor: 0.999960599
 Magnetic Declination: 6.666°
 Reference Point: Magnetic Declination Date: August 26, 2019
 Magnetic Model: HDGM 2019
 Northing: 445568.366 (ftUS)
 Easting: 753407.252 (ftUS)
 Elevation: 3619.800 (ft) MSL
 Structure Unc.: 0.000 (ft) (3 sigma)
 Slot Unc.: 0.000 (ft) (3 sigma)

Trajectory Error Model: ISCSWA0 3-D 95.000% Confidence 2.7955 sigma
 Surveying Prog: As Drilled

Description	MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type	Hole Size (in)	Casing Diameter (in)	Borehole / Survey
	0.000	0.000	Act-Sins	A026Ua_BLIND	30.000	30.000 ing Jennings Federal #1 Blind to 5019ft - SWD	
	0.000	5019.000	1/98.425	A026Ua_BLIND	30.000	30.000 ing Jennings Federal #1 Blind to 5019ft - SWD	
	5019.000	5019.000	Act-Sins	A026Ua_BLIND	30.000	30.000 ing Jennings Federal #1 Blind to 5019ft - SWD	

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
All local minima indicated.															
0.00	0.00	0.00	0.00	0.00	20.80	-5391.48	348.72	176.30	5402.78	32.81	5369.98	5400.28	N/A	NS = 10.00 (m)	Pass
100.00	100.00	0.00	0.00	79.20	100.00	-5391.48	348.72	176.30	5402.74	84.69	5318.05	5345.45	98.55	OSF1.50	Pass
200.00	200.00	0.00	0.00	179.20	200.00	-5391.48	348.72	176.30	5402.74	272.30	5130.45	5220.38	30.02	OSF1.50	Pass
300.00	300.00	0.00	0.00	279.20	300.00	-5391.48	348.72	176.30	5402.74	479.85	4922.89	5082.01	16.97	OSF1.50	Pass
400.00	400.00	0.00	0.00	379.20	400.00	-5391.48	348.72	176.30	5402.74	687.41	4715.33	4943.64	11.83	OSF1.50	Pass
500.00	500.00	0.00	0.00	479.20	500.00	-5391.48	348.72	176.30	5402.74	894.97	4507.78	4805.27	9.08	OSF1.50	Pass
600.00	599.99	-0.87	0.00	579.19	599.99	-5391.48	348.72	176.30	5401.87	1102.51	4299.36	4666.03	7.36	OSF1.50	Pass
700.00	699.98	-2.62	0.00	679.18	699.98	-5391.48	348.72	176.30	5400.13	1310.04	4090.09	4525.94	6.19	OSF1.50	Pass
800.00	799.96	-4.36	0.00	779.16	799.96	-5391.48	348.72	176.30	5398.39	1517.56	3898.83	4385.85	5.34	OSF1.50	Pass
900.00	899.95	-6.11	0.00	879.15	899.95	-5391.48	348.72	176.29	5396.65	1725.09	3671.56	4245.76	4.70	OSF1.50	Warning
1000.00	999.93	-7.85	0.00	979.13	999.93	-5391.48	348.72	176.29	5394.91	1932.61	3462.29	4105.66	4.19	OSF1.50	Warning
1100.00	1099.92	-9.60	0.00	1079.12	1099.92	-5391.48	348.72	176.29	5393.17	2140.14	3253.03	3965.57	3.78	OSF1.50	Warning
1200.00	1199.90	-11.34	0.00	1179.10	1199.90	-5391.48	348.72	176.29	5391.42	2347.66	3043.76	3825.48	3.45	OSF1.50	Warning
1300.00	1299.89	-13.09	0.00	1279.09	1299.89	-5391.48	348.72	176.29	5389.68	2555.19	2834.49	3685.39	3.17	OSF1.50	Warning
1400.00	1399.87	-14.83	0.00	1379.07	1399.87	-5391.48	348.72	176.29	5387.94	2762.71	2625.23	3545.30	2.93	OSF1.50	Warning
1500.00	1499.86	-16.58	0.00	1479.06	1499.86	-5391.48	348.72	176.29	5386.20	2970.24	2415.96	3405.21	2.72	OSF1.50	Warning
1600.00	1599.83	-18.11	-1.73	1579.03	1599.83	-5391.48	348.72	176.26	5384.79	3177.73	2207.06	3265.47	2.54	OSF1.50	Warning
1700.00	1699.68	-19.20	-6.92	1678.88	1699.68	-5391.48	348.72	176.20	5384.03	3384.98	1999.05	3126.55	2.39	OSF1.50	Warning
1800.00	1799.30	-19.86	-15.57	1778.50	1799.30	-5391.48	348.72	176.13	5383.96	3591.75	1792.21	2988.62	2.25	OSF1.50	Warning
1900.00	1898.56	-20.08	-27.66	1877.76	1898.56	-5391.48	348.72	176.03	5384.57	3797.77	1586.80	2851.89	2.13	OSF1.50	Warning
2000.00	1997.44	-19.94	-42.59	1976.64	1997.44	-5391.48	348.72	175.99	5385.77	4003.00	1382.77	2716.27	2.02	OSF1.50	Warning
2100.00	2096.27	-19.77	-57.80	2075.47	2096.27	-5391.48	348.72	175.73	5387.07	4208.14	1178.93	2580.81	1.92	OSF1.50	Warning
2200.00	2195.11	-19.59	-73.01	2174.31	2195.11	-5391.48	348.72	175.57	5388.42	4413.28	975.13	2445.39	1.83	OSF1.50	Warning
2300.00	2293.95	-19.42	-88.22	2273.15	2293.95	-5391.48	348.72	175.41	5389.80	4618.43	771.38	2310.02	1.75	OSF1.50	Warning
2400.00	2392.78	-19.24	-103.44	2371.98	2392.78	-5391.48	348.72	175.25	5391.23	4823.57	567.67	2174.69	1.68	OSF1.50	Warning
2500.00	2491.62	-19.07	-118.65	2470.82	2491.62	-5391.48	348.72	175.09	5392.70	5028.71	364.00	2039.40	1.61	OSF1.50	Warning
2600.00	2590.45	-18.89	-133.86	2569.65	2590.45	-5391.48	348.72	174.93	5394.22	5233.85	160.37	1904.15	1.55	OSF1.50	Warning
2700.00	2689.29	-18.71	-149.07	2668.49	2689.29	-5391.48	348.72	174.78	5395.78	5438.99	-43.22	1768.95	1.49	OSF1.50	Fail
2800.00	2788.13	-18.54	-164.28	2767.33	2788.13	-5391.48	348.72	174.62	5397.37	5644.13	-246.76	1633.79	1.43	OSF1.50	Fail
2900.00	2886.96	-18.36	-179.49	2866.16	2886.96	-5391.48	348.72	174.46	5399.02	5849.28	-450.26	1498.67	1.38	OSF1.50	Fail
3000.00	2985.80	-18.19	-194.71	2965.00	2985.80	-5391.48	348.72	174.30	5400.70	6054.42	-653.72	1363.59	1.34	OSF1.50	Fail
3100.00	3084.64	-18.01	-209.92	3063.84	3084.64	-5391.48	348.72	174.14	5402.43	6259.56	-857.13	1228.55	1.29	OSF1.50	Fail
3200.00	3183.47	-17.84	-225.13	3162.67	3183.47	-5391.48	348.72	173.98	5404.20	6464.70	-1060.51	1093.56	1.25	OSF1.50	Fail
3300.00	3282.31	-17.66	-240.34	3261.51	3282.31	-5391.48	348.72	173.82	5406.01	6669.84	-1263.84	958.61	1.22	OSF1.50	Fail
3400.00	3381.14	-17.48	-255.55	3360.34	3381.14	-5391.48	348.72	173.67	5407.86	6874.99	-1467.13	823.70	1.18	OSF1.50	Fail
3500.00	3479.98	-17.31	-270.76	3459.18	3479.98	-5391.48	348.72	173.51	5409.76	7080.13	-1670.37	688.84	1.15	OSF1.50	Fail
3600.00	3578.82	-17.13	-285.97	3558.02	3578.82	-5391.48	348.72	173.35	5411.69	7285.27	-1873.58	554.01	1.11	OSF1.50	Fail
3700.00	3677.65	-16.96	-301.19	3656.85	3677.65	-5391.48	348.72	173.19	5413.67	7490.41	-2076.74	419.23	1.08	OSF1.50	Fail
3800.00	3776.49	-16.78	-316.40	3755.69	3776.49	-5391.48	348.72	173.03	5415.69	7695.55	-2279.86	284.49	1.06	OSF1.50	Fail
3900.00	3875.32	-16.61	-331.61	3854.52	3875.32	-5391.48	348.72	172.88	5417.76	7900.70	-2482.94	149.79	1.03	OSF1.50	Fail
4000.00	3974.16	-16.43	-346.82	3953.36	3974.16	-5391.48	348.72	172.72	5419.86	8105.84	-2685.98	15.14	1.00	OSF1.50	Fail
4100.00	4073.00	-16.26	-362.03	4052.20	4073.00	-5391.48	348.72	172.56	5422.01	8310.98	-2888.97	-119.48	0.98	OSF1.50	Fail
4200.00	4171.83	-16.08	-377.24	4151.03	4171.83	-5391.48	348.72	172.40	5424.20	8516.12	-3091.92	-254.05	0.96	OSF1.50	Fail
4300.00	4270.67	-15.90	-392.46	4249.87	4270.67	-5391.48	348.72	172.25	5426.43	8721.26	-3294.84	-388.58	0.93	OSF1.50	Fail
4400.00	4369.50	-15.73	-407.67	4348.70	4369.50	-5391.48	348.72	172.09	5428.70	8926.41	-3497.70	-523.07	0.91	OSF1.50	Fail
4500.00	4468.34	-15.55	-422.88	4447.54	4468.34	-5391.48	348.72	171.93	5431.02	9131.55	-3700.53	-657.52	0.89	OSF1.50	Fail
4600.00	4567.18	-15.38	-438.09	4546.38	4567.18	-5391.48	348.72	171.78	5433.37	9336.69	-3903.32	-791.92	0.87	OSF1.50	Fail
4700.00	4666.01	-15.20	-453.30	4645.21	4666.01	-5391.48	348.72	171.62	5435.77	9541.83	-4106.06	-926.29	0.85	OSF1.50	Fail
4800.00	4764.85	-15.03	-468.51	4744.05	4764.85	-5391.48	348.72	171.46	5438.21	9746.98	-4308.77	-1060.61	0.84	OSF1.50	Fail
4900.00	4863.69	-14.85	-483.73	4842.89	4863.69	-5391.48	348.72	171.31	5440.69	9952.12	-4511.43	-1194.89	0.82	OSF1.50	Fail
5000.00	4962.52	-14.67	-498.94	4941.72	4962.52	-5391.48	348.72	171.15	5443.21	10157.26	-4714.05	-1329.13	0.80	OSF1.50	Fail
5100.00	5061.36	-14.50	-514.15	5039.00	5039.00	-5391.48	348.72	171.03	5445.82	10317.58	-4871.76	-1433.40	0.79	OSF1.50	Fail
5200.00	5160.19	-14.32	-529.36	5039.00	5039.00	-5391.48	348.72	171.03	5449.71	10315.15	-4865.44	-1427.89	0.79	OSF1.50	Fail
5300.00	5259.03	-14.15	-544.57	5039.00	5039.00	-5391.48	348.72	171.03	5455.43	10309.34	-4853.91	-1418.30	0.79	OSF1.50	Fail
5400.00	5357.87	-13.97	-559.78	5039.00	5039.00	-5391.48	348.72	171.03	5462.98	10300.18	-4837.21	-1404.65	0.80	OSF1.50	Fail
5500.00	5456.70	-13.80	-574.99	5039.00	5039.00	-5391.48	348.72	171.03	5472.34	10287.71	-4815.37	-1386.97	0.80	OSF1.50	Fail
5600.00	5555.54	-13.62	-590.21	5039.00	5039.00	-5391.48	348.72	171.03	5483.51	10271.97	-4788.46	-1365.30	0.80	OSF1.50	Fail
5700.00	5654.37	-13.45	-605.42	5039.00	5039.00	-5391.48	348.72	171.03	5496.48	10253.02	-4756.54	-1339.70	0.80	OSF1.50	Fail
5800.00	5753.21	-13.27	-620.63	5039.00	5039.00	-5391.48	348.72	171.03	5511.24	10230.93	-4719.69	-1310.22	0.81	OSF1.50	Fail
5900.00	5852.05	-13.09	-635.84	5039.00	5039.00	-5391.48	348.72	171.03	5527.76	10205.75	-4678.00	-1276.91	0.81	OSF1.50	Fail
6000.00	5950.88	-12.92	-651.05	5039.00	5039.00	-5391.48	348.72	171.03	5546.04	10177.59	-4631.56	-1239.86	0.82	OSF1.50	Fail
6100.00	6049.72	-12.74	-666.26	5039.00	5039.00	-5391.48	348.72	171.03	5566.05	10146.52	-4580.47	-1199.13	0.82	OSF1.50	Fail
6200.00	6148.55	-12.57	-681.48	5039.00	5039.00	-5391.48	348.72	171.03	5587.78	10112.64	-4524.86	-1154.81	0.83	OSF1.50	Fail
6300.00	6247.39	-12.39	-696.69	5039.00	5039.00	-5391.48	348.72	171.03	5611.21	10076.05	-4464.83	-1106			

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. MCI Operating Jennings Federal #1 Blind to 5019ft - SWD

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
6700.00	6642.74	-11.69	-757.53	5019.00	5039.80	-5391.48	348.72	171.03	5721.48	9904.70	-4183.22	-882.49	0.87	OSF1.50	Fail
6800.00	6741.57	-11.51	-772.75	5019.00	5039.80	-5391.48	348.72	171.03	5753.06	9856.19	-4103.13	-818.56	0.88	OSF1.50	Fail
6900.00	6840.41	-11.34	-787.96	5019.00	5039.80	-5391.48	348.72	171.03	5786.20	9805.64	-4019.44	-751.72	0.88	OSF1.50	Fail
7000.00	6939.24	-11.16	-803.17	5019.00	5039.80	-5391.48	348.72	171.03	5820.87	9753.17	-3932.31	-682.08	0.90	OSF1.50	Fail
7100.00	7038.08	-10.99	-818.38	5019.00	5039.80	-5391.48	348.72	171.03	5857.04	9698.91	-3841.87	-609.74	0.91	OSF1.50	Fail
7200.00	7136.92	-10.81	-833.59	5019.00	5039.80	-5391.48	348.72	171.03	5894.69	9642.98	-3748.29	-534.80	0.92	OSF1.50	Fail
7300.00	7235.75	-10.64	-848.80	5019.00	5039.80	-5391.48	348.72	171.03	5933.78	9585.48	-3651.71	-457.38	0.93	OSF1.50	Fail
7400.00	7334.59	-10.46	-864.01	5019.00	5039.80	-5391.48	348.72	171.03	5974.29	9526.55	-3552.26	-377.58	0.94	OSF1.50	Fail
7500.00	7433.42	-10.28	-879.23	5019.00	5039.80	-5391.48	348.72	171.03	6016.19	9466.29	-3450.11	-295.51	0.95	OSF1.50	Fail
7600.00	7532.26	-10.11	-894.44	5019.00	5039.80	-5391.48	348.72	171.03	6059.45	9404.83	-3345.38	-211.27	0.97	OSF1.50	Fail
7700.00	7631.10	-9.93	-909.65	5019.00	5039.80	-5391.48	348.72	171.03	6104.04	9342.26	-3238.22	-124.96	0.98	OSF1.50	Fail
7800.00	7729.93	-9.76	-924.86	5019.00	5039.80	-5391.48	348.72	171.03	6149.94	9274.70	-3128.76	-36.70	0.99	OSF1.50	Fail
7900.00	7828.77	-9.58	-940.07	5019.00	5039.80	-5391.48	348.72	171.03	6197.11	9214.25	-3017.15	53.44	1.01	OSF1.50	Fail
8000.00	7927.60	-9.41	-955.28	5019.00	5039.80	-5391.48	348.72	171.03	6245.52	9149.02	-2903.50	145.34	1.02	OSF1.50	Fail
8100.00	8026.44	-9.23	-970.50	5019.00	5039.80	-5391.48	348.72	171.03	6295.15	9083.11	-2787.95	238.91	1.04	OSF1.50	Fail
8200.00	8125.28	-9.06	-985.71	5019.00	5039.80	-5391.48	348.72	171.03	6345.97	9016.60	-2670.63	334.07	1.06	OSF1.50	Fail
8300.00	8224.15	-8.88	-1000.68	5019.00	5039.80	-5391.48	348.72	170.58	6397.91	8949.54	-2551.62	430.72	1.07	OSF1.50	Fail
8400.00	8323.40	-8.74	-1012.88	5019.00	5039.80	-5391.48	348.72	169.36	6450.57	8881.50	-2430.93	528.73	1.09	OSF1.50	Fail
8500.00	8423.01	-8.64	-1021.60	5019.00	5039.80	-5391.48	348.72	168.13	6503.75	8812.46	-2308.70	627.95	1.11	OSF1.50	Fail
8600.00	8522.87	-8.58	-1026.84	5019.00	5039.80	-5391.48	348.72	166.90	6557.40	8742.52	-2185.12	728.22	1.12	OSF1.50	Fail
8700.00	8622.85	-8.56	-1028.60	5019.00	5039.80	-5391.48	348.72	165.65	6611.43	8671.82	-2060.38	829.39	1.14	OSF1.50	Fail
8800.00	8722.85	-8.56	-1028.60	5019.00	5039.80	-5391.48	348.72	165.65	6666.16	8600.66	-1934.50	931.55	1.16	OSF1.50	Fail
8900.00	8822.85	-8.56	-1028.60	5019.00	5039.80	-5391.48	348.72	165.65	6721.92	8529.34	-1807.41	1034.87	1.18	OSF1.50	Fail
9000.00	8922.85	-8.56	-1028.60	5019.00	5039.80	-5391.48	348.72	165.65	6778.71	8457.92	-1679.21	1139.26	1.20	OSF1.50	Fail
9100.00	9022.85	-8.56	-1028.60	5019.00	5039.80	-5391.48	348.72	165.65	6836.48	8386.48	-1550.00	1244.66	1.22	OSF1.50	Fail
9200.00	9122.85	-8.56	-1028.60	5019.00	5039.80	-5391.48	348.72	165.65	6895.22	8315.07	-1419.84	1351.01	1.24	OSF1.50	Fail
9300.00	9222.85	-8.56	-1028.60	5019.00	5039.80	-5391.48	348.72	165.65	6954.90	8243.74	-1288.84	1458.24	1.27	OSF1.50	Fail
9400.00	9322.85	-8.56	-1028.60	5019.00	5039.80	-5391.48	348.72	165.65	7015.50	8172.57	-1157.06	1566.29	1.29	OSF1.50	Fail
9500.00	9422.85	-8.56	-1028.60	5019.00	5039.80	-5391.48	348.72	165.65	7077.00	8101.59	-1024.59	1675.11	1.31	OSF1.50	Fail
9600.00	9522.85	-8.56	-1028.60	5019.00	5039.80	-5391.48	348.72	165.65	7139.36	8030.85	-891.49	1784.63	1.33	OSF1.50	Fail
9700.00	9622.85	-8.56	-1028.60	5019.00	5039.80	-5391.48	348.72	165.65	7202.58	7960.41	-757.83	1894.81	1.36	OSF1.50	Fail
9800.00	9722.85	-8.56	-1028.60	5019.00	5039.80	-5391.48	348.72	165.65	7266.62	7890.29	-623.67	2005.59	1.38	OSF1.50	Fail
9900.00	9822.85	-8.56	-1028.60	5019.00	5039.80	-5391.48	348.72	165.65	7331.46	7820.53	-489.07	2116.94	1.41	OSF1.50	Fail
10000.00	9922.85	-8.56	-1028.60	5019.00	5039.80	-5391.48	348.72	165.65	7397.09	7751.19	-354.09	2228.80	1.43	OSF1.50	Fail
10100.00	10022.85	-8.56	-1028.60	5019.00	5039.80	-5391.48	348.72	165.65	7463.48	7682.27	-218.79	2341.13	1.46	OSF1.50	Fail
10200.00	10122.85	-8.56	-1028.60	5019.00	5039.80	-5391.48	348.72	165.65	7530.62	7613.82	-83.21	2453.90	1.48	OSF1.50	Fail
10300.00	10222.85	-8.56	-1028.60	5019.00	5039.80	-5391.48	348.72	165.65	7598.47	7545.87	52.60	2567.06	1.51	OSF1.50	Warning
10400.00	10322.85	-8.56	-1028.60	5019.00	5039.80	-5391.48	348.72	165.65	7667.03	7478.43	188.60	2680.58	1.54	OSF1.50	Warning
10500.00	10422.81	-10.22	-1028.71	5019.00	5039.80	-5391.48	348.72	166.82	7735.11	7410.53	324.58	2793.93	1.57	OSF1.50	Warning
10600.00	10521.35	-26.45	-1029.74	5019.00	5039.80	-5391.48	348.72	168.77	7793.01	7335.03	457.98	2902.16	1.59	OSF1.50	Warning
10700.00	10615.57	-59.51	-1031.86	5019.00	5039.80	-5391.48	348.72	170.00	7837.42	7252.06	585.35	3001.87	1.62	OSF1.50	Warning
10800.00	10702.60	-108.39	-1034.98	5019.00	5039.80	-5391.48	348.72	170.72	7867.21	7163.62	703.59	3090.63	1.65	OSF1.50	Warning
10900.00	10779.81	-171.61	-1039.02	5019.00	5039.80	-5391.48	348.72	171.04	7881.66	7071.84	809.82	3166.27	1.67	OSF1.50	Warning
11000.00	10844.85	-247.25	-1043.85	5019.00	5039.80	-5391.48	348.72	171.01	7880.41	6978.97	901.44	3226.93	1.69	OSF1.50	Warning
11100.00	10895.73	-333.02	-1048.33	5019.00	5039.80	-5391.48	348.72	170.63	7863.49	6887.36	976.13	3271.08	1.71	OSF1.50	Warning
11200.00	10930.92	-426.30	-1055.29	5019.00	5039.80	-5391.48	348.72	169.84	7831.32	6799.44	1031.88	3297.53	1.73	OSF1.50	Warning
11300.00	10953.24	-523.60	-1060.50	5019.00	5039.80	-5391.48	348.72	168.85	7787.87	6715.35	1072.52	3310.14	1.74	OSF1.50	Warning
11400.00	10967.26	-622.53	-1063.52	5019.00	5039.80	-5391.48	348.72	167.81	7737.70	6633.43	1104.27	3314.58	1.75	OSF1.50	Warning
11500.00	10972.89	-722.34	-1064.33	5019.00	5039.80	-5391.48	348.72	166.70	7681.09	6554.21	1126.87	3310.78	1.76	OSF1.50	Warning
11600.00	10973.23	-822.34	-1063.75	5019.00	5039.80	-5391.48	348.72	166.54	7620.87	6476.32	1144.55	3302.49	1.77	OSF1.50	Warning
11700.00	10973.49	-922.34	-1063.15	5019.00	5039.80	-5391.48	348.72	166.54	7561.44	6396.76	1164.68	3296.10	1.77	OSF1.50	Warning
11800.00	10973.75	-1022.33	-1062.55	5019.00	5039.80	-5391.48	348.72	166.54	7502.86	6315.47	1187.39	3291.71	1.78	OSF1.50	Warning
11900.00	10974.02	-1122.33	-1061.95	5019.00	5039.80	-5391.48	348.72	166.54	7445.17	6232.44	1212.73	3289.37	1.79	OSF1.50	Warning
12000.00	10974.28	-1222.33	-1061.35	5019.00	5039.80	-5391.48	348.72	166.54	7388.38	6147.66	1240.72	3285.11	1.80	OSF1.50	Warning
12100.00	10974.54	-1322.33	-1060.75	5019.00	5039.80	-5391.48	348.72	166.54	7332.51	6061.11	1271.40	3280.93	1.81	OSF1.50	Warning
12200.00	10974.80	-1422.32	-1060.15	5019.00	5039.80	-5391.48	348.72	166.54	7277.59	5972.81	1304.78	3274.88	1.83	OSF1.50	Warning
12300.00	10975.06	-1522.32	-1059.55	5019.00	5039.80	-5391.48	348.72	166.54	7223.64	5882.74	1340.89	3300.97	1.84	OSF1.50	Warning
12400.00	10975.33	-1622.32	-1058.95	5019.00	5039.80	-5391.48	348.72	166.54	7170.67	5790.92	1379.75	3309.22	1.86	OSF1.50	Warning
12500.00	10975.59	-1722.32	-1058.34	5019.00	5039.80	-5391.48	348.72	166.54	7118.72	5697.35	1421.37	3319.65	1.87	OSF1.50	Warning
12600.00	10975.85	-1822.32	-1057.74	5019.00	5039.80	-5391.48	348.72	166.54	7067.80	5602.05	1465.75	3332.26	1.89	OSF1.50	Warning
12700.00	10976.11	-1922.31	-1057.14	5019.00	5039.80	-5391.48	348.72	166.54	7017.93	5505.04	1512.89	3347.07	1.91	OSF1.50	Warning
12800.00	10976.37	-2022.31	-1056.54	5019.00	5039.80	-5391.48	348.72	166.54	6969.14	5406.34	1562.80	3364.08	1.93	OSF1.50	Warning
12900.00	10976.63	-2122.31	-1055.94	5019.00	5039.80	-5391.48	348.72	166.54	6921.45	5306.01	1615.45	3383.28	1.96	OSF1.50	Warning
13000.00	10976.90	-2222.31	-1055.34	5019.00	5039.80	-5391.48	348.72	166.54	6874.89	5204.07	1670.82	3404.68	1.98	OSF1.50	Warning
13100.00	10977.16	-2322.31	-1054.74	5019.00	5039.80	-5391.48	348.72	166.54	6829.48	5100.58	1728.89	3428.25	2.01	OSF1.50	Warning
13200.00	10977.42	-2422.30	-1054.14	5019.00	5039.8										

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. MCI Operating Jennings Federal #1 Blind to 5019ft - SWD

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
15200.00	10982.66	-4422.26	-1042.12	5019.00	5039.80	-5391.48	348.72	166.54	6179.92	2834.63	3345.29	4289.33	3.27	OSF1.50	Warning
15300.00	10982.92	-4522.26	-1041.52	5019.00	5039.80	-5391.48	348.72	166.54	6165.14	2748.50	3416.64	4331.98	3.37	OSF1.50	Warning
15400.00	10983.18	-4622.26	-1040.92	5019.00	5039.80	-5391.48	348.72	166.54	6151.96	2668.58	3483.38	4372.07	3.46	OSF1.50	Warning
15500.00	10983.45	-4722.25	-1040.32	5019.00	5039.80	-5391.48	348.72	166.54	6140.37	2595.69	3544.68	4409.08	3.55	OSF1.50	Warning
15600.00	10983.71	-4822.25	-1039.71	5019.00	5039.80	-5391.48	348.72	166.54	6130.40	2530.67	3599.73	4442.45	3.64	OSF1.50	Warning
15700.00	10983.97	-4922.25	-1039.11	5019.00	5039.80	-5391.48	348.72	166.54	6122.04	2474.36	3647.69	4471.64	3.71	OSF1.50	Warning
15800.00	10984.23	-5022.25	-1038.51	5019.00	5039.80	-5391.48	348.72	166.54	6115.31	2427.52	3687.79	4496.13	3.78	OSF1.50	Warning
15900.00	10984.49	-5122.25	-1037.91	5019.00	5039.80	-5391.48	348.72	166.54	6110.21	2390.89	3719.32	4515.45	3.84	OSF1.50	Warning
16000.00	10984.76	-5222.24	-1037.31	5019.00	5039.80	-5391.48	348.72	166.54	6106.74	2365.03	3741.70	4529.21	3.88	OSF1.50	Warning
16100.00	10985.02	-5322.24	-1036.71	5019.00	5039.80	-5391.48	348.72	166.54	6104.90	2350.40	3754.50	4537.13	3.90	OSF1.50	Warning
16200.00	10985.28	-5422.24	-1036.11	5019.00	5039.80	-5391.48	348.72	166.54	6104.70	2347.24	3757.46	4539.04	3.90	OSF1.50	Warning
16300.00	10985.54	-5522.24	-1035.51	5019.00	5039.80	-5391.48	348.72	166.54	6109.22	2355.62	3750.53	4534.90	3.89	OSF1.50	Warning
16400.00	10985.80	-5622.23	-1034.91	5019.00	5039.80	-5391.48	348.72	166.54	6109.22	2375.37	3733.85	4524.81	3.86	OSF1.50	Warning
16500.00	10986.07	-5722.23	-1034.31	5019.00	5039.80	-5391.48	348.72	166.54	6113.94	2406.16	3707.78	4509.00	3.81	OSF1.50	Warning
16600.00	10986.33	-5822.23	-1033.70	5019.00	5039.80	-5391.48	348.72	166.54	6120.28	2447.46	3672.82	4487.81	3.75	OSF1.50	Warning
16700.00	10986.59	-5922.23	-1033.10	5019.00	5039.80	-5391.48	348.72	166.54	6128.25	2498.63	3629.62	4461.66	3.68	OSF1.50	Warning
16800.00	10986.85	-6022.23	-1032.50	5019.00	5039.80	-5391.48	348.72	166.54	6137.84	2558.91	3578.92	4431.06	3.60	OSF1.50	Warning
16900.00	10987.11	-6122.22	-1031.90	5019.00	5039.80	-5391.48	348.72	166.54	6149.04	2627.50	3521.54	4396.54	3.51	OSF1.50	Warning
17000.00	10987.38	-6222.22	-1031.30	5019.00	5039.80	-5391.48	348.72	166.54	6161.84	2703.55	3458.29	4358.64	3.42	OSF1.50	Warning
17100.00	10987.64	-6322.22	-1030.70	5019.00	5039.80	-5391.48	348.72	166.54	6176.23	2786.22	3390.01	4317.92	3.33	OSF1.50	Warning
17200.00	10987.90	-6422.22	-1030.10	5019.00	5039.80	-5391.48	348.72	166.54	6192.21	2874.71	3317.50	4274.90	3.23	OSF1.50	Warning
17300.00	10988.16	-6522.22	-1029.50	5019.00	5039.80	-5391.48	348.72	166.54	6209.75	2968.24	3241.51	4230.09	3.14	OSF1.50	Warning
17400.00	10988.42	-6622.21	-1028.90	5019.00	5039.80	-5391.48	348.72	166.54	6228.86	3066.09	3162.76	4183.96	3.05	OSF1.50	Warning
17500.00	10988.69	-6722.21	-1028.30	5019.00	5039.80	-5391.48	348.72	166.54	6249.50	3167.59	3081.91	4136.94	2.96	OSF1.50	Warning
17600.00	10988.95	-6822.21	-1027.69	5019.00	5039.80	-5391.48	348.72	166.54	6271.67	3272.11	2999.56	4089.43	2.88	OSF1.50	Warning
17700.00	10989.21	-6922.21	-1027.09	5019.00	5039.80	-5391.48	348.72	166.54	6295.35	3379.12	2916.24	4041.77	2.80	OSF1.50	Warning
17800.00	10989.47	-7022.20	-1026.49	5019.00	5039.80	-5391.48	348.72	166.54	6320.53	3488.09	2832.44	3994.30	2.72	OSF1.50	Warning
17900.00	10989.73	-7122.20	-1025.89	5019.00	5039.80	-5391.48	348.72	166.54	6347.18	3598.57	2748.60	3947.29	2.65	OSF1.50	Warning
18000.00	10990.00	-7222.20	-1025.29	5019.00	5039.80	-5391.48	348.72	166.54	6375.29	3710.17	2665.12	3901.01	2.58	OSF1.50	Warning
18100.00	10990.26	-7322.20	-1024.69	5019.00	5039.80	-5391.48	348.72	166.54	6404.83	3822.51	2582.32	3855.66	2.51	OSF1.50	Warning
18200.00	10990.52	-7422.20	-1024.09	5019.00	5039.80	-5391.48	348.72	166.54	6435.80	3935.26	2500.53	3811.45	2.45	OSF1.50	Warning
18300.00	10990.78	-7522.19	-1023.49	5019.00	5039.80	-5391.48	348.72	166.54	6468.16	4048.14	2420.01	3768.56	2.40	OSF1.50	Warning
18400.00	10991.04	-7622.19	-1022.89	5019.00	5039.80	-5391.48	348.72	166.54	6501.90	4160.90	2341.00	3727.13	2.34	OSF1.50	Warning
18500.00	10991.31	-7722.19	-1022.29	5019.00	5039.80	-5391.48	348.72	166.54	6536.99	4273.29	2263.71	3687.30	2.30	OSF1.50	Warning
18600.00	10991.57	-7822.19	-1021.68	5019.00	5039.80	-5391.48	348.72	166.54	6573.42	4385.11	2188.31	3649.18	2.25	OSF1.50	Warning
18700.00	10991.83	-7922.19	-1021.08	5019.00	5039.80	-5391.48	348.72	166.54	6611.16	4496.19	2114.97	3612.87	2.21	OSF1.50	Warning
18800.00	10992.09	-8022.18	-1020.48	5019.00	5039.80	-5391.48	348.72	166.54	6650.19	4606.37	2043.82	3578.44	2.17	OSF1.50	Warning
18900.00	10992.35	-8122.18	-1019.88	5019.00	5039.80	-5391.48	348.72	166.54	6690.49	4715.51	1974.98	3545.98	2.13	OSF1.50	Warning
19000.00	10992.61	-8222.18	-1019.28	5019.00	5039.80	-5391.48	348.72	166.54	6732.03	4823.49	1908.55	3515.54	2.09	OSF1.50	Warning
19100.00	10992.88	-8322.18	-1018.68	5019.00	5039.80	-5391.48	348.72	166.54	6774.80	4930.19	1844.61	3487.17	2.06	OSF1.50	Warning
19200.00	10993.14	-8422.17	-1018.08	5019.00	5039.80	-5391.48	348.72	166.54	6818.76	5035.53	1783.23	3460.91	2.03	OSF1.50	Warning
19300.00	10993.40	-8522.17	-1017.48	5019.00	5039.80	-5391.48	348.72	166.54	6863.90	5139.43	1724.47	3436.78	2.00	OSF1.50	Warning
19400.00	10993.66	-8622.17	-1016.88	5019.00	5039.80	-5391.48	348.72	166.54	6910.19	5241.82	1668.37	3414.81	1.98	OSF1.50	Warning
19500.00	10993.92	-8722.17	-1016.28	5019.00	5039.80	-5391.48	348.72	166.54	6957.61	5342.63	1614.97	3395.02	1.95	OSF1.50	Warning
19600.00	10994.19	-8822.17	-1015.68	5019.00	5039.80	-5391.48	348.72	166.54	7006.13	5441.84	1564.30	3377.41	1.93	OSF1.50	Warning
19700.00	10994.45	-8922.16	-1015.07	5019.00	5039.80	-5391.48	348.72	166.54	7055.74	5539.38	1516.36	3361.99	1.91	OSF1.50	Warning
19800.00	10994.71	-9022.16	-1014.47	5019.00	5039.80	-5391.48	348.72	166.54	7106.41	5635.24	1471.18	3348.76	1.89	OSF1.50	Warning
19900.00	10994.97	-9122.16	-1013.87	5019.00	5039.80	-5391.48	348.72	166.54	7158.12	5729.38	1428.74	3337.70	1.87	OSF1.50	Warning
20000.00	10995.23	-9222.16	-1013.27	5019.00	5039.80	-5391.48	348.72	166.54	7210.85	5821.79	1389.05	3328.82	1.86	OSF1.50	Warning
20100.00	10995.50	-9322.16	-1012.67	5019.00	5039.80	-5391.48	348.72	166.54	7264.57	5912.46	1352.10	3322.09	1.84	OSF1.50	Warning
20200.00	10995.76	-9422.15	-1012.07	5019.00	5039.80	-5391.48	348.72	166.54	7319.26	6001.38	1317.88	3317.50	1.83	OSF1.50	Warning
20300.00	10996.02	-9522.15	-1011.47	5019.00	5039.80	-5391.48	348.72	166.54	7374.90	6088.54	1286.35	3315.04	1.82	OSF1.50	Warning
20400.00	10996.28	-9622.15	-1010.87	5019.00	5039.80	-5391.48	348.72	166.54	7431.47	6173.95	1257.51	3314.67	1.81	OSF1.50	Warning
20500.00	10996.54	-9722.15	-1010.27	5019.00	5039.80	-5391.48	348.72	166.54	7488.95	6257.62	1231.33	3316.37	1.80	OSF1.50	Warning
20600.00	10996.81	-9822.14	-1009.67	5019.00	5039.80	-5391.48	348.72	166.54	7547.31	6339.55	1207.77	3320.12	1.79	OSF1.50	Warning
20700.00	10997.07	-9922.14	-1009.06	5019.00	5039.80	-5391.48	348.72	166.54	7606.55	6419.74	1186.80	3325.88	1.78	OSF1.50	Warning
20712.06	10997.10	-9934.20	-1008.99	5019.00	5039.80	-5391.48	348.72	166.54	7613.75	6429.30	1184.45	3326.71	1.78	OSF1.50	Warning

End of results

...Dos Equis 11-14 Federal Com 25Y\Coterra Dos Equis 11-14 Federal Com 25Y Rev0 kFc 16Jun22

Drilling Office 2.10.829.1

Schlumberger-Private

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Field: NM Lea County (NAD 83)
 Structure: Coterra Dos Equis 11-14 Fed Com Pad (East)
 Slot: 24H
 Client: COTERRA
 Coordinate System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 North Reference: Grid
 Grid Convergence Angle: 0.36539414°
 Grid Scale Factor: 0.999960459
 Magnetic Declination: 6.355°
 Reference Point: 450959.980 (ftUS)
 Magnetic Declination Date: May 25, 2022
 Magnetic Model: HDGM 2022
 Well: Dos Equis 11-14 Federal Com 24H
 Borehole: Dos Equis 11-14 Federal Com 24H
 Trajectory: Coterra Dos Equis 11-14 Federal Com 24H Corrected MWD to 20387ft
 Type: Def Survey
 Easting: 753118.540 (ftUS)
 Elevation: 3640.200 (ft) MSL
 Structure Unc.: 0.000 (ft) (3 sigma)
 Slot Unc.: 0.000 (ft) (3 sigma)

Trajectory Error Model: ISCSWA0 3-D 95.000% Confidence 2.7955 sigma

Surveying Prog: As Drilled

Description	MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type	Hole Size (in)	Casing Diameter (in)	Borehole / Survey
	0.000	22.000	1/98.425	A008Mb_MWD+IFR1+MS-Depth Only	17.500	13.375	I Federal Com 24H Corrected MWD to 20387ft
	22.000	22.000	Act-Slts	A008Mb_MWD+IFR1+MS-Depth Only	17.500	13.375	I Federal Com 24H Corrected MWD to 20387ft
	22.000	1250.000	Act-Slts	A008Mb_MWD+IFR1+MS	17.500	13.375	I Federal Com 24H Corrected MWD to 20387ft
	1250.000	4945.000	Act-Slts	A008Mb_MWD+IFR1+MS	12.250	9.625	I Federal Com 24H Corrected MWD to 20387ft
	4945.000	10095.000	Act-Slts	A008Mb_MWD+IFR1+MS	8.750	7.000	I Federal Com 24H Corrected MWD to 20387ft
	10095.000	20387.000	Act-Slts	A008Mb_MWD+IFR1+MS	6.000	4.500	I Federal Com 24H Corrected MWD to 20387ft

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
All local minima indicated.															
0.00	0.00	0.00	0.00	0.00	0.40	0.36	59.99	89.66	59.99	32.81	27.19	58.19	N/A	VS = 10.00 (m)	Pass
100.00	100.00	0.00	0.00	99.49	99.89	-0.03	60.08	90.03	60.08	32.81	27.27	57.89	149.27	VS = 10.00 (m)	Pass
200.00	200.00	0.00	0.00	199.39	199.78	-1.21	60.35	91.14	60.37	32.81	27.56	57.36	48.65	VS = 10.00 (m)	Pass
300.00	300.00	0.00	0.00	299.36	299.74	-2.62	60.70	92.47	60.76	32.81	27.95	56.76	26.82	VS = 10.00 (m)	Pass
400.00	400.00	0.00	0.00	399.32	399.69	-4.04	61.09	93.79	61.22	32.81	28.42	56.22	18.58	VS = 10.00 (m)	Pass
500.00	500.00	0.00	0.00	499.16	499.51	-5.72	61.61	95.30	61.88	32.81	29.07	55.87	14.31	VS = 10.00 (m)	Pass
600.00	599.99	-0.87	0.00	599.18	599.51	-7.61	62.21	96.18	62.57	32.81	29.77	55.59	11.74	VS = 10.00 (m)	Pass
700.00	699.98	-2.62	0.00	699.22	699.53	-9.59	62.72	96.35	63.10	32.81	30.29	55.15	9.98	VS = 10.00 (m)	Pass
800.00	799.96	-4.36	0.00	799.28	799.57	-11.72	63.21	96.64	63.63	32.81	30.83	54.71	8.69	VS = 10.00 (m)	Pass
900.00	899.95	-6.11	0.00	899.26	899.52	-14.12	63.45	97.20	63.96	32.81	31.15	54.05	7.67	VS = 10.00 (m)	Pass
1000.00	999.93	-7.85	0.00	999.12	999.35	-16.86	63.94	98.02	64.58	32.81	31.77	53.68	6.91	VS = 10.00 (m)	Pass
1100.00	1099.92	-9.60	0.00	1099.20	1099.38	-19.87	64.39	99.07	65.21	32.81	32.40	53.32	6.29	VS = 10.00 (m)	Pass
1200.00	1199.90	-11.34	0.00	1199.14	1199.27	-23.02	64.74	100.23	65.78	32.81	32.98	52.90	5.78	VS = 10.00 (m)	Pass
1300.00	1299.89	-13.09	0.00	1299.23	1299.30	-26.30	65.05	101.49	66.38	32.81	33.57	52.77	5.41	VS = 10.00 (m)	Pass
1400.00	1399.87	-14.83	0.00	1400.17	1400.21	-28.66	64.91	102.02	66.37	32.81	33.56	52.17	5.16	VS = 10.00 (m)	Pass
1500.00	1499.86	-16.58	0.00	1502.76	1502.76	-28.50	62.47	100.76	63.66	32.81	30.85	48.88	4.72	VS = 10.00 (m)	Warning
1600.00	1599.83	-18.11	-1.73	1604.87	1604.66	-26.90	56.07	98.58	58.66	32.81	25.86	43.28	4.15	VS = 10.00 (m)	Warning
1700.00	1699.68	-19.20	-6.92	1705.86	1705.20	-24.70	46.91	95.77	54.40	32.81	21.59	38.36	3.67	VS = 10.00 (m)	Warning
1800.00	1799.30	-19.86	-15.57	1806.06	1804.84	-22.04	36.68	92.36	52.60	32.81	19.79	35.85	3.38	VS = 10.00 (m)	Warning
1900.00	1898.56	-20.08	-27.66	1906.19	1904.36	-19.03	26.06	88.89	54.04	32.81	21.24	36.57	3.31	VS = 10.00 (m)	Warning
2000.00	1997.44	-19.94	-42.59	2006.13	2003.66	-15.87	15.14	85.99	58.20	32.81	25.39	39.96	3.41	VS = 10.00 (m)	Warning
2100.00	2096.27	-19.77	-57.80	2106.11	2103.04	-14.39	4.41	85.09	62.81	32.81	30.00	43.77	3.52	VS = 10.00 (m)	Warning
2200.00	2195.11	-19.59	-73.01	2206.45	2202.75	-14.07	-6.87	85.26	66.81	32.81	34.01	46.96	3.58	VS = 10.00 (m)	Warning
2300.00	2293.95	-19.42	-88.22	2306.67	2302.28	-13.89	-18.57	85.49	70.37	32.81	37.56	49.68	3.61	VS = 10.00 (m)	Warning
2400.00	2392.78	-19.24	-103.44	2406.97	2401.84	-13.71	-30.74	85.69	73.46	32.81	40.65	51.92	3.61	VS = 10.00 (m)	Warning
2500.00	2491.62	-19.07	-118.65	2507.23	2501.30	-13.52	-43.36	85.82	76.11	32.81	43.30	53.69	3.59	VS = 10.00 (m)	Warning
2600.00	2590.45	-18.89	-133.86	2607.44	2600.66	-13.11	-56.33	85.78	78.41	34.13	44.29	55.11	3.55	OSF1.50	Warning
2700.00	2689.29	-18.71	-149.07	2707.66	2700.00	-12.44	-69.61	85.53	80.42	35.48	44.94	56.22	3.49	OSF1.50	Warning
2800.00	2788.13	-18.54	-164.28	2806.16	2797.70	-12.00	-82.11	85.48	82.99	36.88	46.11	57.85	3.46	OSF1.50	Warning
2900.00	2886.96	-18.36	-179.49	2905.19	2896.13	-12.33	-92.96	86.04	87.23	38.28	48.95	61.16	3.50	OSF1.50	Warning
3000.00	2985.80	-18.19	-194.71	3004.25	2994.69	-13.48	-102.89	87.08	92.37	39.68	52.69	65.36	3.58	OSF1.50	Warning
3100.00	3084.64	-18.01	-209.92	3104.20	3094.17	-14.38	-112.53	87.88	97.92	41.09	56.84	69.98	3.66	OSF1.50	Warning
3200.00	3183.47	-17.84	-225.13	3204.01	3193.51	-14.14	-122.25	87.95	103.44	42.50	60.94	74.55	3.74	OSF1.50	Warning
3300.00	3282.31	-17.66	-240.34	3303.76	3292.79	-13.75	-131.90	87.95	109.02	43.93	65.09	79.18	3.81	OSF1.50	Warning
3400.00	3381.14	-17.48	-255.55	3403.38	3391.95	-13.74	-141.43	88.13	114.70	45.36	69.34	83.91	3.88	OSF1.50	Warning
3500.00	3479.98	-17.31	-270.76	3502.59	3490.74	-13.45	-150.53	88.17	120.78	46.80	73.98	89.03	3.96	OSF1.50	Warning
3600.00	3578.82	-17.13	-285.97	3602.56	3590.32	-13.11	-159.31	88.19	127.25	48.24	79.00	94.54	4.04	OSF1.50	Warning
3700.00	3677.65	-16.96	-301.19	3703.66	3690.95	-13.00	-169.04	88.29	132.87	49.70	83.17	99.19	4.10	OSF1.50	Warning
3800.00	3776.49	-16.78	-316.40	3803.64	3790.42	-13.04	-179.21	88.45	137.95	51.16	86.78	103.29	4.13	OSF1.50	Warning
3900.00	3875.32	-16.61	-331.61	3903.45	3889.72	-13.62	-189.18	88.81	143.18	52.63	90.55	107.55	4.16	OSF1.50	Warning
4000.00	3974.16	-16.43	-346.82	4003.05	3988.81	-13.99	-199.18	89.06	148.39	54.10	94.28	111.77	4.20	OSF1.50	Warning
4100.00	4073.00	-16.26	-362.03	4102.76	4088.05	-14.17	-208.93	89.22	153.86	55.58	98.28	116.26	4.23	OSF1.50	Warning
4200.00	4171.83	-16.08	-377.24	4200.78	4185.64	-14.09	-218.11	89.29	159.74	57.04	102.70	121.16	4.28	OSF1.50	Warning
4300.00	4270.67	-15.90	-392.46	4301.22	4285.70	-14.24	-226.78	89.43	166.37	58.53	107.84	126.80	4.34	OSF1.50	Warning
4400.00	4369.50	-15.73	-407.67	4403.72	4387.70	-13.32	-236.80	89.20	171.85	60.02	111.83	131.28	4.37	OSF1.50	Warning
4500.00	4468.34	-15.55	-422.88	4501.43	4484.92	-12.48	-246.64	89.01	177.05	61.50	115.55	135.50	4.40	OSF1.50	Warning
4600.00	4567.18	-15.38	-438.09	4603.79	4586.75	-12.04	-257.01	88.95	182.17	63.00	119.16	139.61	4.41	OSF1.50	Warning
4700.00	4666.01	-15.20	-453.30	4702.20	4684.63	-11.17	-267.12	88.77	187.15	64.49	122.66	143.61	4.43	OSF1.50	Warning
4800.00	4764.85	-15.03	-468.51	4803.59	4785.47	-10.19	-277.57	88.56	192.11	66.00	126.12	147.56	4.44	OSF1.50	Warning
4900.00	4863.69	-14.85	-483.73	4905.64	4886.85	-9.21	-289.21	88.35	196.97	67.50	128.47	150.42	4.43	OSF1.50	Warning
5000.00	4962.52	-14.67	-498.94	5005.88	4986.37	-8.32	-301.16	88.18	199.31	68.70	130.61	152.99	4.42	OSF1.50	Warning
5100.00	5061.36	-14.50	-514.15	5105.75	5085.52	-7.59	-313.16	88.05	202.55	69.70	132.85	155.57	4.42	OSF1.50	Warning
5200.00	5160.19	-14.32	-529.36	5205.80	5184.85	-7.18	-325.11	88.01	205.86	70.60	135.26	158.28	4.44	OSF1.50	Warning
5300.00	5259.03	-14.15	-544.57	5306.26	5284.57	-6.96	-337.26	88.03	209.00	71.52	137.48	160.80	4.45	OSF1.50	Warning
5400.00	5357.87	-13.97	-559.78	5406.80	5384.34	-6.86	-349.70	88.08	211.87	72.46	139.41	163.05	4.45	OSF1.50	Warning
5500.00	5456.70	-13.80	-574.99	5506.80	5483.55	-6.89	-362.22	88.16	214.57	73.42	141.15	165.11	4.45	OSF1.50	Warning
5600.00	5555.54	-13.62	-590.21	5606.46	5582.43	-7.02	-374.63	88.26	217.35	74.41	142.94	167.23	4.44	OSF1.50	Warning
5700.00	5654.37	-13.45	-605.42	5705.72	5680.95	-7.07	-386.77	88.34	220.35	75.42	144.93	169.56	4.44	OSF1.50	Warning
5800.00	5753.21	-13.27	-620.63	5804.45	5778.99	-7.02	-398.40	88.40	223.81	76.45	147.36	172.33	4.45	OSF1.50	Warning
5900.00	5852.05	-13.09	-635.84	5903.79	5877.69	-7.16	-409.69	88.51	227.68	77.49	150.19	175.50	4.47	OSF1.50	Warning
6000.00	5950.88	-12.92	-651.05	6003.34	5976.60	-7.50	-420.91	88.66	231.64	78.55	153.09	178.76	4.48	OSF1.50	Warning
6100.00	6049.72	-12.74	-666.26	6101.84	6074.54	-7.94	-431.43	88.84	236.19	79.63	156.56	182.59	4.51	OSF1.50	Warning
6200.00	6148.55	-12.57	-681.48	6200.25	6172.40	-8.57	-441.73	89.05	240.96	80.72	160.24	186.63	4.54	OSF1.50	Warning
6300.00	6247.39	-12.39	-696.69	6294.74	6266.53	-9.53	-450.04	89.34	247.41	81.79	165.62	192.37	4.60	OSF1.50	Warning

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Coterra Dos Equis 11-14 Federal Com 24Yy Corrected MWD to 20387ft

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
6400.00	6346.23	-12.22	-711.90	6390.42	6361.98	-9.89	-456.52	89.47	255.87	82.86	173.01	200.11	4.69	OSF1.50	Warning
6500.00	6445.06	-12.04	-727.11	6485.43	6456.84	-10.01	-461.85	89.56	265.53	83.92	181.60	209.06	4.81	OSF1.50	Warning
6600.00	6543.90	-11.87	-742.32	6579.45	6550.81	-9.65	-464.74	89.53	277.68	84.96	192.73	220.53	4.97	OSF1.50	Warning
6700.00	6642.74	-11.69	-757.53	6678.72	6650.05	-9.45	-467.23	89.55	290.40	86.10	204.30	232.49	5.12	OSF1.50	Pass
6800.00	6741.57	-11.51	-772.75	6777.57	6748.88	-9.50	-469.69	89.61	303.15	87.25	215.90	244.47	5.28	OSF1.50	Pass
6900.00	6840.41	-11.34	-787.96	6876.67	6847.95	-9.70	-472.02	89.70	316.03	88.41	227.61	256.57	5.43	OSF1.50	Pass
7000.00	6939.24	-11.16	-803.17	6975.95	6947.19	-10.04	-474.43	89.80	328.84	89.59	239.25	268.60	5.58	OSF1.50	Pass
7100.00	7038.08	-10.99	-818.38	7076.02	7047.23	-10.45	-476.93	89.90	341.58	90.80	250.78	280.53	5.71	OSF1.50	Pass
7200.00	7136.92	-10.81	-833.59	7177.27	7148.44	-10.96	-479.91	90.02	353.87	92.03	261.84	292.00	5.84	OSF1.50	Pass
7300.00	7235.75	-10.64	-848.80	7269.78	7240.91	-11.86	-482.31	90.19	366.53	93.12	273.42	303.94	5.98	OSF1.50	Pass
7400.00	7334.59	-10.46	-864.01	7368.33	7339.45	-12.94	-483.38	90.37	380.67	94.32	286.35	317.28	6.13	OSF1.50	Pass
7500.00	7433.42	-10.29	-879.23	7468.73	7439.80	-14.00	-484.86	90.54	394.44	95.57	298.87	330.21	6.27	OSF1.50	Pass
7600.00	7532.26	-10.11	-894.44	7557.23	7528.33	-14.29	-485.28	90.59	409.20	96.57	312.63	344.30	6.43	OSF1.50	Pass
7700.00	7631.10	-9.93	-909.65	7654.59	7625.68	-13.71	-483.99	90.51	425.71	97.74	327.97	360.03	6.61	OSF1.50	Pass
7800.00	7729.93	-9.76	-924.86	7753.85	7724.93	-13.63	-482.80	90.50	442.11	98.97	343.14	375.62	6.78	OSF1.50	Pass
7900.00	7828.77	-9.58	-940.07	7854.87	7825.95	-13.97	-481.91	90.55	458.19	100.25	357.95	390.85	6.94	OSF1.50	Pass
8000.00	7927.60	-9.41	-955.28	7955.00	7926.07	-14.54	-481.46	90.62	473.85	101.51	372.34	405.67	7.09	OSF1.50	Pass
8100.00	8026.44	-9.23	-970.50	8053.59	8024.66	-15.53	-481.15	90.74	489.39	102.76	386.63	420.37	7.23	OSF1.50	Pass
8200.00	8125.28	-9.06	-985.71	8150.78	8121.84	-16.66	-480.67	90.86	505.10	103.99	401.12	435.26	7.37	OSF1.50	Pass
8300.00	8224.15	-8.88	-1000.68	8246.64	8217.68	-17.81	-479.80	90.99	521.00	105.19	415.81	450.36	7.52	OSF1.50	Pass
8400.00	8323.40	-8.74	-1012.88	8341.75	8312.79	-17.74	-478.24	90.97	534.81	106.36	428.46	463.39	7.63	OSF1.50	Pass
8500.00	8423.01	-8.64	-1021.60	8439.32	8410.33	-17.02	-476.04	90.88	545.77	107.56	438.22	473.56	7.70	OSF1.50	Pass
8600.00	8522.87	-8.58	-1026.84	8540.63	8511.61	-16.62	-473.86	90.83	553.15	108.82	444.33	480.09	7.71	OSF1.50	Pass
8700.00	8622.85	-8.56	-1028.60	8642.09	8613.05	-16.49	-471.87	90.82	556.87	110.08	446.79	482.97	7.67	OSF1.50	Pass
8800.00	8722.85	-8.56	-1028.60	8744.21	8715.16	-16.79	-470.33	90.85	558.38	111.31	447.07	483.66	7.61	OSF1.50	Pass
8900.00	8822.85	-8.56	-1028.60	8846.81	8817.75	-17.35	-469.10	90.90	559.60	112.56	447.04	484.04	7.54	OSF1.50	Pass
9000.00	8922.85	-8.56	-1028.60	8952.22	8923.16	-17.57	-468.61	90.92	560.07	113.87	446.20	483.64	7.46	OSF1.50	Pass
9100.00	9022.85	-8.56	-1028.60	9055.16	9026.10	-18.34	-469.01	91.00	559.69	115.14	444.55	482.41	7.37	OSF1.50	Pass
9200.00	9122.85	-8.56	-1028.60	9153.70	9124.62	-19.22	-469.51	91.09	559.20	116.34	442.85	481.12	7.29	OSF1.50	Pass
9300.00	9222.85	-8.56	-1028.60	9253.76	9224.68	-20.55	-469.84	91.23	558.89	117.58	441.31	479.99	7.20	OSF1.50	Pass
9400.00	9322.85	-8.56	-1028.60	9353.99	9324.90	-22.26	-470.23	91.41	558.54	118.83	439.71	478.80	7.12	OSF1.50	Pass
9500.00	9422.85	-8.56	-1028.60	9453.82	9424.70	-24.13	-470.59	91.60	558.23	120.08	438.15	477.66	7.04	OSF1.50	Pass
9600.00	9522.85	-8.56	-1028.60	9558.09	9528.97	-25.10	-471.35	91.70	557.53	121.41	436.12	476.07	6.96	OSF1.50	Pass
9700.00	9622.85	-8.56	-1028.60	9663.65	9634.52	-25.07	-473.00	91.70	555.97	122.76	433.21	473.62	6.86	OSF1.50	Pass
9800.00	9722.85	-8.56	-1028.60	9765.76	9736.59	-24.02	-475.55	91.60	553.44	124.05	429.39	470.22	6.76	OSF1.50	Pass
9900.00	9822.85	-8.56	-1028.60	9859.79	9830.58	-22.34	-477.43	91.43	551.39	125.22	426.18	467.40	6.67	OSF1.50	Pass
10000.00	9922.85	-8.56	-1028.60	9954.11	9924.89	-21.59	-478.12	91.36	550.64	126.39	424.25	465.87	6.60	OSF1.50	Pass
10100.00	10022.85	-8.56	-1028.60	10054.10	10024.88	-21.93	-478.39	91.39	550.37	127.66	422.71	464.75	6.53	OSF1.50	Pass
10200.00	10122.85	-8.56	-1028.60	10159.49	10130.27	-22.33	-479.02	91.44	549.80	128.75	421.05	463.49	6.46	OSF1.50	Pass
10300.00	10222.85	-8.56	-1028.60	10276.13	10245.20	-40.19	-483.23	93.32	546.75	129.83	416.92	459.72	6.37	OSF1.50	Pass
10400.00	10322.85	-8.56	-1028.60	10357.07	10321.52	-66.55	-487.93	96.12	543.77	130.52	413.25	456.28	6.30	OSF1.50	Pass
10500.00	10422.81	-10.22	-1028.71	10414.61	10374.04	-89.99	-488.55	98.78	548.18	129.84	418.35	461.15	6.39	OSF1.50	Pass
10600.00	10521.35	-26.45	-1029.74	10474.35	10426.95	-117.58	-485.96	101.74	559.39	128.52	430.87	473.23	6.59	OSF1.50	Pass
10700.00	10615.57	-59.51	-1031.86	10536.63	10480.01	-149.63	-480.06	104.42	575.31	127.07	448.24	490.12	6.85	OSF1.50	Pass
10800.00	10702.80	-108.39	-1034.98	10601.98	10531.04	-189.59	-472.21	106.97	593.92	126.71	468.21	508.63	7.15	OSF1.50	Pass
10900.00	10779.81	-171.61	-1038.02	10692.39	10591.10	-256.27	-462.73	109.62	612.28	125.39	486.89	528.21	7.39	OSF1.50	Pass
11000.00	10844.85	-247.25	-1043.85	10788.40	10639.99	-338.64	-458.70	112.20	626.67	125.18	501.49	542.74	7.58	OSF1.50	Pass
11100.00	10895.73	-333.02	-1049.33	10856.30	10665.20	-401.62	-458.25	114.07	638.15	124.25	513.89	554.83	7.78	OSF1.50	Pass
11200.00	10930.92	-426.30	-1055.29	10924.89	10682.18	-468.04	-457.37	115.52	648.94	123.71	525.23	565.99	7.94	OSF1.50	Pass
11300.00	10953.24	-523.60	-1060.50	11000.91	10694.70	-542.98	-455.86	115.11	657.88	123.67	534.21	574.95	8.06	OSF1.50	Pass
11400.00	10967.26	-622.53	-1063.52	11080.71	10702.48	-622.36	-453.78	114.39	664.76	123.85	540.90	581.71	8.13	OSF1.50	Pass
11500.00	10972.89	-722.34	-1064.33	11168.68	10706.33	-710.20	-451.20	113.31	668.68	124.32	544.36	585.32	8.15	OSF1.50	Pass
11600.00	10973.23	-822.34	-1063.75	11269.54	10707.91	-811.02	-448.48	112.98	670.14	125.05	545.09	586.29	8.11	OSF1.50	Pass
11700.00	10973.49	-922.34	-1063.15	11376.63	10709.41	-918.08	-446.52	112.84	670.82	125.92	544.90	586.39	8.07	OSF1.50	Pass
11800.00	10973.75	-1022.33	-1062.55	11476.66	10710.31	-1018.10	-445.52	112.77	670.93	126.76	544.17	585.94	8.01	OSF1.50	Pass
11900.00	10974.02	-1122.33	-1061.95	11571.77	10710.54	-1113.20	-444.30	112.76	671.56	127.59	543.97	586.02	7.97	OSF1.50	Pass
12000.00	10974.28	-1222.33	-1061.35	11674.56	10710.56	-1215.98	-443.02	112.75	672.25	128.58	543.67	586.05	7.91	OSF1.50	Pass
12100.00	10974.54	-1322.33	-1060.75	11775.22	10710.28	-1316.64	-442.24	112.79	672.62	129.60	543.02	585.74	7.86	OSF1.50	Pass
12200.00	10974.80	-1422.32	-1060.15	11873.64	10710.42	-1415.05	-441.09	112.78	673.19	130.68	542.51	585.59	7.80	OSF1.50	Pass
12300.00	10975.06	-1522.32	-1059.55	11972.30	10710.49	-1513.70	-439.89	112.77	673.83	131.83	542.00	585.47	7.74	OSF1.50	Pass
12400.00	10975.33	-1622.32	-1058.95	12071.23	10710.34	-1612.62	-438.33	112.77	674.89	133.05	541.84	585.71	7.68	OSF1.50	Pass
12500.00	10975.59	-1722.32	-1058.34	12173.69	10710.28	-1715.07	-437.01	112.78	676.64	134.39	541.25	585.57	7.61	OSF1.50	Pass
12600.00	10975.85	-1822.32	-1057.74	12272.04	10710.24	-1813.42	-435.85	112.78	678.30	135.73	540.57	585.33	7.54	OSF1.50	Pass
12700.00	10976.11	-1922.31	-1057.14	12369.16	10710.06	-1910.52	-434.28	112.78	677.41	137.10	540.31	585.53	7.47	OSF1.50	Pass
12800.00	10976.37	-2022.31	-1056.54	12466.51	10709.88	-2007.85	-432.32	112.77	678.88	138.54	540.34	586.04	7.41	OSF1.50	Pass
12900.00	10976.63	-2122.31	-1055.94	12573.07	10709.75	-2114.39	-430.20	112.75	680.32	140.23	540.09	586.35	7.34	OSF1.50	Pass
13000.00	10976.90	-2222.31	-1055.34	12676.48	10709.44	-2217.79	-429.44	112.79	680.66	141.90	538.77	585.59	7.25	OSF1.50	Pass
13100.00	10977.16														

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Coterra Dos Equis 11-14 Federal Com 24Y Corrected MWD to 20387ft

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
14900.00	10981.87	-4122.27	-1043.92	14578.78	10722.16	-4119.70	-424.09	112.39	672.05	181.16	490.89	550.80	5.60	OSF1.50	Pass
15000.00	10982.14	-4222.26	-1043.32	14676.14	10722.75	-4217.06	-423.23	112.35	672.17	183.48	488.69	549.37	5.53	OSF1.50	Pass
15100.00	10982.40	-4322.26	-1042.72	14773.72	10723.66	-4314.62	-421.77	112.27	672.74	185.84	486.90	548.36	5.46	OSF1.50	Pass
15200.00	10982.66	-4422.26	-1042.12	14878.34	10724.62	-4419.24	-420.60	112.20	672.96	188.47	484.49	546.84	5.39	OSF1.50	Pass
15300.00	10982.92	-4522.26	-1041.52	14974.98	10725.25	-4515.86	-419.64	112.16	673.17	190.83	482.34	545.47	5.32	OSF1.50	Pass
15400.00	10983.18	-4622.26	-1040.92	15070.61	10725.90	-4611.48	-417.99	112.09	674.05	193.18	480.87	544.78	5.26	OSF1.50	Pass
15500.00	10983.45	-4722.25	-1040.32	15172.95	10726.42	-4713.80	-416.01	112.03	675.20	195.80	479.40	544.19	5.20	OSF1.50	Pass
15600.00	10983.71	-4822.25	-1039.71	15280.82	10727.12	-4821.66	-415.05	111.99	675.31	198.62	476.68	542.41	5.13	OSF1.50	Pass
15700.00	10983.97	-4922.25	-1039.11	15378.80	10728.05	-4919.63	-414.67	111.94	674.86	201.12	473.74	540.30	5.06	OSF1.50	Pass
15800.00	10984.23	-5022.25	-1038.51	15472.50	10729.34	-5013.31	-413.21	111.83	675.32	203.49	471.83	539.18	5.00	OSF1.50	Pass
15900.00	10984.49	-5122.25	-1037.91	15576.62	10730.22	-5117.42	-411.37	111.74	676.19	206.25	469.94	538.21	4.94	OSF1.50	Warning
16000.00	10984.76	-5222.24	-1037.31	15680.56	10731.39	-5221.34	-410.95	111.67	676.95	209.03	468.92	536.12	4.87	OSF1.50	Warning
16100.00	10985.02	-5322.24	-1036.71	15785.36	10732.30	-5316.14	-409.86	111.61	676.90	211.47	464.45	534.44	4.82	OSF1.50	Warning
16200.00	10985.28	-5422.24	-1036.11	15888.21	10732.93	-5408.97	-408.17	111.55	676.88	213.85	463.02	533.83	4.77	OSF1.50	Warning
16300.00	10985.54	-5522.24	-1035.51	15982.39	10733.73	-5523.13	-406.18	111.47	677.84	217.07	460.76	532.64	4.71	OSF1.50	Warning
16400.00	10985.80	-5622.23	-1034.91	16081.51	10734.87	-5622.24	-405.95	111.41	677.17	219.72	457.44	530.20	4.64	OSF1.50	Warning
16500.00	10986.07	-5722.23	-1034.31	16186.12	10735.94	-5726.84	-405.87	111.36	676.40	222.59	453.82	527.53	4.58	OSF1.50	Warning
16600.00	10986.33	-5822.23	-1033.70	16294.00	10736.88	-5834.71	-407.00	111.37	674.64	225.56	449.08	523.79	4.51	OSF1.50	Warning
16700.00	10986.59	-5922.23	-1033.10	16396.89	10737.91	-5937.58	-408.98	111.39	672.01	228.36	443.66	519.30	4.43	OSF1.50	Warning
16800.00	10986.85	-6022.23	-1032.50	16492.62	10738.78	-6033.28	-410.79	111.41	669.47	230.93	438.54	515.04	4.37	OSF1.50	Warning
16900.00	10987.11	-6122.22	-1031.90	16590.64	10739.19	-6131.30	-411.77	111.45	667.91	233.58	434.33	511.72	4.31	OSF1.50	Warning
17000.00	10987.38	-6222.22	-1031.30	16695.97	10740.25	-6236.60	-413.96	111.48	665.13	236.50	428.62	506.98	4.24	OSF1.50	Warning
17100.00	10987.64	-6322.22	-1030.70	16786.51	10740.82	-6327.13	-415.08	111.51	663.27	238.92	424.36	503.52	4.18	OSF1.50	Warning
17200.00	10987.90	-6422.22	-1030.10	16885.60	10742.71	-6426.20	-414.72	111.38	662.44	241.69	420.75	500.84	4.13	OSF1.50	Warning
17300.00	10988.16	-6522.22	-1029.50	16993.94	10743.89	-6534.52	-415.73	111.36	660.70	244.78	415.93	497.04	4.06	OSF1.50	Warning
17400.00	10988.42	-6622.21	-1028.90	17098.55	10744.89	-6639.11	-417.90	111.39	657.96	247.72	410.24	492.33	4.00	OSF1.50	Warning
17500.00	10988.69	-6722.21	-1028.30	17196.85	10746.09	-6737.38	-420.12	111.41	654.95	250.46	404.49	487.50	3.94	OSF1.50	Warning
17600.00	10988.95	-6822.21	-1027.69	17291.72	10746.91	-6832.23	-421.80	111.44	652.53	253.08	399.45	483.33	3.88	OSF1.50	Warning
17700.00	10989.21	-6922.21	-1027.09	17392.38	10747.33	-6932.88	-423.22	111.49	650.61	255.91	394.69	479.52	3.83	OSF1.50	Warning
17800.00	10989.47	-7022.20	-1026.49	17487.83	10747.60	-7028.32	-424.55	111.55	648.75	258.56	390.19	475.90	3.78	OSF1.50	Warning
17900.00	10989.73	-7122.20	-1025.89	17582.48	10747.94	-7122.97	-424.94	111.57	647.77	261.18	386.59	473.17	3.73	OSF1.50	Warning
18000.00	10990.00	-7222.20	-1025.29	17677.38	10748.65	-7217.87	-424.37	111.54	647.59	263.83	383.76	471.22	3.69	OSF1.50	Warning
18100.00	10990.26	-7322.20	-1024.69	17779.45	10749.54	-7319.93	-423.34	111.47	647.74	266.79	380.95	469.40	3.65	OSF1.50	Warning
18200.00	10990.52	-7422.20	-1024.09	17878.09	10750.68	-7418.56	-422.44	111.39	647.70	269.62	378.08	467.47	3.61	OSF1.50	Warning
18300.00	10990.78	-7522.19	-1023.49	17982.47	10752.14	-7522.92	-421.59	111.28	647.49	272.70	374.78	465.21	3.57	OSF1.50	Warning
18400.00	10991.04	-7622.19	-1022.89	18083.71	10753.09	-7624.15	-421.46	111.24	646.79	275.64	371.15	462.55	3.53	OSF1.50	Warning
18500.00	10991.31	-7722.19	-1022.29	18181.28	10754.34	-7721.72	-421.15	111.17	646.15	278.45	367.71	460.04	3.49	OSF1.50	Warning
18600.00	10991.57	-7822.19	-1021.68	18276.86	10755.47	-7817.28	-420.07	111.08	646.30	281.17	365.13	458.37	3.46	OSF1.50	Warning
18700.00	10991.83	-7922.19	-1021.08	18380.93	10757.07	-7921.34	-419.28	110.97	645.97	284.27	361.70	455.97	3.42	OSF1.50	Warning
18800.00	10992.09	-8022.18	-1020.48	18476.63	10758.15	-8017.02	-418.21	110.88	646.13	287.01	359.12	454.31	3.39	OSF1.50	Warning
18900.00	10992.35	-8122.18	-1019.88	18579.25	10759.34	-8119.63	-417.05	110.79	646.31	290.06	356.24	452.45	3.35	OSF1.50	Warning
19000.00	10992.61	-8222.18	-1019.28	18678.36	10760.98	-8218.73	-416.09	110.66	646.15	292.97	353.18	450.36	3.32	OSF1.50	Warning
19100.00	10992.88	-8322.18	-1018.68	18776.78	10762.50	-8317.12	-414.73	110.53	646.42	295.85	350.57	448.71	3.29	OSF1.50	Warning
19200.00	10993.14	-8422.17	-1018.08	18873.99	10763.47	-8414.32	-413.39	110.45	646.89	298.67	348.22	447.30	3.26	OSF1.50	Warning
19300.00	10993.40	-8522.17	-1017.48	18972.82	10763.90	-8513.13	-411.79	110.41	647.77	301.57	346.21	446.25	3.23	OSF1.50	Warning
19400.00	10993.66	-8622.17	-1016.88	19069.03	10764.27	-8609.32	-409.95	110.36	648.96	304.34	344.62	445.59	3.21	OSF1.50	Warning
19500.00	10993.92	-8722.17	-1016.28	19180.21	10765.74	-8720.48	-407.96	110.22	649.71	307.83	341.88	444.01	3.17	OSF1.50	Warning
19600.00	10994.19	-8822.17	-1015.68	19286.92	10767.52	-8827.17	-407.93	110.11	648.66	311.08	337.57	440.79	3.14	OSF1.50	Warning
19700.00	10994.45	-8922.16	-1015.07	19381.50	10769.04	-8921.73	-407.60	110.01	647.95	313.84	334.11	438.24	3.10	OSF1.50	Warning
19800.00	10994.71	-9022.16	-1014.47	19478.33	10770.46	-9018.55	-406.87	109.91	647.67	316.68	331.00	436.08	3.07	OSF1.50	Warning
19900.00	10994.97	-9122.16	-1013.87	19572.41	10771.42	-9112.61	-405.46	109.83	648.28	319.39	328.87	434.85	3.05	OSF1.50	Warning
20000.00	10995.23	-9222.16	-1013.27	19670.41	10771.98	-9210.60	-403.44	109.76	649.52	322.27	327.24	434.19	3.03	OSF1.50	Warning
20100.00	10995.50	-9322.16	-1012.67	19770.38	10772.58	-9310.54	-401.36	109.69	650.79	325.26	325.53	433.47	3.01	OSF1.50	Warning
20200.00	10995.76	-9422.15	-1012.07	19876.19	10773.10	-9416.33	-399.48	109.63	651.82	328.53	323.29	432.32	2.98	OSF1.50	Warning
20300.00	10996.02	-9522.15	-1011.47	19982.91	10773.75	-9523.04	-398.85	109.60	651.70	331.82	319.88	430.00	2.95	OSF1.50	Warning
20400.00	10996.28	-9622.15	-1010.87	20081.13	10774.20	-9621.26	-398.71	109.60	651.19	334.73	316.46	427.56	2.92	OSF1.50	Warning
20500.00	10996.54	-9722.15	-1010.27	20176.62	10774.74	-9716.75	-398.05	109.57	651.18	337.53	313.65	425.68	2.90	OSF1.50	Warning
20600.00	10996.81	-9822.14	-1009.67	20272.02	10775.20	-9812.14	-396.50	109.52	652.06	340.32	311.74	424.70	2.88	OSF1.50	Warning
20700.00	10997.07	-9922.14	-1009.06	20381.70	10776.13	-9921.81	-395.40	109.46	652.22	343.78	308.45	422.56	2.85	OSF1.50	Warning
20712.06	10997.10	-9934.20	-1008.99	20387.00	10776.18	-9927.11	-395.38	109.45	652.21	343.83	308.38	422.51	2.85	OSF1.50	Warning

End of results

...Dos Equis 11-14 Federal Com 25Y\Coterra Dos Equis 11-14 Federal Com 25Y Rev0 kFc 16Jun22

Drilling Office 2.10.829.1

Schlumberger-Private

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Field: NM Lea County (NAD 83)
 Structure: Cimarex Dos Equis 11-14 Federal Com 4H
 Slot: Cimarex Dos Equis 11-14 Federal Com 4H
 Client: Cimarex
 Coordinate System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 North Reference: Grid
 Grid Convergence Angle: 0.36305582°
 Grid Scale Factor: 0.999959803
 Magnetic Declination: 6.728°
 Reference Point: Magnetic Declination Date: February 21, 2019
 Magnetic Model: HDGM 2019
 Northing: 450964.240 (ftUS)
 Easting: 751763.040 (ftUS)
 Elevation: 3657.600 (ft) MSL
 Structure Unc.: 0.000 (ft) (3 sigma)
 Slot Unc.: 0.000 (ft) (3 sigma)

Trajectory Error Model: ISCSWA0 3-D 95.000% Confidence 2.7955 sigma

Surveying Prog: As Drilled

Description	MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type	Hole Size (in)	Casing Diameter (in)	Borehole / Survey
	0.000	26.000	1/98.425	A008Mb_MWD+IFR1+MS-Depth Only	30.000	30.000 leral Com 4H ST01 Corrected MWD to 21967ft	
	26.000	26.000	Act-Sins	A008Mb_MWD+IFR1+MS-Depth Only	30.000	30.000 leral Com 4H ST01 Corrected MWD to 21967ft	
	26.000	21967.000	Act-Sins	A008Mb_MWD+IFR1+MS	30.000	30.000 leral Com 4H ST01 Corrected MWD to 21967ft	

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
All local minima indicated.															
0.00	0.00	0.00	0.00	16.15	-0.85	4.62	-1295.57	270.20	1295.58	32.81	1262.77	1293.08	N/A	10.00 (m)	Pass
100.00	100.00	0.00	0.00	111.18	94.18	4.66	-1295.81	270.21	1295.84	32.81	1263.03	1292.92	3147.44	10.00 (m)	Pass
200.00	200.00	0.00	0.00	206.49	189.49	4.74	-1296.42	270.21	1296.48	32.81	1263.67	1292.79	1091.16	10.00 (m)	Pass
300.00	300.00	0.00	0.00	306.95	289.95	4.71	-1297.22	270.21	1297.27	32.81	1264.46	1292.59	594.48	10.00 (m)	Pass
400.00	400.00	0.00	0.00	407.27	390.26	4.42	-1297.98	270.20	1298.03	32.81	1265.22	1292.35	407.87	10.00 (m)	Pass
500.00	500.00	0.00	0.00	506.15	489.14	4.06	-1298.75	270.18	1298.80	32.81	1265.99	1292.13	310.85	10.00 (m)	Pass
600.00	599.99	-0.87	0.00	603.23	586.21	3.73	-1299.68	270.19	1299.76	32.81	1266.95	1292.13	252.78	10.00 (m)	Pass
700.00	699.98	-2.62	0.00	701.11	684.09	3.21	-1300.80	270.24	1300.91	32.81	1268.10	1292.32	213.37	10.00 (m)	Pass
800.00	799.96	-4.36	0.00	801.08	784.04	2.59	-1302.07	270.29	1302.18	32.81	1269.38	1292.62	184.10	10.00 (m)	Pass
900.00	899.95	-6.11	0.00	901.49	884.44	1.79	-1303.25	270.34	1303.37	32.81	1270.56	1292.82	161.73	10.00 (m)	Pass
1000.00	999.93	-7.85	0.00	999.01	981.96	0.99	-1304.49	270.37	1304.64	32.81	1271.84	1293.13	144.40	10.00 (m)	Pass
1100.00	1099.92	-9.60	0.00	1098.60	1081.52	-0.04	-1305.91	270.41	1306.08	32.81	1273.27	1293.57	130.28	10.00 (m)	Pass
1200.00	1199.90	-11.34	0.00	1200.05	1182.96	-1.16	-1307.31	270.43	1307.46	32.81	1274.65	1293.95	118.57	10.00 (m)	Pass
1300.00	1299.89	-13.09	0.00	1302.10	1285.00	-2.34	-1308.56	270.46	1308.69	32.81	1275.88	1294.18	108.76	10.00 (m)	Pass
1400.00	1399.87	-14.83	0.00	1401.92	1384.81	-3.47	-1309.71	270.49	1309.84	32.81	1277.03	1294.34	100.53	10.00 (m)	Pass
1500.00	1499.86	-16.58	0.00	1497.41	1480.28	-4.57	-1310.98	270.51	1311.18	32.81	1278.37	1294.70	93.61	10.00 (m)	Pass
1600.00	1599.83	-18.11	-1.73	1598.18	1581.03	-5.84	-1312.46	270.54	1310.92	32.81	1278.11	1293.44	87.35	10.00 (m)	Pass
1700.00	1699.68	-19.20	-6.92	1697.36	1680.20	-7.11	-1313.92	270.54	1307.20	32.81	1274.39	1288.73	81.71	10.00 (m)	Pass
1800.00	1799.30	-19.86	-15.57	1796.51	1779.32	-8.36	-1315.44	270.52	1300.07	32.81	1267.26	1280.61	76.53	10.00 (m)	Pass
1900.00	1898.56	-20.08	-27.66	1895.92	1878.71	-9.49	-1316.97	270.47	1289.50	32.81	1256.70	1269.06	71.72	10.00 (m)	Pass
2000.00	1997.44	-19.94	-42.59	1994.86	1977.64	-10.64	-1318.52	270.42	1276.12	32.81	1243.31	1254.68	67.27	10.00 (m)	Pass
2100.00	2096.27	-19.77	-57.80	2094.97	2077.72	-11.76	-1320.05	270.36	1262.41	32.81	1229.60	1239.98	63.23	10.00 (m)	Pass
2200.00	2195.11	-19.59	-73.01	2201.53	2184.27	-12.62	-1321.44	270.32	1248.50	33.93	1214.57	1225.05	59.47	OSF1.50	Pass
2300.00	2293.95	-19.42	-88.22	2311.61	2294.35	-12.69	-1321.80	270.31	1233.59	35.46	1198.13	1209.12	56.02	OSF1.50	Pass
2400.00	2392.78	-19.24	-103.44	2413.73	2396.48	-12.56	-1321.59	270.31	1218.17	36.91	1181.26	1192.73	52.99	OSF1.50	Pass
2500.00	2491.62	-19.07	-118.65	2516.38	2499.12	-12.51	-1321.13	270.31	1202.53	38.36	1164.17	1176.12	50.19	OSF1.50	Pass
2600.00	2590.45	-18.89	-133.86	2617.23	2599.96	-12.51	-1320.40	270.30	1186.59	39.81	1146.78	1159.22	47.61	OSF1.50	Pass
2700.00	2689.29	-18.71	-149.07	2717.43	2700.17	-12.57	-1319.53	270.30	1170.52	41.26	1129.27	1142.19	45.21	OSF1.50	Pass
2800.00	2788.13	-18.54	-164.28	2818.66	2801.39	-12.62	-1318.48	270.29	1154.29	42.72	1111.57	1124.98	42.96	OSF1.50	Pass
2900.00	2886.96	-18.36	-179.49	2918.69	2901.41	-12.68	-1317.28	270.28	1137.89	44.18	1093.71	1107.60	40.87	OSF1.50	Pass
3000.00	2985.80	-18.19	-194.71	3021.85	3004.56	-12.80	-1315.76	270.27	1121.23	45.66	1075.57	1089.96	38.88	OSF1.50	Pass
3100.00	3084.64	-18.01	-209.92	3124.69	3107.38	-12.95	-1313.82	270.26	1104.15	47.14	1057.01	1071.89	37.02	OSF1.50	Pass
3200.00	3183.47	-17.84	-225.13	3224.87	3207.54	-13.09	-1311.67	270.24	1086.82	48.61	1038.21	1053.58	35.28	OSF1.50	Pass
3300.00	3282.31	-17.66	-240.34	3326.18	3308.83	-13.23	-1309.36	270.23	1069.35	50.08	1019.27	1035.13	33.63	OSF1.50	Pass
3400.00	3381.14	-17.48	-255.55	3424.59	3407.20	-13.39	-1306.72	270.22	1051.50	51.55	999.95	1016.30	32.08	OSF1.50	Pass
3500.00	3479.98	-17.31	-270.76	3514.41	3497.00	-13.29	-1304.90	270.22	1034.29	52.98	981.31	998.13	30.66	OSF1.50	Pass
3600.00	3578.82	-17.13	-285.97	3608.02	3590.60	-13.01	-1303.64	270.23	1017.75	54.43	963.32	980.63	29.33	OSF1.50	Pass
3700.00	3677.65	-16.96	-301.19	3705.76	3688.33	-12.73	-1302.58	270.24	1001.46	55.90	945.56	963.36	28.06	OSF1.50	Pass
3800.00	3776.49	-16.78	-316.40	3803.79	3786.36	-12.65	-1301.54	270.23	985.20	57.37	927.82	946.11	26.86	OSF1.50	Pass
3900.00	3875.32	-16.61	-331.61	3901.25	3883.81	-12.75	-1300.64	270.22	969.08	58.85	910.23	929.01	25.73	OSF1.50	Pass
4000.00	3974.16	-16.43	-346.82	3999.79	3982.35	-13.02	-1299.79	270.20	953.01	60.34	892.67	911.95	24.65	OSF1.50	Pass
4100.00	4073.00	-16.26	-362.03	4101.40	4083.95	-13.55	-1298.84	270.16	936.88	61.84	875.04	894.82	23.62	OSF1.50	Pass
4200.00	4171.83	-16.08	-377.24	4208.05	4190.58	-14.75	-1297.18	270.07	920.13	63.36	856.76	877.05	22.62	OSF1.50	Pass
4300.00	4270.67	-15.90	-392.46	4309.32	4291.81	-16.73	-1294.86	269.94	902.65	64.86	837.79	858.58	21.65	OSF1.50	Pass
4400.00	4369.50	-15.73	-407.67	4400.08	4382.53	-18.78	-1293.02	269.79	885.46	66.33	819.12	840.40	20.75	OSF1.50	Pass
4500.00	4468.34	-15.55	-422.88	4501.08	4483.47	-21.64	-1291.61	269.58	868.88	67.84	801.04	822.82	19.89	OSF1.50	Pass
4600.00	4567.18	-15.38	-438.09	4596.94	4579.26	-25.03	-1289.94	269.33	851.99	69.33	782.66	804.94	19.07	OSF1.50	Pass
4700.00	4666.01	-15.20	-453.30	4684.73	4667.01	-27.74	-1289.17	269.12	835.96	70.80	765.16	787.93	18.31	OSF1.50	Pass
4800.00	4764.85	-15.03	-468.51	4775.36	4757.61	-29.59	-1289.55	268.97	821.20	72.27	748.93	772.19	17.60	OSF1.50	Pass
4900.00	4863.69	-14.85	-483.73	4871.93	4854.17	-30.89	-1290.60	268.84	807.09	73.76	733.33	757.09	16.94	OSF1.50	Pass
5000.00	4962.52	-14.67	-498.94	4970.89	4953.11	-31.98	-1291.76	268.73	793.06	75.26	717.80	742.06	16.30	OSF1.50	Pass
5100.00	5061.36	-14.50	-514.15	5070.60	5052.81	-33.09	-1292.88	268.61	779.00	76.77	702.23	726.99	15.68	OSF1.50	Pass
5200.00	5160.19	-14.32	-529.36	5170.47	5152.67	-34.28	-1293.89	268.48	764.83	78.28	686.55	711.81	15.09	OSF1.50	Pass
5300.00	5259.03	-14.15	-544.57	5269.31	5251.50	-35.48	-1294.83	268.35	750.60	79.78	670.81	696.58	14.52	OSF1.50	Pass
5400.00	5357.87	-13.97	-559.78	5366.88	5349.05	-36.61	-1295.86	268.21	736.48	81.29	655.19	681.46	13.97	OSF1.50	Pass
5500.00	5456.70	-13.80	-574.99	5464.22	5446.38	-37.62	-1297.11	268.09	722.58	82.79	639.79	666.55	13.45	OSF1.50	Pass
5600.00	5555.54	-13.62	-590.21	5562.93	5545.08	-38.62	-1298.51	267.95	708.82	84.29	624.53	651.79	12.95	OSF1.50	Pass
5700.00	5654.37	-13.45	-605.42	5662.05	5644.18	-39.68	-1299.93	267.81	695.08	85.80	609.28	637.05	12.47	OSF1.50	Pass
5800.00	5753.21	-13.27	-620.63	5760.61	5742.73	-40.62	-1301.38	267.67	681.38	87.31	594.07	622.34	12.01	OSF1.50	Pass
5900.00	5852.05	-13.09	-635.84	5859.55	5841.65	-41.47	-1302.88	267.53	667.72	88.81	578.91	607.68	11.56	OSF1.50	Pass
6000.00	5950.88	-12.92	-651.05	5959.02	5941.11	-42.37	-1304.36	267.39	654.04	90.33	563.72	592.99	11.13	OSF1.50	Pass
6100.00	6049.72	-12.74	-666.26	6058.27	6040.35	-43.30	-1305.77	267.23	640.31	91.84	548.47	578.25	10.71	OSF1.50	Pass
6200.00	6148.55	-12.57	-681.48	6156.80	6138.94	-44.26	-1307.21	267.09	626.54	93.34	533.26	563.54	10.34	OSF1.50	Pass
6300.00	6247.39	-12.39	-696.69	6255.42	6237.46	-45.26	-1308.71	266.89	612.98	94.86	518.13	548.91	9.92	OSF1.50	Pass
6400.00	6346.23	-12.22	-711.90	6353.88	6335.91	-46.14	-1310.31	266.72	599.46	96.37	503.09	534.38	9.54	OSF1.50	Pass
6500.00	6445.06	-12.04	-727.11	6453.145											

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Cimarex Dos Equis 11-14 Federal Com 4H ST01 Corrected MWD to 21967ft

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
6700.00	6642.74	-11.69	-757.53	6652.48	6634.46	-48.63	-1314.97	266.17	558.72	100.90	457.82	490.62	8.48	OSF1.50	Pass
6800.00	6741.57	-11.51	-772.75	6752.26	6734.23	-49.55	-1316.36	265.95	544.99	102.42	442.57	475.88	8.14	OSF1.50	Pass
6900.00	6840.41	-11.34	-787.96	6851.96	6833.91	-50.54	-1317.54	265.72	531.08	103.93	427.14	460.95	7.82	OSF1.50	Pass
7000.00	6939.24	-11.16	-803.17	6951.13	6933.07	-51.39	-1318.68	265.49	517.12	105.45	411.67	445.98	7.50	OSF1.50	Pass
7100.00	7038.08	-10.99	-818.38	7050.58	7032.52	-52.37	-1319.76	265.23	503.11	106.97	396.15	430.97	7.19	OSF1.50	Pass
7200.00	7136.92	-10.81	-833.59	7151.96	7133.88	-53.27	-1320.61	264.96	488.87	108.48	380.39	415.72	6.88	OSF1.50	Pass
7300.00	7235.75	-10.64	-848.80	7252.32	7234.25	-53.70	-1321.01	264.72	474.17	109.99	364.18	400.01	6.58	OSF1.50	Pass
7400.00	7334.59	-10.46	-864.01	7351.70	7333.62	-54.00	-1321.24	264.49	459.30	111.51	347.79	384.12	6.29	OSF1.50	Pass
7500.00	7433.42	-10.28	-879.23	7452.36	7434.28	-54.03	-1321.26	264.27	444.19	113.00	331.20	368.03	6.00	OSF1.50	Pass
7600.00	7532.26	-10.11	-894.44	7551.31	7533.23	-53.70	-1321.08	264.09	428.87	114.48	314.39	351.72	5.71	OSF1.50	Pass
7700.00	7631.10	-9.93	-909.65	7650.17	7632.09	-53.31	-1320.89	263.90	413.52	115.96	297.56	335.38	5.43	OSF1.50	Pass
7800.00	7729.93	-9.76	-924.86	7748.20	7730.11	-52.82	-1320.89	263.71	398.27	117.45	280.82	319.14	5.16	OSF1.50	Pass
7900.00	7828.77	-9.58	-940.07	7846.22	7828.14	-52.32	-1320.91	263.52	383.23	118.94	264.28	303.10	4.90	OSF1.50	Warning
8000.00	7927.60	-9.41	-955.28	7944.10	7926.01	-51.82	-1321.26	263.31	368.43	120.45	247.98	287.29	4.65	OSF1.50	Warning
8100.00	8026.44	-9.23	-970.50	8042.07	8023.98	-51.27	-1321.88	263.10	353.90	121.96	231.94	271.76	4.41	OSF1.50	Warning
8200.00	8125.28	-9.06	-985.71	8140.22	8122.12	-50.73	-1322.75	262.87	339.63	123.47	216.16	256.48	4.18	OSF1.50	Warning
8300.00	8224.15	-8.88	-1000.68	8238.82	8220.71	-50.26	-1323.83	262.64	325.80	124.98	200.82	241.65	3.96	OSF1.50	Warning
8400.00	8323.40	-8.74	-1012.88	8338.15	8320.04	-49.66	-1324.94	262.49	314.75	126.48	188.27	229.60	3.78	OSF1.50	Warning
8500.00	8423.01	-8.64	-1021.60	8437.97	8419.85	-48.99	-1326.14	262.44	307.22	127.97	179.25	221.07	3.64	OSF1.50	Warning
8600.00	8522.87	-8.58	-1026.84	8538.39	8520.27	-48.46	-1327.12	262.43	302.92	129.44	173.48	215.79	3.55	OSF1.50	Warning
8700.00	8622.85	-8.56	-1028.60	8637.85	8619.72	-47.99	-1328.10	262.50	302.10	130.91	171.20	214.00	3.50	OSF1.50	Warning
8800.00	8722.85	-8.56	-1028.60	8737.01	8718.87	-47.65	-1329.32	262.59	303.28	132.34	170.94	214.22	3.47	OSF1.50	Warning
8900.00	8822.85	-8.56	-1028.60	8836.30	8818.15	-47.42	-1330.79	262.67	304.71	133.77	170.94	214.70	3.45	OSF1.50	Warning
9000.00	8922.85	-8.56	-1028.60	8935.57	8917.41	-47.10	-1332.48	262.77	306.37	135.20	171.16	215.40	3.43	OSF1.50	Warning
9100.00	9022.85	-8.56	-1028.60	9034.95	9016.77	-46.67	-1334.43	262.90	308.25	136.64	171.61	216.33	3.42	OSF1.50	Warning
9200.00	9122.85	-8.56	-1028.60	9135.12	9116.92	-46.25	-1336.47	263.02	310.22	138.07	172.16	217.35	3.40	OSF1.50	Warning
9300.00	9222.85	-8.56	-1028.60	9235.29	9217.07	-46.24	-1338.36	263.07	312.10	139.50	172.60	218.26	3.39	OSF1.50	Warning
9400.00	9322.85	-8.56	-1028.60	9335.40	9317.18	-46.84	-1340.13	262.99	313.93	140.94	172.99	219.13	3.37	OSF1.50	Warning
9500.00	9422.85	-8.56	-1028.60	9435.75	9417.48	-48.39	-1341.72	262.75	315.69	142.39	173.30	219.93	3.36	OSF1.50	Warning
9600.00	9522.85	-8.56	-1028.60	9535.35	9517.03	-51.23	-1343.11	262.27	317.45	143.84	173.60	220.72	3.34	OSF1.50	Warning
9700.00	9622.85	-8.56	-1028.60	9637.50	9619.12	-54.62	-1344.18	261.70	318.95	145.29	173.66	221.26	3.32	OSF1.50	Warning
9800.00	9722.85	-8.56	-1028.60	9739.60	9721.20	-56.36	-1344.81	261.40	319.81	146.72	173.09	221.16	3.30	OSF1.50	Warning
9900.00	9822.85	-8.56	-1028.60	9842.30	9823.90	-56.64	-1344.86	261.36	319.90	148.12	171.78	220.32	3.27	OSF1.50	Warning
10000.00	9922.85	-8.56	-1028.60	9943.85	9925.44	-56.13	-1344.23	261.43	319.21	149.52	169.69	218.69	3.23	OSF1.50	Warning
10100.00	10022.85	-8.56	-1028.60	10043.18	10024.77	-55.65	-1343.62	261.50	318.53	150.94	167.58	217.07	3.19	OSF1.50	Warning
10200.00	10122.85	-8.56	-1028.60	10143.19	10124.78	-55.18	-1343.09	261.57	317.93	152.36	165.57	215.53	3.16	OSF1.50	Warning
10300.00	10222.85	-8.56	-1028.60	10243.68	10225.26	-54.82	-1342.48	261.62	317.28	153.77	163.50	213.93	3.12	OSF1.50	Warning
10400.00	10322.85	-8.56	-1028.60	10343.19	10324.78	-54.46	-1341.74	261.66	316.49	155.20	161.29	212.19	3.08	OSF1.50	Warning
10500.00	10422.81	-10.22	-1028.71	10442.73	10424.31	-54.06	-1341.34	262.07	315.70	156.10	159.60	210.80	3.06	OSF1.50	Warning
10600.00	10521.35	-26.45	-1029.74	10541.76	10523.33	-53.38	-1340.36	265.41	312.28	156.74	155.54	206.96	3.01	OSF1.50	Warning
10700.00	10615.57	-59.51	-1031.86	10635.66	10617.23	-52.52	-1340.30	271.63	308.53	157.47	151.07	202.72	2.96	OSF1.50	Warning
10800.00	10702.60	-108.39	-1034.98	10722.09	10703.66	-51.86	-1339.86	279.43	310.08	158.52	151.55	203.56	2.96	OSF1.50	Warning
10900.00	10779.81	-171.61	-1039.02	10798.20	10779.76	-51.41	-1339.57	286.83	323.69	160.13	163.56	216.10	3.06	OSF1.50	Warning
11000.00	10844.85	-247.25	-1043.85	10861.90	10843.47	-51.20	-1339.62	291.98	354.85	162.14	192.71	245.92	3.31	OSF1.50	Warning
11100.00	10895.73	-333.02	-1048.33	10912.07	10893.63	-51.16	-1339.89	293.60	404.81	164.06	240.75	294.60	3.74	OSF1.50	Warning
11200.00	10930.92	-426.30	-1055.29	10947.06	10928.63	-51.19	-1340.19	290.57	471.04	165.58	305.47	359.83	4.31	OSF1.50	Warning
11300.00	10953.24	-523.60	-1060.50	10989.96	10969.52	-51.23	-1340.43	287.71	549.09	166.61	382.47	437.18	5.00	OSF1.50	Warning
11400.00	10967.26	-622.53	-1063.52	10984.67	10966.24	-51.27	-1340.58	281.85	667.29	167.29	467.62	522.54	5.76	OSF1.50	Pass
11500.00	10972.89	-722.34	-1064.33	10990.82	10972.38	-51.29	-1340.65	271.71	725.71	167.70	558.01	613.07	6.57	OSF1.50	Pass
11600.00	10973.23	-822.34	-1063.75	10991.51	10973.07	-51.30	-1340.65	270.05	819.25	167.95	651.30	706.45	7.40	OSF1.50	Pass
11700.00	10973.49	-922.34	-1063.15	10992.13	10973.69	-51.30	-1340.66	270.18	914.17	168.14	746.04	801.25	8.26	OSF1.50	Pass
11800.00	10973.75	-1022.33	-1062.55	10992.75	10974.31	-51.30	-1340.66	270.31	1010.08	168.28	841.79	897.05	9.12	OSF1.50	Pass
11900.00	10974.02	-1122.33	-1061.95	10993.38	10974.94	-51.30	-1340.67	270.44	1106.70	168.40	938.30	993.60	9.98	OSF1.50	Pass
12000.00	10974.28	-1222.33	-1061.35	10994.01	10975.57	-51.30	-1340.68	270.57	1203.88	168.50	1035.38	1090.71	10.86	OSF1.50	Pass
12100.00	10974.54	-1322.33	-1060.75	10994.65	10976.21	-51.31	-1340.68	270.71	1301.48	168.59	1132.90	1188.26	11.73	OSF1.50	Pass
12200.00	10974.80	-1422.32	-1060.15	13469.11	12336.28	-1442.46	-1344.93	347.84	1391.09	115.82	1275.28	1313.05	18.38	OSF1.50	Pass
12300.00	10975.06	-1522.32	-1059.55	13540.62	12336.60	-1513.90	-1341.92	347.94	1390.54	116.80	1273.74	1311.84	18.22	OSF1.50	Pass
12400.00	10975.33	-1622.32	-1058.95	13646.46	12338.24	-1619.63	-1337.45	348.11	1391.08	118.11	1272.97	1311.51	18.02	OSF1.50	Pass
12500.00	10975.59	-1722.32	-1058.34	13712.01	12340.05	-1684.98	-1332.83	348.29	1392.29	119.20	1273.09	1311.99	17.86	OSF1.50	Pass
12600.00	10975.85	-1822.32	-1057.74	13874.16	12343.66	-1846.56	-1321.10	348.75	1393.15	121.09	1272.06	1311.59	17.59	OSF1.50	Pass
12700.00	10976.11	-1922.31	-1057.14	13953.39	12344.10	-1925.58	-1315.51	348.96	1392.17	122.35	1269.83	1309.78	17.39	OSF1.50	Pass
12800.00	10976.37	-2022.31	-1056.54	14062.66	12344.70	-2034.64	-1308.99	349.20	1391.48	124.01	1267.47	1307.97	17.15	OSF1.50	Pass
12900.00	10976.63	-2122.31	-1055.94	14180.34	12342.97	-2152.29	-1309.38	349.14	1389.96	125.96	1264.01	1305.16	16.86	OSF1.50	Pass
13000.00	10976.90	-2222.31	-1055.34	14278.29	12339.90	-2250.12	-1312.87	348.95	1387.39	127.76	1259.64	1301.39	16.58	OSF1.50	Pass
13100.00	10977.16	-2322.31	-1054.74	14421.72	12334.71	-2393.42	-1316.08	348.74	1384.30	130.31	1253.99	1296.59	16.22	OSF1.50	Pass
13200.00	10977.42	-2422.30	-1054.14	14496.04	12331.62	-2467.66	-1315.57	348.72	1379.95	131.79	1248.15	1291.25	15.98	OSF1.50	Pass
13300.00	109														

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Cimarex Dos Equis 11-14 Federal Com 4H ST01 Corrected MWD to 21967ft

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
15200.00	10982.66	-4422.26	-1042.12	16461.26	12326.74	-4431.74	-1306.86	348.51	1369.93	177.94	1192.00	1250.48	11.69	OSF1.50	Pass
15300.00	10982.92	-4522.26	-1041.52	16550.13	12326.25	-4520.61	-1307.75	348.45	1369.45	180.39	1189.06	1248.36	11.53	OSF1.50	Pass
15400.00	10983.18	-4622.26	-1040.92	16647.35	12326.39	-4617.82	-1309.15	348.36	1369.74	183.03	1186.71	1246.89	11.36	OSF1.50	Pass
15500.00	10983.45	-4722.25	-1040.32	16763.72	12325.42	-4734.11	-1312.97	348.17	1369.44	186.07	1183.37	1244.56	11.17	OSF1.50	Pass
15600.00	10983.71	-4822.25	-1039.71	16865.89	12323.75	-4836.24	-1315.75	348.01	1368.25	188.85	1179.40	1241.51	10.99	OSF1.50	Pass
15700.00	10983.97	-4922.25	-1039.11	16970.11	12322.59	-4940.44	-1315.45	347.99	1366.97	191.66	1175.30	1238.36	10.82	OSF1.50	Pass
15800.00	10984.23	-5022.25	-1038.51	17063.59	12321.85	-5033.90	-1313.93	348.02	1365.72	194.27	1171.45	1235.38	10.66	OSF1.50	Pass
15900.00	10984.49	-5122.25	-1037.91	17158.24	12321.32	-5128.55	-1313.41	348.01	1364.93	196.93	1168.01	1232.82	10.51	OSF1.50	Pass
16000.00	10984.76	-5222.24	-1037.31	17266.63	12320.54	-5236.94	-1312.91	347.99	1364.00	199.87	1164.13	1229.92	10.35	OSF1.50	Pass
16100.00	10985.02	-5322.24	-1036.71	17357.85	12319.92	-5328.16	-1312.68	347.97	1363.15	202.49	1160.65	1227.32	10.21	OSF1.50	Pass
16200.00	10985.28	-5422.24	-1036.11	17470.55	12318.92	-5440.85	-1311.89	347.97	1361.95	205.55	1156.44	1224.12	10.04	OSF1.50	Pass
16300.00	10985.54	-5522.24	-1035.51	17570.94	12318.26	-5541.18	-1308.60	348.07	1360.54	208.35	1152.19	1220.80	9.90	OSF1.50	Pass
16400.00	10985.80	-5622.23	-1034.91	17667.77	12317.42	-5637.95	-1305.30	348.17	1359.88	211.10	1147.78	1217.31	9.75	OSF1.50	Pass
16500.00	10986.07	-5722.23	-1034.31	17754.64	12317.63	-5724.77	-1302.52	348.27	1358.31	213.66	1144.65	1215.04	9.63	OSF1.50	Pass
16600.00	10986.33	-5822.23	-1033.70	17865.92	12317.28	-5836.01	-1299.38	348.36	1357.28	216.73	1140.54	1211.95	9.49	OSF1.50	Pass
16700.00	10986.59	-5922.23	-1033.10	17956.74	12317.32	-5926.76	-1295.93	348.48	1356.45	219.40	1137.05	1209.35	9.36	OSF1.50	Pass
16800.00	10986.85	-6022.23	-1032.50	18044.71	12318.14	-6014.64	-1292.06	348.63	1355.37	222.00	1134.37	1207.54	9.25	OSF1.50	Pass
16900.00	10987.11	-6122.22	-1031.90	18132.05	12319.70	-6101.92	-1289.22	348.73	1357.36	224.61	1132.75	1206.79	9.15	OSF1.50	Pass
17000.00	10987.38	-6222.22	-1031.30	18228.56	12321.34	-6198.40	-1288.21	348.76	1358.69	227.43	1131.25	1206.23	9.04	OSF1.50	Pass
17100.00	10987.64	-6322.22	-1030.70	18309.76	12323.52	-6279.58	-1287.57	348.78	1361.02	229.93	1131.09	1206.90	8.96	OSF1.50	Pass
17200.00	10987.90	-6422.22	-1030.10	18405.47	12326.76	-6375.22	-1287.95	348.77	1364.27	232.76	1131.51	1208.27	8.87	OSF1.50	Pass
17300.00	10988.16	-6522.22	-1029.50	18511.83	12328.46	-6521.53	-1291.21	348.61	1365.61	236.76	1128.85	1206.94	8.73	OSF1.50	Pass
17400.00	10988.42	-6622.21	-1028.90	18656.24	12327.75	-6625.92	-1292.84	348.51	1365.10	239.82	1125.28	1204.39	8.61	OSF1.50	Pass
17500.00	10988.69	-6722.21	-1028.30	18765.17	12326.83	-6734.83	-1294.93	348.38	1364.51	242.98	1121.53	1201.69	8.50	OSF1.50	Pass
17600.00	10988.95	-6822.21	-1027.69	18876.47	12324.99	-6846.10	-1296.25	348.28	1362.97	246.19	1116.79	1198.02	8.37	OSF1.50	Pass
17700.00	10989.21	-6922.21	-1027.09	18956.47	12324.24	-6926.09	-1295.81	348.27	1361.82	248.75	1113.07	1195.15	8.28	OSF1.50	Pass
17800.00	10989.47	-7022.20	-1026.49	19041.87	12324.78	-7011.49	-1294.36	348.32	1361.96	251.40	1110.56	1193.52	8.19	OSF1.50	Pass
17900.00	10989.73	-7122.20	-1025.89	19161.74	12325.56	-7131.33	-1292.18	348.38	1362.14	254.81	1107.34	1191.44	8.08	OSF1.50	Pass
18000.00	10990.00	-7222.20	-1025.29	19258.99	12325.47	-7228.45	-1289.77	348.45	1361.42	257.73	1103.70	1188.77	7.99	OSF1.50	Pass
18100.00	10990.26	-7322.20	-1024.69	19349.76	12326.04	-7319.25	-1286.24	348.58	1361.15	260.51	1100.64	1186.64	7.90	OSF1.50	Pass
18200.00	10990.52	-7422.20	-1024.09	19436.74	12327.06	-7406.20	-1284.15	348.65	1361.70	263.22	1098.49	1185.39	7.82	OSF1.50	Pass
18300.00	10990.78	-7522.19	-1023.49	19530.25	12328.57	-7499.69	-1283.34	348.67	1362.98	266.08	1096.90	1184.76	7.74	OSF1.50	Pass
18400.00	10991.04	-7622.19	-1022.89	19635.06	12330.38	-7604.47	-1282.07	348.71	1364.30	269.21	1095.09	1183.99	7.66	OSF1.50	Pass
18500.00	10991.31	-7722.19	-1022.29	19732.87	12331.94	-7702.26	-1281.20	348.73	1365.55	272.19	1093.36	1183.26	7.58	OSF1.50	Pass
18600.00	10991.57	-7822.19	-1021.68	19833.87	12333.27	-7803.26	-1281.81	348.69	1366.81	275.25	1091.56	1182.48	7.50	OSF1.50	Pass
18700.00	10991.83	-7922.19	-1021.08	19934.35	12334.39	-7903.72	-1283.54	348.60	1368.10	278.32	1089.78	1181.72	7.43	OSF1.50	Pass
18800.00	10992.09	-8022.18	-1020.48	20041.19	12335.11	-8010.53	-1285.80	348.48	1369.02	281.54	1087.48	1180.49	7.35	OSF1.50	Pass
18900.00	10992.35	-8122.18	-1019.88	20142.01	12335.40	-8111.32	-1288.26	348.36	1369.64	284.63	1085.01	1179.05	7.27	OSF1.50	Pass
19000.00	10992.61	-8222.18	-1019.28	20236.06	12336.35	-8205.35	-1288.10	348.35	1370.46	287.55	1082.91	1177.92	7.20	OSF1.50	Pass
19100.00	10992.88	-8322.18	-1018.68	20336.82	12337.86	-8306.11	-1287.82	348.34	1371.74	290.63	1081.11	1177.16	7.13	OSF1.50	Pass
19200.00	10993.14	-8422.17	-1018.08	20447.37	12338.93	-8416.64	-1286.41	348.38	1372.29	293.94	1078.36	1175.50	7.05	OSF1.50	Pass
19300.00	10993.40	-8522.17	-1017.48	20546.98	12339.67	-8516.23	-1284.44	348.44	1372.50	296.99	1075.51	1173.67	6.98	OSF1.50	Pass
19400.00	10993.66	-8622.17	-1016.88	20646.57	12340.46	-8615.81	-1282.91	348.48	1372.84	300.05	1072.79	1171.97	6.91	OSF1.50	Pass
19500.00	10993.92	-8722.17	-1016.28	20744.99	12341.34	-8714.20	-1281.02	348.54	1373.20	303.09	1070.11	1170.30	6.84	OSF1.50	Pass
19600.00	10994.19	-8822.17	-1015.68	20846.64	12342.24	-8815.84	-1279.32	348.59	1373.61	306.21	1067.40	1168.64	6.77	OSF1.50	Pass
19700.00	10994.45	-8922.16	-1015.07	20940.75	12343.09	-8909.93	-1278.06	348.63	1374.10	309.16	1064.94	1167.16	6.71	OSF1.50	Pass
19800.00	10994.71	-9022.16	-1014.47	21044.39	12344.14	-9013.56	-1277.14	348.64	1374.78	312.33	1062.45	1165.73	6.64	OSF1.50	Pass
19900.00	10994.97	-9122.16	-1013.87	21153.91	12344.60	-9123.07	-1276.00	348.66	1374.85	315.65	1059.20	1163.59	6.57	OSF1.50	Pass
20000.00	10995.23	-9222.16	-1013.27	21238.48	12345.17	-9207.63	-1275.26	348.68	1375.20	318.39	1056.81	1162.11	6.52	OSF1.50	Pass
20100.00	10995.50	-9322.16	-1012.67	21351.16	12345.91	-9320.30	-1274.45	348.69	1375.56	321.79	1053.77	1160.20	6.45	OSF1.50	Pass
20200.00	10995.76	-9422.15	-1012.07	21442.24	12346.45	-9411.37	-1273.82	348.69	1375.86	324.69	1051.17	1158.57	6.39	OSF1.50	Pass
20300.00	10996.02	-9522.15	-1011.47	21532.07	12347.25	-9501.19	-1275.29	348.61	1376.90	327.57	1049.34	1157.69	6.34	OSF1.50	Pass
20400.00	10996.28	-9622.15	-1010.87	21636.71	12348.16	-9605.79	-1278.12	348.48	1378.14	330.81	1047.33	1156.76	6.29	OSF1.50	Pass
20500.00	10996.54	-9722.15	-1010.27	21744.48	12348.74	-9713.54	-1280.04	348.38	1378.87	334.13	1044.74	1155.29	6.23	OSF1.50	Pass
20600.00	10996.81	-9822.14	-1009.67	21844.21	12349.34	-9813.26	-1279.73	348.37	1379.26	337.25	1042.01	1153.60	6.17	OSF1.50	Pass
20700.00	10997.07	-9922.14	-1009.06	21949.19	12350.35	-9918.23	-1278.39	348.40	1379.82	340.48	1039.34	1152.00	6.11	OSF1.50	Pass
20712.06	10997.10	-9934.20	-1008.99	21961.49	12350.42	-9930.53	-1278.19	348.41	1379.84	340.86	1038.97	1151.76	6.11	OSF1.50	Pass

End of results

...Dos Equis 11-14 Federal Com 25Y\Coterra Dos Equis 11-14 Federal Com 25Y Rev0 kFc 16Jun22

Drilling Office 2.10.829.1

Schlumberger-Private

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Field: NM Lea County (NAD 83)
 Structure: Cimarex Dos Equis 11-14 Federal Com 4H
 Slot: Cimarex Dos Equis 11-14 Federal Com 4H
 Client: Cimarex
 Coordinate System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 North Reference: Grid
 Grid Convergence Angle: 0.36305582°
 Grid Scale Factor: 0.999959803
 Magnetic Declination: 6.737°
 Reference Point: Magnetic Declination Date: January 18, 2019
 Magnetic Model: HDGM 2019
 Northing: 450964.240 (ftUS)
 Easting: 751763.040 (ftUS)
 Elevation: 3657.600 (ft) MSL
 Structure Unc.: 0.000 (ft) (3 sigma)
 Slot Unc.: 0.000 (ft) (3 sigma)

Trajectory Error Model: ISCSWA0 3-D 95.000% Confidence 2.7955 sigma
 Surveying Proj: As Drilled

Description	MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type	Hole Size (in)	Casing Diameter (in)	Borehole / Survey
	0.000	26.000	1/98.425	A008Mb_MWD+IFR1+MS-Depth Only	30.000	30.000 I4 Federal Com 4H Corrected MWD to 13100ft	
	26.000	26.000	Act-Sins	A008Mb_MWD+IFR1+MS-Depth Only	30.000	30.000 I4 Federal Com 4H Corrected MWD to 13100ft	
	26.000	13100.000	Act-Sins	A008Mb_MWD+IFR1+MS	30.000	30.000 I4 Federal Com 4H Corrected MWD to 13100ft	

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
All local minima indicated.															
0.00	0.00	0.00	0.00	16.15	-0.85	4.62	-1295.57	270.20	1295.58	32.81	1262.77	1293.08	N/A	10.00 (m)	Pass
100.00	100.00	0.00	0.00	111.18	94.18	4.66	-1295.81	270.21	1295.84	32.81	1263.03	1292.92	3147.44	10.00 (m)	Pass
200.00	200.00	0.00	0.00	206.49	189.49	4.74	-1296.42	270.21	1296.48	32.81	1263.67	1292.79	1091.16	10.00 (m)	Pass
300.00	300.00	0.00	0.00	306.95	289.95	4.71	-1297.22	270.21	1297.27	32.81	1264.46	1292.59	594.48	10.00 (m)	Pass
400.00	400.00	0.00	0.00	407.27	390.26	4.42	-1297.98	270.20	1298.03	32.81	1265.22	1292.35	407.87	10.00 (m)	Pass
500.00	500.00	0.00	0.00	506.15	489.14	4.06	-1298.75	270.18	1298.80	32.81	1265.99	1292.13	310.85	10.00 (m)	Pass
600.00	599.99	-0.87	0.00	603.23	586.21	3.73	-1299.68	270.19	1299.76	32.81	1266.95	1292.13	252.78	10.00 (m)	Pass
700.00	699.98	-2.62	0.00	701.11	684.09	3.21	-1300.80	270.24	1300.91	32.81	1268.10	1292.32	213.37	10.00 (m)	Pass
800.00	799.96	-4.36	0.00	801.08	784.04	2.59	-1302.07	270.29	1302.18	32.81	1269.38	1292.62	184.10	10.00 (m)	Pass
900.00	899.95	-6.11	0.00	901.49	884.44	1.79	-1303.25	270.34	1303.37	32.81	1270.56	1292.82	161.73	10.00 (m)	Pass
1000.00	999.93	-7.85	0.00	999.01	981.96	0.99	-1304.49	270.37	1304.64	32.81	1271.84	1293.13	144.40	10.00 (m)	Pass
1100.00	1099.92	-9.60	0.00	1098.60	1081.52	-0.04	-1305.91	270.41	1306.08	32.81	1273.27	1293.57	130.28	10.00 (m)	Pass
1200.00	1199.90	-11.34	0.00	1200.05	1182.96	-1.16	-1307.31	270.43	1307.46	32.81	1274.65	1293.95	118.57	10.00 (m)	Pass
1300.00	1299.89	-13.09	0.00	1302.10	1285.00	-2.34	-1308.56	270.46	1308.69	32.81	1275.88	1294.18	108.76	10.00 (m)	Pass
1400.00	1399.87	-14.83	0.00	1401.92	1384.81	-3.47	-1309.71	270.49	1309.84	32.81	1277.03	1294.34	100.53	10.00 (m)	Pass
1500.00	1499.86	-16.58	0.00	1497.41	1480.28	-4.57	-1310.98	270.51	1311.18	32.81	1278.37	1294.70	93.61	10.00 (m)	Pass
1600.00	1599.83	-18.11	-1.73	1598.18	1581.03	-5.84	-1312.46	270.54	1310.92	32.81	1278.11	1293.44	87.35	10.00 (m)	Pass
1700.00	1699.68	-19.20	-6.92	1697.36	1680.20	-7.11	-1313.92	270.54	1307.20	32.81	1274.39	1288.73	81.71	10.00 (m)	Pass
1800.00	1799.30	-19.86	-15.57	1796.51	1779.32	-8.36	-1315.44	270.52	1300.07	32.81	1267.26	1280.61	76.53	10.00 (m)	Pass
1900.00	1898.56	-20.08	-27.66	1895.92	1878.71	-9.49	-1316.97	270.47	1289.50	32.81	1256.70	1269.06	71.72	10.00 (m)	Pass
2000.00	1997.44	-19.94	-42.59	1994.86	1977.64	-10.64	-1318.52	270.42	1276.12	32.81	1243.31	1254.68	67.27	10.00 (m)	Pass
2100.00	2096.27	-19.77	-57.80	2094.97	2077.72	-11.76	-1320.05	270.36	1262.41	32.81	1229.60	1239.98	63.23	10.00 (m)	Pass
2200.00	2195.11	-19.59	-73.01	2201.53	2184.27	-12.62	-1321.44	270.32	1248.50	33.93	1214.57	1225.05	59.47	OSF1.50	Pass
2300.00	2293.95	-19.42	-88.22	2311.61	2294.35	-12.69	-1321.80	270.31	1233.59	35.46	1198.13	1209.12	56.02	OSF1.50	Pass
2400.00	2392.78	-19.24	-103.44	2413.73	2396.48	-12.56	-1321.59	270.31	1218.17	36.91	1181.26	1192.73	52.99	OSF1.50	Pass
2500.00	2491.62	-19.07	-118.65	2516.38	2499.12	-12.51	-1321.13	270.31	1202.53	38.36	1164.17	1176.12	50.19	OSF1.50	Pass
2600.00	2590.45	-18.89	-133.86	2617.23	2599.96	-12.51	-1320.40	270.30	1186.59	39.81	1146.78	1159.22	47.61	OSF1.50	Pass
2700.00	2689.29	-18.71	-149.07	2717.43	2700.17	-12.57	-1319.53	270.30	1170.52	41.26	1129.27	1142.19	45.21	OSF1.50	Pass
2800.00	2788.13	-18.54	-164.28	2818.66	2801.39	-12.62	-1318.48	270.29	1154.29	42.72	1111.57	1124.98	42.96	OSF1.50	Pass
2900.00	2886.96	-18.36	-179.49	2918.69	2901.41	-12.68	-1317.28	270.28	1137.89	44.18	1093.71	1107.60	40.87	OSF1.50	Pass
3000.00	2985.80	-18.19	-194.71	3021.85	3004.56	-12.80	-1315.76	270.27	1121.23	45.66	1075.57	1089.96	38.88	OSF1.50	Pass
3100.00	3084.64	-18.01	-209.92	3124.69	3107.38	-12.95	-1313.82	270.26	1104.15	47.14	1057.01	1071.89	37.02	OSF1.50	Pass
3200.00	3183.47	-17.84	-225.13	3224.87	3207.54	-13.09	-1311.67	270.24	1086.82	48.61	1038.21	1053.58	35.28	OSF1.50	Pass
3300.00	3282.31	-17.66	-240.34	3326.18	3308.83	-13.23	-1309.36	270.23	1069.35	50.08	1019.27	1035.13	33.63	OSF1.50	Pass
3400.00	3381.14	-17.48	-255.55	3424.59	3407.20	-13.39	-1306.72	270.22	1051.50	51.55	999.95	1016.30	32.08	OSF1.50	Pass
3500.00	3479.98	-17.31	-270.76	3514.41	3497.00	-13.29	-1304.90	270.22	1034.29	52.98	981.31	998.13	30.66	OSF1.50	Pass
3600.00	3578.82	-17.13	-285.97	3608.02	3590.60	-13.01	-1303.64	270.23	1017.75	54.43	963.32	980.63	29.33	OSF1.50	Pass
3700.00	3677.65	-16.96	-301.19	3705.76	3688.33	-12.73	-1302.58	270.24	1001.46	55.90	945.56	963.36	28.06	OSF1.50	Pass
3800.00	3776.49	-16.78	-316.40	3803.79	3786.36	-12.65	-1301.54	270.23	985.20	57.37	927.82	946.11	26.86	OSF1.50	Pass
3900.00	3875.32	-16.61	-331.61	3901.25	3883.81	-12.75	-1300.64	270.22	969.08	58.85	910.23	929.01	25.73	OSF1.50	Pass
4000.00	3974.16	-16.43	-346.82	3999.79	3982.35	-13.02	-1299.79	270.20	953.01	60.34	892.67	911.95	24.65	OSF1.50	Pass
4100.00	4073.00	-16.26	-362.03	4101.40	4083.95	-13.55	-1298.84	270.16	936.88	61.84	875.04	894.82	23.62	OSF1.50	Pass
4200.00	4171.83	-16.08	-377.24	4208.05	4190.58	-14.75	-1297.18	270.07	920.13	63.36	856.76	877.05	22.62	OSF1.50	Pass
4300.00	4270.67	-15.90	-392.46	4309.32	4291.81	-16.73	-1294.86	269.94	902.65	64.86	837.79	858.58	21.65	OSF1.50	Pass
4400.00	4369.50	-15.73	-407.67	4400.08	4382.53	-18.78	-1293.02	269.79	885.46	66.33	819.12	840.40	20.75	OSF1.50	Pass
4500.00	4468.34	-15.55	-422.88	4501.08	4483.47	-21.64	-1291.61	269.58	868.88	67.84	801.04	822.82	19.89	OSF1.50	Pass
4600.00	4567.18	-15.38	-438.09	4596.94	4579.26	-25.03	-1289.94	269.33	851.99	69.33	782.66	804.94	19.07	OSF1.50	Pass
4700.00	4666.01	-15.20	-453.30	4684.73	4667.01	-27.74	-1289.17	269.12	835.96	70.80	765.16	787.93	18.31	OSF1.50	Pass
4800.00	4764.85	-15.03	-468.51	4775.36	4757.61	-29.59	-1289.55	268.97	821.20	72.27	748.93	772.19	17.60	OSF1.50	Pass
4900.00	4863.69	-14.85	-483.73	4871.93	4854.17	-30.89	-1290.60	268.84	807.09	73.76	733.33	757.09	16.94	OSF1.50	Pass
5000.00	4962.52	-14.67	-498.94	4970.89	4953.11	-31.98	-1291.76	268.73	793.06	75.26	717.80	742.06	16.30	OSF1.50	Pass
5100.00	5061.36	-14.50	-514.15	5070.60	5052.81	-33.09	-1292.88	268.61	779.00	76.77	702.23	726.99	15.68	OSF1.50	Pass
5200.00	5160.19	-14.32	-529.36	5170.47	5152.67	-34.28	-1293.89	268.48	764.83	78.28	686.55	711.81	15.09	OSF1.50	Pass
5300.00	5259.03	-14.15	-544.57	5269.31	5251.50	-35.48	-1294.83	268.35	750.60	79.78	670.81	696.58	14.52	OSF1.50	Pass
5400.00	5357.87	-13.97	-559.78	5368.88	5349.05	-36.61	-1295.86	268.21	736.48	81.29	655.19	681.46	13.97	OSF1.50	Pass
5500.00	5456.70	-13.80	-574.99	5464.22	5446.38	-37.62	-1297.11	268.09	722.58	82.79	639.79	666.55	13.45	OSF1.50	Pass
5600.00	5555.54	-13.62	-590.21	5562.93	5545.08	-38.62	-1298.51	267.95	708.82	84.29	624.53	651.79	12.95	OSF1.50	Pass
5700.00	5654.37	-13.45	-605.42	5662.05	5644.18	-39.68	-1299.93	267.81	695.08	85.80	609.28	637.05	12.47	OSF1.50	Pass
5800.00	5753.21	-13.27	-620.63	5760.61	5742.73	-40.62	-1301.38	267.67	681.38	87.31	594.07	622.34	12.01	OSF1.50	Pass
5900.00	5852.05	-13.09	-635.84	5869.55	5851.65	-41.47	-1302.88	267.53	667.72	88.81	578.91	607.68	11.56	OSF1.50	Pass
6000.00	5950.88	-12.92	-651.05	5979.02	5961.11	-42.37	-1304.36	267.39	654.04	90.33	563.72	592.99	11.13	OSF1.50	Pass
6100.00	6049.72	-12.74	-666.26	6068.27	6040.35	-43.30	-1305.77	267.23	640.31	91.84	548.47	578.25	10.71	OSF1.50	Pass
6200.00	6148.55	-12.57	-681.48	6186.88	6163.94	-44.26	-1307.21	267.07	626.61	93.34	533.26	563.54	10.31	OSF1.50	Pass
6300.00	6247.39	-12.39	-696.69	6265.42	6237.46	-45.26	-1308.71	266.89	612.98	94.86	518.13	548.91	9.92	OSF1.50	Pass
6400.00	6346.23	-12.22	-711.90	6353.88	6335.91	-46.14	-1310.31	266.72	599.46	96.37	503.09	534.38	9.54	OSF1.50	Pass
6500.00	6446														

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Cimarex Dos Equis 11-14 Federal Com 4H Corrected MWD to 13100ft

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
6700.00	6642.74	-11.69	-757.53	6652.48	6634.46	-48.63	-1314.97	266.17	558.72	100.90	457.82	490.62	8.48	OSF1.50	Pass
6800.00	6741.57	-11.51	-772.75	6752.26	6734.23	-49.55	-1316.36	265.95	544.99	102.42	442.57	475.88	8.14	OSF1.50	Pass
6900.00	6840.41	-11.34	-787.96	6851.96	6833.91	-50.54	-1317.54	265.72	531.08	103.93	427.14	460.95	7.82	OSF1.50	Pass
7000.00	6939.24	-11.16	-803.17	6951.13	6933.07	-51.39	-1318.68	265.49	517.12	105.45	411.67	445.98	7.50	OSF1.50	Pass
7100.00	7038.08	-10.99	-818.38	7050.58	7032.52	-52.37	-1319.76	265.23	503.11	106.97	396.15	430.97	7.19	OSF1.50	Pass
7200.00	7136.92	-10.81	-833.59	7151.96	7133.88	-53.27	-1320.61	264.96	488.87	108.48	380.39	415.72	6.88	OSF1.50	Pass
7300.00	7235.75	-10.64	-848.80	7252.32	7234.25	-53.70	-1321.01	264.72	474.17	109.99	364.18	400.01	6.58	OSF1.50	Pass
7400.00	7334.59	-10.46	-864.01	7351.70	7333.62	-54.00	-1321.24	264.49	459.30	111.51	347.79	384.12	6.29	OSF1.50	Pass
7500.00	7433.42	-10.28	-879.23	7452.36	7434.28	-54.03	-1321.26	264.27	444.19	113.00	331.20	368.03	6.00	OSF1.50	Pass
7600.00	7532.26	-10.11	-894.44	7551.31	7533.23	-53.70	-1321.08	264.09	428.87	114.48	314.39	351.72	5.71	OSF1.50	Pass
7700.00	7631.10	-9.93	-909.65	7650.17	7632.09	-53.31	-1320.89	263.90	413.52	115.96	297.56	335.38	5.43	OSF1.50	Pass
7800.00	7729.93	-9.76	-924.86	7748.20	7730.11	-52.82	-1320.89	263.71	398.27	117.45	280.82	319.14	5.16	OSF1.50	Pass
7900.00	7828.77	-9.58	-940.07	7846.22	7828.14	-52.32	-1320.91	263.52	383.23	118.94	264.28	303.10	4.90	OSF1.50	Warning
8000.00	7927.60	-9.41	-955.28	7944.10	7926.01	-51.82	-1321.26	263.31	368.43	120.45	247.98	287.29	4.65	OSF1.50	Warning
8100.00	8026.44	-9.23	-970.50	8042.07	8023.98	-51.27	-1321.88	263.10	353.90	121.96	231.94	271.76	4.41	OSF1.50	Warning
8200.00	8125.28	-9.06	-985.71	8140.22	8122.12	-50.73	-1322.75	262.87	339.63	123.47	216.16	256.48	4.18	OSF1.50	Warning
8300.00	8224.15	-8.88	-1000.68	8238.82	8220.71	-50.26	-1323.83	262.64	325.80	124.98	200.82	241.65	3.96	OSF1.50	Warning
8400.00	8323.40	-8.74	-1012.88	8338.15	8320.04	-49.66	-1324.94	262.49	314.75	126.48	188.27	229.60	3.78	OSF1.50	Warning
8500.00	8423.01	-8.64	-1021.60	8437.97	8419.85	-48.99	-1326.14	262.44	307.22	127.97	179.25	221.07	3.64	OSF1.50	Warning
8600.00	8522.87	-8.58	-1026.84	8538.39	8520.27	-48.46	-1327.12	262.43	302.92	129.44	173.48	215.79	3.55	OSF1.50	Warning
8700.00	8622.85	-8.56	-1028.60	8637.85	8619.72	-47.99	-1328.10	262.50	302.10	130.91	171.20	214.00	3.50	OSF1.50	Warning
8800.00	8722.85	-8.56	-1028.60	8737.01	8718.87	-47.65	-1329.32	262.59	303.28	132.34	170.94	214.22	3.47	OSF1.50	Warning
8900.00	8822.85	-8.56	-1028.60	8836.30	8818.15	-47.42	-1330.79	262.67	304.71	133.77	170.94	214.70	3.45	OSF1.50	Warning
9000.00	8922.85	-8.56	-1028.60	8935.57	8917.41	-47.10	-1332.48	262.77	306.37	135.20	171.16	215.40	3.43	OSF1.50	Warning
9100.00	9022.85	-8.56	-1028.60	9034.95	9016.77	-46.67	-1334.43	262.90	308.25	136.64	171.61	216.33	3.42	OSF1.50	Warning
9200.00	9122.85	-8.56	-1028.60	9135.12	9116.92	-46.25	-1336.47	263.02	310.22	138.07	172.16	217.35	3.40	OSF1.50	Warning
9300.00	9222.85	-8.56	-1028.60	9235.29	9217.07	-46.24	-1338.36	263.07	312.10	139.50	172.60	218.26	3.39	OSF1.50	Warning
9400.00	9322.85	-8.56	-1028.60	9335.40	9317.16	-46.84	-1340.13	262.99	313.93	140.94	172.99	219.13	3.37	OSF1.50	Warning
9500.00	9422.85	-8.56	-1028.60	9435.75	9417.48	-46.39	-1341.72	262.75	315.69	142.39	173.30	219.93	3.36	OSF1.50	Warning
9600.00	9522.85	-8.56	-1028.60	9535.35	9517.03	-51.23	-1343.11	262.27	317.45	143.84	173.60	220.72	3.34	OSF1.50	Warning
9700.00	9622.85	-8.56	-1028.60	9637.50	9619.12	-54.62	-1344.18	261.70	318.95	145.29	173.66	221.26	3.32	OSF1.50	Warning
9800.00	9722.85	-8.56	-1028.60	9739.60	9721.20	-56.36	-1344.81	261.40	319.81	146.72	173.09	221.16	3.30	OSF1.50	Warning
9900.00	9822.85	-8.56	-1028.60	9842.30	9823.90	-56.64	-1344.86	261.36	319.90	148.12	171.78	220.32	3.27	OSF1.50	Warning
10000.00	9922.85	-8.56	-1028.60	9943.85	9925.44	-56.13	-1344.23	261.43	319.21	149.52	169.69	218.69	3.23	OSF1.50	Warning
10100.00	10022.85	-8.56	-1028.60	10043.18	10024.77	-55.65	-1343.62	261.50	318.53	150.94	167.58	217.07	3.19	OSF1.50	Warning
10200.00	10122.85	-8.56	-1028.60	10143.19	10124.78	-55.18	-1343.09	261.57	317.93	152.36	165.57	215.53	3.16	OSF1.50	Warning
10300.00	10222.85	-8.56	-1028.60	10243.68	10225.26	-54.82	-1342.48	261.62	317.28	153.77	163.50	213.93	3.12	OSF1.50	Warning
10400.00	10322.85	-8.56	-1028.60	10343.19	10324.78	-54.46	-1341.74	261.66	316.49	155.20	161.29	212.19	3.08	OSF1.50	Warning
10500.00	10422.81	-10.22	-1028.71	10442.73	10424.31	-54.06	-1341.34	262.07	315.70	156.10	159.60	210.80	3.06	OSF1.50	Warning
10600.00	10521.35	-26.45	-1029.74	10541.76	10523.33	-53.38	-1340.36	265.41	312.28	156.74	155.54	206.96	3.01	OSF1.50	Warning
10700.00	10615.57	-59.51	-1031.86	10635.66	10617.23	-52.52	-1340.30	271.63	308.53	157.47	151.07	202.72	2.96	OSF1.50	Warning
10800.00	10702.60	-108.39	-1034.98	10722.09	10703.66	-51.86	-1339.86	279.43	310.08	158.52	151.55	203.56	2.96	OSF1.50	Warning
10900.00	10779.81	-171.61	-1039.02	10798.20	10779.76	-51.41	-1339.57	286.83	323.69	160.13	163.56	216.10	3.06	OSF1.50	Warning
11000.00	10844.85	-247.25	-1043.85	10861.90	10843.47	-51.20	-1339.62	291.98	354.85	162.14	192.71	245.92	3.31	OSF1.50	Warning
11100.00	10895.73	-333.02	-1048.33	10912.07	10893.63	-51.16	-1339.89	293.60	404.81	164.06	240.75	294.60	3.74	OSF1.50	Warning
11200.00	10930.92	-426.30	-1055.29	10947.06	10928.63	-51.19	-1340.19	290.57	471.04	165.58	305.47	359.83	4.31	OSF1.50	Warning
11300.00	10953.24	-523.60	-1060.50	10989.96	10961.52	-51.23	-1340.43	287.71	549.09	166.61	382.47	437.18	5.00	OSF1.50	Warning
11400.00	10967.26	-622.53	-1063.52	10984.67	10966.24	-51.27	-1340.58	281.85	663.90	167.29	467.62	522.54	5.76	OSF1.50	Pass
11500.00	10972.89	-722.34	-1064.33	10990.82	10972.38	-51.29	-1340.65	271.71	725.71	167.70	558.01	613.07	6.57	OSF1.50	Pass
11600.00	10973.23	-822.34	-1063.75	10991.51	10973.07	-51.30	-1340.65	270.05	819.25	167.95	651.30	706.45	7.40	OSF1.50	Pass
11700.00	10973.49	-922.34	-1063.15	10992.13	10973.69	-51.30	-1340.66	270.18	914.17	168.14	746.04	801.25	8.26	OSF1.50	Pass
11800.00	10973.75	-1022.33	-1062.55	10992.75	10974.31	-51.30	-1340.66	270.51	1010.08	168.28	841.79	897.05	9.12	OSF1.50	Pass
11900.00	10974.02	-1122.33	-1061.95	10993.38	10974.94	-51.30	-1340.67	270.44	1106.70	168.40	938.30	993.60	9.98	OSF1.50	Pass
12000.00	10974.28	-1222.33	-1061.35	10994.01	10975.57	-51.30	-1340.68	270.57	1203.88	168.50	1035.38	1090.71	10.86	OSF1.50	Pass
12100.00	10974.54	-1322.33	-1060.75	10994.65	10976.21	-51.31	-1340.68	270.71	1301.48	168.59	1132.90	1188.26	11.73	OSF1.50	Pass
12200.00	10974.80	-1422.32	-1060.15	10995.29	10976.85	-51.31	-1340.69	270.84	1399.43	168.66	1230.76	1286.15	12.61	OSF1.50	Pass
12300.00	10975.06	-1522.32	-1059.55	10995.94	10977.50	-51.31	-1340.70	270.98	1497.64	168.73	1328.90	1384.32	13.49	OSF1.50	Pass
12400.00	10975.33	-1622.32	-1058.95	10996.59	10978.15	-51.31	-1340.70	271.12	1596.08	168.80	1427.27	1482.71	14.37	OSF1.50	Pass
12500.00	10975.59	-1722.32	-1058.34	10997.25	10978.81	-51.32	-1340.71	271.26	1694.69	168.87	1525.83	1581.28	15.26	OSF1.50	Pass
12600.00	10975.85	-1822.32	-1057.74	10997.92	10979.48	-51.32	-1340.72	271.40	1793.47	168.93	1624.53	1680.01	16.14	OSF1.50	Pass
12700.00	10976.11	-1922.31	-1057.14	10998.59	10980.15	-51.32	-1340.72	271.54	1892.37	168.99	1723.37	1778.87	17.03	OSF1.50	Pass
12800.00	10976.37	-2022.31	-1056.54	10999.27	10980.83	-51.32	-1340.73	271.68	1991.38	169.06	1822.32	1877.84	17.91	OSF1.50	Pass
12900.00	10976.63	-2122.31	-1055.94	10999.95	10981.51	-51.33	-1340.74	271.82	2090.48	169.12	1921.36	1976.90	18.80	OSF1.50	Pass
13000.00	10976.90	-2222.31	-1055.34	11000.64	10982.20	-51.33	-1340.74	271.97	2189.67	169.18	2020.48	2076.04	19.68	OSF1.50	Pass
13100.00	10977.16	-2322.31	-1054.74	11001.34	10982.90	-51.33	-1340.75	272.11	2288.92	169.25	2119.67	2175.25	20.57	OSF1.50	Pass
13200.00	10977.42	-2422.30	-1054.14	11002.04	10983.60	-51.33	-1340.76	272.26	2388.24	169.32	2218.92	2274.53	21.45	OSF1.50	Pass
13300.00	10977.68	-2522.30	-10												

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Cimarex Dos Equis 11-14 Federal Com 4H Corrected MWD to 13100ft

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
15200.00	10982.66	-4422.26	-1042.12	11017.52	10999.08	-51.40	-1340.90	275.50	4381.09	171.00	4210.09	4266.26	38.98	OSF1.50	Pass
15300.00	10982.92	-4522.26	-1041.52	11018.38	10999.94	-51.40	-1340.91	275.67	4480.90	171.11	4309.80	4366.00	39.84	OSF1.50	Pass
15400.00	10983.18	-4622.26	-1040.92	11019.24	11000.80	-51.40	-1340.92	275.85	4580.72	171.21	4409.51	4465.74	40.70	OSF1.50	Pass
15500.00	10983.45	-4722.25	-1040.32	11020.11	11001.67	-51.41	-1340.93	276.03	4680.54	171.32	4509.22	4565.50	41.56	OSF1.50	Pass
15600.00	10983.71	-4822.25	-1039.71	11020.99	11002.55	-51.41	-1340.94	276.22	4780.38	171.43	4608.94	4665.25	42.42	OSF1.50	Pass
15700.00	10983.97	-4922.25	-1039.11	11021.88	11003.44	-51.42	-1340.94	276.40	4880.21	171.55	4708.67	4765.02	43.28	OSF1.50	Pass
15800.00	10984.23	-5022.25	-1038.51	11022.78	11004.34	-51.42	-1340.95	276.59	4980.06	171.66	4808.40	4864.79	44.14	OSF1.50	Pass
15900.00	10984.49	-5122.25	-1037.91	11023.68	11005.24	-51.42	-1340.96	276.77	5079.91	171.78	4908.13	4964.56	44.99	OSF1.50	Pass
16000.00	10984.76	-5222.24	-1037.31	11024.60	11006.16	-51.43	-1340.97	276.96	5179.77	171.90	5007.87	5064.33	45.84	OSF1.50	Pass
16100.00	10985.02	-5322.24	-1036.71	11025.52	11007.08	-51.43	-1340.98	277.15	5279.63	172.02	5107.61	5164.12	46.69	OSF1.50	Pass
16200.00	10985.28	-5422.24	-1036.11	11026.46	11008.02	-51.44	-1340.99	277.35	5379.50	172.14	5207.35	5263.90	47.54	OSF1.50	Pass
16300.00	10985.54	-5522.24	-1035.51	11027.40	11008.96	-51.44	-1341.00	277.54	5479.37	172.27	5307.10	5363.69	48.39	OSF1.50	Pass
16400.00	10985.80	-5622.23	-1034.91	11028.36	11009.92	-51.45	-1341.00	277.74	5579.24	172.40	5406.85	5463.48	49.24	OSF1.50	Pass
16500.00	10986.07	-5722.23	-1034.31	11029.32	11010.88	-51.45	-1341.01	277.94	5679.12	172.53	5506.60	5563.27	50.08	OSF1.50	Pass
16600.00	10986.33	-5822.23	-1033.70	11030.30	11011.86	-51.46	-1341.02	278.14	5779.01	172.66	5606.35	5663.07	50.92	OSF1.50	Pass
16700.00	10986.59	-5922.23	-1033.10	11031.28	11012.84	-51.46	-1341.03	278.34	5878.90	172.79	5706.10	5762.87	51.76	OSF1.50	Pass
16800.00	10986.85	-6022.23	-1032.50	11032.28	11013.84	-51.47	-1341.04	278.54	5978.79	172.93	5805.86	5862.67	52.60	OSF1.50	Pass
16900.00	10987.11	-6122.22	-1031.90	11033.28	11014.84	-51.47	-1341.05	278.75	6078.68	173.07	5905.62	5962.47	53.44	OSF1.50	Pass
17000.00	10987.38	-6222.22	-1031.30	11034.30	11015.86	-51.48	-1341.06	278.96	6178.58	173.21	6005.37	6062.28	54.27	OSF1.50	Pass
17100.00	10987.64	-6322.22	-1030.70	11035.33	11016.89	-51.48	-1341.07	279.17	6278.48	173.35	6105.13	6162.08	55.10	OSF1.50	Pass
17200.00	10987.90	-6422.22	-1030.10	11036.37	11017.93	-51.49	-1341.08	279.38	6378.39	173.49	6204.89	6261.89	55.93	OSF1.50	Pass
17300.00	10988.16	-6522.22	-1029.50	11037.42	11018.98	-51.49	-1341.09	279.59	6478.29	173.64	6304.65	6361.70	56.76	OSF1.50	Pass
17400.00	10988.42	-6622.21	-1028.90	11038.48	11020.04	-51.50	-1341.10	279.81	6578.20	173.79	6404.42	6461.51	57.58	OSF1.50	Pass
17500.00	10988.69	-6722.21	-1028.30	11039.56	11021.11	-51.50	-1341.11	280.03	6678.12	173.94	6504.18	6561.32	58.41	OSF1.50	Pass
17600.00	10988.95	-6822.21	-1027.69	11040.64	11022.20	-51.51	-1341.12	280.25	6778.03	174.09	6603.94	6661.14	59.23	OSF1.50	Pass
17700.00	10989.21	-6922.21	-1027.09	11041.74	11023.30	-51.52	-1341.13	280.47	6877.95	174.24	6703.70	6760.95	60.05	OSF1.50	Pass
17800.00	10989.47	-7022.20	-1026.49	11042.85	11024.41	-51.52	-1341.14	280.69	6977.87	174.40	6803.47	6860.77	60.87	OSF1.50	Pass
17900.00	10989.73	-7122.20	-1025.89	11043.97	11025.53	-51.53	-1341.15	280.92	7077.79	174.56	6903.23	6960.58	61.68	OSF1.50	Pass
18000.00	10990.00	-7222.20	-1025.29	11045.11	11026.67	-51.53	-1341.16	281.15	7177.71	174.72	7002.99	7060.40	62.49	OSF1.50	Pass
18100.00	10990.26	-7322.20	-1024.69	11046.26	11027.81	-51.54	-1341.17	281.38	7277.64	174.88	7102.76	7160.22	63.31	OSF1.50	Pass
18200.00	10990.52	-7422.20	-1024.09	11047.42	11028.98	-51.55	-1341.18	281.61	7377.57	175.05	7202.52	7260.04	64.11	OSF1.50	Pass
18300.00	10990.78	-7522.19	-1023.49	11048.59	11030.15	-51.55	-1341.19	281.85	7477.50	175.21	7302.28	7359.85	64.92	OSF1.50	Pass
18400.00	10991.04	-7622.19	-1022.89	11049.78	11031.34	-51.56	-1341.20	282.09	7577.43	175.38	7402.05	7459.67	65.72	OSF1.50	Pass
18500.00	10991.31	-7722.19	-1022.29	11050.98	11032.54	-51.57	-1341.21	282.33	7677.36	175.55	7501.81	7559.49	66.52	OSF1.50	Pass
18600.00	10991.57	-7822.19	-1021.68	11052.20	11033.76	-51.57	-1341.22	282.57	7777.29	175.72	7601.57	7659.31	67.32	OSF1.50	Pass
18700.00	10991.83	-7922.19	-1021.08	11053.43	11034.99	-51.58	-1341.23	282.81	7877.23	175.90	7701.33	7759.13	68.12	OSF1.50	Pass
18800.00	10992.09	-8022.18	-1020.48	11054.68	11036.24	-51.59	-1341.24	283.06	7977.17	176.08	7801.09	7858.95	68.92	OSF1.50	Pass
18900.00	10992.35	-8122.18	-1019.88	11055.94	11037.50	-51.60	-1341.25	283.31	8077.11	176.25	7900.85	7958.77	69.71	OSF1.50	Pass
19000.00	10992.61	-8222.18	-1019.28	11057.22	11038.77	-51.60	-1341.26	283.56	8177.05	176.43	8000.61	8058.59	70.50	OSF1.50	Pass
19100.00	10992.88	-8322.18	-1018.68	11058.51	11040.06	-51.61	-1341.27	283.82	8276.99	176.62	8100.37	8158.41	71.28	OSF1.50	Pass
19200.00	10993.14	-8422.17	-1018.08	11059.81	11041.37	-51.62	-1341.28	284.08	8376.93	176.80	8200.13	8258.23	72.07	OSF1.50	Pass
19300.00	10993.40	-8522.17	-1017.48	11061.14	11042.70	-51.63	-1341.29	284.33	8476.88	176.99	8299.89	8358.05	72.85	OSF1.50	Pass
19400.00	10993.66	-8622.17	-1016.88	11062.48	11044.03	-51.64	-1341.31	284.60	8576.82	177.18	8399.65	8457.87	73.63	OSF1.50	Pass
19500.00	10993.92	-8722.17	-1016.28	11063.83	11045.39	-51.64	-1341.32	284.86	8676.77	177.37	8499.40	8557.69	74.41	OSF1.50	Pass
19600.00	10994.19	-8822.17	-1015.68	11065.21	11046.76	-51.65	-1341.33	285.13	8776.71	177.56	8599.16	8657.51	75.18	OSF1.50	Pass
19700.00	10994.45	-8922.16	-1015.07	11066.60	11048.15	-51.66	-1341.34	285.40	8876.66	177.75	8698.91	8757.33	75.95	OSF1.50	Pass
19800.00	10994.71	-9022.16	-1014.47	11068.00	11049.56	-51.67	-1341.35	285.67	8976.61	177.95	8798.66	8857.15	76.72	OSF1.50	Pass
19900.00	10994.97	-9122.16	-1013.87	11069.43	11050.99	-51.68	-1341.36	285.95	9076.56	178.15	8898.42	8956.97	77.49	OSF1.50	Pass
20000.00	10995.23	-9222.16	-1013.27	11070.87	11052.43	-51.69	-1341.38	286.23	9176.51	178.35	8998.17	9056.78	78.26	OSF1.50	Pass
20100.00	10995.50	-9322.16	-1012.67	11072.34	11053.90	-51.70	-1341.39	286.51	9276.47	178.55	9097.92	9156.60	79.02	OSF1.50	Pass
20200.00	10995.76	-9422.15	-1012.07	11073.82	11055.38	-51.71	-1341.40	286.79	9376.42	178.75	9197.67	9256.42	79.78	OSF1.50	Pass
20300.00	10996.02	-9522.15	-1011.47	11075.32	11056.88	-51.72	-1341.41	287.08	9476.37	178.96	9297.42	9356.24	80.53	OSF1.50	Pass
20400.00	10996.28	-9622.15	-1010.87	11076.84	11058.40	-51.73	-1341.43	287.37	9576.33	179.16	9397.16	9456.05	81.29	OSF1.50	Pass
20500.00	10996.54	-9722.15	-1010.27	11078.38	11059.94	-51.74	-1341.44	287.66	9676.28	179.37	9496.91	9555.87	82.04	OSF1.50	Pass
20600.00	10996.81	-9822.14	-1009.67	11079.94	11061.50	-51.75	-1341.45	287.95	9776.24	179.59	9596.65	9655.68	82.79	OSF1.50	Pass
20700.00	10997.07	-9922.14	-1009.06	11081.53	11063.08	-51.76	-1341.46	288.25	9876.20	179.80	9696.40	9755.50	83.53	OSF1.50	Pass
20712.06	10997.10	-9934.20	-1008.99	11081.72	11063.28	-51.76	-1341.47	288.29	9888.25	179.83	9708.43	9767.54	83.62	OSF1.50	Pass

End of results

...Dos Equis 11-14 Federal Com 25Y\Coterra Dos Equis 11-14 Federal Com 25Y Rev0 kFc 16Jun22

Drilling Office 2.10.829.1

Schlumberger-Private

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Field: NM Lea County (NAD 83)
 Structure: Coterra Dos Equis 11-14 Fed Com Pad (East)
 Slot: 23H
 Client: COTERRA
 Coordinate System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 North Reference: Grid
 Grid Convergence Angle: 0.36542864°
 Well: Dos Equis 11-14 Federal Com 23H
 Borehole: Dos Equis 11-14 Federal Com 23H
 Trajectory: Coterra Dos Equis 11-14 Federal Com 23H Corrected MWD to 20586ft
 Type: Def Survey
 Grid Scale Factor: 0.999960469
 Magnetic Declination: 6.360°
 Reference Point: 450960.100 (ftUS)
 Magnetic Declination Date: May 04, 2022
 Magnetic Model: HDGM 2022
 Easting: 753138.540 (ftUS)
 Elevation: 3639.900 (ft) MSL
 Structure Unc.: 0.000 (ft) (3 sigma)
 Slot Unc.: 0.000 (ft) (3 sigma)

Trajectory Error Model: ISCWSA0 3-D 95.000% Confidence 2.7955 sigma

Surveying Prog: As Drilled

Description	MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type	Hole Size (in)	Casing Diameter (in)	Borehole / Survey
	0.000	22.000	1/98.425	A008Mb_MWD+IFR1+MS-Depth Only	17.500	13.375 I Federal Com 23H Corrected MWD to 20586ft	
	22.000	22.000	Act-Sins	A008Mb_MWD+IFR1+MS-Depth Only	17.500	13.375 I Federal Com 23H Corrected MWD to 20586ft	
	22.000	1250.000	Act-Sins	A008Mb_MWD+IFR1+MS	17.500	13.375 I Federal Com 23H Corrected MWD to 20586ft	
	1250.000	4932.000	Act-Sins	A008Mb_MWD+IFR1+MS	12.250	9.625 I Federal Com 23H Corrected MWD to 20586ft	
	4932.000	10340.000	Act-Sins	A008Mb_MWD+IFR1+MS	8.750	7.000 I Federal Com 23H Corrected MWD to 20586ft	
	10340.000	20586.000	Act-Sins	A008Mb_MWD+IFR1+MS	6.000	4.500 I Federal Com 23H Corrected MWD to 20586ft	

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
All local minima indicated.															
0.00	0.00	0.00	0.00	0.00	0.70	0.48	79.99	89.66	80.00	32.81	47.19	78.19		N/A S = 10.00 (m)	Pass
100.00	100.00	0.00	0.00	98.77	99.47	0.24	80.32	89.83	80.32	32.81	47.51	78.12		200.78 S = 10.00 (m)	Pass
200.00	200.00	0.00	0.00	198.35	199.04	-0.47	81.29	90.33	81.30	32.81	48.49	78.29		66.20 S = 10.00 (m)	Pass
300.00	300.00	0.00	0.00	298.55	299.23	-1.29	82.34	90.90	82.35	32.81	49.54	78.35		36.70 S = 10.00 (m)	Pass
400.00	400.00	0.00	0.00	398.33	399.00	-2.14	83.35	91.47	83.39	32.81	50.58	78.39		25.55 S = 10.00 (m)	Pass
500.00	500.00	0.00	0.00	498.38	499.05	-2.10	84.54	91.42	84.58	32.81	51.77	78.58		19.78 S = 10.00 (m)	Pass
600.00	599.99	-0.87	0.00	598.83	599.48	-0.55	85.36	89.79	85.36	32.81	52.55	78.41		16.24 S = 10.00 (m)	Pass
700.00	699.98	-2.62	0.00	698.75	699.38	1.46	86.00	87.29	86.09	32.81	53.29	78.20		13.84 S = 10.00 (m)	Pass
800.00	799.96	-4.36	0.00	798.85	799.45	3.77	86.47	84.63	86.85	32.81	54.04	77.99		12.06 S = 10.00 (m)	Pass
900.00	899.95	-6.11	0.00	898.92	899.50	6.02	86.76	82.05	87.61	32.81	54.80	77.78		10.69 S = 10.00 (m)	Pass
1000.00	999.93	-7.85	0.00	999.16	999.71	8.14	86.85	79.57	88.31	32.81	55.50	77.50		9.61 S = 10.00 (m)	Pass
1100.00	1099.92	-9.60	0.00	1099.52	1100.05	10.17	86.48	77.12	88.71	32.81	55.91	76.92		8.70 S = 10.00 (m)	Pass
1200.00	1199.90	-11.34	0.00	1199.75	1200.25	12.19	85.66	74.64	88.84	32.81	56.03	76.06		7.94 S = 10.00 (m)	Pass
1300.00	1299.89	-13.09	0.00	1299.73	1300.20	14.41	84.60	71.99	88.96	32.81	56.15	75.48		7.38 S = 10.00 (m)	Pass
1400.00	1399.87	-14.83	0.00	1399.43	1399.89	16.09	83.81	69.75	89.33	32.81	56.52	75.25		7.05 S = 10.00 (m)	Pass
1500.00	1499.86	-16.58	0.00	1499.38	1499.84	16.11	83.83	68.70	89.98	32.81	57.17	75.31		6.78 S = 10.00 (m)	Pass
1600.00	1599.83	-18.11	-1.73	1596.64	1597.08	15.95	85.29	68.62	93.49	32.81	60.68	78.19	6.39	6.39 S = 10.00 (m)	Pass
1700.00	1699.68	-19.20	-6.92	1693.40	1693.73	15.80	89.85	70.03	103.09	32.81	70.28	87.13	7.09	7.09 S = 10.00 (m)	Pass
1800.00	1799.30	-19.86	-15.57	1788.52	1788.55	15.67	97.32	72.31	118.84	32.81	86.03	102.21	7.83	7.83 S = 10.00 (m)	Pass
1900.00	1898.56	-20.08	-27.66	1884.23	1883.74	15.06	107.26	75.05	140.21	32.81	107.41	122.88	8.84	8.84 S = 10.00 (m)	Pass
2000.00	1997.44	-19.94	-42.59	1980.17	1979.04	13.67	118.27	77.84	165.36	32.81	132.55	147.28	9.97	9.97 S = 10.00 (m)	Pass
2100.00	2096.27	-19.77	-57.80	2075.96	2074.13	11.92	129.69	80.10	191.43	32.81	158.62	172.60	11.05	11.05 S = 10.00 (m)	Pass
2200.00	2195.11	-19.59	-73.01	2173.58	2171.08	10.76	140.99	81.67	217.47	32.81	184.66	197.84	12.00	12.00 S = 10.00 (m)	Pass
2300.00	2293.95	-19.42	-88.22	2269.13	2266.01	10.40	151.89	82.69	243.56	32.81	210.75	223.13	12.88	12.88 S = 10.00 (m)	Pass
2400.00	2392.78	-19.24	-103.44	2364.46	2360.68	10.28	163.11	83.47	270.09	32.81	237.28	248.85	13.70	13.70 S = 10.00 (m)	Pass
2500.00	2491.62	-19.07	-118.65	2460.02	2455.53	10.70	174.67	84.01	297.02	32.81	264.21	274.94	14.46	14.46 S = 10.00 (m)	Pass
2600.00	2590.45	-18.89	-133.86	2557.49	2552.29	10.56	186.39	84.57	323.86	33.60	290.26	300.91	15.13	OSF1.50	Pass
2700.00	2689.29	-18.71	-149.07	2654.26	2648.37	9.16	197.82	85.25	350.40	34.90	315.50	326.59	15.73	OSF1.50	Pass
2800.00	2788.13	-18.54	-164.28	2748.81	2742.22	7.53	209.28	85.86	377.28	36.19	341.08	352.60	16.31	OSF1.50	Pass
2900.00	2886.96	-18.36	-179.49	2844.25	2836.91	5.80	221.11	86.42	404.44	37.51	366.93	378.88	16.85	OSF1.50	Pass
3000.00	2985.80	-18.19	-194.71	2933.52	2933.52	3.89	233.37	86.94	431.82	38.88	392.95	405.35	17.33	OSF1.50	Pass
3100.00	3084.64	-18.01	-209.92	3048.71	3039.87	1.74	245.32	87.43	457.86	40.39	417.48	430.39	17.67	OSF1.50	Pass
3200.00	3183.47	-17.84	-225.13	3163.63	3154.40	0.23	254.63	87.78	480.98	41.98	439.00	452.44	17.83	OSF1.50	Pass
3300.00	3282.31	-17.66	-240.34	3286.24	3276.92	0.01	259.07	87.94	499.76	43.60	456.15	470.14	17.81	OSF1.50	Pass
3400.00	3381.14	-17.48	-255.55	3391.65	3382.32	-0.07	259.46	88.03	515.31	45.03	470.28	484.74	17.76	OSF1.50	Pass
3500.00	3479.98	-17.31	-270.76	3491.92	3482.59	0.00	259.11	88.10	530.17	46.40	483.77	498.68	17.72	OSF1.50	Pass
3600.00	3578.82	-17.13	-285.97	3592.30	3582.97	0.35	258.42	88.13	544.69	47.78	496.91	512.29	17.66	OSF1.50	Pass
3700.00	3677.65	-16.96	-301.19	3690.53	3681.20	0.65	257.73	88.17	559.20	49.16	510.04	525.88	17.60	OSF1.50	Pass
3800.00	3776.49	-16.78	-316.40	3788.91	3779.57	0.51	257.15	88.25	573.82	50.54	523.28	539.58	17.55	OSF1.50	Pass
3900.00	3875.32	-16.61	-331.61	3885.96	3876.63	0.36	256.73	88.32	588.58	51.93	536.65	553.41	17.51	OSF1.50	Pass
4000.00	3974.16	-16.43	-346.82	3982.17	3972.83	0.05	256.79	88.41	603.84	53.33	550.51	567.74	17.48	OSF1.50	Pass
4100.00	4073.00	-16.26	-362.03	4078.74	4069.40	-0.70	257.14	88.53	619.38	54.74	564.64	582.34	17.45	OSF1.50	Pass
4200.00	4171.83	-16.08	-377.24	4172.38	4163.03	-1.71	258.04	88.68	635.50	56.13	579.38	597.53	17.45	OSF1.50	Pass
4300.00	4270.67	-15.90	-392.46	4273.55	4264.17	-3.44	259.65	88.88	652.26	57.59	594.66	613.31	17.44	OSF1.50	Pass
4400.00	4369.50	-15.73	-407.67	4374.69	4365.31	-3.91	260.17	88.96	667.95	59.06	608.89	628.03	17.41	OSF1.50	Pass
4500.00	4468.34	-15.55	-422.88	4468.37	4458.99	-4.24	261.09	89.03	684.13	60.47	623.66	643.27	17.41	OSF1.50	Pass
4600.00	4567.18	-15.38	-438.09	4568.55	4559.14	-5.43	262.55	89.17	700.76	61.94	638.82	658.92	17.40	OSF1.50	Pass
4700.00	4666.01	-15.20	-453.30	4668.18	4658.76	-6.37	263.55	89.28	716.94	63.40	653.54	674.13	17.38	OSF1.50	Pass
4800.00	4764.85	-15.03	-468.51	4767.16	4757.74	-6.94	264.55	89.35	733.15	64.87	668.28	689.35	17.36	OSF1.50	Pass
4900.00	4863.69	-14.85	-483.73	4871.54	4862.12	-6.98	265.22	89.38	748.99	66.38	682.61	704.19	17.33	OSF1.50	Pass
5000.00	4962.52	-14.67	-498.94	4970.98	4961.55	-6.42	265.37	89.37	764.35	67.56	696.80	718.80	17.33	OSF1.50	Pass
5100.00	5061.36	-14.50	-514.15	5068.69	5059.26	-5.39	265.48	89.31	779.68	68.43	711.25	733.54	17.45	OSF1.50	Pass
5200.00	5160.19	-14.32	-529.36	5163.69	5154.25	-4.39	266.04	89.27	795.48	69.32	726.16	748.75	17.57	OSF1.50	Pass
5300.00	5259.03	-14.15	-544.57	5265.81	5256.36	-3.14	266.63	89.20	811.28	70.26	741.02	763.92	17.67	OSF1.50	Pass
5400.00	5357.87	-13.97	-559.78	5368.97	5359.51	-1.54	266.60	89.12	826.48	71.23	755.25	778.48	17.76	OSF1.50	Pass
5500.00	5456.70	-13.80	-574.99	5467.34	5457.87	-0.19	266.35	89.06	841.46	72.19	769.26	792.81	17.83	OSF1.50	Pass
5600.00	5555.54	-13.62	-590.21	5563.62	5554.14	1.11	266.34	88.99	856.68	73.17	783.51	807.39	17.91	OSF1.50	Pass
5700.00	5654.37	-13.45	-605.42	5661.61	5652.12	2.96	266.56	88.90	872.14	74.16	797.97	822.18	17.98	OSF1.50	Pass
5800.00	5753.21	-13.27	-620.63	5763.79	5754.28	4.85	266.65	88.81	887.47	75.20	812.27	836.82	18.04	OSF1.50	Pass
5900.00	5852.05	-13.09	-635.84	5863.26	5853.74	6.32	266.40	88.75	902.45	76.25	826.20	851.11	18.09	OSF1.50	Pass
6000.00	5950.88	-12.92	-651.05	5960.75	5951.21	8.07	266.25	88.67	917.54	77.29	840.25	865.50	18.14	OSF1.50	Pass
6100.00	6049.72	-12.74	-666.26	6063.77	6054.21	9.70	266.01	88.60	932.55	78.39	854.16	879.18	18.17	OSF1.50	Pass
6200.00	6148.55	-12.57	-681.48	6158.80	6149.24	11.21	265.65	88.54	947.43	79.45	867.97	893.94	18.21	OSF1.50	Pass
6300.00	6247.39	-12.39	-696.69	6258.27	6248.68	13.02	265.53	88.46	962.56	80.56	882.00	908.34	18.24	OSF1.50	Pass

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Coterra Dos Equis 11-14 Federal Com 23H Corrected MWD to 20586ft

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
6400.00	6346.23	-12.22	-711.90	6360.24	6350.63	15.03	265.19	88.38	977.47	81.69	895.78	922.50	18.26	OSF1.50	Pass
6500.00	6445.06	-12.04	-727.11	6462.93	6453.31	16.95	264.44	88.30	992.01	82.85	909.16	936.26	18.27	OSF1.50	Pass
6600.00	6543.90	-11.87	-742.32	6564.21	6554.56	18.93	263.55	88.22	1006.40	84.00	922.40	949.88	18.28	OSF1.50	Pass
6700.00	6642.74	-11.69	-757.53	6673.27	6663.60	19.62	261.66	88.22	1019.89	85.21	934.68	962.57	18.26	OSF1.50	Pass
6800.00	6741.57	-11.51	-772.75	6773.87	6764.18	19.50	259.56	88.26	1033.02	86.38	946.64	974.92	18.24	OSF1.50	Pass
6900.00	6840.41	-11.34	-787.96	6867.03	6857.32	19.23	257.59	88.30	1046.13	87.51	958.62	987.28	18.23	OSF1.50	Pass
7000.00	6939.24	-11.16	-803.17	6952.70	6942.98	18.49	256.81	88.37	1060.40	88.59	971.81	1000.82	18.25	OSF1.50	Pass
7100.00	7038.08	-10.99	-818.38	7052.31	7042.57	16.80	256.45	88.50	1075.20	89.78	985.42	1014.83	18.25	OSF1.50	Pass
7200.00	7136.92	-10.81	-833.59	7145.70	7135.95	14.92	256.22	88.62	1090.12	90.92	999.20	1028.99	18.27	OSF1.50	Pass
7300.00	7235.75	-10.64	-848.80	7236.86	7227.08	12.89	256.76	88.76	1105.84	92.06	1013.78	1043.96	18.30	OSF1.50	Pass
7400.00	7334.59	-10.46	-864.01	7334.81	7325.00	10.59	257.66	88.90	1121.91	93.26	1028.66	1059.23	18.32	OSF1.50	Pass
7500.00	7433.42	-10.29	-879.23	7434.34	7424.49	8.26	258.49	89.05	1137.90	94.49	1043.43	1074.40	18.34	OSF1.50	Pass
7600.00	7532.26	-10.11	-894.44	7532.04	7522.18	6.36	259.32	89.16	1153.91	95.69	1058.22	1089.61	18.36	OSF1.50	Pass
7700.00	7631.10	-9.93	-909.65	7629.19	7619.31	4.51	260.25	89.27	1170.05	96.91	1073.14	1104.93	18.38	OSF1.50	Pass
7800.00	7729.93	-9.76	-924.86	7733.17	7723.27	3.11	261.19	89.36	1186.14	98.19	1087.95	1120.16	18.38	OSF1.50	Pass
7900.00	7828.77	-9.58	-940.07	7831.60	7821.69	3.43	261.66	89.36	1201.82	99.44	1102.38	1135.01	18.39	OSF1.50	Pass
8000.00	7927.60	-9.41	-955.28	7938.20	7928.30	3.48	262.04	89.38	1217.39	100.77	1116.62	1149.70	18.38	OSF1.50	Pass
8100.00	8026.44	-9.23	-970.50	8038.71	8028.81	3.01	261.89	89.42	1232.45	102.05	1130.40	1163.91	18.37	OSF1.50	Pass
8200.00	8125.28	-9.06	-985.71	8136.22	8126.31	2.23	261.76	89.47	1247.52	103.31	1144.21	1178.13	18.37	OSF1.50	Pass
8300.00	8224.15	-8.88	-1000.68	8230.84	8220.92	1.17	261.85	89.53	1262.58	104.55	1158.03	1192.37	18.36	OSF1.50	Pass
8400.00	8323.40	-8.74	-1012.88	8327.23	8317.30	-0.13	262.21	89.61	1275.13	105.79	1169.34	1204.09	18.32	OSF1.50	Pass
8500.00	8423.01	-8.64	-1021.60	8424.36	8414.43	-1.53	262.81	89.68	1284.46	107.04	1177.42	1212.58	18.24	OSF1.50	Pass
8600.00	8522.87	-8.58	-1026.84	8528.25	8518.30	-3.44	263.33	89.77	1290.19	108.34	1181.86	1217.45	18.10	OSF1.50	Pass
8700.00	8622.85	-8.56	-1028.60	8629.82	8619.85	-5.38	263.63	89.86	1292.24	109.60	1182.63	1218.65	17.92	OSF1.50	Pass
8800.00	8722.85	-8.56	-1028.60	8728.70	8718.70	-7.42	263.85	89.95	1292.46	110.80	1181.66	1218.08	17.72	OSF1.50	Pass
8900.00	8822.85	-8.56	-1028.60	8824.36	8814.34	-9.74	264.34	90.05	1292.97	111.97	1180.99	1217.80	17.54	OSF1.50	Pass
9000.00	8922.85	-8.56	-1028.60	8926.89	8916.84	-12.03	265.03	90.15	1293.65	113.22	1180.43	1217.66	17.35	OSF1.50	Pass
9100.00	9022.85	-8.56	-1028.60	9029.23	9019.15	-14.20	265.19	90.25	1293.81	114.51	1179.30	1216.95	17.16	OSF1.50	Pass
9200.00	9122.85	-8.56	-1028.60	9135.93	9125.82	-16.69	265.04	90.37	1293.67	115.77	1177.90	1215.98	16.97	OSF1.50	Pass
9300.00	9222.85	-8.56	-1028.60	9250.03	9239.88	-19.92	264.25	90.50	1293.01	117.14	1175.88	1214.41	16.76	OSF1.50	Pass
9400.00	9322.85	-8.56	-1028.60	9360.19	9349.97	-23.13	262.30	90.65	1291.27	118.47	1172.80	1211.78	16.55	OSF1.50	Pass
9500.00	9422.85	-8.56	-1028.60	9464.39	9454.09	-26.24	259.89	90.79	1288.99	119.76	1169.23	1208.64	16.34	OSF1.50	Pass
9600.00	9522.85	-8.56	-1028.60	9569.94	9559.57	-29.01	257.17	90.91	1286.45	121.06	1165.39	1205.23	16.13	OSF1.50	Pass
9700.00	9622.85	-8.56	-1028.60	9671.31	9660.87	-31.00	253.91	91.00	1283.27	122.34	1160.93	1201.19	15.92	OSF1.50	Pass
9800.00	9722.85	-8.56	-1028.60	9745.66	9735.19	-32.77	252.42	91.08	1281.30	123.40	1157.90	1198.52	15.75	OSF1.50	Pass
9900.00	9822.85	-8.56	-1028.60	9826.91	9816.41	-34.87	252.25	91.18	1281.14	124.50	1156.64	1197.62	15.61	OSF1.50	Pass
10000.00	9922.85	-8.56	-1028.60	9923.91	9913.37	-37.58	252.78	91.30	1281.74	125.75	1155.99	1197.39	15.46	OSF1.50	Pass
10100.00	10022.85	-8.56	-1028.60	10019.55	10008.96	-40.42	253.64	91.42	1282.71	126.99	1155.72	1197.54	15.32	OSF1.50	Pass
10200.00	10122.85	-8.56	-1028.60	10124.58	10113.95	-43.25	254.46	91.55	1283.56	128.34	1155.23	1197.49	15.17	OSF1.50	Pass
10300.00	10222.85	-8.56	-1028.60	10225.39	10214.72	-45.71	255.04	91.66	1284.21	129.64	1154.57	1197.27	15.02	OSF1.50	Pass
10400.00	10322.85	-8.56	-1028.60	10336.43	10325.74	-48.29	255.45	91.77	1284.66	131.05	1153.62	1196.79	14.86	OSF1.50	Pass
10500.00	10422.81	-10.22	-1028.71	10450.98	10440.10	-54.15	254.07	91.91	1283.64	131.46	1152.18	1195.52	14.79	OSF1.50	Pass
10600.00	10521.35	-26.45	-1029.74	10547.80	10534.93	-72.93	252.29	91.98	1282.95	131.47	1151.48	1194.82	14.78	OSF1.50	Pass
10700.00	10615.57	-59.51	-1031.86	10643.62	10621.93	-112.46	249.79	92.36	1282.76	131.51	1151.25	1194.61	14.78	OSF1.50	Pass
10800.00	10702.80	-108.39	-1034.98	10724.58	10699.40	-157.08	248.26	92.76	1282.57	131.48	1150.75	1194.40	14.60	OSF1.50	Pass
10900.00	10779.81	-171.61	-1038.02	10810.08	10752.98	-214.11	247.15	93.23	1282.15	131.53	1150.62	1194.98	14.82	OSF1.50	Pass
11000.00	10844.85	-247.25	-1043.85	10885.47	10803.85	-269.74	247.09	93.59	1291.78	131.58	1160.20	1203.58	14.87	OSF1.50	Pass
11100.00	10895.73	-333.02	-1049.33	10951.37	10845.03	-321.15	248.31	93.87	1298.69	131.68	1167.01	1210.43	14.94	OSF1.50	Pass
11200.00	10930.92	-426.30	-1055.29	11022.63	10984.82	-380.14	251.28	94.08	1308.19	131.92	1176.27	1219.77	15.02	OSF1.50	Pass
11300.00	10953.24	-523.60	-1060.50	11100.39	10919.14	-449.72	255.44	92.84	1318.45	132.28	1186.18	1229.79	15.10	OSF1.50	Pass
11400.00	10967.26	-622.53	-1063.52	11169.52	10941.49	-514.90	260.46	91.65	1328.60	132.61	1195.98	1239.71	15.18	OSF1.50	Pass
11500.00	10972.89	-722.34	-1064.33	11234.68	10956.53	-577.98	266.68	90.45	1338.91	132.98	1205.94	1249.78	15.25	OSF1.50	Pass
11600.00	10973.23	-822.34	-1063.75	11485.88	10978.10	-827.27	280.88	89.45	1344.65	134.50	1210.15	1254.51	15.14	OSF1.50	Pass
11700.00	10973.49	-922.34	-1063.15	11586.93	10980.11	-928.29	280.94	89.37	1344.13	135.21	1208.91	1253.51	15.06	OSF1.50	Pass
11800.00	10973.75	-1022.33	-1062.55	11681.00	10981.45	-1022.34	279.68	89.33	1342.26	135.94	1206.32	1251.15	14.95	OSF1.50	Pass
11900.00	10974.02	-1122.33	-1061.95	11730.40	10981.99	-1071.73	280.61	89.31	1343.54	136.34	1207.20	1252.17	14.92	OSF1.50	Pass
12000.00	10974.28	-1222.33	-1061.35	11802.63	10982.06	-1144.06	284.31	89.32	1347.96	136.96	1211.00	1256.17	14.90	OSF1.50	Pass
12100.00	10974.54	-1322.33	-1060.75	12096.77	10981.30	-1437.39	274.07	89.38	1339.78	139.85	1199.93	1246.07	14.50	OSF1.50	Pass
12200.00	10974.80	-1422.32	-1060.15	12192.38	10981.34	-1532.65	265.81	89.39	1330.55	140.91	1189.65	1236.14	14.29	OSF1.50	Pass
12300.00	10975.06	-1522.32	-1059.55	12268.12	10981.69	-1608.16	260.07	89.38	1322.42	141.79	1180.63	1227.42	14.12	OSF1.50	Pass
12400.00	10975.33	-1622.32	-1058.95	12326.23	10982.16	-1666.18	256.92	89.36	1316.61	142.50	1174.11	1221.14	13.99	OSF1.50	Pass
12500.00	10975.59	-1722.32	-1058.34	12364.76	10982.55	-1704.70	256.53	89.35	1316.01	142.97	1172.05	1219.23	13.92	OSF1.50	Pass
12600.00	10975.85	-1822.32	-1057.74	12403.26	10982.96	-1743.17	257.95	89.34	1316.05	143.42	1171.67	1222.00	13.91	OSF1.50	Pass
12700.00	10976.11	-1922.31	-1057.14	12606.52	10985.04	-1946.32	262.15	89.27	1319.54	146.20	1173.34	1221.59	13.66	OSF1.50	Pass
12800.00	10976.37	-2022.31	-1056.54	12705.97	10985.85	-2045.74	260.15	89.25	1316.93	147.62	1169.32	1218.04	13.50	OSF1.50	Pass
12900.00	10976.63	-2122.31	-1055.94	12782.78	10986.49	-2122.55	259.46	89.23	1315.44	148.75	1166.69	1215.79	13.38	OSF1.50	Pass

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Coterra Dos Equis 11-14 Federal Com 23H Corrected MWD to 20586ft

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
14900.00	10981.87	-4122.27	-1043.92	14761.82	10989.29	-4100.37	264.45	89.33	1308.57	187.01	1121.56	1183.42	10.57	OSF1.50	Pass
15000.00	10982.14	-4222.26	-1043.32	14842.59	10989.63	-4181.12	266.34	89.32	1310.33	188.84	1121.49	1183.96	10.48	OSF1.50	Pass
15100.00	10982.40	-4322.26	-1042.72	14922.83	10989.73	-4261.30	269.47	89.33	1313.63	190.65	1122.98	1186.05	10.40	OSF1.50	Pass
15200.00	10982.66	-4422.26	-1042.12	15005.99	10989.95	-4344.34	273.91	89.33	1318.35	192.54	1125.81	1189.51	10.34	OSF1.50	Pass
15300.00	10982.92	-4522.26	-1041.52	15085.01	10990.29	-4423.19	279.07	89.33	1324.32	194.31	1130.00	1194.30	10.29	OSF1.50	Pass
15400.00	10983.18	-4622.26	-1040.92	15165.21	10990.86	-4503.09	285.93	89.31	1332.20	196.12	1136.09	1200.98	10.25	OSF1.50	Pass
15500.00	10983.45	-4722.25	-1040.32	15304.93	10991.34	-4642.39	296.55	89.31	1339.28	199.69	1139.59	1205.67	10.12	OSF1.50	Pass
15600.00	10983.71	-4822.25	-1039.71	15465.36	10992.07	-4802.70	302.56	89.30	1342.44	203.74	1138.70	1206.14	9.94	OSF1.50	Pass
15700.00	10983.97	-4922.25	-1039.11	15588.30	10993.11	-4925.64	302.74	89.27	1341.89	206.77	1135.12	1203.56	9.79	OSF1.50	Pass
15800.00	10984.23	-5022.25	-1038.51	15689.21	10993.33	-5026.54	302.46	89.27	1341.01	209.28	1131.73	1201.01	9.67	OSF1.50	Pass
15900.00	10984.49	-5122.25	-1037.91	15791.67	10993.40	-5129.00	302.05	89.28	1340.01	211.85	1128.16	1198.30	9.54	OSF1.50	Pass
16000.00	10984.76	-5222.24	-1037.31	15885.07	10993.46	-5222.40	301.75	89.28	1339.06	214.21	1124.88	1195.80	9.43	OSF1.50	Pass
16100.00	10985.02	-5322.24	-1036.71	15967.59	10993.30	-5299.92	302.29	89.30	1339.21	216.17	1123.03	1194.61	9.34	OSF1.50	Pass
16200.00	10985.28	-5422.24	-1036.11	16044.32	10993.53	-5381.62	304.34	89.30	1341.09	218.24	1122.86	1195.12	9.27	OSF1.50	Pass
16300.00	10985.54	-5522.24	-1035.51	16148.52	10994.37	-5485.77	307.64	89.28	1343.67	220.93	1122.74	1195.91	9.17	OSF1.50	Pass
16400.00	10985.80	-5622.23	-1034.91	16311.27	10995.24	-5648.49	308.62	89.26	1343.82	225.13	1118.69	1193.25	9.00	OSF1.50	Pass
16500.00	10986.07	-5722.23	-1034.31	16441.30	10995.00	-5778.44	304.19	89.28	1339.71	228.41	1111.30	1186.96	8.84	OSF1.50	Pass
16600.00	10986.33	-5822.23	-1033.70	16589.03	10994.49	-5925.89	295.36	89.32	1333.12	231.96	1101.16	1178.00	8.67	OSF1.50	Pass
16700.00	10986.59	-5922.23	-1033.10	16683.83	10994.74	-6020.41	288.00	89.31	1324.77	234.50	1090.27	1167.96	8.52	OSF1.50	Pass
16800.00	10986.85	-6022.23	-1032.50	16763.48	10995.10	-6099.87	282.65	89.31	1317.47	236.77	1080.71	1159.15	8.39	OSF1.50	Pass
16900.00	10987.11	-6122.22	-1031.90	16831.94	10995.32	-6168.26	279.43	89.30	1312.17	238.76	1073.41	1152.52	8.28	OSF1.50	Pass
17000.00	10987.38	-6222.22	-1031.30	16899.88	10995.36	-6236.18	277.87	89.31	1309.27	240.67	1068.60	1148.35	8.20	OSF1.50	Pass
17100.00	10987.64	-6322.22	-1030.70	16967.41	10995.19	-6303.70	277.99	89.32	1308.84	242.48	1066.36	1146.70	8.14	OSF1.50	Pass
17200.00	10987.90	-6422.22	-1030.10	17034.45	10995.02	-6370.72	279.78	89.34	1310.91	244.20	1066.71	1147.63	8.09	OSF1.50	Pass
17300.00	10988.16	-6522.22	-1029.50	17134.39	10995.03	-6470.58	283.79	89.35	1314.32	246.91	1067.41	1149.23	8.02	OSF1.50	Pass
17400.00	10988.42	-6622.21	-1028.90	17230.05	10995.21	-6566.16	287.72	89.36	1317.82	249.50	1068.32	1151.01	7.96	OSF1.50	Pass
17500.00	10988.69	-6722.21	-1028.30	17343.88	10995.54	-6679.91	291.89	89.35	1320.88	252.68	1068.20	1151.95	7.88	OSF1.50	Pass
17600.00	10988.95	-6822.21	-1027.69	17440.68	10995.81	-6776.67	294.88	89.35	1323.38	255.33	1068.05	1152.68	7.81	OSF1.50	Pass
17700.00	10989.21	-6922.21	-1027.09	17517.92	10995.87	-6853.83	298.18	89.36	1327.06	257.35	1068.71	1155.01	7.77	OSF1.50	Pass
17800.00	10989.47	-7022.20	-1026.49	17588.95	10996.16	-6924.72	302.61	89.36	1332.69	259.11	1073.58	1159.47	7.75	OSF1.50	Pass
17900.00	10989.73	-7122.20	-1025.89	17678.41	10996.80	-7013.90	309.66	89.34	1339.96	261.50	1078.45	1165.14	7.72	OSF1.50	Pass
18000.00	10990.00	-7222.20	-1025.29	17795.80	10997.10	-7130.95	318.57	89.34	1346.98	264.94	1082.04	1169.87	7.66	OSF1.50	Pass
18100.00	10990.26	-7322.20	-1024.69	17913.12	10997.62	-7248.05	325.65	89.34	1352.39	268.35	1084.04	1173.01	7.59	OSF1.50	Pass
18200.00	10990.52	-7422.20	-1024.09	18017.40	10998.38	-7352.19	331.20	89.32	1357.12	271.31	1085.81	1175.77	7.54	OSF1.50	Pass
18300.00	10990.78	-7522.19	-1023.49	18285.22	11002.59	-7619.67	333.52	89.17	1360.55	278.40	1082.15	1174.47	7.36	OSF1.50	Pass
18400.00	10991.04	-7622.19	-1022.89	18377.31	11002.50	-7711.52	326.79	89.18	1352.67	281.08	1071.59	1164.81	7.25	OSF1.50	Pass
18500.00	10991.31	-7722.19	-1022.29	18440.50	11002.48	-7774.62	323.47	89.19	1346.82	283.19	1063.63	1157.55	7.16	OSF1.50	Pass
18600.00	10991.57	-7822.19	-1021.68	18521.95	11003.10	-7856.03	320.90	89.17	1343.06	285.61	1057.45	1152.17	7.08	OSF1.50	Pass
18700.00	10991.83	-7922.19	-1021.08	18597.88	11004.28	-7931.93	319.61	89.13	1340.79	287.86	1052.93	1148.40	7.01	OSF1.50	Pass
18800.00	10992.09	-8022.18	-1020.48	18693.03	11004.61	-8027.09	319.40	89.12	1339.95	290.59	1049.36	1145.74	6.94	OSF1.50	Pass
18900.00	10992.35	-8122.18	-1019.88	18797.00	11004.21	-8131.05	318.82	89.15	1338.79	293.56	1045.23	1142.60	6.87	OSF1.50	Pass
19000.00	10992.61	-8222.18	-1019.28	18901.13	11004.21	-8235.18	317.98	89.16	1337.37	296.54	1040.84	1139.20	6.79	OSF1.50	Pass
19100.00	10992.88	-8322.18	-1018.68	18980.88	11004.47	-8314.93	317.81	89.16	1336.56	298.86	1037.70	1136.84	6.73	OSF1.50	Pass
19200.00	10993.14	-8422.17	-1018.08	19078.33	11004.60	-8412.38	318.52	89.16	1336.08	301.67	1035.01	1135.09	6.67	OSF1.50	Pass
19300.00	10993.40	-8522.17	-1017.48	19160.14	11004.40	-8494.18	319.85	89.18	1337.47	304.01	1033.46	1134.51	6.62	OSF1.50	Pass
19400.00	10993.66	-8622.17	-1016.88	19247.58	11004.17	-8581.59	321.93	89.20	1339.47	306.50	1032.96	1134.65	6.58	OSF1.50	Pass
19500.00	10993.92	-8722.17	-1016.28	19362.51	11004.23	-8666.48	325.00	89.21	1341.56	309.89	1031.67	1134.49	6.52	OSF1.50	Pass
19600.00	10994.19	-8822.17	-1015.68	19487.00	11004.10	-8820.96	325.89	89.23	1341.60	313.53	1028.08	1132.11	6.44	OSF1.50	Pass
19700.00	10994.45	-8922.16	-1015.07	19577.91	11004.18	-8911.86	326.10	89.24	1341.25	316.18	1025.07	1129.98	6.39	OSF1.50	Pass
19800.00	10994.71	-9022.16	-1014.47	19659.65	11004.14	-8993.60	327.29	89.25	1342.10	318.54	1023.56	1129.28	6.34	OSF1.50	Pass
19900.00	10994.97	-9122.16	-1013.87	19752.55	11003.67	-9086.46	329.79	89.28	1344.17	321.24	1022.93	1129.53	6.30	OSF1.50	Pass
20000.00	10995.23	-9222.16	-1013.27	19883.95	11003.31	-9217.84	331.99	89.31	1345.29	325.14	1020.16	1128.06	6.23	OSF1.50	Pass
20100.00	10995.50	-9322.16	-1012.67	19999.55	11002.89	-9333.44	331.55	89.34	1344.29	328.50	1015.79	1124.81	6.16	OSF1.50	Pass
20200.00	10995.76	-9422.15	-1012.07	20105.38	11002.59	-9439.26	330.61	89.37	1342.81	331.59	1011.21	1121.27	6.09	OSF1.50	Pass
20300.00	10996.02	-9522.15	-1011.47	20236.33	11002.11	-9570.17	327.42	89.40	1339.77	335.26	1004.51	1115.78	6.01	OSF1.50	Pass
20400.00	10996.28	-9622.15	-1010.87	20370.43	11001.83	-9704.11	320.83	89.43	1334.22	338.84	995.39	1107.85	5.93	OSF1.50	Pass
20500.00	10996.54	-9722.15	-1010.27	20474.83	11001.75	-9808.29	314.05	89.44	1327.12	341.85	985.28	1098.75	5.84	OSF1.50	Pass
20600.00	10996.81	-9822.14	-1009.67	20562.80	11001.70	-9896.09	308.68	89.45	1320.43	344.60	975.83	1090.22	5.77	OSF1.50	Pass
20700.00	10997.07	-9922.14	-1009.06	20586.00	11001.65	-9919.25	307.38	89.46	1316.46	345.77	970.69	1085.46	5.73	OSF1.50	Pass
20712.06	10997.10	-9934.20	-1008.99	20586.00	11001.65	-9919.25	307.38	89.46	1316.47	345.76	970.70	1085.48	5.73	OSF1.50	Pass

End of results

...Dos Equis 11-14 Federal Com 25Y\Coterra Dos Equis 11-14 Federal Com 25Y Rev0 kFc 16Jun22

Drilling Office 2.10.829.1

Schlumberger-Private

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Field: NM Lea County (NAD 83)
 Structure: Coterra Dos Equis 11-14 Fed Com Pad (East)
 Slot: 5H
 Client: COTERRA
 Coordinate System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 North Reference: Grid
 Grid Convergence Angle: 0.36546300°
 Grid Scale Factor: 0.999960478
 Magnetic Declination: 6.357°
 Reference Point: Magnetic Declination Date: May 15, 2022
 Magnetic Model: HDGM 2022
 Northing: 450960.230 (ftUS)
 Easting: 753158.450 (ftUS)
 Elevation: 3639.700 (ft) MSL
 Structure Unc.: 0.000 (ft) (3 sigma)
 Slot Unc.: 0.000 (ft) (3 sigma)

Trajectory Error Model: ISCWSA0 3-D 95.000% Confidence 2.7955 sigma
 Surveying Prog: As Drilled

Description	MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type	Hole Size (in)	Casing Diameter (in)	Borehole / Survey
	0.000	22.000	1/98.425	A008Mb_MWD+IFR1+MS-Depth Only	17.500	13.375 I4 Federal Com 5H Corrected MWD to 20508ft	
	22.000	22.000	Act-Sins	A008Mb_MWD+IFR1+MS-Depth Only	17.500	13.375 I4 Federal Com 5H Corrected MWD to 20508ft	
	22.000	1250.000	Act-Sins	A008Mb_MWD+IFR1+MS	17.500	13.375 I4 Federal Com 5H Corrected MWD to 20508ft	
	1250.000	4969.000	Act-Sins	A008Mb_MWD+IFR1+MS	12.250	9.625 I4 Federal Com 5H Corrected MWD to 20508ft	
	4969.000	10163.000	Act-Sins	A008Mb_MWD+IFR1+MS	8.750	7.000 I4 Federal Com 5H Corrected MWD to 20508ft	
	10163.000	20508.000	Act-Sins	A008Mb_MWD+IFR1+MS	6.000	4.500 I4 Federal Com 5H Corrected MWD to 20508ft	

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
All local minima indicated.															
0.00	0.00	0.00	0.00	0.00	0.00	0.61	99.90	89.65	99.91	32.81	67.10	98.10	N/A	10.00 (m)	Pass
22.00	22.00	0.00	0.00	21.07	21.97	0.60	99.91	89.66	99.91	32.81	67.10	98.10	64920.40	10.00 (m)	Pass
100.00	100.00	0.00	0.00	98.96	99.86	0.33	99.98	89.81	99.98	32.81	67.17	97.78	252.47	10.00 (m)	Pass
200.00	200.00	0.00	0.00	198.84	199.74	-0.51	100.19	90.29	100.19	32.81	67.39	97.19	82.19	10.00 (m)	Pass
300.00	300.00	0.00	0.00	298.93	299.82	-1.49	100.40	90.85	100.41	32.81	67.61	96.42	45.01	10.00 (m)	Pass
400.00	400.00	0.00	0.00	399.17	400.05	-2.41	100.46	91.38	100.49	32.81	67.68	95.49	30.92	10.00 (m)	Pass
500.00	500.00	0.00	0.00	499.00	499.88	-3.40	100.45	91.94	100.51	32.81	67.70	94.51	23.55	10.00 (m)	Pass
600.00	599.99	-0.87	0.00	598.84	599.71	-4.47	100.62	92.05	100.69	32.81	67.88	93.71	19.14	10.00 (m)	Pass
700.00	699.98	-2.62	0.00	698.83	699.70	-5.64	100.88	91.72	100.93	32.81	68.12	92.99	16.17	10.00 (m)	Pass
800.00	799.96	-4.36	0.00	798.85	799.71	-6.95	101.07	91.47	101.10	32.81	68.29	92.19	13.97	10.00 (m)	Pass
900.00	899.95	-6.11	0.00	898.85	899.70	-8.43	101.35	91.31	101.38	32.81	68.57	91.48	12.31	10.00 (m)	Pass
1000.00	999.93	-7.85	0.00	999.04	999.87	-10.04	101.44	91.24	101.47	32.81	68.66	90.58	10.98	10.00 (m)	Pass
1100.00	1099.92	-9.60	0.00	1099.55	1100.37	-11.73	101.29	91.20	101.32	32.81	68.51	89.44	9.88	10.00 (m)	Pass
1200.00	1199.90	-11.34	0.00	1199.93	1200.73	-13.84	100.55	91.41	100.59	32.81	67.78	87.71	8.93	10.00 (m)	Pass
1300.00	1299.89	-13.09	0.00	1299.97	1300.74	-16.12	99.65	91.73	99.70	32.81	66.89	86.11	8.21	10.00 (m)	Pass
1400.00	1399.87	-14.83	0.00	1397.96	1398.70	-18.61	99.48	92.19	99.58	32.81	66.75	85.38	7.81	10.00 (m)	Pass
1500.00	1499.86	-16.58	0.00	1494.13	1494.78	-21.31	102.22	92.70	102.45	32.81	66.64	87.69	7.69	10.00 (m)	Pass
1600.00	1599.83	-18.11	-1.73	1589.39	1589.78	-23.84	108.76	93.06	111.09	32.81	78.29	95.73	7.98	10.00 (m)	Pass
1700.00	1699.68	-19.20	-6.92	1684.55	1684.39	-25.48	118.81	92.97	126.82	32.81	94.01	110.82	8.73	10.00 (m)	Pass
1800.00	1799.30	-19.86	-15.57	1777.25	1776.20	-25.38	131.55	92.25	149.03	32.81	116.22	132.40	9.84	10.00 (m)	Pass
1900.00	1898.56	-20.08	-27.66	1868.58	1866.18	-24.04	147.04	91.34	177.73	32.81	144.92	160.44	11.26	10.00 (m)	Pass
2000.00	1997.44	-19.94	-42.59	1960.17	1956.08	-22.16	164.48	90.61	211.17	32.81	178.36	193.19	12.83	10.00 (m)	Pass
2100.00	2096.27	-19.77	-57.80	2052.72	2046.76	-20.07	182.92	90.05	245.76	32.81	212.95	227.05	14.31	10.00 (m)	Pass
2200.00	2195.11	-19.59	-73.01	2144.62	2136.69	-18.09	201.71	89.64	280.87	32.81	248.06	261.41	15.68	10.00 (m)	Pass
2300.00	2293.95	-19.42	-88.22	2236.61	2226.60	-16.16	221.06	89.34	316.55	32.81	283.74	296.33	16.95	10.00 (m)	Pass
2400.00	2392.78	-19.24	-103.44	2328.32	2316.15	-14.10	240.75	89.07	352.65	32.81	319.84	331.64	18.13	10.00 (m)	Pass
2500.00	2491.62	-19.07	-118.65	2428.82	2414.38	-12.15	261.90	88.88	388.37	32.81	355.56	366.44	19.07	10.00 (m)	Pass
2600.00	2590.45	-18.89	-133.86	2523.65	2507.37	-11.24	280.46	88.87	422.64	33.35	389.29	399.85	19.92	OSF1.50	Pass
2700.00	2689.29	-18.71	-149.07	2616.21	2598.09	-10.63	298.78	88.89	457.11	34.61	422.50	433.48	20.73	OSF1.50	Pass
2800.00	2788.13	-18.54	-164.28	2721.51	2701.47	-10.17	318.78	88.94	490.84	36.10	454.74	466.23	21.30	OSF1.50	Pass
2900.00	2886.96	-18.36	-179.49	2818.84	2797.33	-10.09	335.67	89.02	522.97	37.47	485.50	497.44	21.83	OSF1.50	Pass
3000.00	2985.80	-18.19	-194.71	2912.93	2890.01	-10.05	351.85	89.09	554.95	38.80	516.15	528.53	22.34	OSF1.50	Pass
3100.00	3084.64	-18.01	-209.92	3004.18	2979.85	-10.04	367.87	89.15	587.27	40.10	547.17	559.98	22.85	OSF1.50	Pass
3200.00	3183.47	-17.84	-225.13	3096.11	3070.27	-10.05	384.47	89.21	620.07	41.42	578.65	591.90	23.33	OSF1.50	Pass
3300.00	3282.31	-17.66	-240.34	3187.13	3159.71	-10.08	401.32	89.27	653.31	42.74	610.57	624.26	23.79	OSF1.50	Pass
3400.00	3381.14	-17.48	-255.55	3277.93	3248.86	-10.08	418.58	89.31	687.03	44.06	642.96	657.10	24.24	OSF1.50	Pass
3500.00	3479.98	-17.31	-270.76	3391.07	3360.14	-10.35	438.98	89.39	719.83	45.74	674.09	688.78	24.43	OSF1.50	Pass
3600.00	3578.82	-17.13	-285.97	3493.49	3461.23	-10.87	455.41	89.47	750.67	47.24	703.43	718.63	24.64	OSF1.50	Pass
3700.00	3677.65	-16.96	-301.19	3591.87	3558.43	-11.43	470.59	89.55	780.95	48.69	732.26	747.94	24.85	OSF1.50	Pass
3800.00	3776.49	-16.78	-316.40	3684.92	3650.39	-11.88	484.79	89.61	811.06	50.07	760.99	777.13	25.07	OSF1.50	Pass
3900.00	3875.32	-16.61	-331.61	3770.29	3734.62	-11.28	498.64	89.59	842.10	51.35	790.75	807.32	25.37	OSF1.50	Pass
4000.00	3974.16	-16.43	-346.82	3865.37	3828.36	-9.50	514.51	89.50	873.61	52.77	820.84	837.88	25.58	OSF1.50	Pass
4100.00	4073.00	-16.26	-362.03	3958.17	3919.84	-7.46	529.96	89.39	905.09	54.17	850.93	868.43	25.80	OSF1.50	Pass
4200.00	4171.83	-16.08	-377.24	4039.30	3999.68	-6.14	544.28	89.33	937.52	55.39	882.13	900.04	26.12	OSF1.50	Pass
4300.00	4270.67	-15.90	-392.46	4129.97	4088.77	-5.37	561.09	89.31	970.80	56.76	914.04	932.41	26.38	OSF1.50	Pass
4400.00	4369.50	-15.73	-407.67	4223.43	4180.57	-5.56	578.64	89.36	1004.29	58.19	946.11	964.95	26.60	OSF1.50	Pass
4500.00	4468.34	-15.55	-422.88	4314.21	4269.70	-6.02	595.87	89.41	1037.98	59.58	978.41	997.71	26.84	OSF1.50	Pass
4600.00	4567.18	-15.38	-438.09	4425.14	4378.77	-5.17	616.08	89.40	1070.93	61.27	1009.65	1029.53	26.90	OSF1.50	Pass
4700.00	4666.01	-15.20	-453.30	4511.77	4463.99	-4.85	631.62	89.40	1103.62	62.60	1041.03	1061.34	27.12	OSF1.50	Pass
4800.00	4764.85	-15.03	-468.51	4597.10	4547.80	-5.80	647.59	89.48	1137.05	63.91	1073.13	1093.89	27.35	OSF1.50	Pass
4900.00	4863.69	-14.85	-483.73	4684.14	4633.17	-7.91	664.47	89.61	1171.13	65.25	1105.87	1127.07	27.58	OSF1.50	Pass
5000.00	4962.52	-14.67	-498.94	4816.12	4762.85	-12.40	688.50	89.86	1204.11	67.28	1136.84	1158.71	27.49	OSF1.50	Pass
5100.00	5061.36	-14.50	-514.15	4944.65	4889.86	-15.84	707.94	90.04	1234.06	69.19	1164.87	1187.39	27.37	OSF1.50	Pass
5200.00	5160.19	-14.32	-529.36	5054.39	4998.62	-18.11	722.35	90.16	1262.10	70.41	1191.69	1214.64	27.46	OSF1.50	Pass
5300.00	5259.03	-14.15	-544.57	5122.59	5066.16	-19.01	731.80	90.20	1290.87	71.07	1219.80	1242.98	27.82	OSF1.50	Pass
5400.00	5357.87	-13.97	-559.78	5193.83	5136.49	-19.42	743.12	90.22	1321.59	71.75	1249.84	1273.24	28.20	OSF1.50	Pass
5500.00	5456.70	-13.80	-574.99	5283.57	5224.87	-19.75	758.65	90.24	1353.66	72.58	1281.08	1304.76	28.55	OSF1.50	Pass
5600.00	5555.54	-13.62	-590.21	5375.20	5315.17	-19.87	774.21	90.18	1385.44	73.45	1312.00	1335.97	28.87	OSF1.50	Pass
5700.00	5654.37	-13.45	-605.42	5466.80	5405.31	-18.31	790.41	90.18	1417.88	74.33	1343.55	1367.81	29.19	OSF1.50	Pass
5800.00	5753.21	-13.27	-620.63	5567.04	5504.02	-16.48	807.76	90.11	1449.97	75.31	1374.66	1399.25	29.45	OSF1.50	Pass
5900.00	5852.05	-13.09	-635.84	5664.52	5600.05	-14.61	824.43	90.04	1481.86	76.29	1405.57	1430.49	29.71	OSF1.50	Pass
6000.00	5950.88	-12.92	-651.05	5773.87	5707.84	-12.21	842.64	89.95	1513.33	77.39	1435.94	1461.22	29.90	OSF1.50	Pass
6100.00	6049.72	-12.74	-666.26	5900.37	5832.89	-9.52	861.57	89.85	1543.15	78.65	1464.50	1490.20	29.99	OSF1.50	Pass
6200.00	6148.55	-12.57	-681.48	5993.83	5925.38	-7.36	874.81	89.78	1572.22	79.65	1494.57	1518.60	30.16	OSF1.50	Pass

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Coterra Dos Equis 11-14 Federal Com 5H Corrected MWD to 20508ft

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
6300.00	6247.39	-12.39	-696.69	6100.99	6031.48	-4.79	889.65	89.69	1600.98	80.78	1520.20	1546.61	30.28	OSF1.50	Pass
6400.00	6346.23	-12.22	-711.90	6203.65	6133.22	-2.38	903.14	89.62	1629.05	81.89	1547.16	1573.94	30.38	OSF1.50	Pass
6500.00	6445.06	-12.04	-727.11	6296.87	6225.59	-0.04	915.42	89.55	1657.17	82.93	1574.24	1601.37	30.51	OSF1.50	Pass
6600.00	6543.90	-11.87	-742.32	6399.47	6327.27	2.72	928.88	89.46	1685.25	84.07	1601.18	1628.69	30.60	OSF1.50	Pass
6700.00	6642.74	-11.69	-757.53	6510.66	6437.59	4.53	942.66	89.42	1712.60	85.29	1627.31	1655.22	30.64	OSF1.50	Pass
6800.00	6741.57	-11.51	-772.75	6651.84	6577.94	5.52	957.85	89.40	1738.40	86.76	1651.64	1680.04	30.57	OSF1.50	Pass
6900.00	6840.41	-11.34	-787.96	6801.36	6726.92	4.90	970.47	89.44	1762.16	88.27	1673.89	1702.80	30.45	OSF1.50	Pass
7000.00	6939.24	-11.16	-803.17	6909.43	6834.80	4.24	976.80	89.48	1783.10	89.49	1693.61	1722.92	30.38	OSF1.50	Pass
7100.00	7038.08	-10.99	-818.38	7060.61	6985.85	3.43	982.71	89.52	1801.91	90.98	1710.93	1740.74	30.19	OSF1.50	Pass
7200.00	7136.92	-10.81	-833.59	7160.01	7085.21	2.81	985.62	89.55	1820.00	92.17	1727.83	1758.04	30.10	OSF1.50	Pass
7300.00	7235.75	-10.64	-848.80	7257.35	7182.50	1.88	988.37	89.59	1837.99	93.35	1744.64	1775.24	30.00	OSF1.50	Pass
7400.00	7334.59	-10.46	-864.01	7351.47	7306.58	0.92	991.35	89.63	1855.65	94.70	1760.95	1792.00	29.86	OSF1.50	Pass
7500.00	7433.42	-10.28	-879.23	7493.21	7418.31	1.24	992.58	89.63	1871.91	95.98	1775.93	1807.41	29.71	OSF1.50	Pass
7600.00	7532.26	-10.11	-894.44	7586.98	7512.08	1.57	993.46	89.63	1888.04	97.17	1790.87	1822.75	29.59	OSF1.50	Pass
7700.00	7631.10	-9.93	-909.65	7702.40	7627.49	1.90	994.65	89.63	1904.34	98.49	1805.86	1838.17	29.44	OSF1.50	Pass
7800.00	7729.93	-9.76	-924.86	7833.14	7758.22	1.64	993.21	89.65	1918.32	99.86	1818.46	1851.23	29.24	OSF1.50	Pass
7900.00	7828.77	-9.58	-940.07	7937.83	7862.90	1.48	991.54	89.66	1931.95	101.10	1830.84	1864.03	29.08	OSF1.50	Pass
8000.00	7927.60	-9.41	-955.28	8039.11	7964.16	1.02	989.69	89.68	1945.34	102.34	1843.00	1876.60	28.93	OSF1.50	Pass
8100.00	8026.44	-9.23	-970.50	8133.97	8059.01	0.39	988.01	89.71	1958.80	103.56	1855.24	1889.25	28.78	OSF1.50	Pass
8200.00	8125.28	-9.06	-985.71	8226.99	8152.01	-0.40	986.61	89.74	1972.52	104.77	1867.75	1902.16	28.64	OSF1.50	Pass
8300.00	8224.15	-8.88	-1000.68	8324.13	8249.14	-1.34	985.35	89.78	1986.20	106.01	1880.19	1915.01	28.50	OSF1.50	Pass
8400.00	8323.40	-8.74	-1012.88	8422.88	8347.87	-2.45	984.15	89.82	1997.18	107.26	1889.93	1925.16	28.32	OSF1.50	Pass
8500.00	8423.01	-8.64	-1021.60	8530.18	8455.15	-3.94	982.57	89.86	2004.43	108.55	1895.88	1931.55	28.08	OSF1.50	Pass
8600.00	8522.87	-8.58	-1026.84	8624.50	8549.45	-5.40	981.16	89.91	2008.18	109.75	1898.43	1934.50	27.82	OSF1.50	Pass
8700.00	8622.85	-8.56	-1028.60	8715.42	8640.36	-4.84	980.19	89.89	2008.86	110.93	1897.94	1934.40	27.53	OSF1.50	Pass
8800.00	8722.85	-8.56	-1028.60	8813.19	8738.12	-3.53	979.42	89.86	2008.09	112.10	1895.99	1932.84	27.22	OSF1.50	Pass
8900.00	8822.85	-8.56	-1028.60	8914.92	8839.84	-2.13	978.57	89.82	2007.25	113.30	1893.95	1931.20	26.92	OSF1.50	Pass
9000.00	8922.85	-8.56	-1028.60	9014.40	8939.31	-0.98	977.76	89.78	2006.44	114.50	1891.95	1929.60	26.62	OSF1.50	Pass
9100.00	9022.85	-8.56	-1028.60	9117.51	9042.41	-0.32	976.84	89.76	2005.55	115.72	1889.84	1927.89	26.33	OSF1.50	Pass
9200.00	9122.85	-8.56	-1028.60	9211.53	9136.42	-0.31	975.96	89.76	2004.62	116.89	1887.73	1926.18	26.05	OSF1.50	Pass
9300.00	9222.85	-8.56	-1028.60	9336.74	9261.62	-1.28	974.81	89.79	2003.80	118.27	1885.53	1924.44	25.73	OSF1.50	Pass
9400.00	9322.85	-8.56	-1028.60	9457.79	9382.63	-1.34	971.60	89.79	2001.11	119.61	1881.50	1920.85	25.40	OSF1.50	Pass
9500.00	9422.85	-8.56	-1028.60	9541.19	9465.95	1.21	969.46	89.72	1998.54	120.74	1877.80	1917.54	25.13	OSF1.50	Pass
9600.00	9522.85	-8.56	-1028.60	9633.98	9558.66	4.53	967.64	89.62	1996.60	121.94	1874.67	1914.80	24.86	OSF1.50	Pass
9700.00	9622.85	-8.56	-1028.60	9749.25	9673.88	6.98	964.91	89.55	1994.22	123.27	1870.95	1911.53	24.55	OSF1.50	Pass
9800.00	9722.85	-8.56	-1028.60	9837.21	9761.78	9.38	962.89	89.48	1991.95	124.45	1867.51	1908.48	24.29	OSF1.50	Pass
9900.00	9822.85	-8.56	-1028.60	9924.60	9849.14	11.36	961.47	89.43	1990.34	125.62	1864.72	1906.08	24.04	OSF1.50	Pass
10000.00	9922.85	-8.56	-1028.60	10019.42	9943.93	13.20	960.35	89.37	1989.18	126.85	1862.33	1904.10	23.79	OSF1.50	Pass
10100.00	10022.85	-8.56	-1028.60	10124.59	10049.07	14.87	959.14	89.32	1988.06	128.15	1859.91	1902.11	23.54	OSF1.50	Pass
10200.00	10122.85	-8.56	-1028.60	10248.16	10172.58	12.06	956.90	89.40	1986.23	129.24	1856.99	1899.59	23.30	OSF1.50	Pass
10300.00	10222.85	-8.56	-1028.60	10383.87	10306.61	-7.53	952.19	89.97	1982.56	130.14	1852.42	1895.32	23.09	OSF1.50	Pass
10400.00	10322.85	-8.56	-1028.60	10455.37	10375.12	-27.70	949.42	90.55	1978.80	130.97	1847.83	1891.01	22.90	OSF1.50	Pass
10456.30	10379.15	-8.56	-1028.60	10484.00	10402.07	-37.34	948.79	90.83	1977.73	131.19	1846.54	1889.79	22.85	OSF1.50	Pass
10500.00	10422.81	-10.22	-1028.71	10506.09	10422.66	-45.34	948.54	91.03	1977.56	131.14	1846.42	1889.65	22.85	OSF1.50	Pass
10600.00	10521.95	-26.45	-1029.74	10557.85	10469.93	-66.39	948.75	91.60	1976.55	131.01	1846.35	1889.58	22.90	OSF1.50	Pass
10700.00	10615.57	-59.51	-1031.86	10609.84	10515.52	-91.32	950.03	92.36	1984.66	130.86	1853.80	1896.94	22.98	OSF1.50	Pass
10800.00	10702.60	-108.39	-1034.98	10766.33	10632.90	-193.61	951.97	93.80	1990.00	131.19	1858.81	1902.06	22.99	OSF1.50	Pass
10900.00	10779.81	-171.61	-1039.02	10853.88	10681.89	-265.97	950.39	94.95	1994.05	131.26	1862.79	1906.07	23.02	OSF1.50	Pass
11000.00	10844.85	-247.25	-1043.85	10912.66	10705.59	-319.69	949.40	95.99	1999.43	131.24	1868.19	1911.45	23.09	OSF1.50	Pass
11100.00	10895.73	-333.02	-1049.33	10957.85	10718.24	-363.05	949.28	97.03	2006.70	131.23	1875.47	1918.73	23.18	OSF1.50	Pass
11200.00	10930.92	-426.30	-1055.29	11001.59	10725.73	-406.12	949.86	98.17	2015.72	131.29	1884.44	1927.72	23.27	OSF1.50	Pass
11300.00	10953.24	-523.60	-1060.50	11042.86	10729.43	-447.19	951.24	97.84	2025.59	131.41	1894.18	1937.50	23.36	OSF1.50	Pass
11400.00	10967.26	-622.53	-1063.52	11083.77	10730.23	-488.03	953.46	97.31	2035.31	131.60	1903.71	1947.10	23.44	OSF1.50	Pass
11500.00	10972.89	-722.34	-1064.33	11207.36	10729.59	-611.39	960.76	96.64	2042.67	132.14	1910.53	1954.10	23.43	OSF1.50	Pass
11600.00	10973.23	-822.34	-1063.75	11310.57	10729.57	-714.46	966.30	96.49	2047.47	132.72	1914.75	1958.51	23.38	OSF1.50	Pass
11700.00	10973.49	-922.34	-1063.15	11409.26	10729.66	-813.01	971.54	96.48	2052.16	133.36	1918.80	1962.78	23.32	OSF1.50	Pass
11800.00	10973.75	-1022.33	-1062.55	11597.62	10729.59	-1001.22	977.99	96.48	2055.21	134.57	1920.64	1965.01	23.14	OSF1.50	Pass
11900.00	10974.02	-1122.33	-1061.95	11706.09	10729.65	-1109.69	978.97	96.48	2055.54	135.46	1920.08	1964.75	22.99	OSF1.50	Pass
12000.00	10974.28	-1222.33	-1061.35	11803.50	10730.33	-1207.09	979.57	96.47	2055.50	136.36	1919.14	1964.11	22.84	OSF1.50	Pass
12100.00	10974.54	-1322.33	-1060.75	11895.40	10730.69	-1298.99	980.52	96.47	2055.91	137.29	1918.62	1963.91	22.68	OSF1.50	Pass
12200.00	10974.80	-1422.33	-1060.15	11991.74	10731.60	-1395.32	981.83	96.45	2056.59	138.32	1918.27	1963.90	22.52	OSF1.50	Pass
12300.00	10975.06	-1522.33	-1059.55	12111.05	10732.69	-1514.62	983.18	96.42	2057.07	139.60	1917.47	1963.53	22.32	OSF1.50	Pass
12400.00	10975.33	-1622.33	-1058.95	12202.69	10733.48	-1606.25	983.71	96.41	2056.96	140.72	1916.27	1962.69	22.14	OSF1.50	Pass
12500.00	10975.59	-1722.33	-1058.34	12307.70	10734.10	-1711.25	984.56	96.40	2057.16	142.01	1915.15	1962.01	21.94	OSF1.50	Pass
12600.00	10975.85	-1822.33	-1057.74	12397.86	10734.86	-1801.40	985.33	96.38	2057.35	143.23	1914.11	1961.38	21.75	OSF1.50	Pass
12700.00	10976.11	-1922.33	-1057.14	12507.01	10735.81	-1910.55	986.36	96.36	2057.62	144.69	1912.92	1960.67	21.53	OSF1.50	Pass
12800.00	109														

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Coterra Dos Equis 11-14 Federal Com 5H Corrected MWD to 20508ft

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
14700.00	10981.35	-3922.27	-1045.12	14493.94	10753.89	-3897.28	1004.96	95.99	2062.82	182.04	1880.78	1940.98	17.12	OSF1.50	Pass
14800.00	10981.61	-4022.27	-1044.52	14597.22	10754.83	-4000.55	1006.19	95.97	2063.32	184.36	1878.97	1939.94	16.91	OSF1.50	Pass
14900.00	10981.87	-4122.27	-1043.92	14687.76	10755.72	-4091.08	1007.50	95.94	2064.08	186.49	1877.59	1939.27	16.72	OSF1.50	Pass
15000.00	10982.14	-4222.26	-1043.32	14793.66	10756.88	-4196.96	1009.04	95.92	2064.84	188.91	1875.93	1938.42	16.51	OSF1.50	Pass
15100.00	10982.40	-4322.26	-1042.72	14896.44	10757.93	-4299.73	1010.42	95.89	2065.50	191.30	1874.20	1937.49	16.31	OSF1.50	Pass
15200.00	10982.66	-4422.26	-1042.12	15001.19	10758.96	-4404.47	1011.45	95.87	2065.79	193.76	1872.03	1936.14	16.10	OSF1.50	Pass
15300.00	10982.92	-4522.26	-1041.52	15092.04	10759.69	-4495.31	1012.48	95.86	2066.27	195.99	1870.28	1935.13	15.92	OSF1.50	Pass
15400.00	10983.18	-4622.26	-1040.92	15185.98	10760.45	-4589.24	1014.04	95.84	2067.25	198.30	1868.95	1934.57	15.74	OSF1.50	Pass
15500.00	10983.45	-4722.25	-1040.32	15286.39	10761.39	-4689.62	1015.66	95.82	2068.19	200.75	1867.45	1933.88	15.55	OSF1.50	Pass
15600.00	10983.71	-4822.25	-1039.71	15384.90	10762.13	-4788.12	1017.41	95.80	2069.31	203.18	1866.12	1933.37	15.37	OSF1.50	Pass
15700.00	10983.97	-4922.25	-1039.11	15490.88	10763.04	-4894.08	1019.13	95.78	2070.26	205.77	1864.48	1932.60	15.19	OSF1.50	Pass
15800.00	10984.23	-5022.25	-1038.51	15593.42	10763.65	-4996.61	1020.49	95.77	2070.95	208.32	1862.63	1931.59	15.01	OSF1.50	Pass
15900.00	10984.49	-5122.25	-1037.91	15692.29	10764.32	-5095.46	1021.82	95.76	2071.63	210.82	1860.82	1930.61	14.83	OSF1.50	Pass
16000.00	10984.76	-5222.24	-1037.31	15814.18	10765.41	-5217.35	1023.01	95.73	2071.97	213.75	1858.21	1928.98	14.63	OSF1.50	Pass
16100.00	10985.02	-5322.24	-1036.71	15923.94	10766.60	-5327.10	1023.09	95.71	2071.36	216.49	1854.87	1926.55	14.44	OSF1.50	Pass
16200.00	10985.28	-5422.24	-1036.11	16022.84	10767.50	-5426.00	1022.95	95.69	2070.35	219.04	1851.50	1924.04	14.26	OSF1.50	Pass
16300.00	10985.54	-5522.24	-1035.51	16120.48	10768.21	-5523.64	1022.98	95.68	2069.93	221.59	1848.34	1921.73	14.09	OSF1.50	Pass
16400.00	10985.80	-5622.23	-1034.91	16224.71	10769.15	-5627.86	1022.78	95.67	2069.07	224.28	1844.80	1919.08	13.92	OSF1.50	Pass
16500.00	10986.07	-5722.23	-1034.31	16314.44	10769.64	-5717.59	1022.80	95.66	2068.46	226.71	1841.75	1916.84	13.76	OSF1.50	Pass
16600.00	10986.33	-5822.23	-1033.70	16411.51	10769.68	-5814.65	1023.26	95.67	2068.36	229.29	1839.06	1915.02	13.61	OSF1.50	Pass
16700.00	10986.59	-5922.23	-1033.10	16523.29	10769.56	-5926.44	1023.19	95.68	2067.72	232.16	1835.56	1912.47	13.43	OSF1.50	Pass
16800.00	10986.85	-6022.23	-1032.50	16626.81	10769.47	-6029.96	1022.93	95.69	2066.90	234.89	1832.02	1909.84	13.27	OSF1.50	Pass
16900.00	10987.11	-6122.22	-1031.90	16717.46	10769.22	-6120.61	1022.63	95.71	2066.05	237.39	1828.67	1907.32	13.13	OSF1.50	Pass
17000.00	10987.38	-6222.22	-1031.30	16813.49	10767.36	-6216.61	1022.76	95.77	2065.82	240.00	1825.83	1905.35	12.98	OSF1.50	Pass
17100.00	10987.64	-6322.22	-1030.70	16915.65	10765.64	-6318.76	1022.74	95.83	2065.41	242.73	1822.68	1903.11	12.83	OSF1.50	Pass
17200.00	10987.90	-6422.22	-1030.10	17021.00	10764.06	-6424.09	1022.67	95.88	2064.94	245.54	1819.39	1900.76	12.68	OSF1.50	Pass
17300.00	10988.16	-6522.22	-1029.50	17117.20	10762.52	-6520.28	1022.44	95.93	2064.31	248.19	1816.12	1898.37	12.54	OSF1.50	Pass
17400.00	10988.42	-6622.21	-1028.90	17239.21	10760.35	-6642.27	1021.75	96.00	2063.39	251.33	1812.06	1895.36	12.38	OSF1.50	Pass
17500.00	10988.69	-6722.21	-1028.30	17336.04	10759.67	-6739.09	1020.79	96.04	2061.92	254.02	1807.90	1892.09	12.24	OSF1.50	Pass
17600.00	10988.95	-6822.21	-1027.69	17432.15	10759.63	-6835.20	1020.16	96.05	2060.69	256.71	1803.99	1889.08	12.10	OSF1.50	Pass
17700.00	10989.21	-6922.21	-1027.09	17537.02	10766.65	-7039.83	1014.66	95.89	2057.21	261.23	1795.98	1882.58	11.87	OSF1.50	Pass
17800.00	10989.47	-7022.20	-1026.49	17631.37	10768.53	-7114.05	1010.76	95.85	2051.26	263.63	1787.63	1875.03	11.73	OSF1.50	Pass
17900.00	10989.73	-7122.20	-1025.89	17756.74	10769.33	-7159.39	1009.41	95.84	2047.54	265.51	1782.03	1870.06	11.62	OSF1.50	Pass
18000.00	10990.00	-7222.20	-1025.29	17824.52	10770.36	-7227.16	1009.20	95.82	2046.32	267.71	1778.61	1867.36	11.52	OSF1.50	Pass
18100.00	10990.26	-7322.20	-1024.69	17945.27	10772.50	-7347.89	1008.56	95.77	2045.04	270.92	1774.13	1863.95	11.38	OSF1.50	Pass
18200.00	10990.52	-7422.20	-1024.09	18041.02	10774.45	-7443.62	1007.48	95.73	2043.14	273.66	1769.47	1860.22	11.25	OSF1.50	Pass
18300.00	10990.78	-7522.19	-1023.49	18121.42	10776.07	-7524.00	1007.14	95.69	2041.95	276.12	1765.84	1857.40	11.14	OSF1.50	Pass
18400.00	10991.04	-7622.19	-1022.89	18248.23	10777.65	-7650.79	1007.06	95.66	2041.33	279.47	1761.87	1854.54	11.01	OSF1.50	Pass
18500.00	10991.31	-7722.19	-1022.29	18321.19	10778.11	-7723.75	1006.43	95.66	2039.89	281.79	1758.10	1851.55	10.91	OSF1.50	Pass
18600.00	10991.57	-7822.19	-1021.68	18425.43	10779.66	-7827.98	1006.77	95.62	2039.50	284.73	1754.77	1849.20	10.79	OSF1.50	Pass
18700.00	10991.83	-7922.19	-1021.08	18509.55	10780.05	-7912.09	1006.78	95.62	2038.92	287.27	1751.65	1846.93	10.69	OSF1.50	Pass
18800.00	10992.09	-8022.18	-1020.48	18649.84	10780.06	-8052.38	1006.30	95.63	2038.07	290.92	1747.16	1843.65	10.55	OSF1.50	Pass
18900.00	10992.35	-8122.18	-1019.88	18738.02	10780.14	-8140.55	1004.84	95.64	2035.90	293.56	1742.33	1839.71	10.45	OSF1.50	Pass
19000.00	10992.61	-8222.18	-1019.28	18790.79	10780.26	-8193.31	1004.99	95.64	2035.58	295.48	1740.10	1836.12	10.38	OSF1.50	Pass
19100.00	10992.88	-8322.18	-1018.68	18894.65	10780.81	-8297.16	1006.72	95.63	2036.62	298.45	1738.17	1837.18	10.28	OSF1.50	Pass
19200.00	10993.14	-8422.17	-1018.08	18987.95	10781.27	-8390.45	1008.06	95.62	2037.43	301.20	1736.23	1836.15	10.19	OSF1.50	Pass
19300.00	10993.40	-8522.17	-1017.48	19064.57	10781.29	-8467.05	1009.70	95.62	2038.99	303.57	1735.42	1836.13	10.12	OSF1.50	Pass
19400.00	10993.66	-8622.17	-1016.88	19181.71	10781.11	-8584.15	1012.47	95.63	2040.80	306.87	1733.93	1835.74	10.02	OSF1.50	Pass
19500.00	10993.92	-8722.17	-1016.28	19279.53	10780.07	-8681.96	1014.11	95.67	2042.02	309.73	1732.29	1835.09	9.93	OSF1.50	Pass
19600.00	10994.19	-8822.17	-1015.68	19364.86	10778.90	-8767.25	1016.15	95.70	2043.94	312.31	1731.63	1835.25	9.86	OSF1.50	Pass
19700.00	10994.45	-8922.16	-1015.07	19480.40	10777.15	-8882.76	1018.26	95.75	2045.29	315.58	1729.70	1834.42	9.76	OSF1.50	Pass
19800.00	10994.71	-9022.16	-1014.47	19571.94	10775.88	-8974.27	1020.21	95.79	2046.97	318.32	1728.66	1834.28	9.68	OSF1.50	Pass
19900.00	10994.97	-9122.16	-1013.87	19667.74	10774.65	-9070.04	1022.33	95.83	2048.75	321.15	1727.60	1834.17	9.61	OSF1.50	Pass
20000.00	10995.23	-9222.16	-1013.27	19761.23	10773.62	-9163.49	1024.82	95.86	2050.94	323.94	1727.01	1834.51	9.53	OSF1.50	Pass
20100.00	10995.50	-9322.16	-1012.67	19912.77	10774.71	-9314.99	1027.69	95.83	2052.28	328.03	1724.25	1833.11	9.42	OSF1.50	Pass
20200.00	10995.76	-9422.15	-1012.07	20010.14	10775.69	-9412.35	1028.12	95.81	2052.05	330.93	1721.12	1830.95	9.34	OSF1.50	Pass
20300.00	10996.02	-9522.15	-1011.47	20103.95	10776.90	-9506.15	1028.97	95.78	2052.24	333.75	1718.48	1829.26	9.26	OSF1.50	Pass
20400.00	10996.28	-9622.15	-1010.87	20203.89	10778.05	-9606.08	1029.69	95.76	2052.25	336.71	1715.54	1827.30	9.18	OSF1.50	Pass
20500.00	10996.54	-9722.15	-1010.27	20303.14	10779.33	-9705.32	1030.89	95.73	2052.75	339.66	1713.09	1825.83	9.10	OSF1.50	Pass
20600.00	10996.81	-9822.14	-1009.67	20421.07	10780.87	-9823.24	1031.41	95.70	2052.46	343.01	1709.46	1823.31	9.01	OSF1.50	Pass
20700.00	10997.07	-9922.14	-1009.06	20508.00	10781.88	-9910.16	1031.60	95.68	2052.01	345.71	1706.30	1821.06	8.93	OSF1.50	Pass
20712.06	10997.10	-9934.20	-1008.99	20508.00	10781.88	-9910.16	1031.60	95.68	2052.05	345.81	1706.24	1821.03	8.93	OSF1.50	Pass

End of results

...Dos Equis 11-14 Federal Com 25Y\Coterra Dos Equis 11-14 Federal Com 25Y Rev0 kFc 16Jun22

Drilling Office 2.10.829.1

Schlumberger-Private

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Field: NM Lea County (NAD 83)
 Structure: Cimarex Dos Equis 11-14 Federal Com 49H
 Slot: New Slot
 Client: Cimarex Energy
 Coordinate System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 North Reference: Grid
 Grid Convergence Angle: 0.36723508°
 Well: Dos Equis 11-14 Federal Com 49H
 Borehole: Dos Equis 11-14 Federal Com 49H
 Trajectory: Cimarex Dos Equis 11-14 Federal Com 49H Rev0 RM 22Aug19
 Type: Non-Def Plan
 Grid Scale Factor: 0.999960976
 Magnetic Declination: 6.673°
 Reference Point: 451123.890 (ftUS)
 Magnetic Declination Date: August 22, 2019
 Magnetic Model: HDGM 2019
 Easting: 754181.940 (ftUS)
 Elevation: 3634.100 (ft) MSL
 Structure Unc.: 0.000 (ft) (3 sigma)
 Slot Unc.: 0.000 (ft) (3 sigma)

Trajectory Error Model: ISCSWA0 3-D 95.000% Confidence 2.7955 sigma

Surveying Prog: While Drilling

Description

Part

MD From (ft)

MD To (ft)

EOU Freq (ft)

Survey Tool Type

Hole Size (in)

Casing Diameter (in)

Borehole / Survey

1

0.000

26.000

1/100.000

A001Mb_MWD-Depth Only

30.000

30.000 uis 11-14 Federal Com 49H Rev0 RM 22Aug19

1

26.000

22180.832

1/100.000

A001Mb_MWD

30.000

30.000 uis 11-14 Federal Com 49H Rev0 RM 22Aug19

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
All local minima indicated.															
0.00	0.00	0.00	0.00	0.00	6.50	164.28	1123.44	81.68	1135.40	32.81	1102.59	1132.90	N/A	10.00 (m)	Pass
100.00	100.00	0.00	0.00	93.50	100.00	164.28	1123.44	81.68	1135.38	32.81	1102.58	1132.52	3099.68	10.00 (m)	Pass
200.00	200.00	0.00	0.00	193.50	200.00	164.28	1123.44	81.68	1135.38	32.81	1102.58	1131.53	838.50	10.00 (m)	Pass
300.00	300.00	0.00	0.00	293.50	300.00	164.28	1123.44	81.68	1135.38	32.81	1102.58	1130.53	481.47	10.00 (m)	Pass
400.00	400.00	0.00	0.00	393.50	400.00	164.28	1123.44	81.68	1135.38	32.81	1102.58	1129.53	337.67	10.00 (m)	Pass
500.00	500.00	0.00	0.00	493.50	500.00	164.28	1123.44	81.68	1135.38	32.81	1102.58	1128.53	260.01	10.00 (m)	Pass
600.00	599.99	-0.87	0.00	593.49	599.99	164.28	1123.44	81.64	1135.51	32.81	1102.70	1127.68	212.37	10.00 (m)	Pass
700.00	699.98	-2.62	0.00	693.48	699.98	164.28	1123.44	81.55	1135.77	32.81	1102.96	1126.97	179.86	10.00 (m)	Pass
800.00	799.96	-4.36	0.00	793.46	799.96	164.28	1123.44	81.46	1136.02	32.81	1103.22	1126.25	155.77	10.00 (m)	Pass
900.00	899.95	-6.11	0.00	893.45	899.95	164.28	1123.44	81.38	1136.28	32.81	1103.48	1125.52	137.27	10.00 (m)	Pass
1000.00	899.93	-7.85	0.00	993.43	999.93	164.28	1123.44	81.29	1136.55	32.81	1103.74	1124.80	122.64	10.00 (m)	Pass
1100.00	1099.92	-9.60	0.00	1093.42	1099.92	164.28	1123.44	81.20	1136.81	32.81	1104.00	1124.07	110.80	10.00 (m)	Pass
1200.00	1199.90	-11.34	0.00	1193.40	1199.90	164.28	1123.44	81.12	1137.08	32.81	1104.27	1123.35	101.02	10.00 (m)	Pass
1300.00	1299.89	-13.09	0.00	1293.39	1299.89	164.28	1123.44	81.03	1137.35	32.81	1104.54	1122.63	92.82	10.00 (m)	Pass
1400.00	1399.87	-14.83	0.00	1393.37	1399.87	164.28	1123.44	80.94	1137.63	32.81	1104.82	1121.90	85.85	10.00 (m)	Pass
1500.00	1499.86	-16.58	0.00	1493.36	1499.86	164.28	1123.44	80.86	1137.90	32.81	1105.09	1121.18	79.85	10.00 (m)	Pass
1506.20	1506.06	-16.69	-0.01	1499.56	1506.06	164.28	1123.44	80.85	1137.92	32.81	1105.12	1121.14	79.50	10.00 (m)	Pass
1600.00	1599.83	-18.11	-1.73	1593.33	1599.83	164.28	1123.44	80.80	1139.85	32.81	1107.05	1122.14	74.75	10.00 (m)	Pass
1700.00	1699.68	-19.20	-6.92	1693.18	1699.68	164.28	1123.44	80.78	1145.16	32.81	1112.35	1126.45	70.51	10.00 (m)	Pass
1800.00	1799.30	-19.86	-15.57	1792.80	1799.30	164.28	1123.44	80.78	1153.80	32.81	1120.99	1134.10	66.96	10.00 (m)	Pass
1900.00	1898.56	-20.08	-27.66	1892.06	1898.56	164.28	1123.44	80.81	1165.77	32.81	1132.96	1145.09	63.98	10.00 (m)	Pass
2000.00	1997.44	-19.94	-42.59	1990.94	1997.44	164.28	1123.44	80.91	1180.49	32.81	1147.68	1158.82	61.46	10.00 (m)	Pass
2100.00	2096.27	-19.77	-57.80	2089.77	2096.27	164.28	1123.44	81.03	1195.49	32.81	1162.68	1172.84	59.21	10.00 (m)	Pass
2200.00	2195.11	-19.59	-73.01	2188.61	2195.11	164.28	1123.44	81.15	1210.50	34.20	1176.29	1186.86	57.15	OSF1.50	Pass
2300.00	2293.95	-19.42	-88.22	2287.45	2293.95	164.28	1123.44	81.27	1225.51	35.69	1189.82	1200.88	55.28	OSF1.50	Pass
2400.00	2392.78	-19.24	-103.44	2386.28	2392.78	164.28	1123.44	81.39	1240.52	37.17	1203.35	1214.91	53.56	OSF1.50	Pass
2500.00	2491.62	-19.07	-118.65	2485.12	2491.62	164.28	1123.44	81.50	1255.54	38.66	1216.88	1228.93	51.98	OSF1.50	Pass
2600.00	2590.45	-18.89	-133.86	2583.95	2590.45	164.28	1123.44	81.61	1270.57	40.15	1230.41	1242.97	50.51	OSF1.50	Pass
2700.00	2689.29	-18.71	-149.07	2682.79	2689.29	164.28	1123.44	81.71	1285.60	41.65	1243.95	1257.00	49.16	OSF1.50	Pass
2800.00	2788.13	-18.54	-164.28	2781.63	2788.13	164.28	1123.44	81.82	1300.63	43.15	1257.49	1271.03	47.91	OSF1.50	Pass
2900.00	2886.96	-18.36	-179.49	2880.46	2886.96	164.28	1123.44	81.92	1315.67	44.64	1271.03	1285.07	46.74	OSF1.50	Pass
3000.00	2985.80	-18.19	-194.71	2979.30	2985.80	164.28	1123.44	82.02	1330.71	46.14	1284.57	1299.12	45.65	OSF1.50	Pass
3100.00	3084.64	-18.01	-209.92	3078.14	3084.64	164.28	1123.44	82.12	1345.76	47.64	1298.11	1313.16	44.63	OSF1.50	Pass
3200.00	3183.47	-17.84	-225.13	3176.97	3183.47	164.28	1123.44	82.21	1360.81	49.15	1311.66	1327.21	43.68	OSF1.50	Pass
3300.00	3282.31	-17.66	-240.34	3275.81	3282.31	164.28	1123.44	82.31	1375.86	50.65	1325.21	1341.26	42.78	OSF1.50	Pass
3400.00	3381.14	-17.48	-255.55	3374.64	3381.14	164.28	1123.44	82.40	1390.92	52.16	1338.76	1355.31	41.94	OSF1.50	Pass
3500.00	3479.98	-17.31	-270.76	3473.48	3479.98	164.28	1123.44	82.49	1405.98	53.66	1352.31	1369.37	41.15	OSF1.50	Pass
3600.00	3578.82	-17.13	-285.97	3572.32	3578.82	164.28	1123.44	82.57	1421.04	55.17	1365.87	1383.43	40.40	OSF1.50	Pass
3700.00	3677.65	-16.96	-301.19	3671.15	3677.65	164.28	1123.44	82.66	1436.10	56.68	1379.43	1397.49	39.69	OSF1.50	Pass
3800.00	3776.49	-16.78	-316.40	3769.99	3776.49	164.28	1123.44	82.74	1451.17	58.18	1392.99	1411.55	39.02	OSF1.50	Pass
3900.00	3875.32	-16.61	-331.61	3868.82	3875.32	164.28	1123.44	82.82	1466.25	59.69	1406.55	1425.62	38.39	OSF1.50	Pass
4000.00	3974.16	-16.43	-346.82	3967.66	3974.16	164.28	1123.44	82.90	1481.32	61.20	1420.12	1439.69	37.79	OSF1.50	Pass
4100.00	4073.00	-16.26	-362.03	4066.50	4073.00	164.28	1123.44	82.98	1496.40	62.71	1433.69	1453.76	37.22	OSF1.50	Pass
4200.00	4171.83	-16.08	-377.24	4165.33	4171.83	164.28	1123.44	83.06	1511.48	64.22	1447.26	1467.83	36.67	OSF1.50	Pass
4300.00	4270.67	-15.90	-392.46	4264.17	4270.67	164.28	1123.44	83.13	1526.56	65.73	1460.83	1481.91	36.15	OSF1.50	Pass
4400.00	4369.50	-15.73	-407.67	4363.00	4369.50	164.28	1123.44	83.21	1541.65	67.25	1474.40	1495.99	35.66	OSF1.50	Pass
4500.00	4468.34	-15.55	-422.88	4461.84	4468.34	164.28	1123.44	83.28	1556.74	68.76	1487.98	1510.07	35.19	OSF1.50	Pass
4600.00	4567.18	-15.38	-438.09	4560.68	4567.18	164.28	1123.44	83.35	1571.83	70.27	1501.56	1524.15	34.73	OSF1.50	Pass
4700.00	4666.01	-15.20	-453.30	4659.51	4666.01	164.28	1123.44	83.42	1586.92	71.78	1515.14	1538.23	34.30	OSF1.50	Pass
4800.00	4764.85	-15.03	-468.51	4758.35	4764.85	164.28	1123.44	83.49	1602.02	73.30	1528.72	1552.32	33.89	OSF1.50	Pass
4900.00	4863.69	-14.85	-483.73	4857.19	4863.69	164.28	1123.44	83.56	1617.11	74.81	1542.30	1566.41	33.49	OSF1.50	Pass
5000.00	4962.52	-14.67	-498.94	4956.02	4962.52	164.28	1123.44	83.62	1632.21	76.32	1555.89	1580.50	33.11	OSF1.50	Pass
5100.00	5061.36	-14.50	-514.15	5054.86	5061.36	164.28	1123.44	83.69	1647.31	77.84	1569.48	1594.59	32.75	OSF1.50	Pass
5200.00	5160.19	-14.32	-529.36	5153.69	5160.19	164.28	1123.44	83.75	1662.42	79.35	1583.06	1608.68	32.40	OSF1.50	Pass
5300.00	5259.03	-14.15	-544.57	5252.53	5259.03	164.28	1123.44	83.82	1677.52	80.87	1596.66	1622.78	32.06	OSF1.50	Pass
5400.00	5357.87	-13.97	-559.78	5351.37	5357.87	164.28	1123.44	83.88	1692.63	82.38	1610.25	1636.88	31.74	OSF1.50	Pass
5500.00	5456.70	-13.80	-574.99	5450.20	5456.70	164.28	1123.44	83.94	1707.74	83.90	1623.84	1650.97	31.42	OSF1.50	Pass
5600.00	5555.54	-13.62	-590.21	5549.04	5555.54	164.28	1123.44	84.00	1722.85	85.42	1637.44	1665.08	31.12	OSF1.50	Pass
5700.00	5654.37	-13.45	-605.42	5647.87	5654.37	164.28	1123.44	84.05	1737.97	86.93	1651.03	1679.19	30.83	OSF1.50	Pass
5800.00	5753.21	-13.27	-620.63	5746.71	5753.21	164.28	1123.44	84.11	1753.08	88.45	1664.63	1693.28	30.56	OSF1.50	Pass
5900.00	5852.05	-13.09	-635.84	5845.55	5852.05	164.28	1123.44	84.17	1768.20	89.96	1678.23	1707.39	30.28	OSF1.50	Pass
6000.00	5950.88	-12.92	-651.05	5944.38	5950.88	164.28	1123.44	84.22	1783.31	91.48	1691.83	1721.49	30.02	OSF1.50	Pass
6100.00	6049.72	-12.74	-666.26	6043.22	6049.72	164.28	1123.44	84.28	1798.43	93.00	1705.44	1735.60	29.77	OSF1.50	Pass
6200.00	6148.55	-12.57	-681.48	6142.05	6148.55	164.28	1123.44	84.33	1813.56	94.51	1719.04	1749.71	29.52	OSF1.50	Pass
6300.00	6247.39	-12.39	-696.69	6240.89	6247.39	164.28	1123.44	84.38	1828.68	96.03	1732.65	1763.82	29.29	OSF1.50	Pass
6400.00	6346.23	-12.22	-711.90	6339.73	6346.23	164.28	1123.44	84.44	1843.80	97.55	1746.25	1777.94	29.06	OSF1.50	Pass
6500.00	6445.06	-12.04	-727.11	6438.56	6445.06	164.28	1123.44	84.49	1858.93	99.07	1759.86	1792.05	28.84	OSF1.50	Pass
6600.00	6543.90	-11.87	-742.32	6537.40	6543.90	164.28	1123.44	84.54	1874.05	100.58	1773.47	180			

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Cimarex Dos Equis 11-14 Federal Com 49H Rev0 RM 22Aug19

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
6700.00	6642.74	-11.69	-757.53	6636.24	6642.74	164.28	1123.44	84.59	1889.18	102.10	1787.08	1820.28	28.41	OSF1.50	Pass
6800.00	6741.57	-11.51	-772.75	6735.07	6741.57	164.28	1123.44	84.63	1904.31	103.62	1800.69	1834.40	28.21	OSF1.50	Pass
6900.00	6840.41	-11.34	-787.96	6833.91	6840.41	164.28	1123.44	84.68	1919.44	105.14	1814.31	1848.52	28.01	OSF1.50	Pass
7000.00	6939.24	-11.16	-803.17	6932.74	6939.24	164.28	1123.44	84.73	1934.58	106.66	1827.92	1862.64	27.82	OSF1.50	Pass
7100.00	7038.08	-10.99	-818.38	7031.58	7038.08	164.28	1123.44	84.77	1949.71	108.18	1841.53	1876.76	27.64	OSF1.50	Pass
7200.00	7136.92	-10.81	-833.59	7130.42	7136.92	164.28	1123.44	84.82	1964.84	109.69	1855.15	1890.88	27.46	OSF1.50	Pass
7300.00	7235.75	-10.64	-848.80	7229.25	7235.75	164.28	1123.44	84.86	1979.98	111.21	1868.77	1905.01	27.28	OSF1.50	Pass
7400.00	7334.59	-10.46	-864.01	7328.09	7334.59	164.28	1123.44	84.91	1995.12	112.73	1882.39	1919.13	27.11	OSF1.50	Pass
7500.00	7433.42	-10.28	-879.23	7426.92	7433.42	164.28	1123.44	84.95	2010.26	114.25	1896.00	1933.26	26.95	OSF1.50	Pass
7600.00	7532.26	-10.11	-894.44	7525.76	7532.26	164.28	1123.44	85.00	2025.40	115.77	1909.62	1947.38	26.79	OSF1.50	Pass
7700.00	7631.10	-9.93	-909.65	7624.60	7631.10	164.28	1123.44	85.04	2040.54	117.29	1923.25	1961.51	26.63	OSF1.50	Pass
7800.00	7729.93	-9.76	-924.86	7723.43	7729.93	164.28	1123.44	85.08	2055.68	118.81	1936.87	1975.64	26.48	OSF1.50	Pass
7900.00	7828.77	-9.58	-940.07	7822.27	7828.77	164.28	1123.44	85.12	2070.82	120.33	1950.49	1989.77	26.33	OSF1.50	Pass
8000.00	7927.60	-9.41	-955.28	7921.10	7927.60	164.28	1123.44	85.16	2085.96	121.85	1964.11	2003.90	26.19	OSF1.50	Pass
8100.00	8026.44	-9.23	-970.50	8019.94	8026.44	164.28	1123.44	85.20	2101.11	123.37	1977.74	2018.03	26.04	OSF1.50	Pass
8200.00	8125.28	-9.06	-985.71	8118.78	8125.28	164.28	1123.44	85.24	2116.25	124.89	1991.36	2032.16	25.91	OSF1.50	Pass
8300.00	8224.15	-8.88	-1000.68	8217.65	8224.15	164.28	1123.44	85.29	2131.16	126.41	2004.75	2046.06	25.77	OSF1.50	Pass
8400.00	8323.40	-8.74	-1012.88	8316.90	8323.40	164.28	1123.44	85.34	2143.31	127.92	2015.38	2057.19	25.60	OSF1.50	Pass
8500.00	8423.01	-8.64	-1021.60	8416.51	8423.01	164.28	1123.44	85.38	2152.00	129.43	2022.57	2064.88	25.40	OSF1.50	Pass
8600.00	8522.87	-8.58	-1026.84	8516.37	8522.87	164.28	1123.44	85.40	2157.22	130.92	2026.29	2069.10	25.17	OSF1.50	Pass
8700.00	8622.85	-8.56	-1028.60	8616.35	8622.85	164.28	1123.44	85.41	2158.97	132.41	2026.56	2069.86	24.90	OSF1.50	Pass
8800.00	8722.85	-8.56	-1028.60	8716.35	8722.85	164.28	1123.44	85.41	2158.97	133.85	2025.12	2068.90	24.63	OSF1.50	Pass
8900.00	8822.85	-8.56	-1028.60	8816.35	8822.85	164.28	1123.44	85.41	2158.97	135.29	2023.67	2067.94	24.36	OSF1.50	Pass
9000.00	8922.85	-8.56	-1028.60	8916.35	8922.85	164.28	1123.44	85.41	2158.97	136.74	2022.23	2066.98	24.10	OSF1.50	Pass
9100.00	9022.85	-8.56	-1028.60	9016.35	9022.85	164.28	1123.44	85.41	2158.97	138.18	2020.78	2066.01	23.84	OSF1.50	Pass
9200.00	9122.85	-8.56	-1028.60	9116.35	9122.85	164.28	1123.44	85.41	2158.97	139.63	2019.34	2065.05	23.59	OSF1.50	Pass
9300.00	9222.85	-8.56	-1028.60	9216.35	9222.85	164.28	1123.44	85.41	2158.97	141.08	2017.89	2064.08	23.34	OSF1.50	Pass
9400.00	9322.85	-8.56	-1028.60	9316.35	9322.85	164.28	1123.44	85.41	2158.97	142.53	2016.44	2063.11	23.10	OSF1.50	Pass
9500.00	9422.85	-8.56	-1028.60	9416.35	9422.85	164.28	1123.44	85.41	2158.97	143.98	2014.99	2062.15	22.86	OSF1.50	Pass
9600.00	9522.85	-8.56	-1028.60	9516.35	9522.85	164.28	1123.44	85.41	2158.97	145.43	2013.53	2061.18	22.63	OSF1.50	Pass
9700.00	9622.85	-8.56	-1028.60	9616.35	9622.85	164.28	1123.44	85.41	2158.97	146.88	2012.08	2060.21	22.40	OSF1.50	Pass
9800.00	9722.85	-8.56	-1028.60	9716.35	9722.85	164.28	1123.44	85.41	2158.97	148.34	2010.63	2059.24	22.18	OSF1.50	Pass
9900.00	9822.85	-8.56	-1028.60	9816.35	9822.85	164.28	1123.44	85.41	2158.97	149.79	2009.17	2058.27	21.96	OSF1.50	Pass
10000.00	9922.85	-8.56	-1028.60	9916.35	9922.85	164.28	1123.44	85.41	2158.97	151.25	2007.72	2057.30	21.75	OSF1.50	Pass
10100.00	10022.85	-8.56	-1028.60	10016.35	10022.85	164.28	1123.44	85.41	2158.97	152.71	2006.26	2056.33	21.54	OSF1.50	Pass
10200.00	10122.85	-8.56	-1028.60	10116.35	10122.85	164.28	1123.44	85.41	2158.97	154.16	2004.80	2055.36	21.33	OSF1.50	Pass
10300.00	10222.85	-8.56	-1028.60	10216.35	10222.85	164.28	1123.44	85.41	2158.97	155.62	2003.34	2054.38	21.12	OSF1.50	Pass
10400.00	10322.85	-8.56	-1028.60	10316.35	10322.85	164.28	1123.44	85.41	2158.97	157.08	2001.88	2053.41	20.93	OSF1.50	Pass
10456.30	10379.15	-8.56	-1028.60	10372.65	10379.15	164.28	1123.44	85.41	2158.97	157.70	2001.26	2053.00	20.84	OSF1.50	Pass
10500.00	10422.81	-10.22	-1028.71	10416.31	10422.81	164.28	1123.44	85.39	2159.21	158.03	2001.17	2053.02	20.80	OSF1.50	Pass
10600.00	10521.35	-26.45	-1029.74	10514.85	10521.35	164.28	1123.44	85.21	2161.61	158.79	2002.83	2054.92	20.72	OSF1.50	Pass
10700.00	10615.57	-59.51	-1031.86	10609.07	10615.57	164.28	1123.44	84.91	2166.88	159.52	2007.36	2059.70	20.68	OSF1.50	Pass
10800.00	10702.60	-108.39	-1034.98	10696.10	10702.60	164.28	1123.44	84.66	2175.57	160.21	2005.36	2067.93	20.57	OSF1.50	Pass
10900.00	10779.81	-171.61	-1039.02	10773.31	10779.81	164.28	1123.44	84.66	2188.39	160.84	2007.55	2080.33	20.71	OSF1.50	Pass
11000.00	10844.85	-247.75	-1045.95	10839.35	10844.85	164.28	1123.44	85.14	2206.01	161.38	2044.62	2097.58	20.80	OSF1.50	Pass
11100.00	10895.73	-333.02	-1048.33	10899.23	10895.73	164.28	1123.44	86.33	2228.95	161.86	2067.09	2120.21	20.96	OSF1.50	Pass
11200.00	10930.92	-426.30	-1055.29	10924.42	10930.92	164.28	1123.44	88.41	2257.35	162.22	2095.13	2148.37	21.18	OSF1.50	Pass
11300.00	10953.24	-523.60	-1060.50	10946.74	10953.24	164.28	1123.44	88.64	2289.71	162.48	2127.22	2180.55	21.44	OSF1.50	Pass
11400.00	10967.26	-622.53	-1063.52	10960.76	10967.26	164.28	1123.44	88.96	2324.19	162.70	2161.49	2214.89	21.74	OSF1.50	Pass
11500.00	10972.89	-722.34	-1064.33	10966.39	10972.89	164.28	1123.44	89.50	2360.60	162.86	2197.74	2251.19	22.06	OSF1.50	Pass
11600.00	10973.23	-822.34	-1063.75	10966.73	10973.23	164.28	1123.44	89.59	2399.42	162.98	2236.44	2289.93	22.40	OSF1.50	Pass
11700.00	10973.49	-922.34	-1063.15	10966.99	10973.49	164.28	1123.44	89.58	2441.70	163.11	2278.59	2332.13	22.78	OSF1.50	Pass
11800.00	10973.75	-1022.33	-1062.55	10967.25	10973.75	164.28	1123.44	89.58	2487.29	163.25	2324.03	2377.62	23.19	OSF1.50	Pass
11900.00	10974.02	-1122.33	-1061.95	10967.52	10974.02	164.28	1123.44	89.57	2536.00	163.40	2372.60	2426.23	23.62	OSF1.50	Pass
12000.00	10974.28	-1222.33	-1061.35	10967.78	10974.28	164.28	1123.44	89.56	2587.66	163.54	2424.11	2477.79	24.08	OSF1.50	Pass
12100.00	10974.54	-1322.33	-1060.75	10968.04	10974.54	164.28	1123.44	89.55	2642.09	163.69	2478.40	2532.13	24.56	OSF1.50	Pass
12200.00	10974.80	-1422.32	-1060.15	13686.96	12342.97	-1414.32	1258.53	59.11	2692.25	177.39	2514.86	2573.15	23.07	OSF1.50	Pass
12300.00	10975.06	-1522.32	-1059.55	13786.96	12342.54	-1514.31	1259.13	59.13	2691.90	179.55	2512.35	2571.36	22.79	OSF1.50	Pass
12400.00	10975.33	-1622.32	-1058.95	13886.96	12342.11	-1614.31	1259.73	59.14	2691.54	181.82	2509.73	2569.50	22.49	OSF1.50	Pass
12500.00	10975.59	-1722.32	-1058.34	13986.95	12341.68	-1714.30	1260.33	59.15	2691.19	184.19	2507.00	2567.56	22.20	OSF1.50	Pass
12600.00	10975.85	-1822.32	-1057.74	14086.95	12341.25	-1814.30	1260.92	59.16	2690.84	186.67	2504.17	2565.56	21.90	OSF1.50	Pass
12700.00	10976.11	-1922.31	-1057.14	14186.95	12340.82	-1914.29	1261.52	59.18	2690.48	189.24	2501.24	2563.49	21.59	OSF1.50	Pass
12800.00	10976.37	-2022.31	-1056.54	14286.95	12340.39	-2014.29	1262.12	59.19	2690.13	191.91	2498.22	2561.36	21.28	OSF1.50	Pass
12900.00	10976.63	-2122.31	-1055.94	14386.94	12339.96	-2114.28	1262.72	59.20	2689.78	194.67	2495.11	2559.17	20.98	OSF1.50	Pass
13000.00	10976.90	-2222.31	-1055.34	14486.94	12339.53	-2214.28	1263.32	59.21	2689.43	197.51	2491.91	2556.92	20.67	OSF1.50	Pass
13100.00	1														

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Cimarex Dos Equis 11-14 Federal Com 49H Rev0 RM 22Aug19

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
15100.00	10982.40	-4322.26	-1042.72	16586.89	12330.52	-4314.17	1275.89	59.48	2682.06	271.80	2410.26	2500.02	14.92	OSF1.50	Pass
15200.00	10982.66	-4422.26	-1042.12	16686.89	12330.09	-4414.16	1276.49	59.49	2681.71	275.83	2405.88	2496.99	14.70	OSF1.50	Pass
15300.00	10982.92	-4522.26	-1041.52	16786.89	12329.66	-4514.16	1277.09	59.51	2681.36	279.89	2401.47	2493.94	14.49	OSF1.50	Pass
15400.00	10983.18	-4622.26	-1040.92	16886.88	12329.23	-4614.15	1277.69	59.52	2681.01	283.98	2397.04	2490.86	14.27	OSF1.50	Pass
15500.00	10983.45	-4722.25	-1040.32	16986.88	12328.80	-4714.15	1278.29	59.53	2680.66	288.09	2392.57	2487.77	14.07	OSF1.50	Pass
15600.00	10983.71	-4822.25	-1039.71	17086.88	12328.37	-4814.14	1278.89	59.54	2680.31	292.23	2388.08	2484.66	13.86	OSF1.50	Pass
15700.00	10983.97	-4922.25	-1039.11	17186.88	12327.94	-4914.14	1279.48	59.56	2679.97	296.40	2383.56	2481.53	13.67	OSF1.50	Pass
15800.00	10984.23	-5022.25	-1038.51	17286.88	12327.51	-5014.13	1280.08	59.57	2679.62	300.60	2379.02	2478.39	13.47	OSF1.50	Pass
15900.00	10984.49	-5122.25	-1037.91	17386.87	12327.08	-5114.13	1280.68	59.58	2679.27	304.81	2374.46	2475.23	13.28	OSF1.50	Pass
16000.00	10984.76	-5222.24	-1037.31	17486.87	12326.65	-5214.12	1281.28	59.60	2678.92	309.05	2369.87	2472.05	13.10	OSF1.50	Pass
16100.00	10985.02	-5322.24	-1036.71	17586.87	12326.22	-5314.12	1281.88	59.61	2678.57	313.31	2365.26	2468.86	12.91	OSF1.50	Pass
16200.00	10985.28	-5422.24	-1036.11	17686.87	12325.79	-5414.11	1282.48	59.62	2678.22	317.60	2360.63	2465.66	12.74	OSF1.50	Pass
16300.00	10985.54	-5522.24	-1035.51	17786.86	12325.36	-5514.11	1283.08	59.63	2677.86	321.90	2355.98	2462.44	12.56	OSF1.50	Pass
16400.00	10985.80	-5622.23	-1034.91	17886.86	12324.93	-5614.10	1283.68	59.65	2677.53	326.22	2351.30	2459.21	12.39	OSF1.50	Pass
16500.00	10986.07	-5722.23	-1034.31	17986.86	12324.51	-5714.10	1284.27	59.66	2677.18	330.57	2346.61	2455.97	12.23	OSF1.50	Pass
16600.00	10986.33	-5822.23	-1033.70	18086.86	12324.08	-5814.09	1284.87	59.67	2676.83	334.93	2341.91	2452.72	12.07	OSF1.50	Pass
16700.00	10986.59	-5922.23	-1033.10	18186.85	12323.65	-5914.09	1285.47	59.69	2676.49	339.30	2337.18	2449.45	11.91	OSF1.50	Pass
16800.00	10986.85	-6022.23	-1032.50	18286.85	12323.22	-6014.08	1286.07	59.70	2676.14	343.70	2332.44	2446.17	11.75	OSF1.50	Pass
16900.00	10987.11	-6122.22	-1031.90	18386.85	12322.79	-6114.08	1286.67	59.71	2675.79	348.11	2327.68	2442.89	11.60	OSF1.50	Pass
17000.00	10987.38	-6222.22	-1031.30	18486.85	12322.36	-6214.07	1287.27	59.72	2675.44	352.54	2322.91	2439.59	11.45	OSF1.50	Pass
17100.00	10987.64	-6322.22	-1030.70	18586.84	12321.93	-6314.07	1287.87	59.74	2675.10	356.98	2318.12	2436.28	11.31	OSF1.50	Pass
17200.00	10987.90	-6422.22	-1030.10	18686.84	12321.50	-6414.06	1288.47	59.75	2674.75	361.43	2313.32	2432.96	11.17	OSF1.50	Pass
17300.00	10988.16	-6522.22	-1029.50	18786.84	12321.07	-6514.06	1289.06	59.76	2674.40	365.90	2308.50	2429.64	11.03	OSF1.50	Pass
17400.00	10988.42	-6622.21	-1028.90	18886.84	12320.64	-6614.05	1289.66	59.77	2674.06	370.39	2303.67	2426.30	10.89	OSF1.50	Pass
17500.00	10988.69	-6722.21	-1028.30	18986.83	12320.21	-6714.05	1290.26	59.79	2673.71	374.88	2298.83	2422.96	10.76	OSF1.50	Pass
17600.00	10988.95	-6822.21	-1027.69	19086.83	12319.78	-6814.04	1290.86	59.80	2673.37	379.39	2293.97	2419.60	10.63	OSF1.50	Pass
17700.00	10989.21	-6922.21	-1027.09	19186.83	12319.35	-6914.04	1291.46	59.81	2673.02	383.91	2289.11	2416.24	10.50	OSF1.50	Pass
17800.00	10989.47	-7022.20	-1026.49	19286.83	12318.92	-7014.03	1292.06	59.83	2672.67	388.45	2284.23	2412.88	10.38	OSF1.50	Pass
17900.00	10989.73	-7122.20	-1025.89	19386.83	12318.50	-7114.03	1292.66	59.84	2672.33	392.99	2279.34	2409.50	10.26	OSF1.50	Pass
18000.00	10990.00	-7222.20	-1025.29	19486.82	12318.07	-7214.02	1293.25	59.85	2671.98	397.55	2274.44	2406.12	10.14	OSF1.50	Pass
18100.00	10990.26	-7322.20	-1024.69	19586.82	12317.64	-7314.01	1293.85	59.86	2671.64	402.11	2269.52	2402.73	10.02	OSF1.50	Pass
18200.00	10990.52	-7422.20	-1024.09	19686.82	12317.21	-7414.01	1294.45	59.88	2671.29	406.69	2264.60	2399.33	9.90	OSF1.50	Pass
18300.00	10990.78	-7522.19	-1023.49	19786.82	12316.78	-7514.00	1295.05	59.89	2670.95	411.28	2259.67	2395.93	9.79	OSF1.50	Pass
18400.00	10991.04	-7622.19	-1022.89	19886.81	12316.35	-7614.00	1295.65	59.90	2670.60	415.87	2254.73	2392.52	9.68	OSF1.50	Pass
18500.00	10991.31	-7722.19	-1022.29	19986.81	12315.92	-7713.99	1296.25	59.92	2670.26	420.48	2249.78	2389.10	9.57	OSF1.50	Pass
18600.00	10991.57	-7822.19	-1021.68	20086.81	12315.49	-7813.99	1296.85	59.93	2669.91	425.09	2244.82	2385.68	9.47	OSF1.50	Pass
18700.00	10991.83	-7922.19	-1021.08	20186.81	12315.06	-7913.98	1297.45	59.94	2669.57	429.72	2239.85	2382.25	9.36	OSF1.50	Pass
18800.00	10992.09	-8022.18	-1020.48	20286.80	12314.63	-8013.98	1298.04	59.95	2669.22	434.35	2234.87	2378.82	9.26	OSF1.50	Pass
18900.00	10992.35	-8122.18	-1019.88	20386.80	12314.20	-8113.97	1298.64	59.97	2668.88	438.99	2229.89	2375.38	9.16	OSF1.50	Pass
19000.00	10992.61	-8222.18	-1019.28	20486.80	12313.77	-8213.97	1299.24	59.98	2668.53	443.64	2224.89	2371.94	9.07	OSF1.50	Pass
19100.00	10992.88	-8322.18	-1018.68	20586.80	12313.34	-8313.96	1299.84	59.99	2668.19	448.30	2219.89	2368.49	8.97	OSF1.50	Pass
19200.00	10993.14	-8422.17	-1018.08	20686.79	12312.91	-8413.96	1300.44	60.01	2667.85	452.96	2214.88	2365.04	8.88	OSF1.50	Pass
19300.00	10993.40	-8522.17	-1017.48	20786.79	12312.48	-8513.95	1301.04	60.02	2667.50	457.64	2209.86	2361.58	8.78	OSF1.50	Pass
19400.00	10993.66	-8622.17	-1016.88	20886.79	12312.06	-8613.95	1301.64	60.03	2667.16	462.32	2204.84	2358.11	8.69	OSF1.50	Pass
19500.00	10993.92	-8722.17	-1016.28	20986.79	12311.63	-8713.94	1302.24	60.04	2666.81	467.00	2199.81	2354.65	8.60	OSF1.50	Pass
19600.00	10994.19	-8822.17	-1015.68	21086.78	12311.20	-8813.94	1302.83	60.06	2666.47	471.70	2194.77	2351.17	8.52	OSF1.50	Pass
19700.00	10994.45	-8922.16	-1015.07	21186.78	12310.77	-8913.93	1303.43	60.07	2666.13	476.40	2189.73	2347.70	8.43	OSF1.50	Pass
19800.00	10994.71	-9022.16	-1014.47	21286.78	12310.34	-9013.93	1304.03	60.08	2665.78	481.10	2184.68	2344.22	8.35	OSF1.50	Pass
19900.00	10994.97	-9122.16	-1013.87	21386.78	12309.91	-9113.92	1304.63	60.10	2665.44	485.82	2179.62	2340.73	8.26	OSF1.50	Pass
20000.00	10995.23	-9222.16	-1013.27	21486.78	12309.48	-9213.92	1305.23	60.11	2665.10	490.54	2174.56	2337.24	8.18	OSF1.50	Pass
20100.00	10995.50	-9322.16	-1012.67	21586.77	12309.05	-9313.91	1305.83	60.12	2664.76	495.26	2169.49	2333.75	8.10	OSF1.50	Pass
20200.00	10995.76	-9422.15	-1012.07	21686.77	12308.62	-9413.91	1306.43	60.14	2664.41	499.99	2164.42	2330.25	8.03	OSF1.50	Pass
20300.00	10996.02	-9522.15	-1011.47	21786.77	12308.19	-9513.90	1307.02	60.15	2664.07	504.73	2159.34	2326.75	7.95	OSF1.50	Pass
20400.00	10996.28	-9622.15	-1010.87	21886.77	12307.76	-9613.90	1307.62	60.16	2663.73	509.47	2154.25	2323.25	7.87	OSF1.50	Pass
20500.00	10996.54	-9722.15	-1010.27	21986.76	12307.33	-9713.89	1308.22	60.17	2663.39	514.22	2149.16	2319.74	7.80	OSF1.50	Pass
20600.00	10996.81	-9822.14	-1009.67	22086.76	12306.90	-9813.89	1308.82	60.19	2663.04	518.98	2144.07	2316.23	7.73	OSF1.50	Pass
20700.00	10997.07	-9922.14	-1009.06	22180.83	12306.50	-9907.96	1309.38	60.20	2662.71	523.48	2139.22	2312.89	7.66	OSF1.50	Pass
20712.06	10997.10	-9934.20	-1008.99	22180.83	12306.50	-9907.96	1309.38	60.20	2662.72	523.54	2139.18	2312.86	7.66	OSF1.50	Pass

End of results

...Dos Equis 11-14 Federal Com 25Y\Coterra Dos Equis 11-14 Federal Com 25Y Rev0 kFc 16Jun22

Drilling Office 2.10.829.1

Schlumberger-Private

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Field: NM Lea County (NAD 83)
 Structure: Cimarex Dos Equis 11-14 Federal Com 7H
 Slot: New Slot
 Client: Cimarex Energy
 Coordinate System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 North Reference: Grid
 Grid Convergence Angle: 0.36726959°
 Well: Dos Equis 11-14 Federal Com 7H
 Borehole: Dos Equis 11-14 Federal Com 7H
 Trajectory: Cimarex Dos Equis 11-14 Federal Com 7H Rev0 RM 05Sept19
 Type: Non-Def Plan
 Grid Scale Factor: 0.999960986
 Magnetic Declination: 6.669°
 Reference Point: Magnetic Declination Date: September 05, 2019
 Magnetic Model: HDGM 2019
 Northing: 451124.140 (ftUS)
 Easting: 754201.940 (ftUS)
 Elevation: 3633.600 (ft) MSL
 Structure Unc.: 0.000 (ft) (3 sigma)
 Slot Unc.: 0.000 (ft) (3 sigma)

Trajectory Error Model: ISCSWA0 3-D 95.000% Confidence 2.7955 sigma

Surveying Prog: While Drilling

Description

Part

MD From (ft)

MD To (ft)

EOU Freq (ft)

Survey Tool Type

Hole Size (in)

Casing Diameter (in)

Borehole / Survey

1

0.000

26.000

1/100.000

A001Mb_MWD-Depth Only

30.000

30.000 juis 11-14 Federal Com 7H Rev0 RM 05Sept19

1

26.000

22214.434

1/100.000

A001Mb_MWD

30.000

30.000 juis 11-14 Federal Com 7H Rev0 RM 05Sept19

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
All local minima indicated.															
0.00	0.00	0.00	0.00	0.00	7.00	164.53	1143.44	81.81	1155.23	32.81	1122.43	1152.73	N/A	10.00 (m)	Pass
100.00	100.00	0.00	0.00	93.00	100.00	164.53	1143.44	81.81	1155.21	32.81	1122.41	1152.35	3163.95	10.00 (m)	Pass
200.00	200.00	0.00	0.00	193.00	200.00	164.53	1143.44	81.81	1155.21	32.81	1122.41	1151.36	854.71	10.00 (m)	Pass
300.00	300.00	0.00	0.00	293.00	300.00	164.53	1143.44	81.81	1155.21	32.81	1122.41	1150.36	490.41	10.00 (m)	Pass
400.00	400.00	0.00	0.00	393.00	400.00	164.53	1143.44	81.81	1155.21	32.81	1122.41	1149.36	343.83	10.00 (m)	Pass
500.00	500.00	0.00	0.00	493.00	500.00	164.53	1143.44	81.81	1155.21	32.81	1122.41	1148.36	264.71	10.00 (m)	Pass
600.00	599.99	-0.87	0.00	592.99	599.99	164.53	1143.44	81.77	1155.34	32.81	1122.53	1147.51	216.19	10.00 (m)	Pass
700.00	699.98	-2.62	0.00	692.98	699.98	164.53	1143.44	81.68	1155.59	32.81	1122.78	1146.79	183.08	10.00 (m)	Pass
800.00	799.96	-4.36	0.00	792.96	799.96	164.53	1143.44	81.60	1155.84	32.81	1123.03	1146.07	158.55	10.00 (m)	Pass
900.00	899.95	-6.11	0.00	892.95	899.95	164.53	1143.44	81.51	1156.10	32.81	1123.29	1145.34	139.71	10.00 (m)	Pass
1000.00	899.93	-7.85	0.00	992.93	999.93	164.53	1143.44	81.43	1156.36	32.81	1123.55	1144.61	124.81	10.00 (m)	Pass
1100.00	1099.92	-9.60	0.00	1092.92	1099.92	164.53	1143.44	81.34	1156.62	32.81	1123.81	1143.88	112.76	10.00 (m)	Pass
1200.00	1199.90	-11.34	0.00	1192.90	1199.90	164.53	1143.44	81.26	1156.88	32.81	1124.08	1143.16	102.81	10.00 (m)	Pass
1300.00	1299.89	-13.09	0.00	1292.89	1299.89	164.53	1143.44	81.17	1157.15	32.81	1124.34	1142.43	94.46	10.00 (m)	Pass
1400.00	1399.87	-14.83	0.00	1392.87	1399.87	164.53	1143.44	81.09	1157.42	32.81	1124.61	1141.70	87.36	10.00 (m)	Pass
1500.00	1499.86	-16.58	0.00	1492.86	1499.86	164.53	1143.44	81.00	1157.69	32.81	1124.88	1140.97	81.25	10.00 (m)	Pass
1506.20	1506.06	-16.69	-0.01	1499.06	1506.06	164.53	1143.44	81.00	1157.71	32.81	1124.91	1140.94	80.90	10.00 (m)	Pass
1600.00	1599.83	-18.11	-1.73	1592.83	1599.83	164.53	1143.44	80.95	1159.64	32.81	1126.83	1141.93	76.07	10.00 (m)	Pass
1700.00	1699.68	-19.20	-6.92	1692.68	1699.68	164.53	1143.44	80.92	1164.94	32.81	1132.13	1146.24	71.74	10.00 (m)	Pass
1800.00	1799.30	-19.86	-15.57	1792.30	1799.30	164.53	1143.44	80.92	1173.59	32.81	1140.78	1153.89	68.12	10.00 (m)	Pass
1900.00	1898.56	-20.08	-27.66	1891.56	1898.56	164.53	1143.44	80.96	1185.56	32.81	1152.76	1164.88	65.08	10.00 (m)	Pass
2000.00	1997.44	-19.94	-42.59	1990.44	1997.44	164.53	1143.44	81.05	1200.29	32.81	1167.48	1178.62	62.50	10.00 (m)	Pass
2100.00	2096.27	-19.77	-57.80	2089.27	2096.27	164.53	1143.44	81.17	1215.29	32.81	1182.49	1192.65	60.20	10.00 (m)	Pass
2200.00	2195.11	-19.59	-73.01	2188.11	2195.11	164.53	1143.44	81.29	1230.31	34.20	1196.11	1206.67	58.10	OSF1.50	Pass
2300.00	2293.95	-19.42	-88.22	2286.95	2293.95	164.53	1143.44	81.40	1245.32	35.68	1209.64	1220.70	56.18	OSF1.50	Pass
2400.00	2392.78	-19.24	-103.44	2385.78	2392.78	164.53	1143.44	81.51	1260.34	37.17	1223.17	1234.73	54.42	OSF1.50	Pass
2500.00	2491.62	-19.07	-118.65	2484.62	2491.62	164.53	1143.44	81.62	1275.37	38.66	1236.71	1248.76	52.80	OSF1.50	Pass
2600.00	2590.45	-18.89	-133.86	2573.69	2580.69	164.53	1144.02	81.70	1291.23	39.92	1251.31	1263.78	51.65	OSF1.50	Pass
2700.00	2689.29	-18.71	-149.07	2662.49	2669.49	164.55	1146.19	81.79	1309.39	41.12	1268.27	1281.14	50.76	OSF1.50	Pass
2800.00	2788.13	-18.54	-164.28	2692.66	2699.66	164.58	1149.91	81.88	1329.85	42.29	1287.56	1300.82	50.04	OSF1.50	Pass
2900.00	2886.96	-18.36	-179.49	2759.13	2765.78	164.62	1155.15	81.98	1352.57	43.43	1309.14	1322.78	49.48	OSF1.50	Pass
3000.00	2985.80	-18.19	-194.71	2824.85	2831.15	164.67	1161.84	82.08	1377.52	44.54	1332.97	1346.99	49.06	OSF1.50	Pass
3100.00	3084.64	-18.01	-209.92	2907.77	2913.47	164.75	1171.88	82.21	1404.31	45.83	1358.47	1372.92	48.52	OSF1.50	Pass
3200.00	3183.47	-17.84	-225.13	3003.99	3008.96	164.84	1183.70	82.36	1431.30	47.27	1384.03	1398.96	47.87	OSF1.50	Pass
3300.00	3282.31	-17.66	-240.34	3100.21	3104.45	164.94	1195.52	82.51	1458.31	48.71	1409.60	1425.00	47.25	OSF1.50	Pass
3400.00	3381.14	-17.48	-255.55	3199.94	3199.94	165.03	1207.33	82.65	1485.32	50.16	1435.16	1451.05	46.67	OSF1.50	Pass
3500.00	3479.98	-17.31	-270.76	3292.65	3295.43	165.12	1219.15	82.78	1512.34	51.61	1460.74	1477.10	46.12	OSF1.50	Pass
3600.00	3578.82	-17.13	-285.97	3388.87	3390.93	165.21	1230.97	82.91	1539.37	53.06	1486.31	1503.17	45.59	OSF1.50	Pass
3700.00	3677.65	-16.96	-301.19	3485.09	3486.42	165.31	1242.78	83.04	1566.41	54.52	1511.89	1529.23	45.10	OSF1.50	Pass
3800.00	3776.49	-16.78	-316.40	3581.31	3581.91	165.40	1254.60	83.16	1593.45	55.98	1537.48	1555.30	44.63	OSF1.50	Pass
3900.00	3875.32	-16.61	-331.61	3677.53	3677.40	165.49	1266.42	83.28	1620.50	57.44	1563.06	1581.38	44.18	OSF1.50	Pass
4000.00	3974.16	-16.43	-346.82	3773.75	3773.89	165.59	1278.23	83.39	1647.56	58.90	1588.66	1607.46	43.75	OSF1.50	Pass
4100.00	4073.00	-16.26	-362.03	3869.97	3869.97	165.68	1290.05	83.50	1674.62	60.37	1614.25	1633.54	43.34	OSF1.50	Pass
4200.00	4171.83	-16.08	-377.24	3966.19	3963.87	165.77	1301.87	83.61	1701.68	61.83	1639.85	1659.63	42.96	OSF1.50	Pass
4300.00	4270.67	-15.90	-392.46	4062.41	4059.37	165.86	1313.68	83.71	1728.76	63.30	1665.45	1685.72	42.59	OSF1.50	Pass
4400.00	4369.50	-15.73	-407.67	4158.63	4154.86	165.96	1325.50	83.81	1755.83	64.78	1691.06	1711.82	42.23	OSF1.50	Pass
4500.00	4468.34	-15.55	-422.88	4254.85	4250.35	166.05	1337.32	83.91	1782.92	66.25	1716.67	1737.92	41.89	OSF1.50	Pass
4600.00	4567.18	-15.38	-438.09	4351.07	4345.84	166.14	1349.13	84.00	1810.00	67.73	1742.28	1764.02	41.57	OSF1.50	Pass
4700.00	4666.01	-15.20	-453.30	4447.29	4441.33	166.24	1360.95	84.09	1837.09	69.20	1767.89	1790.12	41.26	OSF1.50	Pass
4800.00	4764.85	-15.03	-468.51	4543.51	4536.82	166.33	1372.77	84.18	1864.19	70.68	1793.51	1816.23	40.96	OSF1.50	Pass
4900.00	4863.69	-14.85	-483.73	4639.73	4632.32	166.42	1384.58	84.26	1891.29	72.16	1819.13	1842.35	40.67	OSF1.50	Pass
5000.00	4962.52	-14.67	-498.94	4735.95	4727.81	166.51	1396.40	84.35	1918.39	73.64	1844.75	1868.46	40.40	OSF1.50	Pass
5100.00	5061.36	-14.50	-514.15	4832.17	4823.30	166.61	1408.22	84.43	1945.50	75.12	1870.37	1894.58	40.13	OSF1.50	Pass
5200.00	5160.19	-14.32	-529.36	4928.39	4918.79	166.70	1420.03	84.51	1972.61	76.60	1896.00	1920.70	39.88	OSF1.50	Pass
5300.00	5259.03	-14.15	-544.57	5024.61	5014.28	166.79	1431.85	84.59	1999.72	78.09	1921.63	1946.83	39.63	OSF1.50	Pass
5400.00	5357.87	-13.97	-559.78	5120.83	5109.77	166.88	1443.67	84.66	2026.84	79.57	1947.26	1972.95	39.40	OSF1.50	Pass
5500.00	5456.70	-13.80	-574.99	5217.05	5205.27	166.98	1455.48	84.73	2053.96	81.06	1972.90	1999.08	39.17	OSF1.50	Pass
5600.00	5555.54	-13.62	-590.21	5313.27	5300.76	167.07	1467.30	84.80	2081.08	82.55	1998.53	2025.21	38.95	OSF1.50	Pass
5700.00	5654.37	-13.45	-605.42	5409.49	5396.25	167.16	1479.12	84.87	2108.20	84.03	2024.17	2051.35	38.74	OSF1.50	Pass
5800.00	5753.21	-13.27	-620.63	5505.71	5491.74	167.26	1490.93	84.94	2135.33	85.52	2049.81	2077.48	38.53	OSF1.50	Pass
5900.00	5852.05	-13.09	-635.84	5601.93	5587.23	167.35	1502.75	85.01	2162.46	87.01	2075.45	2103.62	38.34	OSF1.50	Pass
6000.00	5950.88	-12.92	-651.05	5698.15	5682.72	167.45	1514.57	85.07	2189.60	88.50	2101.10	2129.76	38.15	OSF1.50	Pass
6100.00	6049.72	-12.74	-666.26	5794.37	5778.22	167.53	1526.38	85.13	2216.73	89.99	2126.74	2155.90	37.96	OSF1.50	Pass
6200.00	6148.55	-12.57	-681.48	5890.59	5873.71	167.63	1538.20	85.19	2243.87	91.49	2153.63	2182.05	37.78	OSF1.50	Pass
6300.00	6247.39	-12.39	-696.69	5986.81	5969.20	167.72	1550.01	85.25	2271.01	92.98	2178.04	2208.19	37.61	OSF1.50	Pass
6400.00	6346.23	-12.22	-711.90	6083.03	6064.69	167.81	1561.83	85.31	2298.16	94.47	2203.69	2234.34	37.44	OSF1.50	Pass
6500.00	6445.06	-12.04	-727.11	6179.25	6160.18	167.91	1573.65	85.37	2325.30	95.97	2229.34	2260.49	37.28	OSF1.50	Pass
6600.00	6543.90	-11.87	-742.32	6275.47	6255.67	168.00	1585.46	85.42	2352.45	97.46	2254.99	22			

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Cimarex Dos Equis 11-14 Federal Com 7H Rev0 RM 05Sept19

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
6700.00	6642.74	-11.69	-757.53	6371.69	6351.16	168.09	1597.28	85.48	2379.60	98.95	2280.64	2312.79	36.97	OSF1.50	Pass
6800.00	6741.57	-11.51	-772.75	6467.91	6446.66	168.18	1609.10	85.53	2406.75	100.45	2306.30	2338.95	36.82	OSF1.50	Pass
6900.00	6840.41	-11.34	-787.96	6564.13	6542.15	168.28	1620.91	85.58	2433.90	101.95	2331.96	2365.10	36.67	OSF1.50	Pass
7000.00	6939.24	-11.16	-803.17	6660.35	6637.64	168.37	1632.73	85.63	2461.06	103.44	2357.61	2391.26	36.53	OSF1.50	Pass
7100.00	7038.08	-10.99	-818.38	6756.57	6733.13	168.46	1644.55	85.68	2488.21	104.94	2383.27	2417.42	36.40	OSF1.50	Pass
7200.00	7136.92	-10.81	-833.59	6852.79	6828.62	168.56	1656.36	85.73	2515.37	106.44	2408.93	2443.58	36.26	OSF1.50	Pass
7300.00	7235.75	-10.64	-848.80	6949.01	6924.11	168.65	1668.18	85.78	2542.53	107.94	2434.59	2469.74	36.14	OSF1.50	Pass
7400.00	7334.59	-10.46	-864.01	7045.23	7019.61	168.74	1680.00	85.82	2569.69	109.44	2460.26	2495.90	36.01	OSF1.50	Pass
7500.00	7433.42	-10.28	-879.23	7141.45	7115.10	168.83	1691.81	85.87	2596.86	110.94	2485.92	2522.07	35.89	OSF1.50	Pass
7600.00	7532.26	-10.11	-894.44	7237.67	7210.59	168.93	1703.63	85.91	2624.02	112.44	2511.58	2548.23	35.77	OSF1.50	Pass
7700.00	7631.10	-9.93	-909.65	7333.89	7306.08	169.02	1715.45	85.96	2651.19	113.94	2537.25	2574.39	35.65	OSF1.50	Pass
7800.00	7729.93	-9.76	-924.86	7430.11	7401.57	169.11	1727.26	86.00	2678.35	115.44	2562.92	2600.56	35.54	OSF1.50	Pass
7900.00	7828.77	-9.58	-940.07	7526.33	7497.06	169.21	1739.08	86.04	2705.52	116.94	2588.58	2626.73	35.43	OSF1.50	Pass
8000.00	7927.60	-9.41	-955.28	7622.55	7597.60	169.30	1750.89	86.18	2732.15	118.44	2614.29	2652.90	35.32	OSF1.50	Pass
8100.00	8026.44	-9.23	-970.50	8056.68	8026.44	169.39	1762.00	86.21	2738.32	123.35	2614.97	2655.25	33.96	OSF1.50	Pass
8200.00	8125.28	-9.06	-985.71	8155.51	8125.28	169.39	1762.00	86.23	2753.49	124.84	2628.65	2669.43	33.73	OSF1.50	Pass
8300.00	8224.15	-8.88	-1000.68	8254.38	8224.15	169.39	1762.00	86.27	2768.42	126.34	2642.08	2683.36	33.50	OSF1.50	Pass
8400.00	8323.40	-8.74	-1012.88	8353.63	8323.40	169.39	1762.00	86.30	2780.58	127.82	2652.76	2694.53	33.25	OSF1.50	Pass
8500.00	8423.01	-8.64	-1021.60	8453.25	8423.01	169.39	1762.00	86.33	2789.28	129.30	2659.98	2702.25	32.97	OSF1.50	Pass
8600.00	8522.87	-8.58	-1026.84	8553.10	8522.87	169.39	1762.00	86.35	2794.51	130.77	2663.74	2706.50	32.65	OSF1.50	Pass
8700.00	8622.85	-8.56	-1028.60	8653.08	8622.85	169.39	1762.00	86.35	2796.26	132.23	2664.03	2707.28	32.30	OSF1.50	Pass
8800.00	8722.85	-8.56	-1028.60	8753.08	8722.85	169.39	1762.00	86.35	2796.26	133.65	2662.61	2706.33	31.95	OSF1.50	Pass
8900.00	8822.85	-8.56	-1028.60	8853.08	8822.85	169.39	1762.00	86.35	2796.26	135.07	2661.20	2705.38	31.61	OSF1.50	Pass
9000.00	8922.85	-8.56	-1028.60	8953.08	8922.85	169.39	1762.00	86.35	2796.26	136.49	2659.77	2704.44	31.28	OSF1.50	Pass
9100.00	9022.85	-8.56	-1028.60	9053.08	9022.85	169.39	1762.00	86.35	2796.26	137.91	2658.35	2703.49	30.95	OSF1.50	Pass
9200.00	9122.85	-8.56	-1028.60	9153.08	9122.85	169.39	1762.00	86.35	2796.26	139.34	2656.93	2702.54	30.62	OSF1.50	Pass
9300.00	9222.85	-8.56	-1028.60	9253.08	9222.85	169.39	1762.00	86.35	2796.26	140.76	2655.50	2701.59	30.31	OSF1.50	Pass
9400.00	9322.85	-8.56	-1028.60	9353.08	9322.85	169.39	1762.00	86.35	2796.26	142.19	2654.07	2700.63	30.00	OSF1.50	Pass
9500.00	9422.85	-8.56	-1028.60	9453.08	9422.85	169.39	1762.00	86.35	2796.26	143.62	2652.64	2699.68	29.70	OSF1.50	Pass
9600.00	9522.85	-8.56	-1028.60	9553.08	9522.85	169.39	1762.00	86.35	2796.26	145.05	2651.21	2698.73	29.40	OSF1.50	Pass
9700.00	9622.85	-8.56	-1028.60	9653.08	9622.85	169.39	1762.00	86.35	2796.26	146.49	2649.78	2697.77	29.10	OSF1.50	Pass
9800.00	9722.85	-8.56	-1028.60	9753.08	9722.85	169.39	1762.00	86.35	2796.26	147.92	2648.34	2696.82	28.82	OSF1.50	Pass
9900.00	9822.85	-8.56	-1028.60	9853.08	9822.85	169.39	1762.00	86.35	2796.26	149.36	2646.91	2695.86	28.54	OSF1.50	Pass
10000.00	9922.85	-8.56	-1028.60	9953.08	9922.85	169.39	1762.00	86.35	2796.26	150.79	2645.47	2694.90	28.26	OSF1.50	Pass
10100.00	10022.85	-8.56	-1028.60	10053.08	10022.85	169.39	1762.00	86.35	2796.26	152.23	2644.03	2693.94	27.99	OSF1.50	Pass
10200.00	10122.85	-8.56	-1028.60	10153.08	10122.85	169.39	1762.00	86.35	2796.26	153.67	2642.59	2692.98	27.72	OSF1.50	Pass
10300.00	10222.85	-8.56	-1028.60	10253.08	10222.85	169.39	1762.00	86.35	2796.26	155.11	2641.15	2692.02	27.46	OSF1.50	Pass
10400.00	10322.85	-8.56	-1028.60	10353.08	10322.85	169.39	1762.00	86.35	2796.26	156.55	2639.71	2691.06	27.20	OSF1.50	Pass
10500.00	10422.81	-10.22	-1028.71	10453.04	10422.81	169.39	1762.00	86.34	2796.48	157.49	2638.99	2690.65	27.04	OSF1.50	Pass
10600.00	10521.35	-26.45	-1029.74	10551.58	10521.35	169.39	1762.00	86.22	2798.60	158.22	2640.38	2692.29	26.93	OSF1.50	Pass
10700.00	10615.57	-59.51	-1031.86	10645.80	10615.57	169.39	1762.00	86.05	2803.21	158.94	2644.27	2696.42	26.85	OSF1.50	Pass
10800.00	10702.60	-108.39	-1034.98	10732.84	10702.60	169.39	1762.00	85.94	2810.73	159.62	2651.12	2703.49	26.81	OSF1.50	Pass
10900.00	10779.81	-171.61	-1039.02	10810.05	10779.81	169.39	1762.00	86.04	2821.69	160.24	2661.45	2714.03	26.81	OSF1.50	Pass
11000.00	10844.85	-247.25	-1043.85	10875.08	10844.85	169.39	1762.00	86.54	2836.61	160.80	2675.61	2728.58	26.85	OSF1.50	Pass
11100.00	10895.73	-333.02	-1048.33	10925.97	10895.73	169.39	1762.00	87.60	2855.87	161.28	2694.59	2747.51	26.96	OSF1.50	Pass
11200.00	10930.92	-426.30	-1055.29	10961.16	10930.92	169.39	1762.00	89.36	2879.57	161.65	2717.92	2770.97	27.12	OSF1.50	Pass
11300.00	10953.24	-523.60	-1060.50	10983.48	10953.24	169.39	1762.00	89.38	2906.32	161.95	2744.37	2797.52	27.32	OSF1.50	Pass
11400.00	10967.26	-622.53	-1063.52	10997.50	10967.26	169.39	1762.00	89.41	2934.40	162.19	2772.20	2825.43	27.54	OSF1.50	Pass
11500.00	10972.89	-722.34	-1064.33	11003.12	10972.89	169.39	1762.00	89.58	2963.66	162.39	2801.27	2854.57	27.78	OSF1.50	Pass
11600.00	10973.23	-822.34	-1063.75	11003.47	10973.23	169.39	1762.00	89.60	2994.72	162.56	2832.16	2885.52	28.04	OSF1.50	Pass
11700.00	10973.49	-922.34	-1063.15	11003.73	10973.49	169.39	1762.00	89.60	3028.75	162.74	2866.00	2919.42	28.33	OSF1.50	Pass
11800.00	10973.75	-1022.33	-1062.55	11003.99	10973.75	169.39	1762.00	89.59	3065.66	162.94	2902.72	2956.20	28.64	OSF1.50	Pass
11900.00	10974.02	-1122.33	-1061.95	11004.25	10974.02	169.39	1762.00	89.59	3105.35	163.14	2942.21	2995.75	28.97	OSF1.50	Pass
12000.00	10974.28	-1222.33	-1061.35	11004.51	10974.28	169.39	1762.00	89.59	3145.61	163.34	2970.30	3027.90	29.28	OSF1.50	Pass
12100.00	10974.54	-1322.33	-1060.75	11004.77	10974.54	169.39	1762.00	89.59	3185.87	163.54	3000.39	3060.00	29.59	OSF1.50	Pass
12200.00	10974.80	-1422.33	-1060.15	11005.03	10974.80	169.39	1762.00	89.59	3226.13	163.74	3030.48	3090.10	29.90	OSF1.50	Pass
12300.00	10975.06	-1522.33	-1059.55	11005.29	10975.06	169.39	1762.00	89.59	3266.39	163.94	3060.57	3120.20	30.21	OSF1.50	Pass
12400.00	10975.33	-1622.33	-1058.95	11005.55	10975.33	169.39	1762.00	89.59	3306.65	164.14	3090.66	3150.30	30.52	OSF1.50	Pass
12500.00	10975.59	-1722.33	-1058.34	11005.81	10975.59	169.39	1762.00	89.59	3346.91	164.34	3120.75	3180.40	30.83	OSF1.50	Pass
12600.00	10975.85	-1822.33	-1057.74	11006.07	10975.85	169.39	1762.00	89.59	3387.17	164.54	3150.84	3210.50	31.14	OSF1.50	Pass
12700.00	10976.11	-1922.33	-1057.14	11006.33	10976.11	169.39	1762.00	89.59	3427.43	164.74	3180.93	3240.60	31.45	OSF1.50	Pass
12800.00	10976.37	-2022.33	-1056.54	11006.59	10976.37	169.39	1762.00	89.59	3467.69	164.94	3211.02	3270.70	31.76	OSF1.50	Pass
12900.00	10976.63	-2122.33	-1055.94	11006.85	10976.63	169.39	1762.00	89.59	3507.95	165.14	3241.11	3300.80	32.07	OSF1.50	Pass
13000.00	10976.90	-2222.33	-1055.34	11007.11	10976.90	169.39	1762.00	89.59	3548.21	165.34	3271.20	3330.90	32.38	OSF1.50	Pass
13100.00	10977.16	-2322.33	-1054.74	11007.37	10977.16	169.39	1762.00	89.59	3588.47	165.54	3301.29	3361.00	32.69	OSF1.50	Pass
13200.00	10977.42</														

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Cimarex Dos Equis 11-14 Federal Com 7H Rev0 RM 05Sept19

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
15200.00	10982.66	-4422.26	-1042.12	16723.21	12330.51	-4411.08	1789.41	64.20	3135.99	280.52	2855.46	2948.14	16.91	OSF1.50	Pass
15300.00	10982.92	-4522.26	-1041.52	16823.21	12330.09	-4511.08	1790.01	64.21	3135.69	284.69	2851.00	2945.06	16.65	OSF1.50	Pass
15400.00	10983.18	-4622.26	-1040.92	16923.21	12329.66	-4611.07	1790.61	64.22	3135.39	288.89	2846.50	2941.96	16.41	OSF1.50	Pass
15500.00	10983.45	-4722.25	-1040.32	17023.20	12329.23	-4711.07	1791.21	64.24	3135.09	293.11	2841.98	2938.85	16.17	OSF1.50	Pass
15600.00	10983.71	-4822.25	-1039.71	17123.20	12328.80	-4811.06	1791.81	64.25	3134.79	297.37	2837.43	2935.71	15.93	OSF1.50	Pass
15700.00	10983.97	-4922.25	-1039.11	17223.20	12328.37	-4911.06	1792.41	64.26	3134.49	301.65	2832.85	2932.56	15.70	OSF1.50	Pass
15800.00	10984.23	-5022.25	-1038.51	17323.20	12327.95	-5011.05	1793.01	64.27	3134.20	305.95	2828.24	2929.40	15.48	OSF1.50	Pass
15900.00	10984.49	-5122.25	-1037.91	17423.20	12327.52	-5111.05	1793.61	64.28	3133.90	310.28	2823.62	2926.21	15.26	OSF1.50	Pass
16000.00	10984.76	-5222.24	-1037.31	17523.19	12327.09	-5211.04	1794.20	64.29	3133.60	314.63	2818.97	2923.01	15.05	OSF1.50	Pass
16100.00	10985.02	-5322.24	-1036.71	17623.19	12326.66	-5311.04	1794.80	64.30	3133.30	319.01	2814.29	2919.80	14.84	OSF1.50	Pass
16200.00	10985.28	-5422.24	-1036.11	17723.19	12326.23	-5411.03	1795.40	64.31	3133.01	323.40	2809.60	2916.57	14.63	OSF1.50	Pass
16300.00	10985.54	-5522.24	-1035.51	17823.19	12325.80	-5511.03	1796.00	64.33	3132.71	327.82	2804.89	2913.33	14.43	OSF1.50	Pass
16400.00	10985.80	-5622.23	-1034.91	17923.18	12325.38	-5611.02	1796.60	64.34	3132.41	332.26	2800.15	2910.07	14.24	OSF1.50	Pass
16500.00	10986.07	-5722.23	-1034.31	18023.18	12324.95	-5711.02	1797.20	64.35	3132.11	336.71	2795.40	2906.81	14.05	OSF1.50	Pass
16600.00	10986.33	-5822.23	-1033.70	18123.18	12324.52	-5811.01	1797.80	64.36	3131.82	341.19	2790.63	2903.53	13.86	OSF1.50	Pass
16700.00	10986.59	-5922.23	-1033.10	18223.18	12324.09	-5911.01	1798.39	64.37	3131.52	345.68	2785.84	2900.23	13.68	OSF1.50	Pass
16800.00	10986.85	-6022.23	-1032.50	18323.17	12323.66	-6011.00	1798.99	64.38	3131.22	350.18	2781.04	2896.93	13.50	OSF1.50	Pass
16900.00	10987.11	-6122.22	-1031.90	18423.17	12323.23	-6111.00	1799.59	64.39	3130.93	354.71	2776.22	2893.62	13.32	OSF1.50	Pass
17000.00	10987.38	-6222.22	-1031.30	18523.17	12322.81	-6210.99	1800.19	64.41	3130.63	359.25	2771.38	2890.30	13.15	OSF1.50	Pass
17100.00	10987.64	-6322.22	-1030.70	18623.17	12322.38	-6310.99	1800.79	64.42	3130.33	363.80	2766.53	2886.96	12.99	OSF1.50	Pass
17200.00	10987.90	-6422.22	-1030.10	18723.16	12321.95	-6410.98	1801.39	64.43	3130.04	368.37	2761.66	2883.62	12.82	OSF1.50	Pass
17300.00	10988.16	-6522.22	-1029.50	18823.16	12321.52	-6510.98	1801.99	64.44	3129.74	372.96	2756.78	2880.27	12.66	OSF1.50	Pass
17400.00	10988.42	-6622.21	-1028.90	18923.16	12321.09	-6610.97	1802.58	64.45	3129.44	377.55	2751.89	2876.91	12.51	OSF1.50	Pass
17500.00	10988.69	-6722.21	-1028.30	19023.16	12320.67	-6710.97	1803.18	64.46	3129.15	382.16	2746.98	2873.54	12.35	OSF1.50	Pass
17600.00	10988.95	-6822.21	-1027.69	19123.15	12320.24	-6810.96	1803.78	64.47	3128.85	386.79	2742.07	2870.16	12.20	OSF1.50	Pass
17700.00	10989.21	-6922.21	-1027.09	19223.15	12319.81	-6910.95	1804.38	64.49	3128.56	391.42	2737.13	2866.78	12.06	OSF1.50	Pass
17800.00	10989.47	-7022.20	-1026.49	19323.15	12319.38	-7010.95	1804.98	64.50	3128.26	396.07	2732.19	2863.38	11.91	OSF1.50	Pass
17900.00	10989.73	-7122.20	-1025.89	19423.15	12318.95	-7110.94	1805.58	64.51	3127.97	400.73	2727.24	2859.98	11.77	OSF1.50	Pass
18000.00	10990.00	-7222.20	-1025.29	19523.15	12318.52	-7210.94	1806.18	64.52	3127.67	405.40	2722.27	2856.57	11.64	OSF1.50	Pass
18100.00	10990.26	-7322.20	-1024.69	19623.14	12318.10	-7310.93	1806.77	64.53	3127.37	410.08	2717.30	2853.16	11.50	OSF1.50	Pass
18200.00	10990.52	-7422.20	-1024.09	19723.14	12317.67	-7410.93	1807.37	64.54	3127.08	414.77	2712.31	2849.74	11.37	OSF1.50	Pass
18300.00	10990.78	-7522.19	-1023.49	19823.14	12317.24	-7510.92	1807.97	64.55	3126.78	419.47	2707.32	2846.31	11.24	OSF1.50	Pass
18400.00	10991.04	-7622.19	-1022.89	19923.14	12316.81	-7610.92	1808.57	64.57	3126.49	424.18	2702.31	2842.87	11.11	OSF1.50	Pass
18500.00	10991.31	-7722.19	-1022.29	20023.13	12316.38	-7710.91	1809.17	64.58	3126.19	428.90	2697.30	2839.43	10.99	OSF1.50	Pass
18600.00	10991.57	-7822.19	-1021.68	20123.13	12315.96	-7810.91	1809.77	64.59	3125.90	433.62	2692.28	2835.98	10.87	OSF1.50	Pass
18700.00	10991.83	-7922.19	-1021.08	20223.13	12315.53	-7910.90	1810.37	64.60	3125.61	438.36	2687.24	2832.53	10.75	OSF1.50	Pass
18800.00	10992.09	-8022.18	-1020.48	20323.13	12315.10	-8010.90	1810.96	64.61	3125.31	443.11	2682.20	2829.07	10.63	OSF1.50	Pass
18900.00	10992.35	-8122.18	-1019.88	20423.12	12314.67	-8110.89	1811.56	64.62	3125.02	447.86	2677.16	2825.61	10.52	OSF1.50	Pass
19000.00	10992.61	-8222.18	-1019.28	20523.12	12314.24	-8210.89	1812.16	64.63	3124.72	452.62	2672.10	2822.14	10.40	OSF1.50	Pass
19100.00	10992.88	-8322.18	-1018.68	20623.12	12313.81	-8310.88	1812.76	64.65	3124.43	457.39	2667.04	2818.67	10.29	OSF1.50	Pass
19200.00	10993.14	-8422.17	-1018.08	20723.12	12313.39	-8410.88	1813.36	64.66	3124.13	462.17	2661.96	2815.19	10.19	OSF1.50	Pass
19300.00	10993.40	-8522.17	-1017.48	20823.11	12312.96	-8510.87	1813.96	64.67	3123.84	466.96	2656.88	2811.70	10.08	OSF1.50	Pass
19400.00	10993.66	-8622.17	-1016.88	20923.11	12312.53	-8610.87	1814.56	64.68	3123.55	471.75	2651.80	2808.22	9.98	OSF1.50	Pass
19500.00	10993.92	-8722.17	-1016.28	21023.11	12312.10	-8710.86	1815.15	64.69	3123.25	476.55	2646.71	2804.72	9.87	OSF1.50	Pass
19600.00	10994.19	-8822.17	-1015.68	21123.11	12311.67	-8810.86	1815.75	64.70	3122.96	481.35	2641.61	2801.22	9.77	OSF1.50	Pass
19700.00	10994.45	-8922.16	-1015.07	21223.10	12311.25	-8910.85	1816.35	64.71	3122.67	486.17	2636.50	2797.72	9.68	OSF1.50	Pass
19800.00	10994.71	-9022.16	-1014.47	21323.10	12310.82	-9010.85	1816.95	64.73	3122.37	490.98	2631.39	2794.22	9.58	OSF1.50	Pass
19900.00	10994.97	-9122.16	-1013.87	21423.10	12310.39	-9110.84	1817.55	64.74	3122.08	495.81	2626.27	2790.71	9.49	OSF1.50	Pass
20000.00	10995.23	-9222.16	-1013.27	21523.10	12309.96	-9210.84	1818.15	64.75	3121.79	500.64	2621.15	2787.19	9.39	OSF1.50	Pass
20100.00	10995.50	-9322.16	-1012.67	21623.10	12309.53	-9310.83	1818.75	64.76	3121.50	505.48	2616.02	2783.68	9.30	OSF1.50	Pass
20200.00	10995.76	-9422.15	-1012.07	21723.09	12309.10	-9410.83	1819.34	64.77	3121.20	510.32	2610.88	2780.16	9.21	OSF1.50	Pass
20300.00	10996.02	-9522.15	-1011.47	21823.09	12308.68	-9510.82	1819.94	64.78	3120.91	515.17	2605.74	2776.63	9.12	OSF1.50	Pass
20400.00	10996.28	-9622.15	-1010.87	21923.09	12308.25	-9610.82	1820.54	64.79	3120.62	520.02	2600.59	2773.10	9.04	OSF1.50	Pass
20500.00	10996.54	-9722.15	-1010.27	22023.09	12307.82	-9710.81	1821.14	64.81	3120.33	524.88	2595.44	2769.57	8.95	OSF1.50	Pass
20600.00	10996.81	-9822.14	-1009.67	22123.08	12307.39	-9810.81	1821.74	64.82	3120.03	529.75	2590.29	2766.04	8.87	OSF1.50	Pass
20700.00	10997.07	-9922.14	-1009.06	22214.43	12307.00	-9902.16	1822.29	64.83	3119.78	534.29	2585.46	2762.73	8.79	OSF1.50	Pass
20712.06	10997.10	-9934.20	-1008.99	22214.43	12307.00	-9902.16	1822.29	64.83	3119.78	534.42	2585.36	2762.66	8.79	OSF1.50	Pass

End of results

...Dos Equis 11-14 Federal Com 25Y\Coterra Dos Equis 11-14 Federal Com 25Y Rev0 kFc 16Jun22

Drilling Office 2.10.829.1

Schlumberger-Private

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Field: NM Lea County (NAD 83) Well: Bill J Graham Oil Hanagan D #4 (Offset)
 Structure: Bill J Graham Oil Hanagan D #4 (Offset) Borehole: Original Borehole
 Slot: Bill J Graham Oil Hanagan D #4 (Offset) Trajectory: Bill J Graham Oil Hanagan D #4 Inc Only to 5107ft - P
 Client: Def Survey Type:
 Coordinate System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 North Reference: Grid Grid Convergence Angle: 0.36580141° Grid Scale Factor: 0.999960589
 Magnetic Declination: 6.671° Magnetic Declination Date: August 26, 2019 Magnetic Model: HDGM 2019
 Reference Point:
 Northing: Easting Elevation Structure Unc. Slot Unc.
 449537.372 (ftUS) 753386.648 (ftUS) 3631.950 (ft) MSL 0.000 (ft) (3 sigma) 0.000 (ft) (3 sigma)

Trajectory Error Model: ISCSWA0 3-D 95.000% Confidence 2.7955 sigma

Surveying Prog: As Drilled

Description	MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type	Hole Size (in)	Casing Diameter (in)	Borehole / Survey
	0.000	0.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	aham Oil Hanagan D #4 Inc Only to 5107ft - P
	0.000	356.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	aham Oil Hanagan D #4 Inc Only to 5107ft - P
	356.000	356.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	aham Oil Hanagan D #4 Inc Only to 5107ft - P
	356.000	700.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	aham Oil Hanagan D #4 Inc Only to 5107ft - P
	700.000	766.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	aham Oil Hanagan D #4 Inc Only to 5107ft - P
	766.000	1150.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	aham Oil Hanagan D #4 Inc Only to 5107ft - P
	1150.000	1230.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	aham Oil Hanagan D #4 Inc Only to 5107ft - P
	1230.000	1800.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	aham Oil Hanagan D #4 Inc Only to 5107ft - P
	1800.000	1884.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	aham Oil Hanagan D #4 Inc Only to 5107ft - P
	1884.000	2249.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	aham Oil Hanagan D #4 Inc Only to 5107ft - P
	2249.000	2340.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	aham Oil Hanagan D #4 Inc Only to 5107ft - P
	2340.000	2893.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	aham Oil Hanagan D #4 Inc Only to 5107ft - P
	2893.000	2893.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	aham Oil Hanagan D #4 Inc Only to 5107ft - P
	2893.000	3430.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	aham Oil Hanagan D #4 Inc Only to 5107ft - P
	3430.000	3430.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	aham Oil Hanagan D #4 Inc Only to 5107ft - P
	3430.000	3820.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	aham Oil Hanagan D #4 Inc Only to 5107ft - P
	3820.000	3820.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	aham Oil Hanagan D #4 Inc Only to 5107ft - P
	3820.000	4510.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	aham Oil Hanagan D #4 Inc Only to 5107ft - P
	4510.000	5107.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	aham Oil Hanagan D #4 Inc Only to 5107ft - P

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
0.00	0.00	0.00	0.00	0.00	8.65	-1422.31	328.11	167.01	1459.69	32.81	1426.88	1457.19	N/A	10.00 (m)	Pass
22.00	22.00	0.00	0.00	13.14	21.79	-1422.31	328.12	167.01	1459.66	32.81	1426.85	1456.93	6312.89	10.00 (m)	Pass
100.00	100.00	0.00	0.00	89.90	98.55	-1422.31	328.31	167.00	1459.71	32.81	1426.90	1455.60	908.80	10.00 (m)	Pass
200.00	200.00	0.00	0.00	188.32	196.96	-1422.31	328.98	166.98	1459.86	32.81	1427.05	1452.31	288.57	10.00 (m)	Pass
300.00	300.00	0.00	0.00	286.72	295.36	-1422.31	330.13	166.93	1460.12	32.81	1427.32	1448.72	163.78	10.00 (m)	Pass
400.00	400.00	0.00	0.00	384.03	392.66	-1422.33	331.69	166.87	1460.51	32.81	1427.70	1445.26	114.34	10.00 (m)	Pass
500.00	500.00	0.00	0.00	478.78	487.40	-1422.69	332.98	166.83	1461.19	32.81	1428.38	1442.14	88.12	10.00 (m)	Pass
600.00	599.99	-0.87	0.00	573.54	582.15	-1423.51	333.81	166.80	1461.38	32.81	1428.57	1438.74	72.43	10.00 (m)	Pass
700.00	699.98	-2.62	0.00	668.30	676.91	-1424.78	334.19	166.78	1461.08	37.93	1423.15	1434.96	61.75	OSF1.50	Pass
800.00	799.96	-4.36	0.00	800.80	809.38	-1425.85	332.78	166.82	1459.95	44.05	1415.90	1429.75	52.62	OSF1.50	Pass
900.00	899.95	-6.11	0.00	907.35	915.91	-1425.32	330.98	166.87	1457.38	48.58	1408.00	1424.16	47.36	OSF1.50	Pass
1000.00	999.93	-7.85	0.00	1013.98	1022.43	-1424.14	329.84	166.88	1454.36	53.67	1400.69	1417.75	42.56	OSF1.50	Pass
1100.00	1099.92	-9.60	0.00	1120.39	1128.92	-1422.32	329.34	166.87	1450.89	59.07	1391.82	1410.67	38.40	OSF1.50	Pass
1200.00	1199.90	-11.34	0.00	1197.20	1205.72	-1420.97	329.80	166.83	1447.70	63.27	1384.44	1404.69	35.67	OSF1.50	Pass
1300.00	1299.89	-13.09	0.00	1278.70	1287.17	-1420.86	332.33	166.72	1446.52	68.11	1378.41	1400.28	33.01	OSF1.50	Pass
1400.00	1399.87	-14.83	0.00	1376.43	1384.87	-1421.15	335.16	166.60	1445.78	74.10	1371.68	1395.55	30.24	OSF1.50	Pass
1500.00	1499.86	-16.58	0.00	1474.21	1482.61	-1421.74	337.40	166.50	1445.20	80.15	1365.05	1390.93	27.87	OSF1.50	Pass
1506.20	1506.06	-16.69	-0.01	1480.27	1488.67	-1421.78	337.52	166.49	1445.17	80.52	1364.66	1390.66	27.74	OSF1.50	Pass
1600.00	1599.83	-18.11	-1.73	1571.97	1580.36	-1422.61	339.06	166.38	1445.39	86.02	1359.37	1387.21	25.91	OSF1.50	Pass
1700.00	1699.68	-19.20	-6.92	1669.62	1678.00	-1423.78	340.13	166.20	1446.98	91.64	1355.35	1385.06	24.31	OSF1.50	Pass
1800.00	1799.30	-19.86	-15.57	1767.10	1775.47	-1425.24	340.62	165.94	1450.01	96.98	1353.03	1384.52	22.98	OSF1.50	Pass
1900.00	1898.56	-20.08	-27.66	1896.08	1904.43	-1426.53	339.95	165.46	1453.70	103.38	1350.33	1383.95	21.58	OSF1.50	Pass
2000.00	1997.44	-19.94	-42.59	2004.60	2012.94	-1426.01	338.79	164.91	1456.95	108.34	1348.61	1383.89	20.61	OSF1.50	Pass
2100.00	2096.27	-19.77	-57.80	2112.95	2121.28	-1424.65	338.05	164.30	1459.80	113.48	1346.32	1383.32	19.70	OSF1.50	Pass
2200.00	2195.11	-19.59	-73.01	2221.14	2229.45	-1422.45	337.73	163.67	1462.16	118.84	1343.32	1382.10	18.82	OSF1.50	Pass
2300.00	2293.95	-19.42	-88.22	2296.44	2304.73	-1420.83	338.09	163.21	1464.87	123.08	1341.79	1381.98	18.19	OSF1.50	Pass
2400.00	2392.78	-19.24	-103.44	2369.11	2377.37	-1420.59	339.97	162.73	1469.91	127.52	1342.39	1384.06	17.61	OSF1.50	Pass
2500.00	2491.62	-19.07	-118.65	2461.63	2469.86	-1421.03	342.41	162.12	1475.99	133.38	1342.61	1386.24	16.89	OSF1.50	Pass
2600.00	2590.45	-18.89	-133.86	2554.31	2562.52	-1422.01	344.38	161.54	1482.65	139.10	1343.54	1389.08	16.25	OSF1.50	Pass
2700.00	2689.29	-18.71	-149.07	2647.14	2655.32	-1423.54	345.88	160.99	1489.85	144.68	1345.18	1392.57	15.69	OSF1.50	Pass
2800.00	2788.13	-18.54	-164.28	2740.11	2748.26	-1425.61	346.91	160.47	1497.45	150.14	1347.45	1396.66	15.19	OSF1.50	Pass
2900.00	2886.96	-18.36	-179.49	2833.20	2841.31	-1428.24	347.45	159.98	1505.82	155.56	1350.27	1401.29	14.73	OSF1.50	Pass
3000.00	2985.80	-18.19	-194.71	2932.94	2941.00	-1431.56	347.52	159.48	1514.47	161.33	1353.14	1406.08	14.28	OSF1.50	Pass
3100.00	3084.64	-18.01	-209.92	3044.55	3052.56	-1434.76	347.08	158.94	1522.64	167.74	1354.91	1409.99	13.80	OSF1.50	Pass
3200.00	3183.47	-17.84	-225.13	3156.35	3164.33	-1437.15	346.14	158.41	1530.09	173.80	1356.29	1413.39	13.38	OSF1.50	Pass
3300.00	3282.31	-17.66	-240.34	3268.34	3276.29	-1438.74	344.69	157.90	1536.80	179.44	1357.36	1416.34	13.01	OSF1.50	Pass
3400.00	3381.14	-17.48	-255.55	3380.48	3388.42	-1439.51	342.72	157.39	1542.77	184.67	1358.09	1418.82	12.68	OSF1.50	Pass
3500.00	3479.98	-17.31	-270.76	3489.02	3496.93	-1439.47	340.50	156.90	1548.05	189.61	1358.44	1420.81	12.39	OSF1.50	Pass
3600.00	3578.82	-17.13	-285.97	3594.50	3602.40	-1438.68	338.86	156.40	1552.98	194.31	1358.68	1422.61	12.13	OSF1.50	Pass
3700.00	3677.65	-16.96	-301.19	3699.79	3707.68	-1437.14	337.84	155.88	1557.62	199.02	1358.60	1424.11	11.87	OSF1.50	Pass
3800.00	3776.49	-16.78	-316.40	3804.88	3812.73	-1434.87	337.45	155.32	1561.98	203.72	1358.26	1425.33	11.62	OSF1.50	Pass
3900.00	3875.32	-16.61	-331.61	3895.70	3903.53	-1432.61	337.71	154.82	1566.47	208.11	1358.36	1426.90	11.41	OSF1.50	Pass
4000.00	3974.16	-16.43	-346.82	3983.94	3991.74	-1430.70	338.71	154.32	1571.76	212.63	1359.12	1429.17	11.20	OSF1.50	Pass
4100.00	4073.00	-16.26	-362.03	4071.93	4079.70	-1429.09	340.45	153.80	1577.85	217.47	1360.39	1432.04	10.99	OSF1.50	Pass
4200.00	4171.83	-16.08	-377.24	4159.68	4167.40	-1427.78	342.91	153.27	1584.78	222.62	1362.16	1435.54	10.78	OSF1.50	Pass
4300.00	4270.67	-15.90	-392.46	4247.16	4254.82	-1426.76	346.09	152.72	1592.55	228.12	1364.42	1439.63	10.57	OSF1.50	Pass
4400.00	4369.50	-15.73	-407.67	4334.35	4341.92	-1426.03	349.98	152.17	1601.17	234.07	1367.10	1444.29	10.36	OSF1.50	Pass
4500.00	4468.34	-15.55	-422.88	4421.26	4428.71	-1425.59	354.58	151.60	1610.66	240.92	1369.74	1449.22	10.12	OSF1.50	Pass
4600.00	4567.18	-15.38	-438.09	4507.87	4515.15	-1425.45	359.87	151.03	1621.03	247.73	1373.30	1455.04	9.90	OSF1.50	Pass
4700.00	4666.01	-15.20	-453.30	4589.96	4597.12	-1426.59	364.02	150.54	1632.41	253.71	1378.70	1462.44	9.73	OSF1.50	Pass
4800.00	4764.85	-15.03	-468.51	4672.77	4679.83	-1430.18	365.59	150.17	1644.88	259.72	1385.15	1470.89	9.58	OSF1.50	Pass

...Dos Equis 11-14 Federal Com 25Y\Oterra Dos Equis 11-14 Federal Com 25Y Rev0 kFc 16Jun22

Drilling Office 2.10.829.1

Schlumberger-Private

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Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Bill J Graham Oil Hanagan D #4 Inc Only to 5107ft - P

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
4900.00	4863.69	-14.85	-483.73	4951.35	4957.97	-1431.29	354.98	149.24	1648.82	268.09	1380.74	1469.26	9.30	OSF1.50	Pass
5000.00	4962.52	-14.67	-498.94	5019.24	5025.74	-1427.25	354.89	148.86	1651.79	271.37	1380.41	1470.04	9.20	OSF1.50	Pass
5100.00	5061.36	-14.50	-514.15	5076.69	5083.16	-1425.53	354.89	148.58	1657.32	274.51	1382.81	1473.48	9.13	OSF1.50	Pass
5200.00	5160.19	-14.32	-529.36	5107.00	5113.47	-1425.29	354.89	148.44	1665.81	276.15	1389.65	1480.87	9.12	OSF1.50	Pass
5300.00	5259.03	-14.15	-544.57	5107.00	5113.47	-1425.29	354.89	148.44	1679.75	275.62	1404.12	1495.16	9.21	OSF1.50	Pass
5400.00	5357.87	-13.97	-559.78	5107.00	5113.47	-1425.29	354.89	148.44	1699.46	274.23	1425.23	1515.81	9.37	OSF1.50	Pass
5500.00	5456.70	-13.80	-574.99	5107.00	5113.47	-1425.29	354.89	148.44	1724.76	272.05	1452.71	1542.56	9.58	OSF1.50	Pass
5600.00	5555.54	-13.62	-590.21	5107.00	5113.47	-1425.29	354.89	148.44	1755.40	269.18	1486.22	1575.12	9.86	OSF1.50	Pass
5700.00	5654.37	-13.45	-605.42	5107.00	5113.47	-1425.29	354.89	148.44	1791.11	265.72	1525.40	1613.13	10.19	OSF1.50	Pass
5800.00	5753.21	-13.27	-620.63	5107.00	5113.47	-1425.29	354.89	148.44	1831.59	261.76	1569.62	1656.25	10.58	OSF1.50	Pass
5900.00	5852.05	-13.09	-635.84	5107.00	5113.47	-1425.29	354.89	148.44	1876.52	257.42	1619.10	1704.08	11.03	OSF1.50	Pass
6000.00	5950.88	-12.92	-651.05	5107.00	5113.47	-1425.29	354.89	148.44	1925.61	252.80	1672.81	1756.24	11.52	OSF1.50	Pass
6100.00	6049.72	-12.74	-666.26	5107.00	5113.47	-1425.29	354.89	148.44	1978.54	247.98	1730.56	1812.39	12.07	OSF1.50	Pass
6200.00	6148.55	-12.57	-681.48	5107.00	5113.47	-1425.29	354.89	148.44	2035.01	243.04	1791.97	1872.15	12.67	OSF1.50	Pass
6300.00	6247.39	-12.39	-696.69	5107.00	5113.47	-1425.29	354.89	148.44	2094.73	238.05	1856.68	1935.20	13.32	OSF1.50	Pass
6400.00	6346.23	-12.22	-711.90	5107.00	5113.47	-1425.29	354.89	148.44	2157.43	233.06	1924.38	2001.23	14.02	OSF1.50	Pass
6500.00	6445.06	-12.04	-727.11	5107.00	5113.47	-1425.29	354.89	148.44	2222.87	228.12	1994.75	2069.96	14.76	OSF1.50	Pass
6600.00	6543.90	-11.87	-742.32	5107.00	5113.47	-1425.29	354.89	148.44	2290.80	223.26	2067.54	2141.13	15.55	OSF1.50	Pass
6700.00	6642.74	-11.69	-757.53	5107.00	5113.47	-1425.29	354.89	148.44	2361.02	218.52	2142.50	2214.50	16.38	OSF1.50	Pass
6800.00	6741.57	-11.51	-772.75	5107.00	5113.47	-1425.29	354.89	148.44	2433.32	213.92	2219.40	2289.87	17.25	OSF1.50	Pass
6900.00	6840.41	-11.34	-787.96	5107.00	5113.47	-1425.29	354.89	148.44	2507.53	209.47	2298.06	2367.05	18.16	OSF1.50	Pass
7000.00	6939.24	-11.16	-803.17	5107.00	5113.47	-1425.29	354.89	148.44	2583.47	205.17	2378.30	2445.86	19.10	OSF1.50	Pass
7100.00	7038.08	-10.99	-818.38	5107.00	5113.47	-1425.29	354.89	148.44	2661.01	201.04	2459.96	2526.14	20.08	OSF1.50	Pass
7200.00	7136.92	-10.81	-833.59	5107.00	5113.47	-1425.29	354.89	148.44	2740.00	197.09	2542.91	2607.77	21.10	OSF1.50	Pass
7300.00	7235.75	-10.64	-848.80	5107.00	5113.47	-1425.29	354.89	148.44	2820.32	193.30	2627.02	2690.62	22.15	OSF1.50	Pass
7400.00	7334.59	-10.46	-864.01	5107.00	5113.47	-1425.29	354.89	148.44	2901.87	189.68	2712.19	2774.58	23.23	OSF1.50	Pass
7500.00	7433.42	-10.28	-879.23	5107.00	5113.47	-1425.29	354.89	148.44	2984.54	186.23	2798.31	2859.55	24.35	OSF1.50	Pass
7600.00	7532.26	-10.11	-894.44	5107.00	5113.47	-1425.29	354.89	148.44	3068.24	182.94	2885.30	2945.45	25.49	OSF1.50	Pass
7700.00	7631.10	-9.93	-909.65	5107.00	5113.47	-1425.29	354.89	148.44	3152.90	179.81	2973.09	3032.19	26.65	OSF1.50	Pass
7800.00	7729.93	-9.76	-924.86	5107.00	5113.47	-1425.29	354.89	148.44	3238.42	176.83	3061.59	3119.70	27.84	OSF1.50	Pass
7900.00	7828.77	-9.58	-940.07	5107.00	5113.47	-1425.29	354.89	148.44	3324.76	174.00	3150.76	3207.92	29.06	OSF1.50	Pass
8000.00	7927.60	-9.41	-955.28	5107.00	5113.47	-1425.29	354.89	148.44	3411.84	171.32	3240.52	3296.80	30.29	OSF1.50	Pass
8100.00	8026.44	-9.23	-970.50	5107.00	5113.47	-1425.29	354.89	148.44	3499.61	168.76	3330.85	3386.27	31.55	OSF1.50	Pass
8200.00	8125.28	-9.06	-985.71	5107.00	5113.47	-1425.29	354.89	148.44	3588.02	166.35	3421.68	3476.29	32.83	OSF1.50	Pass
8300.00	8224.15	-8.88	-1000.68	5107.00	5113.47	-1425.29	354.89	147.21	3676.97	164.04	3512.93	3566.78	34.12	OSF1.50	Pass
8400.00	8323.40	-8.74	-1012.88	5107.00	5113.47	-1425.29	354.89	144.05	3765.77	161.75	3604.02	3657.11	35.45	OSF1.50	Pass
8500.00	8423.01	-8.64	-1021.60	5107.00	5113.47	-1425.29	354.89	141.08	3854.18	159.44	3694.74	3747.05	36.81	OSF1.50	Pass
8600.00	8522.87	-8.58	-1026.84	5107.00	5113.47	-1425.29	354.89	138.29	3942.11	157.13	3784.99	3836.53	38.22	OSF1.50	Pass
8700.00	8622.85	-8.56	-1028.60	5107.00	5113.47	-1425.29	354.89	135.69	4029.51	154.80	3874.70	3925.47	39.66	OSF1.50	Pass
8800.00	8722.85	-8.56	-1028.60	5107.00	5113.47	-1425.29	354.89	135.68	4116.89	152.53	3964.36	4014.37	41.14	OSF1.50	Pass
8900.00	8822.85	-8.56	-1028.60	5107.00	5113.47	-1425.29	354.89	135.68	4204.84	150.37	4054.47	4103.76	42.63	OSF1.50	Pass
9000.00	8922.85	-8.56	-1028.60	5107.00	5113.47	-1425.29	354.89	135.68	4293.31	148.32	4144.99	4193.60	44.14	OSF1.50	Pass
9100.00	9022.85	-8.56	-1028.60	5107.00	5113.47	-1425.29	354.89	135.68	4382.28	146.38	4235.91	4283.87	45.66	OSF1.50	Pass
9200.00	9122.85	-8.56	-1028.60	5107.00	5113.47	-1425.29	354.89	135.68	4471.72	144.54	4327.19	4374.53	47.20	OSF1.50	Pass
9300.00	9222.85	-8.56	-1028.60	5107.00	5113.47	-1425.29	354.89	135.68	4561.60	142.79	4418.81	4465.57	48.75	OSF1.50	Pass
9400.00	9322.85	-8.56	-1028.60	5107.00	5113.47	-1425.29	354.89	135.68	4651.89	141.14	4510.74	4556.96	50.30	OSF1.50	Pass
9500.00	9422.85	-8.56	-1028.60	5107.00	5113.47	-1425.29	354.89	135.68	4742.57	139.58	4602.98	4648.68	51.87	OSF1.50	Pass
9600.00	9522.85	-8.56	-1028.60	5107.00	5113.47	-1425.29	354.89	135.68	4833.61	138.11	4695.50	4740.70	53.44	OSF1.50	Pass
9700.00	9622.85	-8.56	-1028.60	5107.00	5113.47	-1425.29	354.89	135.68	4925.01	136.73	4788.28	4833.02	55.01	OSF1.50	Pass
9800.00	9722.85	-8.56	-1028.60	5107.00	5113.47	-1425.29	354.89	135.68	5016.73	135.42	4881.30	4925.61	56.58	OSF1.50	Pass
9900.00	9822.85	-8.56	-1028.60	5107.00	5113.47	-1425.29	354.89	135.68	5108.76	134.20	4974.56	5018.46	58.16	OSF1.50	Pass
10000.00	9922.85	-8.56	-1028.60	5107.00	5113.47	-1425.29	354.89	135.68	5201.09	133.05	5068.03	5111.55	59.73	OSF1.50	Pass
10100.00	10022.85	-8.56	-1028.60	5107.00	5113.47	-1425.29	354.89	135.68	5293.69	131.98	5161.71	5204.87	61.30	OSF1.50	Pass
10200.00	10122.85	-8.56	-1028.60	5107.00	5113.47	-1425.29	354.89	135.68	5386.56	130.98	5255.58	5298.41	62.86	OSF1.50	Pass
10300.00	10222.85	-8.56	-1028.60	5107.00	5113.47	-1425.29	354.89	135.68	5479.68	130.05	5349.63	5392.15	64.41	OSF1.50	Pass
10400.00	10322.85	-8.56	-1028.60	5107.00	5113.47	-1425.29	354.89	135.68	5573.04	129.19	5443.86	5486.08	65.96	OSF1.50	Pass
10500.00	10422.81	-10.22	-1028.71	5107.00	5113.47	-1425.29	354.89	143.19	5666.20	128.13	5538.07	5579.95	67.62	OSF1.50	Pass
10600.00	10521.35	-26.45	-1029.74	5107.00	5113.47	-1425.29	354.89	154.24	5754.92	126.93	5627.99	5669.46	69.34	OSF1.50	Pass
10700.00	10615.57	-59.51	-1031.86	5107.00	5113.47	-1425.29	354.89	160.45	5836.22	125.46	5710.77	5751.75	71.17	OSF1.50	Pass
10800.00	10702.60	-108.39	-1034.98	5107.00	5113.47	-1425.29	354.89	164.21	5907.99	123.78	5784.21	5824.64	73.04	OSF1.50	Pass
10900.00	10779.81	-171.61	-1039.02	5107.00	5113.47	-1425.29	354.89	166.80	5968.43	121.99	5846.44	5886.27	74.89	OSF1.50	Pass
11000.00	10844.85	-247.25	-1043.85	5107.00	5113.47	-1425.29	354.89	168.12	6016.06	120.16	5895.90	5935.12	76.66	OSF1.50	Pass
11100.00	10895.73	-333.02	-1048.33	5107.00	5113.47	-1425.29	354.89	169.05	6049.75	118.39	5931.36	5969.99	78.27	OSF1.50	Pass
11200.00	10930.92	-426.30	-1055.29	5107.00	5113.47	-1425.29	354.89	169.53	6068.72	116.77	5951.95	5990.04	79.63	OSF1.50	Pass
11300.00	10953.24	-523.60	-1060.50	5107.00	5113.47	-1425.29	354.89	168.57	6076.13	115.32	5960.80	5998.41	80.75	OSF1.50	Pass
11400.00	10967.26	-622.53	-1063.52	5107.00	5113.47	-1425.29	354.89	167.45	6076.45						

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Bill J Graham Oil Hanagan D #4 Inc Only to 5107ft - P

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
13400.00	10977.94	-2622.30	-1052.94	5107.00	5113.47	-1425.29	354.89	166.08	6148.73	133.09	6015.64	6059.17	70.60	OSF1.50	Pass
13500.00	10978.21	-2722.30	-1052.33	5107.00	5113.47	-1425.29	354.89	166.08	6169.09	135.81	6033.28	6077.72	69.39	OSF1.50	Pass
13600.00	10978.47	-2822.29	-1051.73	5107.00	5113.47	-1425.29	354.89	166.08	6191.00	138.61	6052.39	6097.76	68.20	OSF1.50	Pass
13700.00	10978.73	-2922.29	-1051.13	5107.00	5113.47	-1425.29	354.89	166.08	6214.44	141.48	6072.96	6119.28	67.05	OSF1.50	Pass
13800.00	10978.99	-3022.29	-1050.53	5107.00	5113.47	-1425.29	354.89	166.08	6239.39	144.41	6094.98	6142.29	65.93	OSF1.50	Pass
13900.00	10979.25	-3122.29	-1049.93	5107.00	5113.47	-1425.29	354.89	166.08	6265.84	147.38	6118.46	6166.75	64.85	OSF1.50	Pass
14000.00	10979.52	-3222.29	-1049.33	5107.00	5113.47	-1425.29	354.89	166.08	6293.77	150.40	6143.38	6192.67	63.81	OSF1.50	Pass
14100.00	10979.78	-3322.28	-1048.73	5107.00	5113.47	-1425.29	354.89	166.08	6323.16	153.44	6169.72	6220.03	62.81	OSF1.50	Pass
14200.00	10980.04	-3422.28	-1048.13	5107.00	5113.47	-1425.29	354.89	166.08	6353.98	156.50	6197.48	6248.82	61.86	OSF1.50	Pass
14300.00	10980.30	-3522.28	-1047.53	5107.00	5113.47	-1425.29	354.89	166.08	6386.23	159.58	6226.65	6279.01	60.96	OSF1.50	Pass
14400.00	10980.56	-3622.28	-1046.93	5107.00	5113.47	-1425.29	354.89	166.08	6419.86	162.66	6257.20	6310.59	60.10	OSF1.50	Pass
14500.00	10980.83	-3722.28	-1046.33	5107.00	5113.47	-1425.29	354.89	166.08	6454.88	165.74	6289.14	6343.59	59.29	OSF1.50	Pass
14600.00	10981.09	-3822.27	-1045.72	5107.00	5113.47	-1425.29	354.89	166.08	6491.24	168.82	6322.42	6377.86	58.52	OSF1.50	Pass
14700.00	10981.35	-3922.27	-1045.12	5107.00	5113.47	-1425.29	354.89	166.08	6528.94	171.88	6357.05	6413.51	57.80	OSF1.50	Pass
14800.00	10981.61	-4022.27	-1044.52	5107.00	5113.47	-1425.29	354.89	166.08	6567.94	174.93	6393.01	6450.48	57.11	OSF1.50	Pass
14900.00	10981.87	-4122.27	-1043.92	5107.00	5113.47	-1425.29	354.89	166.08	6608.22	177.96	6430.26	6488.75	56.47	OSF1.50	Pass
15000.00	10982.14	-4222.26	-1043.32	5107.00	5113.47	-1425.29	354.89	166.08	6649.76	180.96	6468.80	6528.29	55.87	OSF1.50	Pass
15100.00	10982.40	-4322.26	-1042.72	5107.00	5113.47	-1425.29	354.89	166.08	6692.54	183.93	6508.61	6569.09	55.31	OSF1.50	Pass
15200.00	10982.66	-4422.26	-1042.12	5107.00	5113.47	-1425.29	354.89	166.08	6736.53	186.87	6549.66	6611.12	54.79	OSF1.50	Pass
15300.00	10982.92	-4522.26	-1041.52	5107.00	5113.47	-1425.29	354.89	166.08	6781.71	189.78	6591.93	6654.36	54.30	OSF1.50	Pass
15400.00	10983.18	-4622.26	-1040.92	5107.00	5113.47	-1425.29	354.89	166.08	6828.06	192.66	6635.41	6698.79	53.84	OSF1.50	Pass
15500.00	10983.45	-4722.25	-1040.32	5107.00	5113.47	-1425.29	354.89	166.08	6875.55	195.49	6680.06	6744.39	53.42	OSF1.50	Pass
15600.00	10983.71	-4822.25	-1039.71	5107.00	5113.47	-1425.29	354.89	166.08	6924.16	198.28	6725.88	6791.14	53.03	OSF1.50	Pass
15700.00	10983.97	-4922.25	-1039.11	5107.00	5113.47	-1425.29	354.89	166.08	6973.86	201.04	6772.83	6839.01	52.67	OSF1.50	Pass
15800.00	10984.23	-5022.25	-1038.51	5107.00	5113.47	-1425.29	354.89	166.08	7024.64	203.74	6820.89	6887.98	52.34	OSF1.50	Pass
15900.00	10984.49	-5122.25	-1037.91	5107.00	5113.47	-1425.29	354.89	166.08	7076.46	206.41	6870.05	6938.02	52.04	OSF1.50	Pass
16000.00	10984.76	-5222.24	-1037.31	5107.00	5113.47	-1425.29	354.89	166.08	7129.31	209.03	6920.28	6989.13	51.76	OSF1.50	Pass
16100.00	10985.02	-5322.24	-1036.71	5107.00	5113.47	-1425.29	354.89	166.08	7183.17	211.60	6971.56	7041.26	51.51	OSF1.50	Pass
16200.00	10985.28	-5422.24	-1036.11	5107.00	5113.47	-1425.29	354.89	166.08	7238.00	214.13	7023.87	7094.41	51.28	OSF1.50	Pass
16300.00	10985.54	-5522.24	-1035.51	5107.00	5113.47	-1425.29	354.89	166.08	7293.79	216.61	7077.18	7148.55	51.08	OSF1.50	Pass
16400.00	10985.80	-5622.23	-1034.91	5107.00	5113.47	-1425.29	354.89	166.08	7350.52	219.05	7131.48	7203.66	50.90	OSF1.50	Pass
16500.00	10986.07	-5722.23	-1034.31	5107.00	5113.47	-1425.29	354.89	166.08	7408.17	221.44	7186.73	7259.71	50.74	OSF1.50	Pass
16600.00	10986.33	-5822.23	-1033.70	5107.00	5113.47	-1425.29	354.89	166.08	7466.71	223.78	7242.93	7316.69	50.60	OSF1.50	Pass
16700.00	10986.59	-5922.23	-1033.10	5107.00	5113.47	-1425.29	354.89	166.08	7526.12	226.07	7300.05	7374.57	50.48	OSF1.50	Pass
16800.00	10986.85	-6022.23	-1032.50	5107.00	5113.47	-1425.29	354.89	166.08	7586.39	228.32	7358.07	7433.34	50.38	OSF1.50	Pass
16900.00	10987.11	-6122.22	-1031.90	5107.00	5113.47	-1425.29	354.89	166.08	7647.49	230.53	7416.96	7492.97	50.29	OSF1.50	Pass
17000.00	10987.38	-6222.22	-1031.30	5107.00	5113.47	-1425.29	354.89	166.08	7709.40	232.68	7476.72	7553.45	50.22	OSF1.50	Pass
17100.00	10987.64	-6322.22	-1030.70	5107.00	5113.47	-1425.29	354.89	166.08	7772.11	234.80	7537.31	7614.74	50.17	OSF1.50	Pass
17200.00	10987.90	-6422.22	-1030.10	5107.00	5113.47	-1425.29	354.89	166.08	7835.59	236.86	7598.72	7676.84	50.13	OSF1.50	Pass
17300.00	10988.16	-6522.22	-1029.50	5107.00	5113.47	-1425.29	354.89	166.08	7899.82	238.89	7660.93	7739.73	50.11	OSF1.50	Pass
17400.00	10988.42	-6622.21	-1028.90	5107.00	5113.47	-1425.29	354.89	166.08	7964.80	240.87	7723.93	7803.38	50.10	OSF1.50	Pass
17500.00	10988.69	-6722.21	-1028.30	5107.00	5113.47	-1425.29	354.89	166.08	8030.49	242.81	7787.68	7867.78	50.11	OSF1.50	Pass
17600.00	10988.95	-6822.21	-1027.69	5107.00	5113.47	-1425.29	354.89	166.08	8096.88	244.70	7852.18	7932.91	50.13	OSF1.50	Pass
17700.00	10989.21	-6922.21	-1027.09	5107.00	5113.47	-1425.29	354.89	166.08	8163.96	246.56	7917.41	7998.76	50.16	OSF1.50	Pass
17800.00	10989.47	-7022.20	-1026.49	5107.00	5113.47	-1425.29	354.89	166.08	8231.71	248.37	7983.34	8065.30	50.20	OSF1.50	Pass
17900.00	10989.73	-7122.20	-1025.89	5107.00	5113.47	-1425.29	354.89	166.08	8300.11	250.15	8049.96	8132.51	50.26	OSF1.50	Pass
18000.00	10990.00	-7222.20	-1025.29	5107.00	5113.47	-1425.29	354.89	166.08	8369.15	251.88	8117.26	8200.39	50.32	OSF1.50	Pass
18100.00	10990.26	-7322.20	-1024.69	5107.00	5113.47	-1425.29	354.89	166.08	8438.80	253.58	8185.22	8268.92	50.40	OSF1.50	Pass
18200.00	10990.52	-7422.20	-1024.09	5107.00	5113.47	-1425.29	354.89	166.08	8509.07	255.24	8253.82	8338.07	50.49	OSF1.50	Pass
18300.00	10990.78	-7522.19	-1023.49	5107.00	5113.47	-1425.29	354.89	166.08	8579.92	256.86	8323.05	8407.84	50.58	OSF1.50	Pass
18400.00	10991.04	-7622.19	-1022.89	5107.00	5113.47	-1425.29	354.89	166.08	8651.34	258.45	8392.89	8478.21	50.69	OSF1.50	Pass
18500.00	10991.31	-7722.19	-1022.29	5107.00	5113.47	-1425.29	354.89	166.08	8723.33	260.01	8463.33	8549.16	50.80	OSF1.50	Pass
18600.00	10991.57	-7822.19	-1021.68	5107.00	5113.47	-1425.29	354.89	166.08	8795.87	261.52	8534.34	8620.69	50.92	OSF1.50	Pass
18700.00	10991.83	-7922.19	-1021.08	5107.00	5113.47	-1425.29	354.89	166.08	8868.94	263.01	8605.93	8692.77	51.05	OSF1.50	Pass
18800.00	10992.09	-8022.18	-1020.48	5107.00	5113.47	-1425.29	354.89	166.08	8942.53	264.46	8678.07	8765.39	51.19	OSF1.50	Pass
18900.00	10992.35	-8122.18	-1019.88	5107.00	5113.47	-1425.29	354.89	166.08	9016.63	265.88	8750.75	8838.54	51.34	OSF1.50	Pass
19000.00	10992.61	-8222.18	-1019.28	5107.00	5113.47	-1425.29	354.89	166.08	9091.23	267.27	8823.95	8912.21	51.49	OSF1.50	Pass
19100.00	10992.88	-8322.18	-1018.68	5107.00	5113.47	-1425.29	354.89	166.08	9166.31	268.63	8897.67	8986.38	51.65	OSF1.50	Pass
19200.00	10993.14	-8422.17	-1018.08	5107.00	5113.47	-1425.29	354.89	166.08	9241.86	269.96	8971.90	9061.05	51.82	OSF1.50	Pass
19300.00	10993.40	-8522.17	-1017.48	5107.00	5113.47	-1425.29	354.89	166.08	9317.87	271.26	9046.61	9136.20	51.99	OSF1.50	Pass
19400.00	10993.66	-8622.17	-1016.88	5107.00	5113.47	-1425.29	354.89	166.08	9394.33	272.54	9121.80	9211.81	52.17	OSF1.50	Pass
19500.00	10993.92	-8722.17	-1016.28	5107.00	5113.47	-1425.29	354.89	166.08	9471.23	273.78	9197.45	9287.88	52.36	OSF1.50	Pass
19600.00	10994.19	-8822.17	-1015.68	5107.00	5113.47	-1425.29	354.89	166.08	9548.56	275.00	9273.58	9364.39	52.55	OSF1.50	Pass
19700.00	10994.45	-8922.16	-1015.07	5107.00	5113.47	-1425.29	354.89	166.08	9626.31	276.20	9350.11	9441.34	52.74	OSF1.50	Pass
19800.00															

Field: NM Lea County (NAD 83)
 Structure: Cimarex Dos Equis 11 Federal #2H
 Slot: Cimarex Dos Equis 11 Federal #2H
 Client: Cimarex
 Coordinate System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 North Reference: Grid
 Grid Convergence Angle: 0.36873273°
 Well: Cimarex Dos Equis 11 Federal #2H
 Borehole: Pilot
 Trajectory: Cimarex Dos Equis 11 Federal #2H XEM + MWD to 11103ft - P
 Type: Def Survey
 Grid Scale Factor: 0.999961399
 Magnetic Declination: 7.385°
 Reference Point: Magnetic Declination Date: September 02, 2014
 Magnetic Model: BGGM 2014
 Northing: 451205.000 (ftUS)
 Easting: 755048.200 (ftUS)
 Elevation: 3628.000 (ft) MSL
 Structure Unc.: 0.000 (ft) (3 sigma)
 Slot Unc.: 0.000 (ft) (3 sigma)

Trajectory Error Model: ISCWSA0 3-D 95.000% Confidence 2.7955 sigma

Surveying Prog: As Drilled

Description	MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type	Hole Size (in)	Casing Diameter (in)	Borehole / Survey
	0.000	20.000	1/98.425	A001Ma_MWD-Depth Only	30.000	30.000 jis 11 Federal #2H XEM + MWD to 11103ft - P	
	20.000	20.000	Act-Sins	A001Ma_MWD-Depth Only	30.000	30.000 jis 11 Federal #2H XEM + MWD to 11103ft - P	
	20.000	11103.000	Act-Sins	A001Ma_MWD	30.000	30.000 jis 11 Federal #2H XEM + MWD to 11103ft - P	

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
All local minima indicated.															
0.00	0.00	0.00	0.00	0.00	12.60	245.39	1989.73	82.97	2004.85	32.81	1972.04	2002.35	N/A	10.00 (m)	Pass
100.00	100.00	0.00	0.00	91.87	104.47	245.33	1989.64	82.97	2004.71	32.81	1971.90	2001.83	5318.19	10.00 (m)	Pass
200.00	200.00	0.00	0.00	196.73	209.33	245.10	1989.30	82.98	2004.36	32.81	1971.55	2000.68	1704.11	10.00 (m)	Pass
300.00	300.00	0.00	0.00	296.06	308.66	244.77	1988.90	82.98	2003.92	32.81	1971.11	1999.26	925.71	10.00 (m)	Pass
400.00	400.00	0.00	0.00	395.32	407.92	244.45	1988.51	82.99	2003.50	32.81	1970.69	1997.84	634.09	10.00 (m)	Pass
500.00	500.00	0.00	0.00	493.39	505.98	244.34	1988.17	82.99	2003.14	32.81	1970.33	1996.50	482.79	10.00 (m)	Pass
600.00	599.99	-0.87	0.00	589.98	602.57	244.37	1987.96	82.97	2003.03	32.81	1970.22	1995.43	392.52	10.00 (m)	Pass
700.00	699.98	-2.62	0.00	688.08	700.68	244.34	1987.92	82.92	2003.20	32.81	1970.39	1994.67	331.68	10.00 (m)	Pass
800.00	799.96	-4.36	0.00	789.04	801.64	243.93	1987.90	82.88	2003.35	32.81	1970.54	1993.85	286.11	10.00 (m)	Pass
900.00	899.95	-6.11	0.00	890.07	902.66	243.40	1987.87	82.85	2003.47	32.81	1970.66	1993.00	251.05	10.00 (m)	Pass
1000.00	999.93	-7.85	0.00	989.93	1002.52	242.89	1987.79	82.81	2003.54	32.81	1970.73	1992.09	223.59	10.00 (m)	Pass
1100.00	999.92	-9.60	0.00	1090.72	1103.31	242.37	1987.71	82.78	2003.62	32.81	1970.81	1991.18	201.34	10.00 (m)	Pass
1200.00	1199.90	-11.34	0.00	1187.96	1200.55	241.87	1987.63	82.74	2003.70	32.81	1970.89	1990.28	183.37	10.00 (m)	Pass
1300.00	1299.89	-13.09	0.00	1293.39	1305.98	241.48	1987.55	82.70	2003.80	32.81	1970.99	1989.37	167.77	10.00 (m)	Pass
1400.00	1399.87	-14.83	0.00	1394.27	1406.85	241.39	1987.22	82.65	2003.68	32.81	1970.87	1988.26	154.83	10.00 (m)	Pass
1500.00	1499.86	-16.58	0.00	1498.98	1511.57	241.12	1986.76	82.60	2003.44	32.81	1970.63	1987.00	143.51	10.00 (m)	Pass
1506.20	1506.06	-16.69	-0.01	1505.30	1517.89	241.09	1986.73	82.60	2003.42	32.81	1970.62	1986.92	142.87	10.00 (m)	Pass
1600.00	1599.83	-18.11	-1.73	1600.16	1612.74	240.76	1986.17	82.59	2004.72	32.81	1971.92	1987.28	134.00	10.00 (m)	Pass
1700.00	1699.68	-19.20	-6.92	1697.90	1710.48	240.58	1985.63	82.57	2009.44	32.81	1976.63	1991.02	126.06	10.00 (m)	Pass
1800.00	1799.30	-19.86	-15.57	1800.31	1812.89	240.24	1985.06	82.57	2017.52	32.81	1984.71	1998.10	119.08	10.00 (m)	Pass
1900.00	1898.56	-20.08	-27.66	1904.70	1917.27	239.93	1984.25	82.58	2028.73	32.81	1995.93	2008.30	113.00	10.00 (m)	Pass
2000.00	1997.44	-19.94	-42.59	2004.37	2016.94	239.62	1983.30	82.62	2042.55	32.81	2009.74	2021.13	107.83	10.00 (m)	Pass
2100.00	2096.27	-19.77	-57.80	2102.55	2115.11	239.30	1982.46	82.68	2056.73	32.81	2023.92	2034.33	103.24	10.00 (m)	Pass
2200.00	2195.11	-19.59	-73.01	2203.00	2215.57	238.87	1981.53	82.75	2070.84	33.84	2037.00	2047.44	99.00	OSF1.50	Pass
2300.00	2293.95	-19.42	-88.22	2304.18	2316.74	238.39	1980.56	82.82	2084.91	35.34	2049.57	2060.51	95.12	OSF1.50	Pass
2400.00	2392.78	-19.24	-103.44	2404.49	2417.04	237.90	1979.45	82.89	2098.84	36.84	2062.00	2073.45	91.58	OSF1.50	Pass
2500.00	2491.62	-19.07	-118.65	2501.81	2514.36	237.41	1978.41	82.95	2112.80	38.31	2074.49	2086.43	88.39	OSF1.50	Pass
2600.00	2590.45	-18.89	-133.86	2602.24	2614.77	237.22	1977.34	83.01	2126.82	39.82	2087.00	2099.44	85.39	OSF1.50	Pass
2700.00	2689.29	-18.71	-149.07	2707.83	2720.36	237.14	1975.99	83.06	2140.64	41.36	2099.28	2112.23	82.54	OSF1.50	Pass
2800.00	2788.13	-18.54	-164.28	2805.77	2818.29	236.67	1974.60	83.13	2154.26	42.85	2111.41	2124.86	80.00	OSF1.50	Pass
2900.00	2886.96	-18.36	-179.49	2909.81	2922.32	236.17	1973.11	83.19	2167.89	44.39	2123.50	2137.47	77.55	OSF1.50	Pass
3000.00	2985.80	-18.19	-194.71	3011.08	3023.57	235.70	1971.44	83.25	2181.30	45.91	2135.40	2149.87	75.30	OSF1.50	Pass
3100.00	3084.64	-18.01	-209.92	3113.92	3126.39	235.22	1969.62	83.31	2194.59	47.44	2147.16	2162.14	73.17	OSF1.50	Pass
3200.00	3183.47	-17.84	-225.13	3216.40	3228.85	234.61	1967.64	83.37	2207.72	48.97	2158.75	2174.24	71.18	OSF1.50	Pass
3300.00	3282.31	-17.66	-240.34	3316.15	3328.58	234.05	1965.63	83.43	2220.76	50.48	2170.28	2186.27	69.35	OSF1.50	Pass
3400.00	3381.14	-17.48	-255.55	3415.68	3428.09	233.48	1963.59	83.49	2233.78	51.99	2181.78	2198.28	67.62	OSF1.50	Pass
3500.00	3479.98	-17.31	-270.76	3514.97	3527.36	232.88	1961.57	83.55	2246.81	53.50	2193.31	2210.31	66.00	OSF1.50	Pass
3600.00	3578.82	-17.13	-285.97	3615.87	3628.23	232.28	1959.42	83.60	2259.75	55.03	2204.72	2222.23	64.46	OSF1.50	Pass
3700.00	3677.65	-16.96	-301.19	3713.54	3725.87	231.74	1957.40	83.66	2272.75	56.53	2216.22	2234.23	63.03	OSF1.50	Pass
3800.00	3776.49	-16.78	-316.40	3816.42	3828.73	231.02	1955.20	83.72	2285.67	58.07	2227.60	2246.12	61.63	OSF1.50	Pass
3900.00	3875.32	-16.61	-331.61	3917.67	3929.95	230.22	1952.89	83.78	2298.44	59.60	2238.84	2257.88	60.31	OSF1.50	Pass
4000.00	3974.16	-16.43	-346.82	4012.61	4024.87	229.43	1950.75	83.84	2311.24	61.08	2250.16	2269.69	59.12	OSF1.50	Pass
4100.00	4073.00	-16.26	-362.03	4103.65	4115.88	228.67	1948.98	83.89	2324.35	62.53	2261.82	2281.83	58.02	OSF1.50	Pass
4200.00	4171.83	-16.08	-377.24	4193.06	4205.27	227.66	1947.60	83.95	2337.82	63.97	2273.86	2294.35	56.99	OSF1.50	Pass
4300.00	4270.67	-15.90	-392.46	4288.98	4298.18	226.36	1946.59	84.02	2351.72	65.43	2286.29	2307.27	56.00	OSF1.50	Pass
4400.00	4369.50	-15.73	-407.67	4388.17	4400.36	224.87	1945.47	84.10	2365.61	66.97	2298.65	2320.13	54.99	OSF1.50	Pass
4500.00	4468.34	-15.55	-422.88	4484.45	4496.62	223.39	1944.36	84.17	2379.44	68.45	2310.98	2332.97	54.06	OSF1.50	Pass
4600.00	4567.18	-15.38	-438.09	4574.46	4586.61	221.68	1943.62	84.25	2393.55	69.89	2323.67	2346.13	53.22	OSF1.50	Pass
4700.00	4666.01	-15.20	-453.30	4666.07	4678.20	219.64	1943.24	84.34	2408.06	71.33	2336.73	2359.67	52.42	OSF1.50	Pass
4800.00	4764.85	-15.03	-468.51	4762.63	4774.72	217.18	1943.05	84.43	2422.74	72.81	2349.93	2373.37	51.63	OSF1.50	Pass
4900.00	4863.69	-14.85	-483.73	4860.06	4872.12	214.62	1942.92	84.53	2437.49	74.30	2363.19	2387.12	50.87	OSF1.50	Pass
5000.00	4962.52	-14.67	-498.94	4956.69	4968.71	211.93	1942.88	84.63	2452.32	75.78	2376.54	2400.97	50.14	OSF1.50	Pass
5100.00	5061.36	-14.50	-514.15	5056.59	5068.56	208.94	1942.91	84.74	2467.21	77.29	2389.92	2414.85	49.43	OSF1.50	Pass
5200.00	5160.19	-14.32	-529.36	5159.07	5171.00	205.61	1942.84	84.85	2481.99	78.83	2403.16	2428.60	48.73	OSF1.50	Pass
5300.00	5259.03	-14.15	-544.57	5256.94	5277.80	201.83	1942.57	84.98	2496.57	80.41	2416.16	2442.13	48.02	OSF1.50	Pass
5400.00	5357.87	-13.97	-559.78	5379.71	5391.42	196.22	1941.80	85.14	2510.62	82.05	2428.57	2455.09	47.29	OSF1.50	Pass
5500.00	5456.70	-13.80	-574.99	5474.60	5486.15	190.82	1941.04	85.30	2524.51	83.53	2440.98	2467.99	46.69	OSF1.50	Pass
5600.00	5555.54	-13.62	-590.21	5540.37	5551.85	187.73	1940.89	85.39	2539.10	84.74	2454.35	2481.77	46.26	OSF1.50	Pass
5700.00	5654.37	-13.45	-605.42	5601.99	5613.43	185.64	1941.59	85.46	2555.10	85.90	2469.20	2497.00	45.91	OSF1.50	Pass
5800.00	5753.21	-13.27	-620.63	5662.01	5673.41	184.42	1943.10	85.51	2572.58	87.02	2485.56	2513.73	45.61	OSF1.50	Pass
5900.00	5852.05	-13.09	-635.84	5746.83	5758.18	183.59	1946.13	85.56	2591.15	88.35	2502.80	2531.41	45.23	OSF1.50	Pass
6000.00	5950.88	-12.92	-651.05	6009.36	6020.58	178.13	1948.36	85.76	2607.36	91.33	2516.03	2545.64	43.99	OSF1.50	Pass
6100.00	6049.73	-12.74	-666.06	6117.93	6129.04	175.14	1948.04	85.83	2619.93	92.81	2526.93	2556.36	43.41	OSF1.50	Pass
6200.00	6148.55	-12.57	-681.48	6202.95	6214.03	173.18	1942.94	85.91	2631.80	94.34	2537.46	2568.07	42.95	OSF1.50	Pass
6300.00	6247.39	-12.39	-696.69	6282.64	6293.70	172.34	1941.23	85.95	2644.79	95.69	2549.10	2580.16	42.53	OSF1.50	Pass

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Cimarex Dos Equis 11 Federal #2H XEM + MWD to 11103ft - P

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
6600.00	6543.90	-11.87	-742.32	6553.30	6564.34	169.98	1939.23	86.07	2687.79	100.01	2587.78	2620.28	41.31	OSF1.50	Pass
6700.00	6642.74	-11.69	-757.53	6654.81	6665.84	169.20	1938.45	86.11	2702.15	101.55	2600.59	2633.61	40.88	OSF1.50	Pass
6800.00	6741.57	-11.51	-772.75	6755.13	6766.15	168.32	1937.64	86.16	2716.46	103.09	2613.37	2646.90	40.47	OSF1.50	Pass
6900.00	6840.41	-11.34	-787.96	6852.78	6863.79	167.48	1936.77	86.20	2730.69	104.59	2626.09	2660.12	40.08	OSF1.50	Pass
7000.00	6939.24	-11.16	-803.17	6950.96	6961.96	166.31	1936.16	86.25	2745.16	106.10	2639.06	2673.59	39.71	OSF1.50	Pass
7100.00	7038.08	-10.99	-818.38	7057.99	7068.99	166.17	1934.96	86.28	2759.20	107.69	2651.52	2686.58	39.31	OSF1.50	Pass
7200.00	7136.92	-10.81	-833.59	7155.33	7166.32	164.86	1934.05	86.32	2773.36	109.19	2664.77	2699.74	38.96	OSF1.50	Pass
7300.00	7235.75	-10.64	-848.80	7243.20	7254.17	163.57	1933.25	86.37	2787.56	110.61	2676.95	2712.99	38.64	OSF1.50	Pass
7400.00	7334.59	-10.46	-864.01	7330.14	7341.11	162.91	1933.02	86.41	2802.41	112.01	2690.40	2726.91	38.35	OSF1.50	Pass
7500.00	7433.42	-10.28	-879.23	7435.50	7446.47	161.83	1932.70	86.45	2817.22	113.59	2703.63	2740.66	38.01	OSF1.50	Pass
7600.00	7532.26	-10.11	-894.44	7535.16	7546.12	161.06	1932.25	86.49	2831.90	115.11	2716.78	2754.32	37.69	OSF1.50	Pass
7700.00	7631.10	-9.95	-909.65	7637.44	7648.30	160.33	1931.81	86.52	2846.67	116.57	2730.10	2768.12	37.40	OSF1.50	Pass
7800.00	7729.93	-9.78	-924.86	7723.62	7734.57	159.35	1931.84	86.57	2861.70	118.06	2743.64	2782.16	37.11	OSF1.50	Pass
7900.00	7828.77	-9.58	-940.07	7831.76	7842.71	158.13	1931.59	86.61	2876.59	119.66	2756.92	2795.98	36.80	OSF1.50	Pass
8000.00	7927.60	-9.41	-955.28	7947.34	7958.27	156.46	1930.81	86.67	2891.02	121.34	2769.68	2809.30	36.46	OSF1.50	Pass
8100.00	8026.44	-9.23	-970.50	8052.68	8063.58	154.70	1929.66	86.73	2905.02	122.92	2782.10	2822.24	36.16	OSF1.50	Pass
8200.00	8125.28	-9.06	-985.71	8288.55	8299.23	149.07	1921.75	86.88	2916.94	125.60	2791.34	2832.38	35.51	OSF1.50	Pass
8300.00	8224.15	-8.88	-1000.68	8385.16	8395.62	146.99	1915.52	86.93	2925.39	127.10	2798.29	2839.82	35.19	OSF1.50	Pass
8400.00	8323.40	-8.74	-1012.88	8488.92	8499.02	146.05	1912.85	86.97	2932.51	128.25	2804.26	2846.18	34.95	OSF1.50	Pass
8500.00	8423.01	-8.64	-1021.60	8588.92	8599.27	144.99	1911.18	87.01	2937.79	129.34	2808.45	2850.73	34.71	OSF1.50	Pass
8600.00	8522.87	-8.58	-1026.84	8688.92	8699.27	143.36	1910.34	87.04	2941.27	130.42	2810.85	2853.49	34.46	OSF1.50	Pass
8700.00	8622.85	-8.56	-1028.60	8788.92	8799.27	142.03	1909.96	87.07	2942.42	131.67	2810.75	2853.80	34.14	OSF1.50	Pass
8800.00	8722.85	-8.56	-1028.60	8888.92	8899.27	142.18	1909.63	87.06	2942.13	133.18	2808.95	2852.51	33.74	OSF1.50	Pass
8900.00	8822.85	-8.56	-1028.60	8988.92	8999.27	142.32	1909.08	87.06	2941.61	134.63	2806.98	2851.02	33.37	OSF1.50	Pass
9000.00	8922.85	-8.56	-1028.60	9088.92	9099.27	141.88	1908.16	87.07	2940.77	136.19	2804.58	2849.14	32.97	OSF1.50	Pass
9100.00	9022.85	-8.56	-1028.60	9188.92	9199.27	141.02	1907.10	87.08	2939.69	137.66	2802.03	2847.08	32.60	OSF1.50	Pass
9200.00	9122.85	-8.56	-1028.60	9288.92	9299.27	139.94	1905.94	87.10	2938.52	139.14	2799.38	2844.92	32.23	OSF1.50	Pass
9300.00	9222.85	-8.56	-1028.60	9388.92	9399.27	138.78	1904.96	87.12	2937.36	140.47	2796.89	2842.88	31.91	OSF1.50	Pass
9400.00	9322.85	-8.56	-1028.60	9488.92	9499.27	138.42	1904.76	87.13	2937.04	141.67	2795.37	2841.76	31.63	OSF1.50	Pass
9500.00	9422.85	-8.56	-1028.60	9588.92	9599.27	139.19	1904.46	87.12	2936.81	143.21	2793.60	2840.50	31.28	OSF1.50	Pass
9600.00	9522.85	-8.56	-1028.60	9688.92	9699.27	140.21	1903.81	87.10	2936.22	144.64	2791.58	2838.96	30.96	OSF1.50	Pass
9700.00	9622.85	-8.56	-1028.60	9788.92	9799.27	141.18	1903.36	87.08	2935.80	146.02	2789.78	2837.62	30.66	OSF1.50	Pass
9800.00	9722.85	-8.56	-1028.60	9888.92	9899.27	142.21	1902.68	87.06	2935.24	147.52	2787.72	2836.06	30.33	OSF1.50	Pass
9900.00	9822.85	-8.56	-1028.60	9988.92	9999.27	143.17	1901.62	87.04	2934.31	149.03	2785.28	2834.12	30.01	OSF1.50	Pass
10000.00	9922.85	-8.56	-1028.60	10088.92	10099.27	143.41	1899.95	87.03	2932.95	150.65	2782.30	2831.68	29.67	OSF1.50	Pass
10100.00	10022.85	-8.56	-1028.60	10188.92	10199.27	142.94	1898.13	87.04	2931.14	152.12	2779.02	2828.89	29.36	OSF1.50	Pass
10200.00	10122.85	-8.56	-1028.60	10288.92	10299.27	142.07	1896.41	87.05	2929.32	153.55	2775.77	2826.12	29.06	OSF1.50	Pass
10300.00	10222.85	-8.56	-1028.60	10388.92	10399.27	141.36	1895.42	87.06	2927.99	154.79	2773.20	2823.96	28.81	OSF1.50	Pass
10400.00	10322.85	-8.56	-1028.60	10488.92	10499.27	140.85	1894.83	87.07	2927.29	156.14	2771.14	2822.36	28.55	OSF1.50	Pass
10500.00	10422.81	-10.22	-1028.71	10588.92	10599.27	140.13	1894.14	87.04	2926.83	157.19	2769.63	2821.20	28.36	OSF1.50	Pass
10600.00	10521.35	-26.45	-1029.74	10688.92	10699.27	138.98	1893.55	86.89	2926.02	157.85	2770.16	2821.95	28.25	OSF1.50	Pass
10700.00	10615.57	-59.51	-1031.86	10788.92	10799.27	137.50	1893.10	86.67	2931.63	158.57	2773.06	2825.09	28.15	OSF1.50	Pass
10800.00	10702.60	-108.39	-1034.98	10888.92	10899.27	136.01	1892.79	86.54	2937.98	159.20	2778.77	2831.01	28.10	OSF1.50	Pass
10900.00	10779.81	-171.61	-1039.02	10988.92	10999.27	134.11	1892.28	86.30	2947.39	160.01	2787.38	2839.88	28.04	OSF1.50	Pass
11000.00	10844.95	-247.35	-1045.95	11088.92	11099.27	132.43	1891.33	86.40	2960.04	160.70	2799.34	2852.07	28.04	OSF1.50	Pass
11100.00	10895.73	-333.02	-1048.33	11095.61	11106.66	131.05	1890.22	86.96	2976.69	161.30	2815.39	2865.32	28.09	OSF1.50	Pass
11200.00	10930.92	-426.30	-1055.29	11102.53	11113.56	130.14	1889.10	88.17	2997.62	161.77	2835.85	2888.94	28.21	OSF1.50	Pass
11300.00	10953.24	-523.60	-1060.50	11105.97	11117.06	129.07	1887.15	87.28	3021.53	162.37	2859.16	2912.45	28.33	OSF1.50	Pass
11400.00	10967.26	-622.53	-1063.52	11103.00	11112.95	128.40	1885.60	86.73	3046.71	162.75	2883.96	2937.38	28.50	OSF1.50	Pass
11500.00	10972.89	-722.34	-1064.33	11103.00	11112.95	128.40	1885.60	86.88	3073.35	162.84	2910.51	2963.96	28.73	OSF1.50	Pass
11600.00	10973.23	-822.34	-1063.75	11103.00	11112.95	128.40	1885.60	86.90	3101.95	162.94	2939.02	2992.50	28.98	OSF1.50	Pass
11700.00	10973.49	-922.34	-1063.15	11103.00	11112.95	128.40	1885.60	86.93	3133.47	163.05	2970.42	3023.94	29.25	OSF1.50	Pass
11800.00	10973.75	-1022.33	-1062.55	11103.00	11112.95	128.40	1885.60	86.90	3167.83	163.17	3004.66	3058.22	29.55	OSF1.50	Pass
11900.00	10974.02	-1122.33	-1061.95	11103.00	11112.95	128.40	1885.60	86.90	3204.95	163.31	3041.64	3095.25	29.87	OSF1.50	Pass
12000.00	10974.28	-1222.33	-1061.35	11103.00	11112.95	128.40	1885.60	86.90	3244.72	163.45	3081.28	3134.93	30.22	OSF1.50	Pass
12100.00	10974.54	-1322.33	-1060.75	11103.00	11112.95	128.40	1885.60	86.90	3287.06	163.59	3123.46	3177.16	30.58	OSF1.50	Pass
12200.00	10974.80	-1422.32	-1060.15	11103.00	11112.95	128.40	1885.60	86.90	3331.86	163.75	3168.11	3221.86	30.97	OSF1.50	Pass
12300.00	10975.06	-1522.32	-1059.55	11103.00	11112.95	128.40	1885.60	86.90	3379.02	163.90	3215.12	3268.92	31.38	OSF1.50	Pass
12400.00	10975.33	-1622.32	-1058.95	11103.00	11112.95	128.40	1885.60	86.90	3428.46	164.07	3264.39	3318.25	31.81	OSF1.50	Pass
12500.00	10975.59	-1722.32	-1058.34	11103.00	11112.95	128.40	1885.60	86.90	3480.07	164.23	3315.84	3369.75	32.25	OSF1.50	Pass
12600.00	10975.85	-1822.32	-1057.74	11103.00	11112.95	128.40	1885.60	86.90	3533.75	164.40	3369.35	3423.32	32.72	OSF1.50	Pass
12700.00	10976.11	-1922.31	-1057.14	11103.00	11112.95	128.40	1885.60	86.90	3589.42	164.57	3424.85	3478.87	33.20	OSF1.50	Pass
12800.00	10976.37	-2022.31	-1056.54	11103.00	11112.95	128.40	1885.60	86.90	3646.98	164.74	3482.24	3536.32	33.70	OSF1.50	Pass
12900.00	10976.63	-2122.31	-1055.94	11103.00	11112.95	128.40	1885.60	86.90	3706.34	164.91	3541.43	3595.57	34.21	OSF1.50	Pass
13000.00	10976.90	-2222.31	-1055.34	11103.00	11112.95	128.40	1885.60	86.90	3767.42	165.08	3602.34	3656.54	34.74	OSF1.50	Pass
13100.00	10977.16														

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Cimarex Dos Equis 11 Federal #2H XEM + MWD to 11103ft - P

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
15100.00	10982.40	-4322.26	-1042.72	11103.00	11112.95	128.40	1885.60	86.90	5329.21	168.54	5160.67	5216.02	48.12	OSF1.50	Pass
15200.00	10982.66	-4422.26	-1042.12	11103.00	11112.95	128.40	1885.60	86.90	5412.67	168.70	5243.98	5299.38	48.83	OSF1.50	Pass
15300.00	10982.92	-4522.26	-1041.52	11103.00	11112.95	128.40	1885.60	86.90	5496.69	168.86	5327.83	5383.28	49.54	OSF1.50	Pass
15400.00	10983.18	-4622.26	-1040.92	11103.00	11112.95	128.40	1885.60	86.90	5581.23	169.02	5412.21	5467.72	50.25	OSF1.50	Pass
15500.00	10983.45	-4722.25	-1040.32	11103.00	11112.95	128.40	1885.60	86.90	5666.27	169.17	5497.10	5552.66	50.97	OSF1.50	Pass
15600.00	10983.71	-4822.25	-1039.71	11103.00	11112.95	128.40	1885.60	86.90	5751.80	169.33	5582.46	5638.07	51.69	OSF1.50	Pass
15700.00	10983.97	-4922.25	-1039.11	11103.00	11112.95	128.40	1885.60	86.90	5837.78	169.49	5668.29	5723.95	52.42	OSF1.50	Pass
15800.00	10984.23	-5022.25	-1038.51	11103.00	11112.95	128.40	1885.60	86.90	5924.20	169.65	5754.56	5810.27	53.14	OSF1.50	Pass
15900.00	10984.49	-5122.25	-1037.91	11103.00	11112.95	128.40	1885.60	86.90	6011.05	169.81	5841.24	5897.01	53.87	OSF1.50	Pass
16000.00	10984.76	-5222.24	-1037.31	11103.00	11112.95	128.40	1885.60	86.90	6098.30	169.97	5928.33	5984.15	54.60	OSF1.50	Pass
16100.00	10985.02	-5322.24	-1036.71	11103.00	11112.95	128.40	1885.60	86.90	6185.93	170.13	6015.61	6071.68	55.33	OSF1.50	Pass
16200.00	10985.28	-5422.24	-1036.11	11103.00	11112.95	128.40	1885.60	86.90	6273.94	170.29	6103.65	6159.58	56.07	OSF1.50	Pass
16300.00	10985.54	-5522.24	-1035.51	11103.00	11112.95	128.40	1885.60	86.90	6362.30	170.45	6191.95	6247.83	56.80	OSF1.50	Pass
16400.00	10985.80	-5622.23	-1034.91	11103.00	11112.95	128.40	1885.60	86.90	6451.00	170.61	6280.39	6336.42	57.54	OSF1.50	Pass
16500.00	10986.07	-5722.23	-1034.31	11103.00	11112.95	128.40	1885.60	86.90	6540.02	170.77	6369.25	6425.34	58.28	OSF1.50	Pass
16600.00	10986.33	-5822.23	-1033.70	11103.00	11112.95	128.40	1885.60	86.90	6629.36	170.93	6458.43	6514.57	59.02	OSF1.50	Pass
16700.00	10986.59	-5922.23	-1033.10	11103.00	11112.95	128.40	1885.60	86.90	6719.00	171.10	6547.90	6604.10	59.76	OSF1.50	Pass
16800.00	10986.85	-6022.23	-1032.50	11103.00	11112.95	128.40	1885.60	86.90	6808.92	171.26	6637.66	6693.92	60.50	OSF1.50	Pass
16900.00	10987.11	-6122.22	-1031.90	11103.00	11112.95	128.40	1885.60	86.90	6899.13	171.43	6727.70	6784.01	61.24	OSF1.50	Pass
17000.00	10987.38	-6222.22	-1031.30	11103.00	11112.95	128.40	1885.60	86.90	6989.60	171.59	6818.01	6874.37	61.98	OSF1.50	Pass
17100.00	10987.64	-6322.22	-1030.70	11103.00	11112.95	128.40	1885.60	86.90	7080.33	171.76	6908.57	6964.99	62.72	OSF1.50	Pass
17200.00	10987.90	-6422.22	-1030.10	11103.00	11112.95	128.40	1885.60	86.90	7171.30	171.93	6999.37	7055.85	63.47	OSF1.50	Pass
17300.00	10988.16	-6522.22	-1029.50	11103.00	11112.95	128.40	1885.60	86.90	7262.51	172.10	7090.41	7146.95	64.21	OSF1.50	Pass
17400.00	10988.42	-6622.21	-1028.90	11103.00	11112.95	128.40	1885.60	86.90	7353.95	172.27	7181.68	7238.27	64.95	OSF1.50	Pass
17500.00	10988.69	-6722.21	-1028.30	11103.00	11112.95	128.40	1885.60	86.90	7445.61	172.44	7273.17	7329.82	65.70	OSF1.50	Pass
17600.00	10988.95	-6822.21	-1027.69	11103.00	11112.95	128.40	1885.60	86.90	7537.48	172.61	7364.87	7421.58	66.44	OSF1.50	Pass
17700.00	10989.21	-6922.21	-1027.09	11103.00	11112.95	128.40	1885.60	86.90	7629.56	172.79	7456.77	7513.54	67.18	OSF1.50	Pass
17800.00	10989.47	-7022.20	-1026.49	11103.00	11112.95	128.40	1885.60	86.90	7721.83	172.96	7548.87	7605.69	67.93	OSF1.50	Pass
17900.00	10989.73	-7122.20	-1025.89	11103.00	11112.95	128.40	1885.60	86.90	7814.30	173.14	7641.16	7698.04	68.67	OSF1.50	Pass
18000.00	10990.00	-7222.20	-1025.29	11103.00	11112.95	128.40	1885.60	86.90	7906.94	173.31	7733.63	7790.57	69.41	OSF1.50	Pass
18100.00	10990.26	-7322.20	-1024.69	11103.00	11112.95	128.40	1885.60	86.90	7999.77	173.49	7826.28	7883.27	70.15	OSF1.50	Pass
18200.00	10990.52	-7422.20	-1024.09	11103.00	11112.95	128.40	1885.60	86.90	8092.76	173.67	7919.09	7976.15	70.90	OSF1.50	Pass
18300.00	10990.78	-7522.19	-1023.49	11103.00	11112.95	128.40	1885.60	86.90	8185.92	173.85	8012.07	8069.19	71.64	OSF1.50	Pass
18400.00	10991.04	-7622.19	-1022.89	11103.00	11112.95	128.40	1885.60	86.90	8279.24	174.04	8105.21	8162.39	72.38	OSF1.50	Pass
18500.00	10991.31	-7722.19	-1022.29	11103.00	11112.95	128.40	1885.60	86.90	8372.72	174.22	8198.50	8255.74	73.12	OSF1.50	Pass
18600.00	10991.57	-7822.19	-1021.68	11103.00	11112.95	128.40	1885.60	86.90	8466.34	174.40	8291.94	8349.24	73.85	OSF1.50	Pass
18700.00	10991.83	-7922.19	-1021.08	11103.00	11112.95	128.40	1885.60	86.90	8560.11	174.59	8385.52	8442.88	74.59	OSF1.50	Pass
18800.00	10992.09	-8022.18	-1020.48	11103.00	11112.95	128.40	1885.60	86.90	8654.01	174.78	8479.24	8536.66	75.33	OSF1.50	Pass
18900.00	10992.35	-8122.18	-1019.88	11103.00	11112.95	128.40	1885.60	86.90	8748.06	174.97	8573.09	8630.58	76.06	OSF1.50	Pass
19000.00	10992.61	-8222.18	-1019.28	11103.00	11112.95	128.40	1885.60	86.90	8842.23	175.16	8667.07	8724.62	76.80	OSF1.50	Pass
19100.00	10992.88	-8322.18	-1018.68	11103.00	11112.95	128.40	1885.60	86.90	8936.53	175.35	8761.18	8818.80	77.53	OSF1.50	Pass
19200.00	10993.14	-8422.17	-1018.08	11103.00	11112.95	128.40	1885.60	86.90	9030.95	175.54	8855.41	8913.09	78.26	OSF1.50	Pass
19300.00	10993.40	-8522.17	-1017.48	11103.00	11112.95	128.40	1885.60	86.90	9125.49	175.74	8949.75	9007.50	78.99	OSF1.50	Pass
19400.00	10993.66	-8622.17	-1016.88	11103.00	11112.95	128.40	1885.60	86.90	9220.15	175.94	9044.21	9102.02	79.72	OSF1.50	Pass
19500.00	10993.92	-8722.17	-1016.28	11103.00	11112.95	128.40	1885.60	86.90	9314.92	176.13	9138.78	9196.66	80.45	OSF1.50	Pass
19600.00	10994.19	-8822.17	-1015.68	11103.00	11112.95	128.40	1885.60	86.90	9409.79	176.33	9233.46	9291.40	81.18	OSF1.50	Pass
19700.00	10994.45	-8922.16	-1015.07	11103.00	11112.95	128.40	1885.60	86.90	9504.77	176.53	9328.24	9386.25	81.90	OSF1.50	Pass
19800.00	10994.71	-9022.16	-1014.47	11103.00	11112.95	128.40	1885.60	86.90	9599.86	176.74	9423.12	9481.20	82.62	OSF1.50	Pass
19900.00	10994.97	-9122.16	-1013.87	11103.00	11112.95	128.40	1885.60	86.90	9695.04	176.94	9518.10	9576.24	83.35	OSF1.50	Pass
20000.00	10995.23	-9222.16	-1013.27	11103.00	11112.95	128.40	1885.60	86.90	9790.32	177.14	9613.17	9671.39	84.07	OSF1.50	Pass
20100.00	10995.50	-9322.16	-1012.67	11103.00	11112.95	128.40	1885.60	86.90	9885.69	177.35	9708.34	9766.62	84.79	OSF1.50	Pass
20200.00	10995.76	-9422.15	-1012.07	11103.00	11112.95	128.40	1885.60	86.90	9981.15	177.56	9803.59	9861.94	85.50	OSF1.50	Pass
20300.00	10996.02	-9522.15	-1011.47	11103.00	11112.95	128.40	1885.60	86.90	10076.70	177.77	9898.93	9957.35	86.22	OSF1.50	Pass
20400.00	10996.28	-9622.15	-1010.87	11103.00	11112.95	128.40	1885.60	86.90	10172.33	177.98	9994.35	10052.85	86.93	OSF1.50	Pass
20500.00	10996.54	-9722.15	-1010.27	11103.00	11112.95	128.40	1885.60	86.90	10268.05	178.19	10089.86	10148.42	87.64	OSF1.50	Pass
20600.00	10996.81	-9822.14	-1009.67	11103.00	11112.95	128.40	1885.60	86.90	10363.85	178.41	10185.44	10244.08	88.35	OSF1.50	Pass
20700.00	10997.07	-9922.14	-1009.06	11103.00	11112.95	128.40	1885.60	86.90	10459.73	178.62	10281.11	10339.81	89.06	OSF1.50	Pass
20712.06	10997.10	-9934.20	-1008.99	11103.00	11112.95	128.40	1885.60	86.90	10471.30	178.65	10292.65	10351.37	89.15	OSF1.50	Pass

End of results

...Dos Equis 11-14 Federal Com 25Y\Coterra Dos Equis 11-14 Federal Com 25Y Rev0 kFc 16Jun22

Drilling Office 2.10.829.1

Schlumberger-Private

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Field: NM Lea County (NAD 83) Well: Cimarex Dos Equis 11 Federal #2H
 Structure: Cimarex Dos Equis 11 Federal #2H Borehole: ST01
 Slot: Cimarex Dos Equis 11 Federal #2H Trajectory: Cimarex Dos Equis 11 Federal #2H ST01 XEM+MWD 10343ft to 15244ft - A
 Client: Cimarex Type: Def Survey
 Coordinate System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 North Reference: Grid Grid Convergence Angle: 0.36873273° Grid Scale Factor: 0.999961399
 Magnetic Declination: 7.381° Magnetic Declination Date: September 17, 2014 Magnetic Model: BGGM 2014
 Reference Point:
 Northing Easting Elevation Structure Unc. Slot Unc.
 451205.000 (ftUS) 755048.200 (ftUS) 3628.000 (ft) MSL 0.000 (ft) (3 sigma) 0.000 (ft) (3 sigma)

Trajectory Error Model: ISCWSA0 3-D 95.000% Confidence 2.7955 sigma

Surveying Prog: As Drilled

Description	MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type	Hole Size (in)	Casing Diameter (in)	Borehole / Survey
	0.000	20.000	1/98.425	SLB_MWD-POOR-Depth Only	30.000	30.000 uis 11 Federal #2H XEM + MWD 0ft to Update	
	20.000	20.000	Act-Sins	SLB_MWD-POOR-Depth Only	30.000	30.000 uis 11 Federal #2H XEM + MWD 0ft to Update	
	20.000	10343.000	Act-Sins	SLB_MWD-POOR	30.000	30.000 uis 11 Federal #2H XEM + MWD 0ft to Update	
	10343.000	15244.000	Act-Sins	A001Ma_MWD	30.000	30.000 i# 2H ST01 XEM+MWD 10343ft to 15244ft - A	

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
All local minima indicated.															
0.00	0.00	0.00	0.00	0.00	12.60	245.39	1989.73	82.97	2004.85	32.81	1972.04	2002.35		N/A 1S = 10.00 (m)	Pass
100.00	100.00	0.00	0.00	91.85	104.45	245.34	1989.64	82.97	2004.71	32.81	1971.90	2001.89	6261.18 1S = 10.00 (m)		Pass
200.00	200.00	0.00	0.00	196.73	209.33	245.12	1989.30	82.98	2004.36	32.81	1971.55	2000.80	1886.79 1S = 10.00 (m)		Pass
300.00	300.00	0.00	0.00	296.06	308.66	244.79	1988.90	82.98	2003.92	32.81	1971.11	1999.62	1109.47 1S = 10.00 (m)		Pass
400.00	400.00	0.00	0.00	395.32	407.92	244.47	1988.51	82.99	2003.50	32.81	1970.69	1998.49	797.96 1S = 10.00 (m)		Pass
500.00	500.00	0.00	0.00	493.39	505.98	244.36	1988.17	82.99	2003.14	32.81	1970.33	1997.46	629.31 1S = 10.00 (m)		Pass
600.00	599.99	-0.87	0.00	589.98	602.57	244.38	1987.96	82.97	2003.03	32.81	1970.22	1996.71	523.67 1S = 10.00 (m)		Pass
700.00	699.98	-2.62	0.00	688.08	700.68	244.35	1987.92	82.92	2003.20	32.81	1970.40	1996.24	448.47 1S = 10.00 (m)		Pass
800.00	799.96	-4.36	0.00	789.04	801.64	243.95	1987.90	82.88	2003.35	32.81	1970.54	1995.72	390.07 1S = 10.00 (m)		Pass
900.00	899.95	-6.11	0.00	890.07	902.66	243.42	1987.87	82.85	2003.47	32.81	1970.66	1995.15	344.01 1S = 10.00 (m)		Pass
1000.00	999.93	-7.85	0.00	989.93	1002.52	242.90	1987.79	82.81	2003.54	32.81	1970.73	1994.54	307.73 1S = 10.00 (m)		Pass
1100.00	1099.92	-9.60	0.00	1090.72	1103.31	242.38	1987.71	82.77	2003.62	32.81	1970.81	1993.93	278.19 1S = 10.00 (m)		Pass
1200.00	1199.90	-11.34	0.00	1187.96	1200.55	241.89	1987.63	82.74	2003.70	32.81	1970.89	1993.31	253.72 1S = 10.00 (m)		Pass
1300.00	1299.89	-13.09	0.00	1293.39	1305.98	241.50	1987.55	82.70	2003.80	32.81	1970.99	1992.72	233.15 1S = 10.00 (m)		Pass
1400.00	1399.87	-14.83	0.00	1394.27	1406.85	241.40	1987.22	82.65	2003.68	32.81	1970.87	1991.91	215.72 1S = 10.00 (m)		Pass
1500.00	1499.86	-16.58	0.00	1498.98	1511.57	241.13	1986.76	82.60	2003.44	32.81	1970.63	1990.97	200.56 1S = 10.00 (m)		Pass
1506.20	1506.06	-16.69	-0.01	1505.30	1517.89	241.10	1986.73	82.60	2003.43	32.81	1970.62	1990.91	199.70 1S = 10.00 (m)		Pass
1600.00	1599.83	-18.11	-1.73	1600.16	1612.74	240.77	1986.17	82.59	2004.73	32.81	1971.92	1991.55	187.54 1S = 10.00 (m)		Pass
1700.00	1699.68	-19.20	-6.92	1697.90	1710.48	240.60	1985.63	82.57	2009.44	32.81	1976.64	1995.57	176.37 1S = 10.00 (m)		Pass
1800.00	1799.30	-19.86	-15.57	1800.31	1812.89	240.26	1985.06	82.57	2017.52	32.81	1984.71	2002.95	166.95 1S = 10.00 (m)		Pass
1900.00	1898.56	-20.08	-27.66	1904.70	1917.27	239.94	1984.25	82.57	2028.74	32.81	1995.93	2013.47	158.74 1S = 10.00 (m)		Pass
2000.00	1997.44	-19.94	-42.59	2004.37	2016.94	239.63	1983.30	82.62	2042.55	32.81	2009.74	2026.58	151.51 1S = 10.00 (m)		Pass
2100.00	2096.27	-19.77	-57.80	2102.55	2115.11	239.32	1982.46	82.68	2056.73	32.81	2023.92	2040.08	145.16 1S = 10.00 (m)		Pass
2200.00	2195.11	-19.59	-73.01	2203.00	2215.57	238.89	1981.53	82.75	2070.84	32.81	2038.03	2053.49	139.35 1S = 10.00 (m)		Pass
2300.00	2293.95	-19.42	-88.22	2304.18	2316.74	238.40	1980.56	82.82	2084.91	32.81	2052.10	2066.86	133.96 1S = 10.00 (m)		Pass
2400.00	2392.78	-19.24	-103.44	2404.49	2417.04	237.92	1979.45	82.89	2098.84	32.81	2066.03	2080.09	128.96 1S = 10.00 (m)		Pass
2500.00	2491.62	-19.07	-118.65	2501.81	2514.36	237.43	1978.41	82.95	2112.81	32.81	2080.00	2093.35	124.44 1S = 10.00 (m)		Pass
2600.00	2590.45	-18.89	-133.86	2602.24	2614.77	237.24	1977.34	83.01	2126.82	32.81	2094.01	2106.66	120.28 1S = 10.00 (m)		Pass
2700.00	2689.29	-18.71	-149.07	2707.83	2720.36	237.16	1975.99	83.06	2140.64	32.81	2107.83	2119.76	116.34 1S = 10.00 (m)		Pass
2800.00	2788.13	-18.54	-164.28	2805.77	2818.29	236.68	1974.60	83.12	2154.26	32.81	2121.46	2132.68	112.73 1S = 10.00 (m)		Pass
2900.00	2886.96	-18.36	-179.49	2909.81	2922.32	236.18	1973.11	83.19	2167.89	32.81	2135.08	2145.59	109.36 1S = 10.00 (m)		Pass
3000.00	2985.80	-18.19	-194.71	3011.08	3023.57	235.72	1971.44	83.25	2181.30	33.30	2148.01	2158.27	106.12 OSF1.50		Pass
3100.00	3084.64	-18.01	-209.92	3113.92	3126.39	235.24	1969.62	83.31	2194.60	34.40	2160.19	2170.83	103.07 OSF1.50		Pass
3200.00	3183.47	-17.84	-225.13	3216.40	3228.85	234.63	1967.64	83.37	2207.72	35.52	2172.20	2183.21	100.18 OSF1.50		Pass
3300.00	3282.31	-17.66	-240.34	3316.15	3328.58	234.07	1965.63	83.43	2220.76	36.62	2184.14	2193.52	97.52 OSF1.50		Pass
3400.00	3381.14	-17.48	-255.55	3415.68	3428.09	233.50	1963.59	83.49	2233.78	37.70	2196.08	2207.81	95.07 OSF1.50		Pass
3500.00	3479.98	-17.31	-270.76	3514.97	3527.36	232.90	1961.57	83.55	2246.82	38.77	2208.05	2220.14	92.82 OSF1.50		Pass
3600.00	3578.82	-17.13	-285.97	3615.87	3628.23	232.30	1959.42	83.60	2259.75	39.85	2219.90	2232.35	90.65 OSF1.50		Pass
3700.00	3677.65	-16.96	-301.19	3713.54	3725.87	231.76	1957.40	83.66	2272.75	40.93	2231.82	2244.63	88.62 OSF1.50		Pass
3800.00	3776.49	-16.78	-316.40	3816.42	3828.73	231.04	1955.20	83.72	2285.67	42.03	2243.65	2256.82	86.65 OSF1.50		Pass
3900.00	3875.32	-16.61	-331.61	3917.67	3929.95	230.24	1952.89	83.78	2298.44	43.15	2255.30	2268.85	84.73 OSF1.50		Pass
4000.00	3974.16	-16.43	-346.82	4012.62	4024.87	229.45	1950.75	83.84	2311.25	44.23	2267.02	2280.93	83.00 OSF1.50		Pass
4100.00	4073.00	-16.26	-362.03	4103.65	4115.88	228.68	1948.98	83.89	2324.35	45.28	2279.08	2293.34	81.42 OSF1.50		Pass
4200.00	4171.83	-16.08	-377.24	4193.06	4205.27	227.68	1947.60	83.95	2337.83	46.33	2291.49	2306.10	79.92 OSF1.50		Pass
4300.00	4270.67	-15.90	-392.46	4285.98	4298.18	226.38	1946.59	84.02	2351.72	47.42	2304.31	2319.28	78.47 OSF1.50		Pass
4400.00	4369.50	-15.73	-407.67	4388.17	4400.36	224.89	1945.47	84.10	2365.61	48.51	2317.10	2332.44	77.04 OSF1.50		Pass
4500.00	4468.34	-15.55	-422.88	4484.45	4496.62	223.41	1944.36	84.17	2379.44	49.62	2329.82	2345.52	75.68 OSF1.50		Pass
4600.00	4567.18	-15.38	-438.09	4574.46	4586.61	221.70	1943.62	84.25	2393.56	50.71	2342.84	2358.91	74.41 OSF1.50		Pass
4700.00	4666.01	-15.20	-453.30	4666.07	4678.20	219.66	1943.24	84.33	2408.06	51.81	2356.25	2372.68	73.21 OSF1.50		Pass
4800.00	4764.85	-15.03	-468.51	4762.63	4774.72	217.20	1943.05	84.43	2422.74	52.92	2369.83	2386.62	72.05 OSF1.50		Pass
4900.00	4863.69	-14.85	-483.73	4860.06	4872.12	214.64	1942.92	84.53	2437.49	54.02	2383.47	2400.63	70.93 OSF1.50		Pass
5000.00	4962.52	-14.67	-498.94	4956.69	4968.71	211.94	1942.88	84.63	2452.32	55.13	2397.19	2414.72	69.87 OSF1.50		Pass
5100.00	5061.36	-14.50	-514.15	5056.59	5068.56	208.95	1942.81	84.74	2467.21	56.26	2410.95	2428.86	68.81 OSF1.50		Pass
5200.00	5160.19	-14.32	-529.36	5159.07	5171.00	205.62	1942.84	84.85	2481.99	57.41	2424.58	2442.87	67.77 OSF1.50		Pass
5300.00	5259.03	-14.15	-544.57	5265.94	5277.80	201.85	1942.57	84.98	2496.57	58.56	2438.01	2456.69	66.75 OSF1.50		Pass
5400.00	5357.87	-13.97	-559.78	5379.71	5391.42	196.23	1941.80	85.14	2510.62	59.75	2450.87	2469.96	65.72 OSF1.50		Pass
5500.00	5456.70	-13.80	-574.99	5474.60	5486.15	190.84	1941.04	85.30	2524.51	60.84	2463.67	2483.12	64.84 OSF1.50		Pass
5600.00	5555.54	-13.62	-590.21	5540.37	5551.85	187.75	1940.89	85.39	2539.10	61.89	2477.21	2496.99	64.13 OSF1.50		Pass
5700.00	5654.37	-13.45	-605.42	5601.99	5613.43	185.66	1941.59	85.46	2555.11	62.92	2492.19	2512.29	63.49 OSF1.50		Pass
5800.00	5753.21	-13.27	-620.63	5662.01	5673.41	184.44	1943.10	85.51	2572.58	63.94	2508.64	2529.06	62.92 OSF1.50		Pass
5900.00	5852.05	-13.09	-635.84	5746.83	5758.18	183.61	1944.36	85.59	2591.15	64.98	2526.17	2547.34	62.34 OSF1.50		Pass
6000.00	5950.88	-12.92	-651.05	6009.37	6020.58	178.15	1948.36	85.76	2607.36	66.26	2541.10	2562.36	61.28 OSF1.50		Pass
6100.00	6049.72	-12.74	-666.26	6117.92	6129.04	175.11	1945.14	85.85	2619.35	67.37	2551.98	2573.60	60.51 OSF1.50		Pass
6200.00	6148.55	-12.57	-681.48	6202.95	6214.03	173.20	1942.94	85.91	2631.80	68.42	2563.38	2585.35	59.83 OSF1.50		Pass
6300.00	6247.39	-12.39	-696.69	6282.64	6293.70	172.36									

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Cimarex Dos Equis 11 Federal #2H ST01 XEM+MWD 10343ft to 15244ft - A

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
6500.00	6445.06	-12.04	-727.11	6448.50	6459.54	170.93	1939.86	86.03	2673.28	71.60	2601.68	2624.71	58.00	OSF1.50	Pass
6600.00	6543.90	-11.87	-742.32	6553.30	6564.34	169.99	1939.23	86.07	2687.79	72.69	2615.10	2638.50	57.39	OSF1.50	Pass
6700.00	6642.74	-11.69	-757.53	6654.81	6665.84	169.22	1938.45	86.11	2702.15	73.76	2628.39	2652.14	56.83	OSF1.50	Pass
6800.00	6741.57	-11.51	-772.75	6755.13	6766.15	168.34	1937.64	86.16	2716.46	74.86	2641.60	2665.72	56.26	OSF1.50	Pass
6900.00	6840.41	-11.34	-787.96	6852.78	6863.79	167.50	1936.77	86.20	2730.69	75.96	2654.73	2679.21	55.71	OSF1.50	Pass
7000.00	6939.24	-11.16	-803.17	6950.96	6961.96	166.32	1936.16	86.25	2745.16	77.06	2668.11	2692.96	55.18	OSF1.50	Pass
7100.00	7038.08	-10.99	-818.38	7057.99	7068.99	166.19	1934.96	86.27	2759.20	78.17	2681.03	2706.26	54.65	OSF1.50	Pass
7200.00	7136.92	-10.81	-833.59	7155.33	7166.32	164.88	1934.05	86.32	2773.36	79.28	2694.09	2719.68	54.13	OSF1.50	Pass
7300.00	7235.75	-10.64	-848.80	7243.20	7254.17	163.58	1933.25	86.37	2787.56	80.37	2707.19	2733.14	53.66	OSF1.50	Pass
7400.00	7334.59	-10.46	-864.01	7330.14	7341.11	162.93	1933.02	86.40	2802.42	81.46	2720.95	2747.26	53.22	OSF1.50	Pass
7500.00	7433.42	-10.28	-879.23	7435.50	7446.47	161.85	1932.70	86.45	2817.22	82.56	2734.66	2761.34	52.75	OSF1.50	Pass
7600.00	7532.26	-10.11	-894.44	7535.16	7546.12	161.08	1932.28	86.49	2831.90	83.65	2748.24	2775.39	52.31	OSF1.50	Pass
7700.00	7631.10	-9.93	-909.65	7627.44	7638.40	160.35	1931.91	86.52	2846.67	84.76	2761.91	2789.31	51.89	OSF1.50	Pass
7800.00	7729.93	-9.76	-924.86	7723.62	7734.57	159.35	1931.84	86.57	2861.70	85.87	2775.83	2808.60	51.47	OSF1.50	Pass
7900.00	7828.77	-9.58	-940.07	7831.76	7842.71	158.15	1931.59	86.61	2876.59	86.98	2789.61	2817.76	51.05	OSF1.50	Pass
8000.00	7927.60	-9.41	-955.28	7947.34	7958.27	156.48	1930.81	86.67	2891.02	88.13	2802.90	2831.44	50.60	OSF1.50	Pass
8100.00	8026.44	-9.23	-970.50	8052.68	8063.58	154.72	1929.66	86.73	2905.02	89.25	2815.77	2844.69	50.19	OSF1.50	Pass
8200.00	8125.28	-9.06	-985.71	8258.55	8269.24	154.08	1921.75	86.88	2916.94	90.67	2826.27	2855.66	49.58	OSF1.50	Pass
8300.00	8224.15	-8.88	-1000.68	8365.16	8395.62	147.00	1915.52	86.93	2925.40	91.77	2833.62	2863.38	49.11	OSF1.50	Pass
8400.00	8323.40	-8.74	-1012.88	8438.64	8449.02	146.07	1912.85	86.97	2932.51	92.78	2839.74	2869.83	48.68	OSF1.50	Pass
8500.00	8423.01	-8.64	-1021.60	8488.92	8499.27	145.01	1911.18	87.00	2937.79	93.74	2844.05	2874.46	48.26	OSF1.50	Pass
8600.00	8522.87	-8.58	-1026.84	8542.33	8552.64	143.38	1910.34	87.04	2941.27	94.69	2846.58	2877.30	47.82	OSF1.50	Pass
8700.00	8622.85	-8.56	-1028.60	8618.25	8628.55	142.04	1909.96	87.07	2942.42	95.72	2846.70	2877.74	47.35	OSF1.50	Pass
8800.00	8722.85	-8.56	-1028.60	8727.18	8737.47	142.20	1909.63	87.06	2942.13	96.66	2845.47	2876.83	46.86	OSF1.50	Pass
8900.00	8822.85	-8.56	-1028.60	8829.91	8840.21	142.34	1909.08	87.06	2941.61	97.65	2843.96	2875.66	46.36	OSF1.50	Pass
9000.00	8922.85	-8.56	-1028.60	8942.34	8952.63	141.89	1908.16	87.07	2940.77	98.66	2842.11	2874.16	45.84	OSF1.50	Pass
9100.00	9022.85	-8.56	-1028.60	9045.73	9056.01	141.04	1907.10	87.08	2939.69	99.68	2840.01	2872.41	45.34	OSF1.50	Pass
9200.00	9122.85	-8.56	-1028.60	9148.68	9158.95	139.96	1905.94	87.10	2938.52	100.72	2837.79	2870.53	44.84	OSF1.50	Pass
9300.00	9222.85	-8.56	-1028.60	9246.60	9256.86	138.80	1904.96	87.12	2937.36	101.74	2835.62	2868.69	44.38	OSF1.50	Pass
9400.00	9322.85	-8.56	-1028.60	9311.76	9322.01	138.44	1904.76	87.13	2937.04	102.75	2834.30	2867.67	43.97	OSF1.50	Pass
9500.00	9422.85	-8.56	-1028.60	9426.27	9436.52	139.21	1904.46	87.12	2936.81	103.68	2833.14	2866.84	43.53	OSF1.50	Pass
9600.00	9522.85	-8.56	-1028.60	9528.26	9538.50	140.23	1903.81	87.10	2936.22	104.66	2831.56	2865.59	43.10	OSF1.50	Pass
9700.00	9622.85	-8.56	-1028.60	9625.22	9635.46	141.20	1903.36	87.08	2935.80	105.65	2830.15	2864.51	42.69	OSF1.50	Pass
9800.00	9722.85	-8.56	-1028.60	9734.88	9745.11	142.23	1902.68	87.06	2935.24	106.64	2828.60	2863.30	42.26	OSF1.50	Pass
9900.00	9822.85	-8.56	-1028.60	9843.72	9853.94	143.19	1901.62	87.04	2934.31	107.65	2826.66	2861.71	41.82	OSF1.50	Pass
10000.00	9922.85	-8.56	-1028.60	11254.66	10914.50	-398.47	1678.59	98.20	2909.35	113.61	2795.73	2832.77	39.24	OSF1.50	Pass
10100.00	10022.85	-8.56	-1028.60	11256.69	10914.56	-400.48	1678.28	98.24	2876.80	114.84	2817.96	2799.41	38.38	OSF1.50	Pass
10200.00	10122.85	-8.56	-1028.60	11258.61	10914.62	-402.38	1677.99	98.28	2847.39	116.03	2731.36	2769.20	37.59	OSF1.50	Pass
10300.00	10222.85	-8.56	-1028.60	11260.44	10914.68	-404.18	1677.71	98.32	2821.21	117.19	2704.02	2742.25	36.87	OSF1.50	Pass
10400.00	10322.85	-8.56	-1028.60	11262.17	10914.73	-405.89	1677.45	98.35	2798.37	118.31	2680.06	2718.67	36.21	OSF1.50	Pass
10500.00	10422.81	-10.22	-1028.71	11264.78	10914.80	-408.48	1677.05	97.58	2778.81	118.90	2659.91	2698.71	35.78	OSF1.50	Pass
10600.00	10521.35	-26.45	-1029.74	11275.52	10915.07	-419.09	1675.46	96.07	2761.75	119.07	2642.69	2681.54	35.51	OSF1.50	Pass
10700.00	10615.57	-59.51	-1031.86	11300.84	10915.53	-444.15	1671.81	95.10	2747.31	119.41	2627.90	2666.87	35.22	OSF1.50	Pass
10800.00	10702.60	-108.39	-1034.98	11349.10	10915.99	-491.91	1665.00	94.78	2735.41	120.11	2615.31	2654.51	34.86	OSF1.50	Pass
10900.00	10792.81	-171.61	-1039.02	11396.25	10916.11	-528.71	1659.88	94.42	2725.93	120.61	2605.22	2644.59	34.59	OSF1.50	Pass
11000.00	10844.85	-247.25	-1043.85	11423.00	10916.18	-565.18	1655.32	94.22	2718.76	121.12	2597.64	2637.18	34.35	OSF1.50	Pass
11100.00	10895.73	-333.02	-1049.33	11463.99	10916.22	-605.93	1650.85	94.18	2714.01	121.74	2592.27	2632.02	34.11	OSF1.50	Pass
11200.00	10930.92	-426.30	-1055.29	11505.83	10916.26	-647.59	1647.04	94.23	2711.41	122.44	2588.98	2628.96	33.88	OSF1.50	Pass
11300.00	10953.24	-523.60	-1060.50	11549.48	10916.30	-691.12	1643.91	93.38	2709.84	123.22	2586.62	2626.86	33.64	OSF1.50	Pass
11400.00	10967.26	-622.53	-1063.52	11591.39	10916.36	-732.98	1641.76	92.30	2708.01	124.03	2583.98	2624.49	33.39	OSF1.50	Pass
11500.00	10972.89	-722.34	-1064.33	11633.64	10916.43	-775.21	1640.48	91.04	2705.92	124.89	2581.03	2621.83	33.13	OSF1.50	Pass
11600.00	10973.23	-822.34	-1063.75	11676.01	10916.52	-817.57	1640.11	90.86	2704.46	125.79	2578.67	2619.77	32.87	OSF1.50	Pass
11700.00	10973.49	-922.34	-1063.15	11718.39	10916.66	-859.95	1640.64	90.86	2705.11	126.72	2578.38	2619.79	32.63	OSF1.50	Pass
11800.00	10973.75	-1022.33	-1062.55	11773.59	10916.87	-915.12	1642.49	90.86	2707.77	128.01	2579.75	2621.59	32.33	OSF1.50	Pass
11900.00	10974.02	-1122.33	-1061.95	11842.25	10916.73	-983.71	1645.61	90.86	2711.71	129.71	2582.00	2624.40	31.95	OSF1.50	Pass
12000.00	10974.28	-1222.33	-1061.35	11912.01	10916.53	-1053.36	1649.56	90.87	2716.78	131.52	2585.26	2628.27	31.56	OSF1.50	Pass
12100.00	10974.54	-1322.33	-1060.75	12003.53	10916.37	-1144.68	1655.49	90.87	2722.66	134.05	2588.62	2632.46	31.02	OSF1.50	Pass
12200.00	10974.80	-1422.32	-1060.15	12113.34	10915.89	-1254.27	1662.49	90.89	2728.45	137.29	2591.16	2636.09	30.34	OSF1.50	Pass
12300.00	10975.06	-1522.32	-1059.55	12210.61	10915.35	-1451.30	1672.02	90.90	2733.14	143.65	2599.49	2636.54	29.02	OSF1.50	Pass
12400.00	10975.33	-1622.32	-1058.95	12449.31	10915.22	-1589.98	1673.91	90.91	2733.71	148.41	2585.30	2633.94	28.08	OSF1.50	Pass
12500.00	10975.59	-1722.32	-1058.34	12521.11	10914.94	-1661.77	1675.10	90.92	2734.79	150.94	2583.85	2633.34	27.61	OSF1.50	Pass
12600.00	10975.85	-1822.32	-1057.74	12588.53	10914.63	-1729.16	1676.99	90.93	2737.00	153.36	2583.65	2633.93	27.19	OSF1.50	Pass
12700.00	10976.11	-1922.31	-1057.14	12663.86	10914.35	-1804.43	1679.80	90.94	2740.27	156.12	2584.15	2635.36	26.73	OSF1.50	Pass
12800.00	10976.37	-2022.31	-1056.54	12750.31	10914.24	-1890.79	1683.89	90.95	2744.29	159.38	2584.91	2637.20	26.22	OSF1.50	Pass
12900.00	10976.63	-2122.31	-1055.94	12881.76	10913.95	-2022.11	1689.70	90.96	2748.18	164.53	2583.65	2637.66	25.42	OSF1.50	Pass
13000.00	10976.90	-2222.31	-												

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Cimarex Dos Equis 11 Federal #2H ST01 XEM+MWD 10343ft to 15244ft - A

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
15000.00	10982.14	-4222.26	-1043.32	15081.14	10905.64	-4221.31	1677.54	91.27	2721.93	264.29	2457.64	2544.91	15.58	OSF1.50	Pass
15100.00	10982.40	-4322.26	-1042.72	15182.42	10905.67	-4322.58	1677.52	91.27	2721.32	269.27	2452.06	2540.98	15.29	OSF1.50	Pass
15200.00	10982.66	-4422.26	-1042.12	15244.00	10905.93	-4384.17	1677.52	91.27	2720.95	272.29	2448.70	2538.63	15.11	OSF1.50	Pass
15300.00	10982.92	-4522.26	-1041.52	15244.00	10905.93	-4384.17	1677.52	91.27	2723.63	272.06	2451.58	2541.43	15.14	OSF1.50	Pass
15400.00	10983.18	-4622.26	-1040.92	15244.00	10905.93	-4384.17	1677.52	91.27	2729.94	271.54	2458.40	2548.08	15.21	OSF1.50	Pass
15500.00	10983.45	-4722.25	-1040.32	15244.00	10905.93	-4384.17	1677.52	91.27	2739.88	270.76	2469.13	2558.55	15.31	OSF1.50	Pass
15600.00	10983.71	-4822.25	-1039.71	15244.00	10905.93	-4384.17	1677.52	91.27	2753.43	269.71	2483.71	2572.78	15.44	OSF1.50	Pass
15700.00	10983.97	-4922.25	-1039.11	15244.00	10905.93	-4384.17	1677.52	91.27	2770.51	268.42	2502.10	2590.74	15.61	OSF1.50	Pass
15800.00	10984.23	-5022.25	-1038.51	15244.00	10905.93	-4384.17	1677.52	91.27	2791.08	266.89	2524.19	2612.32	15.82	OSF1.50	Pass
15900.00	10984.49	-5122.25	-1037.91	15244.00	10905.93	-4384.17	1677.52	91.27	2815.05	265.15	2549.90	2637.45	16.06	OSF1.50	Pass
16000.00	10984.76	-5222.24	-1037.31	15244.00	10905.93	-4384.17	1677.52	91.27	2842.34	263.21	2579.13	2666.03	16.34	OSF1.50	Pass
16100.00	10985.02	-5322.24	-1036.71	15244.00	10905.93	-4384.17	1677.52	91.27	2872.86	261.11	2611.75	2697.95	16.65	OSF1.50	Pass
16200.00	10985.28	-5422.24	-1036.11	15244.00	10905.93	-4384.17	1677.52	91.27	2906.49	258.85	2647.65	2733.09	16.99	OSF1.50	Pass
16300.00	10985.54	-5522.24	-1035.51	15244.00	10905.93	-4384.17	1677.52	91.27	2943.14	256.45	2686.69	2771.34	17.37	OSF1.50	Pass
16400.00	10985.80	-5622.23	-1034.91	15244.00	10905.93	-4384.17	1677.52	91.27	2982.69	253.96	2728.74	2812.56	17.78	OSF1.50	Pass
16500.00	10986.07	-5722.23	-1034.31	15244.00	10905.93	-4384.17	1677.52	91.27	3025.04	251.37	2773.67	2856.63	18.22	OSF1.50	Pass
16600.00	10986.33	-5822.23	-1033.70	15244.00	10905.93	-4384.17	1677.52	91.27	3070.06	248.71	2821.35	2903.42	18.69	OSF1.50	Pass
16700.00	10986.59	-5922.23	-1033.10	15244.00	10905.93	-4384.17	1677.52	91.27	3117.63	246.01	2871.63	2952.80	19.19	OSF1.50	Pass
16800.00	10986.85	-6022.23	-1032.50	15244.00	10905.93	-4384.17	1677.52	91.27	3167.65	243.27	2924.39	3004.64	19.72	OSF1.50	Pass
16900.00	10987.11	-6122.22	-1031.90	15244.00	10905.93	-4384.17	1677.52	91.27	3220.00	240.51	2979.49	3058.83	20.28	OSF1.50	Pass
17000.00	10987.38	-6222.22	-1031.30	15244.00	10905.93	-4384.17	1677.52	91.27	3274.57	237.75	3036.82	3115.23	20.86	OSF1.50	Pass
17100.00	10987.64	-6322.22	-1030.70	15244.00	10905.93	-4384.17	1677.52	91.27	3331.25	235.01	3096.24	3173.74	21.48	OSF1.50	Pass
17200.00	10987.90	-6422.22	-1030.10	15244.00	10905.93	-4384.17	1677.52	91.27	3389.92	232.28	3157.64	3234.24	22.11	OSF1.50	Pass
17300.00	10988.16	-6522.22	-1029.50	15244.00	10905.93	-4384.17	1677.52	91.27	3450.50	229.59	3220.91	3296.61	22.78	OSF1.50	Pass
17400.00	10988.42	-6622.21	-1028.90	15244.00	10905.93	-4384.17	1677.52	91.27	3512.89	226.94	3285.95	3360.76	23.46	OSF1.50	Pass
17500.00	10988.69	-6722.21	-1028.30	15244.00	10905.93	-4384.17	1677.52	91.27	3576.98	224.33	3352.64	3426.59	24.17	OSF1.50	Pass
17600.00	10988.95	-6822.21	-1027.69	15244.00	10905.93	-4384.17	1677.52	91.27	3642.68	221.78	3420.90	3494.00	24.90	OSF1.50	Pass
17700.00	10989.21	-6922.21	-1027.09	15244.00	10905.93	-4384.17	1677.52	91.27	3709.92	219.29	3490.63	3562.90	25.65	OSF1.50	Pass
17800.00	10989.47	-7022.20	-1026.49	15244.00	10905.93	-4384.17	1677.52	91.27	3778.61	216.86	3561.75	3633.21	26.42	OSF1.50	Pass
17900.00	10989.73	-7122.20	-1025.89	15244.00	10905.93	-4384.17	1677.52	91.27	3848.68	214.50	3634.18	3704.85	27.21	OSF1.50	Pass
18000.00	10990.00	-7222.20	-1025.29	15244.00	10905.93	-4384.17	1677.52	91.27	3920.04	212.20	3707.84	3777.74	28.02	OSF1.50	Pass
18100.00	10990.26	-7322.20	-1024.69	15244.00	10905.93	-4384.17	1677.52	91.27	3992.63	209.98	3782.65	3851.81	28.85	OSF1.50	Pass
18200.00	10990.52	-7422.20	-1024.09	15244.00	10905.93	-4384.17	1677.52	91.27	4066.38	207.82	3858.56	3927.00	29.69	OSF1.50	Pass
18300.00	10990.78	-7522.19	-1023.49	15244.00	10905.93	-4384.17	1677.52	91.27	4141.24	205.74	3935.50	4003.25	30.55	OSF1.50	Pass
18400.00	10991.04	-7622.19	-1022.89	15244.00	10905.93	-4384.17	1677.52	91.27	4217.14	203.73	4013.41	4080.48	31.42	OSF1.50	Pass
18500.00	10991.31	-7722.19	-1022.29	15244.00	10905.93	-4384.17	1677.52	91.27	4294.02	201.79	4092.23	4158.66	32.30	OSF1.50	Pass
18600.00	10991.57	-7822.19	-1021.68	15244.00	10905.93	-4384.17	1677.52	91.27	4371.85	199.93	4171.92	4237.73	33.20	OSF1.50	Pass
18700.00	10991.83	-7922.19	-1021.08	15244.00	10905.93	-4384.17	1677.52	91.27	4450.55	198.13	4252.42	4317.63	34.11	OSF1.50	Pass
18800.00	10992.09	-8022.18	-1020.48	15244.00	10905.93	-4384.17	1677.52	91.27	4530.10	196.40	4333.70	4398.33	35.02	OSF1.50	Pass
18900.00	10992.35	-8122.18	-1019.88	15244.00	10905.93	-4384.17	1677.52	91.27	4610.45	194.74	4415.70	4479.78	35.95	OSF1.50	Pass
19000.00	10992.61	-8222.18	-1019.28	15244.00	10905.93	-4384.17	1677.52	91.27	4691.55	193.15	4498.40	4561.95	36.89	OSF1.50	Pass
19100.00	10992.88	-8322.18	-1018.68	15244.00	10905.93	-4384.17	1677.52	91.27	4773.36	191.62	4581.74	4644.78	37.84	OSF1.50	Pass
19200.00	10993.14	-8422.17	-1018.08	15244.00	10905.93	-4384.17	1677.52	91.27	4855.86	190.15	4665.71	4728.26	38.79	OSF1.50	Pass
19300.00	10993.40	-8522.17	-1017.48	15244.00	10905.93	-4384.17	1677.52	91.27	4939.00	188.75	4750.25	4812.34	39.76	OSF1.50	Pass
19400.00	10993.66	-8622.17	-1016.88	15244.00	10905.93	-4384.17	1677.52	91.27	5022.76	187.40	4835.36	4896.99	40.73	OSF1.50	Pass
19500.00	10993.92	-8722.17	-1016.28	15244.00	10905.93	-4384.17	1677.52	91.27	5107.11	186.12	4920.99	4982.20	41.70	OSF1.50	Pass
19600.00	10994.19	-8822.17	-1015.68	15244.00	10905.93	-4384.17	1677.52	91.27	5192.01	184.89	5007.12	5067.92	42.68	OSF1.50	Pass
19700.00	10994.45	-8922.16	-1015.07	15244.00	10905.93	-4384.17	1677.52	91.27	5277.44	183.71	5093.73	5154.13	43.66	OSF1.50	Pass
19800.00	10994.71	-9022.16	-1014.47	15244.00	10905.93	-4384.17	1677.52	91.27	5363.37	182.59	5180.78	5240.81	44.65	OSF1.50	Pass
19900.00	10994.97	-9122.16	-1013.87	15244.00	10905.93	-4384.17	1677.52	91.27	5449.78	181.51	5268.27	5327.94	45.64	OSF1.50	Pass
20000.00	10995.23	-9222.16	-1013.27	15244.00	10905.93	-4384.17	1677.52	91.27	5536.65	180.49	5356.16	5415.49	46.64	OSF1.50	Pass
20100.00	10995.50	-9322.16	-1012.67	15244.00	10905.93	-4384.17	1677.52	91.27	5623.96	179.51	5444.44	5503.45	47.64	OSF1.50	Pass
20200.00	10995.76	-9422.15	-1012.07	15244.00	10905.93	-4384.17	1677.52	91.27	5711.68	178.58	5533.10	5591.79	48.64	OSF1.50	Pass
20300.00	10996.02	-9522.15	-1011.47	15244.00	10905.93	-4384.17	1677.52	91.27	5799.80	177.69	5622.11	5680.50	49.64	OSF1.50	Pass
20400.00	10996.28	-9622.15	-1010.87	15244.00	10905.93	-4384.17	1677.52	91.27	5888.30	176.85	5711.45	5769.57	50.64	OSF1.50	Pass
20500.00	10996.54	-9722.15	-1010.27	15244.00	10905.93	-4384.17	1677.52	91.27	5977.16	176.04	5801.12	5858.96	51.64	OSF1.50	Pass
20600.00	10996.81	-9822.14	-1009.67	15244.00	10905.93	-4384.17	1677.52	91.27	6066.37	175.28	5891.09	5948.68	52.64	OSF1.50	Pass
20700.00	10997.07	-9922.14	-1009.06	15244.00	10905.93	-4384.17	1677.52	91.27	6155.91	174.55	5981.36	6038.71	53.65	OSF1.50	Pass
20712.06	10997.10	-9934.20	-1008.99	15244.00	10905.93	-4384.17	1677.52	91.27	6166.73	174.47	5992.26	6049.59	53.77	OSF1.50	Pass

End of results

...Dos Equis 11-14 Federal Com 25Y\Coterra Dos Equis 11-14 Federal Com 25Y Rev0 kFc 16Jun22

Drilling Office 2.10.829.1

Schlumberger-Private

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Field: NM Lea County (NAD 83)
 Structure: Cimarex Dos Equis 11-14 Federal Com 63H
 Slot: New Slot
 Client: Cimarex Energy
 Coordinate System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 North Reference: Grid
 Grid Convergence Angle: 0.36953692°
 Well: Dos Equis 11-14 Federal Com 63H
 Borehole: Dos Equis 11-14 Federal Com 63H
 Trajectory: Cimarex Dos Equis 11-14 Federal Com 63H Rev0 RM 26Aug19
 Type: Def Plan
 Grid Scale Factor: 0.999961628
 Magnetic Declination: 6.670°
 Reference Point: Magnetic Declination Date: August 26, 2019
 Magnetic Model: HDGM 2019
 Northing: 451145.590 (ftUS)
 Easting: 755515.690 (ftUS)
 Elevation: 3628.800 (ft) MSL
 Structure Unc.: 0.000 (ft) (3 sigma)
 Slot Unc.: 0.000 (ft) (3 sigma)

Trajectory Error Model: ISCWSA0 3-D 95.000% Confidence 2.7955 sigma

Surveying Prog: While Drilling

Description

Part

MD From (ft)

MD To (ft)

EOU Freq (ft)

Survey Tool Type

Hole Size (in)

Casing Diameter (in)

Borehole / Survey

1

0.000

26.000

1/100.000

A001Mb_MWD-Depth Only

30.000

30.000 uis 11-14 Federal Com 63H Rev0 RM 26Aug19

1

26.000

22197.550

1/100.000

A001Mb_MWD

30.000

30.000 uis 11-14 Federal Com 63H Rev0 RM 26Aug19

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
All local minima indicated.															
0.00	0.00	0.00	0.00	0.00	11.80	185.98	2457.24	85.67	2464.30	32.81	2431.49	2461.80	N/A	1S = 10.00 (m)	Pass
100.00	100.00	0.00	0.00	88.20	100.00	185.98	2457.24	85.67	2464.27	32.81	2431.46	2461.42	6964.35	1S = 10.00 (m)	Pass
200.00	200.00	0.00	0.00	188.20	200.00	185.98	2457.24	85.67	2464.27	32.81	2431.46	2460.44	1857.01	1S = 10.00 (m)	Pass
300.00	300.00	0.00	0.00	288.20	300.00	185.98	2457.24	85.67	2464.27	32.81	2431.46	2459.44	1057.89	1S = 10.00 (m)	Pass
400.00	400.00	0.00	0.00	388.20	400.00	185.98	2457.24	85.67	2464.27	32.81	2431.46	2458.44	739.51	1S = 10.00 (m)	Pass
500.00	500.00	0.00	0.00	488.20	500.00	185.98	2457.24	85.67	2464.27	32.81	2431.46	2457.44	568.42	1S = 10.00 (m)	Pass
600.00	599.99	-0.87	0.00	588.19	599.99	185.98	2457.24	85.65	2464.34	32.81	2431.53	2456.53	463.74	1S = 10.00 (m)	Pass
700.00	699.98	-2.62	0.00	688.18	699.98	185.98	2457.24	85.61	2464.47	32.81	2431.66	2455.69	392.40	1S = 10.00 (m)	Pass
800.00	799.96	-4.36	0.00	788.16	799.96	185.98	2457.24	85.57	2464.60	32.81	2431.79	2454.85	339.59	1S = 10.00 (m)	Pass
900.00	899.95	-6.11	0.00	888.15	899.95	185.98	2457.24	85.53	2464.74	32.81	2431.93	2454.01	299.07	1S = 10.00 (m)	Pass
1000.00	999.93	-7.85	0.00	988.13	999.93	185.98	2457.24	85.49	2464.88	32.81	2432.07	2453.15	267.05	1S = 10.00 (m)	Pass
1100.00	1099.92	-9.60	0.00	1088.12	1099.92	185.98	2457.24	85.45	2465.01	32.81	2432.20	2452.30	241.16	1S = 10.00 (m)	Pass
1200.00	1199.90	-11.34	0.00	1188.10	1199.90	185.98	2457.24	85.41	2465.15	32.81	2432.34	2451.45	219.79	1S = 10.00 (m)	Pass
1300.00	1299.89	-13.09	0.00	1288.09	1299.89	185.98	2457.24	85.37	2465.29	32.81	2432.48	2450.59	201.88	1S = 10.00 (m)	Pass
1400.00	1399.87	-14.83	0.00	1388.07	1399.87	185.98	2457.24	85.33	2465.43	32.81	2432.63	2449.74	186.64	1S = 10.00 (m)	Pass
1500.00	1499.86	-16.58	0.00	1488.06	1499.86	185.98	2457.24	85.29	2465.58	32.81	2432.77	2448.88	173.54	1S = 10.00 (m)	Pass
1506.20	1506.06	-16.69	-0.01	1494.26	1506.06	185.98	2457.24	85.29	2465.59	32.81	2432.78	2448.84	172.79	1S = 10.00 (m)	Pass
1600.00	1599.83	-18.11	-1.73	1588.03	1599.83	185.98	2457.24	85.27	2467.43	32.81	2434.62	2449.74	162.29	1S = 10.00 (m)	Pass
1700.00	1699.68	-19.20	-6.92	1687.88	1699.68	185.98	2457.24	85.25	2472.69	32.81	2439.89	2454.01	152.67	1S = 10.00 (m)	Pass
1800.00	1799.30	-19.86	-15.57	1787.50	1799.30	185.98	2457.24	85.23	2481.37	32.81	2448.56	2461.70	144.38	1S = 10.00 (m)	Pass
1900.00	1898.56	-20.08	-27.66	1886.76	1898.56	185.98	2457.24	85.21	2493.44	32.81	2460.63	2472.78	137.19	1S = 10.00 (m)	Pass
2000.00	1997.44	-19.94	-42.59	1985.64	1997.44	185.98	2457.24	85.23	2508.30	32.81	2475.49	2486.66	130.90	1S = 10.00 (m)	Pass
2100.00	2096.27	-19.77	-57.80	2084.47	2096.27	185.98	2457.24	85.26	2523.45	32.81	2490.64	2500.82	125.26	1S = 10.00 (m)	Pass
2200.00	2195.11	-19.59	-73.01	2183.31	2195.11	185.98	2457.24	85.29	2538.59	34.17	2504.42	2514.98	120.13	OSF1.50	Pass
2300.00	2293.95	-19.42	-88.22	2282.15	2293.95	185.98	2457.24	85.33	2553.74	35.65	2518.09	2529.14	115.44	OSF1.50	Pass
2400.00	2392.78	-19.24	-103.44	2380.98	2392.78	185.98	2457.24	85.36	2568.89	37.14	2531.75	2543.30	111.14	OSF1.50	Pass
2500.00	2491.62	-19.07	-118.65	2479.82	2491.62	185.98	2457.24	85.39	2584.04	38.63	2545.41	2557.45	107.19	OSF1.50	Pass
2600.00	2590.45	-18.89	-133.86	2578.65	2590.45	185.98	2457.24	85.42	2599.19	40.12	2559.07	2571.61	103.55	OSF1.50	Pass
2700.00	2689.29	-18.71	-149.07	2677.49	2689.29	185.98	2457.24	85.45	2614.34	41.61	2572.73	2585.76	100.17	OSF1.50	Pass
2800.00	2788.13	-18.54	-164.28	2776.33	2788.13	185.98	2457.24	85.48	2629.49	43.11	2586.38	2599.92	97.04	OSF1.50	Pass
2900.00	2886.96	-18.36	-179.49	2875.16	2886.96	185.98	2457.24	85.51	2644.64	44.60	2600.04	2614.07	94.13	OSF1.50	Pass
3000.00	2985.80	-18.19	-194.71	2974.00	2985.80	185.98	2457.24	85.54	2659.80	46.10	2613.69	2628.23	91.41	OSF1.50	Pass
3100.00	3084.64	-18.01	-209.92	3072.84	3084.64	185.98	2457.24	85.57	2674.95	47.60	2627.34	2642.38	88.88	OSF1.50	Pass
3200.00	3183.47	-17.84	-225.13	3171.67	3183.47	185.98	2457.24	85.60	2690.10	49.11	2641.00	2656.53	86.50	OSF1.50	Pass
3300.00	3282.31	-17.66	-240.34	3270.51	3282.31	185.98	2457.24	85.62	2705.26	50.61	2654.65	2670.69	84.27	OSF1.50	Pass
3400.00	3381.14	-17.48	-255.55	3369.34	3381.14	185.98	2457.24	85.65	2720.41	52.11	2668.30	2684.84	82.17	OSF1.50	Pass
3500.00	3479.98	-17.31	-270.76	3468.18	3479.98	185.98	2457.24	85.68	2735.57	53.62	2681.95	2698.99	80.20	OSF1.50	Pass
3600.00	3578.82	-17.13	-285.97	3567.02	3578.82	185.98	2457.24	85.71	2750.73	55.12	2695.60	2713.14	78.34	OSF1.50	Pass
3700.00	3677.65	-16.96	-301.19	3665.85	3677.65	185.98	2457.24	85.74	2765.88	56.63	2709.25	2727.30	76.57	OSF1.50	Pass
3800.00	3776.49	-16.78	-316.40	3764.69	3776.49	185.98	2457.24	85.76	2781.04	58.14	2722.90	2741.45	74.91	OSF1.50	Pass
3900.00	3875.32	-16.61	-331.61	3863.52	3875.32	185.98	2457.24	85.79	2796.20	59.65	2736.55	2755.60	73.33	OSF1.50	Pass
4000.00	3974.16	-16.43	-346.82	3962.36	3974.16	185.98	2457.24	85.82	2811.36	61.16	2750.20	2769.75	71.83	OSF1.50	Pass
4100.00	4073.00	-16.26	-362.03	4061.20	4073.00	185.98	2457.24	85.84	2826.52	62.67	2763.85	2783.91	70.41	OSF1.50	Pass
4200.00	4171.83	-16.08	-377.24	4160.03	4171.83	185.98	2457.24	85.87	2841.68	64.18	2777.50	2798.06	69.05	OSF1.50	Pass
4300.00	4270.67	-15.90	-392.46	4258.87	4270.67	185.98	2457.24	85.89	2856.84	65.69	2791.15	2812.21	67.76	OSF1.50	Pass
4400.00	4369.50	-15.73	-407.67	4357.70	4369.50	185.98	2457.24	85.92	2872.00	67.20	2804.80	2826.37	66.53	OSF1.50	Pass
4500.00	4468.34	-15.55	-422.88	4456.54	4468.34	185.98	2457.24	85.94	2887.16	68.71	2818.45	2840.52	65.35	OSF1.50	Pass
4600.00	4567.18	-15.38	-438.09	4555.38	4567.18	185.98	2457.24	85.97	2902.33	70.22	2832.10	2854.68	64.23	OSF1.50	Pass
4700.00	4666.01	-15.20	-453.30	4654.21	4666.01	185.98	2457.24	85.99	2917.49	71.74	2845.75	2868.83	63.15	OSF1.50	Pass
4800.00	4764.85	-15.03	-468.51	4753.05	4764.85	185.98	2457.24	86.02	2932.65	73.25	2859.40	2882.99	62.12	OSF1.50	Pass
4900.00	4863.69	-14.85	-483.73	4851.89	4863.69	185.98	2457.24	86.04	2947.82	74.76	2873.05	2897.14	61.14	OSF1.50	Pass
5000.00	4962.52	-14.67	-498.94	4950.72	4962.52	185.98	2457.24	86.06	2962.98	76.28	2886.70	2911.30	60.19	OSF1.50	Pass
5100.00	5061.36	-14.50	-514.15	5049.56	5061.36	185.98	2457.24	86.09	2978.15	77.79	2900.36	2925.45	59.28	OSF1.50	Pass
5200.00	5160.19	-14.32	-529.36	5148.39	5160.19	185.98	2457.24	86.11	2993.31	79.30	2914.01	2939.61	58.41	OSF1.50	Pass
5300.00	5259.03	-14.15	-544.57	5247.23	5259.03	185.98	2457.24	86.13	3008.48	80.82	2927.66	2953.76	57.57	OSF1.50	Pass
5400.00	5357.87	-13.97	-559.78	5346.07	5357.87	185.98	2457.24	86.16	3023.64	82.33	2941.31	2967.92	56.76	OSF1.50	Pass
5500.00	5456.70	-13.80	-574.99	5444.90	5456.70	185.98	2457.24	86.18	3038.81	83.85	2954.96	2982.08	55.99	OSF1.50	Pass
5600.00	5555.54	-13.62	-590.21	5543.74	5555.54	185.98	2457.24	86.20	3053.98	85.37	2968.61	2996.23	55.24	OSF1.50	Pass
5700.00	5654.37	-13.45	-605.42	5642.57	5654.37	185.98	2457.24	86.22	3069.15	86.88	2982.26	3010.39	54.51	OSF1.50	Pass
5800.00	5753.21	-13.27	-620.63	5741.41	5753.21	185.98	2457.24	86.24	3084.31	88.40	2995.92	3024.55	53.82	OSF1.50	Pass
5900.00	5852.05	-13.09	-635.84	5829.25	5852.05	185.98	2457.24	86.27	3099.48	89.91	3009.57	3038.71	53.14	OSF1.50	Pass
6000.00	5950.88	-12.92	-651.05	5928.08	5950.88	185.98	2457.24	86.29	3114.65	91.42	3024.22	3052.85	52.49	OSF1.50	Pass
6100.00	6049.72	-12.74	-666.26	6037.92	6049.72	185.98	2457.24	86.31	3129.82	92.95	3036.87	3067.02	51.86	OSF1.50	Pass
6200.00	6148.55	-12.57	-681.48	6136.75	6148.55	185.98	2457.24	86.33	3144.99	94.46	3050.53	3081.18	51.26	OSF1.50	Pass
6300.00	6247.39	-12.39	-696.69	6235.59	6247.39	185.98	2457.24	86.35	3160.16	95.98	3064.18	3095.34	50.67	OSF1.50	Pass
6400.00	6346.23	-12.22	-711.90	6334.43	6346.23	185.98	2457.24	86.37	3175.33	97.50	3077.83	3109.50	50.10	OSF1.50	Pass
6500.00	6445.06	-12.04	-727.11	6433.26	6445.06	185.98	2457.24	86.39	3190.50	99.02	3091.49	3123.66	49.55	OSF1.50	Pass
6600.00	6543.90	-11.87													

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Cimarex Dos Equis 11-14 Federal Com 63H Rev0 RM 26Aug19

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
6700.00	6642.74	-11.69	-757.53	6630.94	6642.74	185.98	2457.24	86.43	3220.85	102.05	3118.80	3151.98	48.49	OSF1.50	Pass
6800.00	6741.57	-11.51	-772.75	6729.77	6741.57	185.98	2457.24	86.45	3236.02	103.57	3132.45	3166.14	47.99	OSF1.50	Pass
6900.00	6840.41	-11.34	-787.96	6828.61	6840.41	185.98	2457.24	86.47	3251.19	105.09	3146.10	3180.30	47.50	OSF1.50	Pass
7000.00	6939.24	-11.16	-803.17	6927.44	6939.24	185.98	2457.24	86.49	3266.37	106.61	3159.76	3194.46	47.03	OSF1.50	Pass
7100.00	7038.08	-10.99	-818.38	7026.28	7038.08	185.98	2457.24	86.51	3281.54	108.12	3173.41	3208.62	46.57	OSF1.50	Pass
7200.00	7136.92	-10.81	-833.59	7125.12	7136.92	185.98	2457.24	86.53	3296.71	109.64	3187.07	3222.78	46.12	OSF1.50	Pass
7300.00	7235.75	-10.64	-848.80	7223.95	7235.75	185.98	2457.24	86.55	3311.89	111.16	3200.72	3236.94	45.68	OSF1.50	Pass
7400.00	7334.59	-10.46	-864.01	7322.79	7334.59	185.98	2457.24	86.57	3327.06	112.68	3214.38	3251.11	45.26	OSF1.50	Pass
7500.00	7433.42	-10.28	-879.23	7421.62	7433.42	185.98	2457.24	86.59	3342.24	114.20	3228.03	3265.27	44.85	OSF1.50	Pass
7600.00	7532.26	-10.11	-894.44	7520.46	7532.26	185.98	2457.24	86.60	3357.41	115.72	3241.69	3279.43	44.45	OSF1.50	Pass
7700.00	7631.10	-9.93	-909.65	7619.30	7631.10	185.98	2457.24	86.62	3372.59	117.24	3255.35	3293.59	44.06	OSF1.50	Pass
7800.00	7729.93	-9.76	-924.86	7718.13	7729.93	185.98	2457.24	86.64	3387.76	118.76	3269.01	3307.76	43.68	OSF1.50	Pass
7900.00	7828.77	-9.58	-940.07	7816.97	7828.77	185.98	2457.24	86.66	3402.94	120.28	3282.66	3321.92	43.31	OSF1.50	Pass
8000.00	7927.60	-9.41	-955.28	7915.80	7927.60	185.98	2457.24	86.68	3418.11	121.80	3296.32	3336.08	42.95	OSF1.50	Pass
8100.00	8026.44	-9.23	-970.50	8014.64	8026.44	185.98	2457.24	86.69	3433.29	123.32	3309.97	3350.25	42.59	OSF1.50	Pass
8200.00	8125.28	-9.06	-985.71	8113.48	8125.28	185.98	2457.24	86.71	3448.47	124.84	3323.63	3364.41	42.25	OSF1.50	Pass
8300.00	8224.15	-8.88	-1000.68	8212.35	8224.15	185.98	2457.24	86.74	3463.61	126.36	3337.05	3378.34	41.91	OSF1.50	Pass
8400.00	8323.40	-8.74	-1012.88	8311.60	8323.40	185.98	2457.24	86.77	3478.75	127.87	3350.70	3392.49	41.55	OSF1.50	Pass
8500.00	8423.01	-8.64	-1021.60	8411.21	8423.01	185.98	2457.24	86.79	3484.28	129.38	3364.90	3397.20	41.16	OSF1.50	Pass
8600.00	8522.87	-8.58	-1026.84	8511.07	8522.87	185.98	2457.24	86.80	3489.51	130.87	3378.64	3401.43	40.74	OSF1.50	Pass
8700.00	8622.85	-8.56	-1028.60	8611.05	8622.85	185.98	2457.24	86.81	3491.27	132.36	3388.91	3402.20	40.30	OSF1.50	Pass
8800.00	8722.85	-8.56	-1028.60	8711.05	8722.85	185.98	2457.24	86.81	3491.27	133.80	3397.47	3401.23	39.86	OSF1.50	Pass
8900.00	8822.85	-8.56	-1028.60	8811.05	8822.85	185.98	2457.24	86.81	3491.27	135.24	3406.02	3400.27	39.42	OSF1.50	Pass
9000.00	8922.85	-8.56	-1028.60	8911.05	8922.85	185.98	2457.24	86.81	3491.27	136.69	3415.58	3399.31	39.00	OSF1.50	Pass
9100.00	9022.85	-8.56	-1028.60	9011.05	9022.85	185.98	2457.24	86.81	3491.27	138.13	3425.13	3398.34	38.58	OSF1.50	Pass
9200.00	9122.85	-8.56	-1028.60	9111.05	9122.85	185.98	2457.24	86.81	3491.27	139.58	3434.69	3397.38	38.18	OSF1.50	Pass
9300.00	9222.85	-8.56	-1028.60	9211.05	9222.85	185.98	2457.24	86.81	3491.27	141.03	3444.24	3396.41	37.78	OSF1.50	Pass
9400.00	9322.85	-8.56	-1028.60	9311.05	9322.85	185.98	2457.24	86.81	3491.27	142.48	3453.79	3395.45	37.39	OSF1.50	Pass
9500.00	9422.85	-8.56	-1028.60	9411.05	9422.85	185.98	2457.24	86.81	3491.27	143.93	3463.34	3394.48	37.00	OSF1.50	Pass
9600.00	9522.85	-8.56	-1028.60	9511.05	9522.85	185.98	2457.24	86.81	3491.27	145.38	3472.89	3393.51	36.63	OSF1.50	Pass
9700.00	9622.85	-8.56	-1028.60	9611.05	9622.85	185.98	2457.24	86.81	3491.27	146.83	3482.44	3392.54	36.26	OSF1.50	Pass
9800.00	9722.85	-8.56	-1028.60	9711.05	9722.85	185.98	2457.24	86.81	3491.27	148.29	3491.99	3391.57	35.90	OSF1.50	Pass
9900.00	9822.85	-8.56	-1028.60	9811.05	9822.85	185.98	2457.24	86.81	3491.27	149.74	3501.54	3390.60	35.54	OSF1.50	Pass
10000.00	9922.85	-8.56	-1028.60	9911.05	9922.85	185.98	2457.24	86.81	3491.27	151.20	3511.09	3389.63	35.19	OSF1.50	Pass
10100.00	10022.85	-8.56	-1028.60	10011.05	10022.85	185.98	2457.24	86.81	3491.27	152.66	3520.64	3388.66	34.85	OSF1.50	Pass
10200.00	10122.85	-8.56	-1028.60	10111.05	10122.85	185.98	2457.24	86.81	3491.27	154.11	3530.19	3387.69	34.52	OSF1.50	Pass
10300.00	10222.85	-8.56	-1028.60	10211.05	10222.85	185.98	2457.24	86.81	3491.27	155.57	3539.74	3386.72	34.19	OSF1.50	Pass
10400.00	10322.85	-8.56	-1028.60	10311.05	10322.85	185.98	2457.24	86.81	3491.27	157.03	3549.29	3385.74	33.86	OSF1.50	Pass
10500.00	10422.81	-10.22	-1028.71	10411.01	10422.81	185.98	2457.24	86.80	3491.47	157.98	3558.84	3385.31	33.66	OSF1.50	Pass
10600.00	10521.35	-26.45	-1029.74	10509.55	10521.35	185.98	2457.24	86.74	3493.45	158.73	3568.39	3384.87	33.52	OSF1.50	Pass
10700.00	10615.57	-59.51	-1031.86	10603.77	10615.57	185.98	2457.24	86.65	3497.72	159.46	3577.94	3384.42	33.40	OSF1.50	Pass
10800.00	10702.60	-108.39	-1034.98	10690.80	10702.60	185.98	2457.24	86.65	3504.61	160.15	3587.49	3383.97	33.32	OSF1.50	Pass
10900.00	10779.81	-171.61	-1039.02	10768.01	10779.81	185.98	2457.24	86.84	3514.50	160.77	3597.04	3383.52	33.29	OSF1.50	Pass
11000.00	10844.85	-247.25	-1043.85	10833.05	10844.85	185.98	2457.24	87.37	3527.80	161.31	3606.59	3383.07	33.30	OSF1.50	Pass
11100.00	10895.73	-333.02	-1048.33	10883.93	10895.73	185.98	2457.24	88.37	3544.77	161.77	3616.14	3382.62	33.36	OSF1.50	Pass
11200.00	10930.92	-426.30	-1055.29	10919.12	10930.92	185.98	2457.24	89.94	3565.50	162.11	3625.69	3382.17	33.48	OSF1.50	Pass
11300.00	10953.24	-523.60	-1060.50	10941.44	10953.24	185.98	2457.24	89.84	3588.59	162.36	3635.24	3381.72	33.65	OSF1.50	Pass
11400.00	10967.26	-622.53	-1063.52	10955.46	10967.26	185.98	2457.24	89.70	3612.41	162.57	3644.84	3381.27	33.83	OSF1.50	Pass
11500.00	10972.89	-722.34	-1064.33	13009.19	12351.26	-708.24	2280.19	67.43	3617.45	172.29	3645.16	3501.76	31.94	OSF1.50	Pass
11600.00	10973.23	-822.34	-1063.75	13109.19	12350.83	-808.23	2280.79	67.27	3617.18	173.65	3644.53	3500.58	31.68	OSF1.50	Pass
11700.00	10973.49	-922.34	-1063.15	13209.18	12350.40	-908.23	2281.39	67.28	3616.91	175.15	3643.96	3499.31	31.40	OSF1.50	Pass
11800.00	10973.75	-1022.33	-1062.55	13309.18	12349.97	-1008.22	2281.99	67.29	3616.65	176.79	3643.38	3498.04	31.11	OSF1.50	Pass
11900.00	10974.02	-1122.33	-1061.95	13409.18	12349.54	-1108.22	2282.59	67.30	3616.38	178.56	3642.80	3496.51	30.79	OSF1.50	Pass
12000.00	10974.28	-1222.33	-1061.35	13509.18	12349.11	-1208.21	2283.19	67.31	3616.12	180.47	3642.22	3495.02	30.46	OSF1.50	Pass
12100.00	10974.54	-1322.33	-1060.75	13609.17	12348.68	-1308.21	2283.78	67.32	3615.85	182.50	3641.64	3493.53	30.11	OSF1.50	Pass
12200.00	10974.80	-1422.32	-1060.15	13709.17	12348.25	-1408.20	2284.38	67.33	3615.59	184.65	3641.06	3492.04	29.75	OSF1.50	Pass
12300.00	10975.06	-1522.32	-1059.55	13809.17	12347.83	-1508.20	2284.98	67.34	3615.32	186.92	3640.48	3490.55	29.38	OSF1.50	Pass
12400.00	10975.33	-1622.32	-1058.95	13909.17	12347.40	-1608.19	2285.58	67.35	3615.06	189.31	3639.90	3489.06	29.01	OSF1.50	Pass
12500.00	10975.59	-1722.32	-1058.34	14009.16	12346.97	-1708.19	2286.18	67.36	3614.79	191.81	3639.32	3487.57	28.62	OSF1.50	Pass
12600.00	10975.85	-1822.32	-1057.74	14109.16	12346.54	-1808.18	2286.78	67.37	3614.53	194.41	3638.74	3486.08	28.23	OSF1.50	Pass
12700.00	10976.11	-1922.31	-1057.14	14209.16	12346.11	-1908.18	2287.38	67.38	3614.26	197.11	3638.16	3484.59	27.84	OSF1.50	Pass
12800.00	10976.37	-2022.31	-1056.54	14309.16	12345.68	-2008.17	2287.97	67.39	3614.00	199.91	3637.58	3483.10	27.44	OSF1.50	Pass
12900.00	10976.63	-2122.31	-1055.94	14409.15	12345.25	-2108.17	2288.57	67.40	3613.73	202.81	3636.99	3481.61	27.04	OSF1.50	Pass
13000.00	10976.90	-2222.31	-1055.34	14509.15	12344.82	-2208.16	2289.17	67.41	3613.47	205.79	3636.40	3480.12	26.64	OSF1.50	Pass
13100.00	10977.16	-2322.31	-1054.74	14609.15	12344.39	-2308.16	2289.77	67.42	3613.21	208.86	3635.81	3478.63	26.25	OSF1.50	Pass
13200.0															

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Cimarex Dos Equis 11-14 Federal Com 63H Rev0 RM 26Aug19

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
15200.00	10982.66	-4422.26	-1042.12	16709.10	12335.37	-4408.05	2302.34	67.63	3607.69	287.55	3320.14	3415.16	18.97	OSF1.50	Pass
15300.00	10982.92	-4522.26	-1041.52	16809.10	12334.94	-4508.04	2302.94	67.64	3607.43	291.78	3315.65	3412.08	18.69	OSF1.50	Pass
15400.00	10983.18	-4622.26	-1040.92	16909.09	12334.51	-4608.04	2303.54	67.65	3607.17	296.03	3311.14	3408.98	18.42	OSF1.50	Pass
15500.00	10983.45	-4722.25	-1040.32	17009.09	12334.08	-4708.03	2304.14	67.67	3606.91	300.32	3306.59	3405.86	18.15	OSF1.50	Pass
15600.00	10983.71	-4822.25	-1039.71	17109.09	12333.65	-4808.03	2304.74	67.68	3606.65	304.63	3302.02	3402.73	17.89	OSF1.50	Pass
15700.00	10983.97	-4922.25	-1039.11	17209.09	12333.22	-4908.02	2305.33	67.69	3606.39	308.97	3297.42	3399.58	17.64	OSF1.50	Pass
15800.00	10984.23	-5022.25	-1038.51	17309.09	12332.79	-5008.02	2305.93	67.70	3606.13	313.33	3292.79	3396.41	17.39	OSF1.50	Pass
15900.00	10984.49	-5122.25	-1037.91	17409.08	12332.37	-5108.01	2306.53	67.71	3605.86	317.72	3288.15	3393.22	17.15	OSF1.50	Pass
16000.00	10984.76	-5222.24	-1037.31	17509.08	12331.94	-5208.01	2307.13	67.72	3605.60	322.13	3283.47	3390.02	16.91	OSF1.50	Pass
16100.00	10985.02	-5322.24	-1036.71	17609.08	12331.51	-5308.00	2307.73	67.73	3605.34	326.56	3278.78	3386.80	16.68	OSF1.50	Pass
16200.00	10985.28	-5422.24	-1036.11	17709.08	12331.08	-5408.00	2308.33	67.74	3605.08	331.02	3274.06	3383.57	16.45	OSF1.50	Pass
16300.00	10985.54	-5522.24	-1035.51	17809.07	12330.65	-5507.99	2308.93	67.75	3604.82	335.49	3269.33	3380.33	16.23	OSF1.50	Pass
16400.00	10985.80	-5622.23	-1034.91	17909.07	12330.22	-5607.99	2309.52	67.76	3604.56	339.99	3264.57	3377.07	16.01	OSF1.50	Pass
16500.00	10986.07	-5722.23	-1034.31	18009.07	12329.79	-5707.98	2310.12	67.77	3604.30	344.51	3259.80	3373.80	15.80	OSF1.50	Pass
16600.00	10986.33	-5822.23	-1033.70	18109.07	12329.36	-5807.98	2310.72	67.78	3604.04	349.04	3255.00	3370.52	15.59	OSF1.50	Pass
16700.00	10986.59	-5922.23	-1033.10	18209.06	12328.93	-5907.97	2311.32	67.79	3603.78	353.59	3250.19	3367.22	15.39	OSF1.50	Pass
16800.00	10986.85	-6022.23	-1032.50	18309.06	12328.50	-6007.97	2311.92	67.80	3603.52	358.16	3245.37	3363.92	15.19	OSF1.50	Pass
16900.00	10987.11	-6122.22	-1031.90	18409.06	12328.07	-6107.96	2312.52	67.81	3603.26	362.74	3240.52	3360.60	14.99	OSF1.50	Pass
17000.00	10987.38	-6222.22	-1031.30	18509.06	12327.64	-6207.96	2313.12	67.82	3603.00	367.34	3235.66	3357.28	14.80	OSF1.50	Pass
17100.00	10987.64	-6322.22	-1030.70	18609.05	12327.21	-6307.95	2313.72	67.83	3602.75	371.96	3230.79	3353.94	14.62	OSF1.50	Pass
17200.00	10987.90	-6422.22	-1030.10	18709.05	12326.78	-6407.95	2314.31	67.84	3602.49	376.59	3225.90	3350.59	14.44	OSF1.50	Pass
17300.00	10988.16	-6522.22	-1029.50	18809.05	12326.35	-6507.94	2314.91	67.85	3602.23	381.23	3221.00	3347.24	14.26	OSF1.50	Pass
17400.00	10988.42	-6622.21	-1028.90	18909.05	12325.92	-6607.94	2315.51	67.86	3601.97	385.89	3216.08	3343.88	14.08	OSF1.50	Pass
17500.00	10988.69	-6722.21	-1028.30	19009.04	12325.49	-6707.93	2316.11	67.87	3601.71	390.56	3211.15	3340.50	13.91	OSF1.50	Pass
17600.00	10988.95	-6822.21	-1027.69	19109.04	12325.06	-6807.93	2316.71	67.88	3601.45	395.24	3206.21	3337.12	13.75	OSF1.50	Pass
17700.00	10989.21	-6922.21	-1027.09	19209.04	12324.63	-6907.92	2317.31	67.89	3601.19	399.94	3201.25	3333.73	13.58	OSF1.50	Pass
17800.00	10989.47	-7022.20	-1026.49	19309.04	12324.21	-7007.92	2317.91	67.90	3600.93	404.65	3196.29	3330.34	13.42	OSF1.50	Pass
17900.00	10989.73	-7122.20	-1025.89	19409.04	12323.78	-7107.91	2318.50	67.91	3600.67	409.37	3191.31	3326.93	13.27	OSF1.50	Pass
18000.00	10990.00	-7222.20	-1025.29	19509.03	12323.35	-7207.91	2319.10	67.92	3600.42	414.10	3186.32	3323.52	13.11	OSF1.50	Pass
18100.00	10990.26	-7322.20	-1024.69	19609.03	12322.92	-7307.90	2319.70	67.93	3600.16	418.84	3181.32	3320.10	12.96	OSF1.50	Pass
18200.00	10990.52	-7422.20	-1024.09	19709.03	12322.49	-7407.90	2320.30	67.94	3599.90	423.59	3176.31	3316.67	12.81	OSF1.50	Pass
18300.00	10990.78	-7522.19	-1023.49	19809.03	12322.06	-7507.89	2320.90	67.95	3599.64	428.35	3171.29	3313.24	12.67	OSF1.50	Pass
18400.00	10991.04	-7622.19	-1022.89	19909.02	12321.63	-7607.88	2321.50	67.96	3599.38	433.12	3166.26	3309.80	12.53	OSF1.50	Pass
18500.00	10991.31	-7722.19	-1022.29	20009.02	12321.20	-7707.88	2322.10	67.97	3599.13	437.90	3161.22	3306.36	12.39	OSF1.50	Pass
18600.00	10991.57	-7822.19	-1021.68	20109.02	12320.77	-7807.87	2322.69	67.98	3598.87	442.69	3156.18	3302.91	12.26	OSF1.50	Pass
18700.00	10991.83	-7922.19	-1021.08	20209.02	12320.34	-7907.87	2323.29	67.99	3598.61	447.49	3151.12	3299.45	12.12	OSF1.50	Pass
18800.00	10992.09	-8022.18	-1020.48	20309.01	12319.91	-8007.86	2323.89	68.00	3598.35	452.30	3146.06	3295.99	11.99	OSF1.50	Pass
18900.00	10992.35	-8122.18	-1019.88	20409.01	12319.48	-8107.86	2324.49	68.01	3598.10	457.11	3140.98	3292.52	11.86	OSF1.50	Pass
19000.00	10992.61	-8222.18	-1019.28	20509.01	12319.05	-8207.85	2325.09	68.02	3597.84	461.94	3135.90	3289.05	11.74	OSF1.50	Pass
19100.00	10992.88	-8322.18	-1018.68	20609.01	12318.62	-8307.85	2325.69	68.03	3597.58	466.77	3130.81	3285.57	11.62	OSF1.50	Pass
19200.00	10993.14	-8422.17	-1018.08	20709.00	12318.19	-8407.84	2326.29	68.04	3597.33	471.61	3125.72	3282.09	11.49	OSF1.50	Pass
19300.00	10993.40	-8522.17	-1017.48	20809.00	12317.76	-8507.84	2326.88	68.05	3597.07	476.45	3120.61	3278.60	11.38	OSF1.50	Pass
19400.00	10993.66	-8622.17	-1016.88	20909.00	12317.33	-8607.83	2327.48	68.06	3596.81	481.31	3115.50	3275.11	11.26	OSF1.50	Pass
19500.00	10993.92	-8722.17	-1016.28	21009.00	12316.90	-8707.83	2328.08	68.07	3596.56	486.17	3110.39	3271.61	11.15	OSF1.50	Pass
19600.00	10994.19	-8822.17	-1015.68	21109.99	12316.48	-8807.82	2328.68	68.08	3596.30	491.04	3105.26	3268.11	11.03	OSF1.50	Pass
19700.00	10994.45	-8922.16	-1015.07	21209.99	12316.05	-8907.82	2329.28	68.09	3596.04	495.91	3100.13	3264.60	10.92	OSF1.50	Pass
19800.00	10994.71	-9022.16	-1014.47	21309.99	12315.62	-9007.81	2329.88	68.10	3595.79	500.79	3095.00	3261.09	10.82	OSF1.50	Pass
19900.00	10994.97	-9122.16	-1013.87	21409.99	12315.19	-9107.81	2330.48	68.11	3595.53	505.68	3089.85	3257.58	10.71	OSF1.50	Pass
20000.00	10995.23	-9222.16	-1013.27	21509.98	12314.76	-9207.80	2331.08	68.12	3595.27	510.57	3084.70	3254.06	10.61	OSF1.50	Pass
20100.00	10995.50	-9322.16	-1012.67	21609.98	12314.33	-9307.80	2331.67	68.13	3595.02	515.47	3079.55	3250.54	10.51	OSF1.50	Pass
20200.00	10995.76	-9422.15	-1012.07	21709.98	12313.90	-9407.79	2332.27	68.14	3594.76	520.37	3074.39	3247.01	10.40	OSF1.50	Pass
20300.00	10996.02	-9522.15	-1011.47	21809.98	12313.47	-9507.79	2332.87	68.15	3594.51	525.28	3069.22	3243.48	10.31	OSF1.50	Pass
20400.00	10996.28	-9622.15	-1010.87	21909.98	12313.04	-9607.78	2333.47	68.17	3594.25	530.20	3064.05	3239.95	10.21	OSF1.50	Pass
20500.00	10996.54	-9722.15	-1010.27	22009.97	12312.61	-9707.78	2334.07	68.18	3594.00	535.12	3058.88	3236.42	10.11	OSF1.50	Pass
20600.00	10996.81	-9822.14	-1009.67	22108.97	12312.18	-9807.77	2334.67	68.19	3593.74	540.05	3053.69	3232.88	10.02	OSF1.50	Pass
20700.00	10997.07	-9922.14	-1009.06	22197.55	12311.80	-9896.35	2335.20	68.19	3593.50	544.45	3049.05	3229.70	9.94	OSF1.50	Pass
20712.06	10997.10	-9934.20	-1008.99	22197.55	12311.80	-9896.35	2335.20	68.19	3593.53	544.48	3049.05	3229.71	9.94	OSF1.50	Pass

End of results

...Dos Equis 11-14 Federal Com 25Y\Coterra Dos Equis 11-14 Federal Com 25Y Rev0 kFc 16Jun22

Drilling Office 2.10.829.1

Schlumberger-Private

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Field: NM Lea County (NAD 83)
 Structure: Cimarex Dos Equis 11-14 Federal Com 62H
 Slot: New Slot
 Client: Cimarex Energy
 Coordinate System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 North Reference: Grid
 Grid Convergence Angle: 0.36957141°
 Grid Scale Factor: 0.999961638
 Magnetic Declination: 6.670°
 Reference Point: Magnetic Declination Date: August 25, 2019
 Magnetic Model: HDGM 2019
 Northing: 451145.830 (ftUS)
 Easting: 755535.680 (ftUS)
 Elevation: 3628.900 (ft) MSL
 Structure Unc.: 0.000 (ft) (3 sigma)
 Slot Unc.: 0.000 (ft) (3 sigma)

Trajectory Error Model: ISCWSA0 3-D 95.000% Confidence 2.7955 sigma

Surveying Prog: While Drilling

Description

Part

MD From (ft)

MD To (ft)

EOU Freq (ft)

Survey Tool Type

Hole Size (in)

Casing Diameter (in)

Borehole / Survey

1

0.000

26.000

1/100.000

A001Mb_MWD-Depth Only

30.000

30.000 uis 11-14 Federal Com 62H Rev0 RM 23Aug19

1

26.000

22200.361

1/100.000

A001Mb_MWD

30.000

30.000 uis 11-14 Federal Com 62H Rev0 RM 23Aug19

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
All local minima indicated.															
0.00	0.00	0.00	0.00	0.00	11.70	186.22	2477.23	85.70	2484.25	32.81	2451.44	2481.75	N/A	1S = 10.00 (m)	Pass
100.00	100.00	0.00	0.00	88.30	100.00	186.22	2477.23	85.70	2484.22	32.81	2451.41	2481.37	7016.41	1S = 10.00 (m)	Pass
200.00	200.00	0.00	0.00	188.30	200.00	186.22	2477.23	85.70	2484.22	32.81	2451.41	2480.40	1871.39	1S = 10.00 (m)	Pass
300.00	300.00	0.00	0.00	288.30	300.00	186.22	2477.23	85.70	2484.22	32.81	2451.41	2479.39	1066.25	1S = 10.00 (m)	Pass
400.00	400.00	0.00	0.00	388.30	400.00	186.22	2477.23	85.70	2484.22	32.81	2451.41	2478.39	745.40	1S = 10.00 (m)	Pass
500.00	500.00	0.00	0.00	488.30	500.00	186.22	2477.23	85.70	2484.22	32.81	2451.41	2477.39	572.96	1S = 10.00 (m)	Pass
600.00	599.99	-0.87	0.00	588.29	599.99	186.22	2477.23	85.68	2484.29	32.81	2451.48	2476.48	467.45	1S = 10.00 (m)	Pass
700.00	699.98	-2.62	0.00	688.28	699.98	186.22	2477.23	85.64	2484.42	32.81	2451.61	2475.65	395.55	1S = 10.00 (m)	Pass
800.00	799.96	-4.36	0.00	788.26	799.96	186.22	2477.23	85.60	2484.55	32.81	2451.74	2474.80	342.32	1S = 10.00 (m)	Pass
900.00	899.95	-6.11	0.00	888.25	899.95	186.22	2477.23	85.56	2484.69	32.81	2451.88	2473.95	301.47	1S = 10.00 (m)	Pass
1000.00	899.93	-7.85	0.00	988.23	899.93	186.22	2477.23	85.52	2484.82	32.81	2452.01	2473.10	269.20	1S = 10.00 (m)	Pass
1100.00	1099.92	-9.60	0.00	1088.22	1099.92	186.22	2477.23	85.48	2484.96	32.81	2452.15	2472.25	243.10	1S = 10.00 (m)	Pass
1200.00	1199.90	-11.34	0.00	1188.20	1199.90	186.22	2477.23	85.44	2485.10	32.81	2452.29	2471.39	221.56	1S = 10.00 (m)	Pass
1300.00	1299.89	-13.09	0.00	1288.19	1299.89	186.22	2477.23	85.40	2485.24	32.81	2452.43	2470.54	203.50	1S = 10.00 (m)	Pass
1400.00	1399.87	-14.83	0.00	1388.17	1399.87	186.22	2477.23	85.36	2485.38	32.81	2452.57	2469.68	188.15	1S = 10.00 (m)	Pass
1500.00	1499.86	-16.58	0.00	1488.16	1499.86	186.22	2477.23	85.32	2485.52	32.81	2452.71	2468.83	174.94	1S = 10.00 (m)	Pass
1600.00	1506.06	-16.69	-0.01	1494.36	1506.06	186.22	2477.23	85.32	2485.54	32.81	2452.73	2468.78	174.18	1S = 10.00 (m)	Pass
1700.00	1599.83	-18.11	-1.73	1588.13	1599.83	186.22	2477.23	85.30	2487.37	32.81	2454.56	2469.68	163.60	1S = 10.00 (m)	Pass
1800.00	1699.68	-19.20	-6.92	1687.98	1699.68	186.22	2477.23	85.28	2492.64	32.81	2459.83	2473.96	153.90	1S = 10.00 (m)	Pass
1900.00	1799.30	-19.86	-15.57	1787.60	1799.30	186.22	2477.23	85.26	2501.31	32.81	2468.50	2481.64	145.53	1S = 10.00 (m)	Pass
2000.00	1898.56	-20.08	-27.66	1886.86	1898.56	186.22	2477.23	85.25	2513.38	32.81	2480.57	2492.72	138.28	1S = 10.00 (m)	Pass
2100.00	1997.44	-19.94	-42.59	1985.74	1997.44	186.22	2477.23	85.26	2528.24	32.81	2495.43	2506.60	131.94	1S = 10.00 (m)	Pass
2200.00	2096.27	-19.77	-57.80	2084.57	2096.27	186.22	2477.23	85.29	2543.39	32.81	2510.58	2520.76	126.25	1S = 10.00 (m)	Pass
2300.00	2195.11	-19.59	-73.01	2183.41	2195.11	186.22	2477.23	85.32	2558.54	34.17	2524.37	2534.93	121.07	OSF1.50	Pass
2400.00	2293.95	-19.42	-88.22	2282.25	2293.95	186.22	2477.23	85.36	2573.69	35.65	2538.03	2549.09	116.34	OSF1.50	Pass
2500.00	2392.78	-19.24	-103.44	2381.08	2392.78	186.22	2477.23	85.39	2588.83	37.14	2551.70	2563.24	112.00	OSF1.50	Pass
2600.00	2491.62	-19.07	-118.65	2479.92	2491.62	186.22	2477.23	85.42	2603.98	38.63	2565.36	2577.40	108.02	OSF1.50	Pass
2700.00	2590.45	-18.89	-133.86	2578.75	2590.45	186.22	2477.23	85.45	2619.14	40.12	2579.02	2591.56	104.34	OSF1.50	Pass
2800.00	2689.29	-18.71	-149.07	2677.59	2689.29	186.22	2477.23	85.48	2634.29	41.61	2592.68	2605.71	100.93	OSF1.50	Pass
2900.00	2788.13	-18.54	-164.28	2739.75	2751.45	186.22	2477.51	85.50	2649.97	42.81	2607.16	2620.60	98.52	OSF1.50	Pass
3000.00	2886.96	-18.36	-179.49	2790.88	2802.56	186.23	2478.67	85.51	2667.37	43.90	2623.46	2637.26	96.54	OSF1.50	Pass
3100.00	2985.80	-18.19	-194.71	2841.67	2853.31	186.25	2480.74	85.53	2686.51	44.98	2641.53	2655.69	94.77	OSF1.50	Pass
3200.00	3084.64	-18.01	-209.92	2892.09	2903.65	186.27	2483.67	85.55	2707.38	46.04	2661.34	2675.85	93.18	OSF1.50	Pass
3300.00	3183.47	-17.84	-225.13	2942.12	2953.54	186.30	2487.46	85.57	2729.96	47.09	2682.87	2697.73	91.75	OSF1.50	Pass
3400.00	3282.31	-17.66	-240.34	2991.74	3002.93	186.33	2492.07	85.59	2754.22	48.12	2706.10	2721.31	90.48	OSF1.50	Pass
3500.00	3381.14	-17.48	-255.55	3041.81	3053.11	186.41	2501.66	85.63	2779.45	49.53	2729.92	2745.60	88.57	OSF1.50	Pass
3600.00	3479.98	-17.31	-270.76	3181.55	3191.74	186.49	2511.62	85.67	2804.69	50.98	2753.71	2769.87	86.71	OSF1.50	Pass
3700.00	3578.82	-17.13	-285.97	3278.30	3287.97	186.57	2521.58	85.72	2829.92	52.43	2777.50	2794.14	84.95	OSF1.50	Pass
3800.00	3677.65	-16.96	-301.19	3375.04	3384.20	186.64	2531.55	85.76	2855.16	53.88	2801.28	2818.41	83.28	OSF1.50	Pass
3900.00	3776.49	-16.78	-316.40	3471.79	3480.43	186.72	2541.51	85.79	2880.40	55.34	2825.06	2842.67	81.70	OSF1.50	Pass
4000.00	3875.32	-16.61	-331.61	3568.53	3576.66	186.80	2551.47	85.83	2905.64	56.80	2848.84	2866.94	80.20	OSF1.50	Pass
4100.00	3974.16	-16.43	-346.82	3665.28	3672.89	186.88	2561.44	85.87	2930.88	58.26	2872.62	2891.21	78.78	OSF1.50	Pass
4200.00	4073.00	-16.26	-362.03	3762.02	3769.12	186.96	2571.40	85.91	2956.12	59.72	2896.40	2915.47	77.42	OSF1.50	Pass
4300.00	4171.83	-16.08	-377.24	3858.76	3865.35	187.04	2581.36	85.94	2981.36	61.19	2920.17	2939.74	76.13	OSF1.50	Pass
4400.00	4270.67	-15.90	-392.46	3955.51	3961.58	187.11	2591.32	85.98	3006.61	62.66	2943.95	2964.00	74.90	OSF1.50	Pass
4500.00	4369.50	-15.73	-407.67	4052.25	4057.81	187.19	2601.29	86.02	3031.85	64.13	2967.72	2988.27	73.73	OSF1.50	Pass
4600.00	4468.34	-15.55	-422.88	4149.00	4154.04	187.27	2611.25	86.05	3057.10	65.60	2991.50	3012.53	72.61	OSF1.50	Pass
4700.00	4567.18	-15.38	-438.09	4245.74	4250.27	187.35	2621.21	86.08	3082.35	67.08	3015.27	3036.80	71.54	OSF1.50	Pass
4800.00	4666.01	-15.20	-453.30	4342.48	4346.50	187.43	2631.18	86.12	3107.60	68.55	3039.04	3061.06	70.51	OSF1.50	Pass
4900.00	4764.85	-15.03	-468.51	4439.23	4442.73	187.51	2641.14	86.15	3132.85	70.03	3062.82	3085.33	69.53	OSF1.50	Pass
5000.00	4863.69	-14.85	-483.73	4535.97	4538.96	187.58	2651.10	86.18	3158.10	71.51	3086.59	3109.59	68.59	OSF1.50	Pass
5100.00	4962.52	-14.67	-498.94	4632.72	4635.19	187.66	2661.07	86.21	3183.35	72.99	3110.36	3133.86	67.69	OSF1.50	Pass
5200.00	5061.36	-14.50	-514.15	4729.46	4731.42	187.74	2671.03	86.25	3208.60	74.47	3134.13	3158.12	66.82	OSF1.50	Pass
5300.00	5160.19	-14.32	-529.36	4826.21	4827.65	187.82	2680.99	86.28	3233.85	75.95	3157.90	3182.39	65.99	OSF1.50	Pass
5400.00	5259.03	-14.15	-544.57	4922.95	4923.88	187.90	2690.96	86.31	3259.11	77.44	3181.67	3206.65	65.19	OSF1.50	Pass
5500.00	5357.87	-13.97	-559.78	5019.69	5020.11	187.97	2700.92	86.34	3284.36	78.92	3205.44	3230.92	64.42	OSF1.50	Pass
5600.00	5456.70	-13.80	-574.99	5116.44	5116.88	188.05	2710.88	86.37	3309.62	80.41	3229.21	3255.18	63.67	OSF1.50	Pass
5700.00	5555.54	-13.62	-590.21	5213.18	5212.57	188.13	2720.84	86.40	3334.88	81.89	3252.98	3279.45	62.96	OSF1.50	Pass
5800.00	5654.37	-13.45	-605.42	5309.93	5308.80	188.21	2730.81	86.43	3360.13	83.38	3278.13	3303.75	62.27	OSF1.50	Pass
5900.00	5753.21	-13.27	-620.63	5406.67	5405.03	188.29	2740.77	86.45	3385.39	84.87	3302.98	3327.96	61.60	OSF1.50	Pass
6000.00	5852.05	-13.09	-635.84	5503.41	5501.26	188.37	2750.73	86.48	3410.65	86.36	3324.29	3352.24	60.96	OSF1.50	Pass
6100.00	5950.88	-12.92	-651.05	5600.16	5597.49	188.44	2760.70	86.51	3435.91	87.85	3348.06	3376.51	60.34	OSF1.50	Pass
6200.00	6049.72	-12.74	-666.26	6053.53	6049.72	188.66	2787.75	86.62	3459.89	92.58	3367.30	3397.33	57.57	OSF1.50	Pass
6300.00	6148.55	-12.57	-681.48	6152.36	6148.55	188.66	2787.75	86.63	3475.06	94.08	3380.98	3411.51	56.88	OSF1.50	Pass
6400.00	6247.39	-12.39	-696.69	6251.20	6247.39	188.66	2787.75	86.65	3490.24	95.58	3394.65	3425.68	56.20	OSF1.50	Pass
6500.00	6346.23	-12.22	-711.90	6350.03	6346.23	188.66	2787.75	86.67	3505.41	97.09	3408.33	3439.86	55.55	OSF1.50	Pass
6600.00	6445.06	-12.04	-727.11												

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Cimarex Dos Equis 11-14 Federal Com 62H Rev0 RM 23Aug19

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
6700.00	6642.74	-11.69	-757.53	6646.54	6642.74	188.66	2787.75	86.72	3550.94	101.60	3449.35	3482.38	53.71	OSF1.50	Pass
6800.00	6741.57	-11.51	-772.75	6745.38	6741.57	188.66	2787.75	86.74	3566.12	103.10	3463.02	3496.55	53.13	OSF1.50	Pass
6900.00	6840.41	-11.34	-787.96	6844.22	6840.41	188.66	2787.75	86.75	3581.30	104.61	3476.69	3510.73	52.57	OSF1.50	Pass
7000.00	6939.24	-11.16	-803.17	6943.05	6939.24	188.66	2787.75	86.77	3596.48	106.11	3490.37	3524.90	52.03	OSF1.50	Pass
7100.00	7038.08	-10.99	-818.38	7041.89	7038.08	188.66	2787.75	86.79	3611.66	107.62	3504.04	3539.08	51.50	OSF1.50	Pass
7200.00	7136.92	-10.81	-833.59	7140.72	7136.92	188.66	2787.75	86.80	3626.84	109.13	3517.71	3553.25	50.99	OSF1.50	Pass
7300.00	7235.75	-10.64	-848.80	7239.56	7235.75	188.66	2787.75	86.82	3642.01	110.63	3531.38	3567.43	50.49	OSF1.50	Pass
7400.00	7334.59	-10.46	-864.01	7338.40	7334.59	188.66	2787.75	86.83	3657.19	112.14	3545.05	3581.60	50.00	OSF1.50	Pass
7500.00	7433.42	-10.28	-879.23	7437.23	7433.42	188.66	2787.75	86.85	3672.37	113.65	3558.72	3595.77	49.53	OSF1.50	Pass
7600.00	7532.26	-10.11	-894.44	7536.07	7532.26	188.66	2787.75	86.87	3687.55	115.16	3572.39	3609.95	49.07	OSF1.50	Pass
7700.00	7631.10	-9.93	-909.65	7634.90	7631.10	188.66	2787.75	86.88	3702.73	116.67	3586.07	3624.12	48.62	OSF1.50	Pass
7800.00	7729.93	-9.76	-924.86	7733.74	7729.93	188.66	2787.75	86.89	3717.91	118.18	3599.74	3638.30	48.18	OSF1.50	Pass
7900.00	7828.77	-9.58	-940.07	7837.58	7828.77	188.66	2787.75	86.91	3733.09	119.69	3613.41	3652.47	47.75	OSF1.50	Pass
8000.00	7927.60	-9.41	-955.28	7931.41	7927.60	188.66	2787.75	86.93	3748.28	121.20	3627.08	3666.64	47.34	OSF1.50	Pass
8100.00	8026.44	-9.23	-970.50	8030.25	8026.44	188.66	2787.75	86.94	3763.46	122.71	3640.75	3680.82	46.93	OSF1.50	Pass
8200.00	8125.28	-9.06	-985.71	8129.08	8125.28	188.66	2787.75	86.96	3778.64	124.22	3654.42	3694.99	46.54	OSF1.50	Pass
8300.00	8224.15	-8.88	-1000.68	8227.96	8224.15	188.66	2787.75	86.98	3793.58	125.73	3667.85	3708.93	46.15	OSF1.50	Pass
8400.00	8323.40	-8.74	-1012.88	8327.21	8323.40	188.66	2787.75	87.01	3808.75	127.24	3678.52	3720.10	45.74	OSF1.50	Pass
8500.00	8423.01	-8.64	-1021.60	8426.82	8423.01	188.66	2787.75	87.03	3814.46	128.73	3685.73	3727.81	45.30	OSF1.50	Pass
8600.00	8522.87	-8.58	-1026.84	8526.68	8522.87	188.66	2787.75	87.04	3819.69	130.22	3689.48	3732.05	44.83	OSF1.50	Pass
8700.00	8622.85	-8.56	-1028.60	8626.66	8622.85	188.66	2787.75	87.04	3821.45	131.69	3689.75	3732.82	44.34	OSF1.50	Pass
8800.00	8722.85	-8.56	-1028.60	8726.66	8722.85	188.66	2787.75	87.04	3821.45	133.13	3688.32	3731.86	43.85	OSF1.50	Pass
8900.00	8822.85	-8.56	-1028.60	8826.66	8822.85	188.66	2787.75	87.04	3821.45	134.56	3686.88	3730.91	43.38	OSF1.50	Pass
9000.00	8922.85	-8.56	-1028.60	8926.66	8922.85	188.66	2787.75	87.04	3821.45	136.00	3685.45	3729.95	42.91	OSF1.50	Pass
9100.00	9022.85	-8.56	-1028.60	9026.66	9022.85	188.66	2787.75	87.04	3821.45	137.44	3684.01	3728.99	42.45	OSF1.50	Pass
9200.00	9122.85	-8.56	-1028.60	9126.66	9122.85	188.66	2787.75	87.04	3821.45	138.88	3682.57	3728.03	42.00	OSF1.50	Pass
9300.00	9222.85	-8.56	-1028.60	9226.66	9222.85	188.66	2787.75	87.04	3821.45	140.32	3681.13	3727.07	41.56	OSF1.50	Pass
9400.00	9322.85	-8.56	-1028.60	9326.66	9322.85	188.66	2787.75	87.04	3821.45	141.76	3679.69	3726.11	41.13	OSF1.50	Pass
9500.00	9422.85	-8.56	-1028.60	9426.66	9422.85	188.66	2787.75	87.04	3821.45	143.20	3678.24	3725.14	40.71	OSF1.50	Pass
9600.00	9522.85	-8.56	-1028.60	9526.66	9522.85	188.66	2787.75	87.04	3821.45	144.65	3676.80	3724.18	40.30	OSF1.50	Pass
9700.00	9622.85	-8.56	-1028.60	9626.66	9622.85	188.66	2787.75	87.04	3821.45	146.10	3675.35	3723.22	39.89	OSF1.50	Pass
9800.00	9722.85	-8.56	-1028.60	9726.66	9722.85	188.66	2787.75	87.04	3821.45	147.54	3673.90	3722.25	39.49	OSF1.50	Pass
9900.00	9822.85	-8.56	-1028.60	9826.66	9822.85	188.66	2787.75	87.04	3821.45	148.99	3672.46	3721.29	39.10	OSF1.50	Pass
10000.00	9922.85	-8.56	-1028.60	9926.66	9922.85	188.66	2787.75	87.04	3821.45	150.44	3671.01	3720.32	38.72	OSF1.50	Pass
10100.00	10022.85	-8.56	-1028.60	10026.66	10022.85	188.66	2787.75	87.04	3821.45	151.89	3669.56	3719.35	38.35	OSF1.50	Pass
10200.00	10122.85	-8.56	-1028.60	10126.66	10122.85	188.66	2787.75	87.04	3821.45	153.34	3668.10	3718.38	37.98	OSF1.50	Pass
10300.00	10222.85	-8.56	-1028.60	10226.66	10222.85	188.66	2787.75	87.04	3821.45	154.80	3666.65	3717.42	37.61	OSF1.50	Pass
10400.00	10322.85	-8.56	-1028.60	10326.66	10322.85	188.66	2787.75	87.04	3821.45	156.25	3665.20	3716.45	37.26	OSF1.50	Pass
10500.00	10422.81	-10.22	-1028.71	10426.61	10422.81	188.66	2787.75	87.04	3821.64	157.19	3664.45	3716.01	37.03	OSF1.50	Pass
10600.00	10521.35	-26.45	-1029.74	10525.15	10521.35	188.66	2787.75	86.99	3823.55	157.93	3665.62	3717.43	36.87	OSF1.50	Pass
10700.00	10615.57	-59.51	-1031.86	10619.37	10615.57	188.66	2787.75	86.93	3827.66	158.65	3669.01	3721.06	36.74	OSF1.50	Pass
10800.00	10702.60	-108.39	-1034.98	10706.41	10702.60	188.66	2787.75	86.96	3834.26	159.33	3674.92	3727.20	36.65	OSF1.50	Pass
10900.00	10779.81	-171.61	-1039.02	10783.62	10779.81	188.66	2787.75	87.17	3843.69	159.95	3683.74	3736.23	36.59	OSF1.50	Pass
11000.00	10844.85	-247.25	-1043.85	10848.05	10844.85	188.66	2787.75	87.70	3856.32	160.50	3695.83	3748.49	36.59	OSF1.50	Pass
11100.00	10895.73	-333.02	-1048.33	10899.54	10895.73	188.66	2787.75	88.87	3972.39	160.95	3711.44	3764.25	36.54	OSF1.50	Pass
11200.00	10930.92	-426.30	-1055.29	10934.73	10930.92	188.66	2787.75	90.17	3991.94	161.30	3730.64	3783.57	36.74	OSF1.50	Pass
11300.00	10953.24	-523.60	-1060.50	10957.05	10953.24	188.66	2787.75	90.02	3913.61	161.56	3752.05	3805.07	36.88	OSF1.50	Pass
11400.00	10967.26	-622.53	-1063.52	10971.07	10967.26	188.66	2787.75	89.80	3935.78	161.78	3774.00	3827.10	37.04	OSF1.50	Pass
11500.00	10972.89	-722.34	-1064.33	10976.70	10972.89	188.66	2787.75	89.64	3958.35	161.94	3796.41	3849.55	37.22	OSF1.50	Pass
11600.00	10973.23	-822.34	-1063.75	10977.04	10973.23	188.66	2787.75	89.62	3981.99	162.07	3819.91	3873.11	37.41	OSF1.50	Pass
11700.00	10973.49	-922.34	-1063.15	10977.30	10973.49	188.66	2787.75	89.61	4007.97	162.22	3845.74	3898.98	37.62	OSF1.50	Pass
11800.00	10973.75	-1022.33	-1062.55	10977.56	10973.75	188.66	2787.75	89.61	4036.25	162.39	3873.87	3927.16	37.84	OSF1.50	Pass
11900.00	10974.02	-1122.33	-1061.95	10977.82	10974.02	188.66	2787.75	89.61	4066.81	162.56	3904.25	3957.60	38.09	OSF1.50	Pass
12000.00	10974.28	-1222.33	-1061.35	13514.70	12348.86	-1205.12	2796.10	70.04	4095.08	180.89	3914.19	3973.65	34.41	OSF1.50	Pass
12100.00	10974.54	-1322.33	-1060.75	13614.70	12348.44	-1305.11	2796.70	70.05	4094.85	182.96	3911.89	3972.04	34.02	OSF1.50	Pass
12200.00	10974.80	-1422.32	-1060.15	13714.70	12348.01	-1405.11	2797.30	70.06	4094.61	185.15	3909.47	3970.35	33.61	OSF1.50	Pass
12300.00	10975.06	-1522.32	-1059.55	13814.70	12347.58	-1505.10	2797.89	70.07	4094.38	187.46	3906.92	3968.58	33.19	OSF1.50	Pass
12400.00	10975.33	-1622.32	-1058.95	13914.69	12347.15	-1605.10	2798.49	70.08	4094.15	189.88	3904.26	3966.72	32.75	OSF1.50	Pass
12500.00	10975.59	-1722.32	-1058.34	14014.69	12346.72	-1705.09	2799.09	70.09	4093.91	192.42	3901.49	3964.80	32.31	OSF1.50	Pass
12600.00	10975.85	-1822.32	-1057.74	14114.69	12346.30	-1805.09	2799.69	70.10	4093.68	195.07	3898.61	3962.80	31.87	OSF1.50	Pass
12700.00	10976.11	-1922.31	-1057.14	14214.69	12345.87	-1905.08	2800.29	70.11	4093.45	197.81	3895.63	3960.74	31.42	OSF1.50	Pass
12800.00	10976.37	-2022.31	-1056.54	14314.68	12345.44	-2005.08	2800.89	70.12	4093.21	200.66	3892.55	3958.61	30.97	OSF1.50	Pass
12900.00	10976.63	-2122.31	-1055.94	14414.68	12345.01	-2105.07	2801.49	70.12	4092.98	203.60	3889.38	3956.41	30.51	OSF1.50	Pass
13000.00	10976.90	-2222.31	-1055.34	14514.68	12344.58	-2205.07	2802.09	70.13	4092.75	206.63	3886.12	3954.16	30.06	OSF1.50	Pass
13100.00	10977.16	-2322.31	-1054.74	14614.68	12344.16	-2305.06	2802.68	70.14	4092.52	209.75	3882.77	3951.85	29.60	OSF1.50	Pass
13200.00															

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Cimarex Dos Equis 11-14 Federal Com 62H Rev0 RM 23Aug19

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
15200.00	10982.66	-4422.26	-1042.12	16714.63	12335.17	-4404.95	2815.26	70.33	4087.65	289.57	3798.08	3893.77	21.35	OSF1.50	Pass
15300.00	10982.92	-4522.26	-1041.52	16814.62	12334.74	-4504.95	2815.85	70.34	4087.42	293.85	3793.57	3890.69	21.03	OSF1.50	Pass
15400.00	10983.18	-4622.26	-1040.92	16914.62	12334.32	-4604.94	2816.45	70.35	4087.19	298.16	3789.03	3887.59	20.72	OSF1.50	Pass
15500.00	10983.45	-4722.25	-1040.32	17014.62	12333.89	-4704.94	2817.05	70.36	4086.96	302.50	3784.46	3884.46	20.42	OSF1.50	Pass
15600.00	10983.71	-4822.25	-1039.71	17114.62	12333.46	-4804.93	2817.65	70.37	4086.73	306.87	3779.86	3881.32	20.13	OSF1.50	Pass
15700.00	10983.97	-4922.25	-1039.11	17214.62	12333.03	-4904.93	2818.25	70.38	4086.50	311.26	3775.24	3878.16	19.84	OSF1.50	Pass
15800.00	10984.23	-5022.25	-1038.51	17314.61	12332.60	-5004.92	2818.85	70.39	4086.27	315.68	3770.59	3874.98	19.56	OSF1.50	Pass
15900.00	10984.49	-5122.25	-1037.91	17414.61	12332.18	-5104.92	2819.45	70.40	4086.04	320.13	3765.92	3871.79	19.28	OSF1.50	Pass
16000.00	10984.76	-5222.24	-1037.31	17514.61	12331.75	-5204.91	2820.05	70.41	4085.81	324.59	3761.22	3868.59	19.02	OSF1.50	Pass
16100.00	10985.02	-5322.24	-1036.71	17614.61	12331.32	-5304.91	2820.64	70.42	4085.59	329.08	3756.50	3865.36	18.75	OSF1.50	Pass
16200.00	10985.28	-5422.24	-1036.11	17714.60	12330.89	-5404.90	2821.24	70.43	4085.36	333.59	3751.76	3862.13	18.50	OSF1.50	Pass
16300.00	10985.54	-5522.24	-1035.51	17814.60	12330.47	-5504.90	2821.84	70.43	4085.13	338.13	3747.00	3858.89	18.25	OSF1.50	Pass
16400.00	10985.80	-5622.23	-1034.91	17914.60	12330.04	-5604.89	2822.44	70.44	4084.90	342.68	3742.22	3855.61	18.00	OSF1.50	Pass
16500.00	10986.07	-5722.23	-1034.31	18014.60	12329.61	-5704.89	2823.04	70.45	4084.67	347.25	3737.42	3852.34	17.76	OSF1.50	Pass
16600.00	10986.33	-5822.23	-1033.70	18114.59	12329.18	-5804.88	2823.64	70.46	4084.44	351.83	3732.61	3849.05	17.53	OSF1.50	Pass
16700.00	10986.59	-5922.23	-1033.10	18214.59	12328.75	-5904.88	2824.24	70.47	4084.21	356.44	3727.77	3845.75	17.30	OSF1.50	Pass
16800.00	10986.85	-6022.23	-1032.50	18314.59	12328.33	-6004.87	2824.83	70.48	4083.98	361.06	3722.92	3842.44	17.07	OSF1.50	Pass
16900.00	10987.11	-6122.22	-1031.90	18414.59	12327.90	-6104.87	2825.43	70.49	4083.75	365.70	3718.05	3839.12	16.86	OSF1.50	Pass
17000.00	10987.38	-6222.22	-1031.30	18514.58	12327.47	-6204.86	2826.03	70.50	4083.52	370.36	3713.17	3835.79	16.64	OSF1.50	Pass
17100.00	10987.64	-6322.22	-1030.70	18614.58	12327.04	-6304.86	2826.63	70.51	4083.30	375.03	3708.27	3832.45	16.43	OSF1.50	Pass
17200.00	10987.90	-6422.22	-1030.10	18714.58	12326.61	-6404.85	2827.23	70.52	4083.07	379.71	3703.36	3829.09	16.23	OSF1.50	Pass
17300.00	10988.16	-6522.22	-1029.50	18814.58	12326.19	-6504.85	2827.83	70.53	4082.84	384.41	3698.43	3825.73	16.03	OSF1.50	Pass
17400.00	10988.42	-6622.21	-1028.90	18914.57	12325.76	-6604.84	2828.43	70.53	4082.61	389.12	3693.49	3822.36	15.83	OSF1.50	Pass
17500.00	10988.69	-6722.21	-1028.30	19014.57	12325.33	-6704.84	2829.03	70.54	4082.38	393.84	3688.54	3818.99	15.64	OSF1.50	Pass
17600.00	10988.95	-6822.21	-1027.69	19114.57	12324.90	-6804.83	2829.62	70.55	4082.15	398.58	3683.57	3815.60	15.45	OSF1.50	Pass
17700.00	10989.21	-6922.21	-1027.09	19214.57	12324.48	-6904.83	2830.22	70.56	4081.93	403.33	3678.60	3812.21	15.27	OSF1.50	Pass
17800.00	10989.47	-7022.20	-1026.49	19314.57	12324.05	-7004.82	2830.82	70.57	4081.70	408.09	3673.61	3808.80	15.09	OSF1.50	Pass
17900.00	10989.73	-7122.20	-1025.89	19414.56	12323.62	-7104.82	2831.42	70.58	4081.47	412.87	3668.61	3805.39	14.91	OSF1.50	Pass
18000.00	10990.00	-7222.20	-1025.29	19514.56	12323.19	-7204.81	2832.02	70.59	4081.24	417.65	3663.59	3801.98	14.74	OSF1.50	Pass
18100.00	10990.26	-7322.20	-1024.69	19614.56	12322.76	-7304.81	2832.62	70.60	4081.02	422.44	3658.57	3798.55	14.57	OSF1.50	Pass
18200.00	10990.52	-7422.20	-1024.09	19714.56	12322.34	-7404.80	2833.22	70.61	4080.79	427.25	3653.54	3795.12	14.40	OSF1.50	Pass
18300.00	10990.78	-7522.19	-1023.49	19814.55	12321.91	-7504.80	2833.81	70.62	4080.56	432.06	3648.50	3791.69	14.24	OSF1.50	Pass
18400.00	10991.04	-7622.19	-1022.89	19914.55	12321.48	-7604.79	2834.41	70.63	4080.33	436.89	3643.45	3788.24	14.08	OSF1.50	Pass
18500.00	10991.31	-7722.19	-1022.29	20014.55	12321.05	-7704.79	2835.01	70.64	4080.11	441.72	3638.39	3784.79	13.93	OSF1.50	Pass
18600.00	10991.57	-7822.19	-1021.68	20114.55	12320.62	-7804.78	2835.61	70.64	4079.88	446.56	3633.32	3781.34	13.77	OSF1.50	Pass
18700.00	10991.83	-7922.19	-1021.08	20214.54	12320.20	-7904.78	2836.21	70.65	4079.65	451.41	3628.24	3777.88	13.62	OSF1.50	Pass
18800.00	10992.09	-8022.18	-1020.48	20314.54	12319.77	-8004.77	2836.81	70.66	4079.43	456.27	3623.15	3774.41	13.48	OSF1.50	Pass
18900.00	10992.35	-8122.18	-1019.88	20414.54	12319.34	-8104.77	2837.41	70.67	4079.20	461.14	3618.06	3770.94	13.33	OSF1.50	Pass
19000.00	10992.61	-8222.18	-1019.28	20514.54	12318.91	-8204.76	2838.01	70.68	4078.97	466.02	3612.96	3767.46	13.19	OSF1.50	Pass
19100.00	10992.88	-8322.18	-1018.68	20614.53	12318.49	-8304.76	2838.60	70.69	4078.75	470.90	3607.85	3763.98	13.05	OSF1.50	Pass
19200.00	10993.14	-8422.17	-1018.08	20714.53	12318.06	-8404.75	2839.20	70.70	4078.52	475.79	3602.73	3760.49	12.92	OSF1.50	Pass
19300.00	10993.40	-8522.17	-1017.48	20814.53	12317.63	-8504.74	2839.80	70.71	4078.29	480.69	3597.60	3757.00	12.79	OSF1.50	Pass
19400.00	10993.66	-8622.17	-1016.88	20914.53	12317.20	-8604.74	2840.40	70.72	4078.07	485.60	3592.47	3753.50	12.65	OSF1.50	Pass
19500.00	10993.92	-8722.17	-1016.28	21014.52	12316.77	-8704.73	2841.00	70.73	4077.84	490.51	3587.33	3750.00	12.53	OSF1.50	Pass
19600.00	10994.19	-8822.17	-1015.68	21114.52	12316.35	-8804.73	2841.60	70.74	4077.62	495.43	3582.19	3746.50	12.40	OSF1.50	Pass
19700.00	10994.45	-8922.16	-1015.07	21214.52	12315.92	-8904.72	2842.20	70.75	4077.39	500.35	3577.04	3742.99	12.28	OSF1.50	Pass
19800.00	10994.71	-9022.16	-1014.47	21314.52	12315.49	-9004.72	2842.79	70.75	4077.17	505.29	3571.88	3739.47	12.16	OSF1.50	Pass
19900.00	10994.97	-9122.16	-1013.87	21414.52	12315.06	-9104.71	2843.39	70.76	4076.94	510.22	3566.72	3735.96	12.04	OSF1.50	Pass
20000.00	10995.23	-9222.16	-1013.27	21514.51	12314.63	-9204.71	2843.99	70.77	4076.71	515.17	3561.55	3732.44	11.92	OSF1.50	Pass
20100.00	10995.50	-9322.16	-1012.67	21614.51	12314.21	-9304.70	2844.59	70.78	4076.49	520.12	3556.37	3728.91	11.81	OSF1.50	Pass
20200.00	10995.76	-9422.15	-1012.07	21714.51	12313.78	-9404.70	2845.19	70.79	4076.26	525.07	3551.19	3725.38	11.69	OSF1.50	Pass
20300.00	10996.02	-9522.15	-1011.47	21814.51	12313.35	-9504.69	2845.79	70.80	4076.04	530.04	3546.00	3721.85	11.58	OSF1.50	Pass
20400.00	10996.28	-9622.15	-1010.87	21914.50	12312.92	-9604.69	2846.39	70.81	4075.81	535.00	3540.81	3718.31	11.47	OSF1.50	Pass
20500.00	10996.54	-9722.15	-1010.27	22014.50	12312.50	-9704.68	2846.99	70.82	4075.59	539.97	3535.62	3714.77	11.37	OSF1.50	Pass
20600.00	10996.81	-9822.14	-1009.67	22114.50	12312.07	-9804.68	2847.58	70.83	4075.36	544.95	3530.41	3711.23	11.26	OSF1.50	Pass
20700.00	10997.07	-9922.14	-1009.06	22200.36	12311.70	-9890.54	2848.10	70.84	4075.16	549.34	3525.82	3708.10	11.17	OSF1.50	Pass
20712.06	10997.10	-9934.20	-1008.99	22200.36	12311.70	-9890.54	2848.10	70.84	4075.20	549.43	3525.76	3708.07	11.17	OSF1.50	Pass

End of results

...Dos Equis 11-14 Federal Com 25Y\Coterra Dos Equis 11-14 Federal Com 25Y Rev0 kFc 16Jun22

Drilling Office 2.10.829.1

Schlumberger-Private

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Field: NM Lea County (NAD 83)
 Structure: Cimarex Dos Equis 11-14 Federal Com 8H
 Slot: New Slot
 Client: Cimarex Energy
 Coordinate System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 North Reference: Grid
 Grid Convergence Angle: 0.36960593°
 Well: Dos Equis 11-14 Federal Com 8H
 Borehole: Dos Equis 11-14 Federal Com 8H
 Trajectory: Cimarex Dos Equis 11-14 Federal Com 8H Rev0 RM 22Aug19
 Type: Def Plan
 Grid Scale Factor: 0.999961648
 Magnetic Declination: 6.671°
 Reference Point: Magnetic Declination Date: August 22, 2019
 Magnetic Model: HDGM 2019
 Northing: 451146.070 (ftUS)
 Easting: 755555.680 (ftUS)
 Elevation: 3629.400 (ft) MSL
 Structure Unc.: 0.000 (ft) (3 sigma)
 Slot Unc.: 0.000 (ft) (3 sigma)

Trajectory Error Model: ISCWSA0 3-D 95.000% Confidence 2.7955 sigma

Surveying Prog: While Drilling

Description

Part

MD From (ft)

MD To (ft)

EOU Freq (ft)

Survey Tool Type

Hole Size (in)

Casing Diameter (in)

Borehole / Survey

1

0.000

26.000

1/100.000

A001Mb_MWD-Depth Only

30.000

30.000 quis 11-14 Federal Com 8H Rev0 RM 22Aug19

1

26.000

22240.102

1/100.000

A001Mb_MWD

30.000

30.000 quis 11-14 Federal Com 8H Rev0 RM 22Aug19

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
All local minima indicated.															
0.00	0.00	0.00	0.00	0.00	11.20	186.46	2497.23	85.73	2504.21	32.81	2471.40	2501.71	N/A	1S = 10.00 (m)	Pass
100.00	100.00	0.00	0.00	88.80	100.00	186.46	2497.23	85.73	2504.19	32.81	2471.38	2501.33	7050.76	1S = 10.00 (m)	Pass
200.00	200.00	0.00	0.00	188.80	200.00	186.46	2497.23	85.73	2504.19	32.81	2471.38	2500.36	1883.07	1S = 10.00 (m)	Pass
300.00	300.00	0.00	0.00	288.80	300.00	186.46	2497.23	85.73	2504.19	32.81	2471.38	2499.36	1073.70	1S = 10.00 (m)	Pass
400.00	400.00	0.00	0.00	388.80	400.00	186.46	2497.23	85.73	2504.19	32.81	2471.38	2498.35	750.84	1S = 10.00 (m)	Pass
500.00	500.00	0.00	0.00	488.80	500.00	186.46	2497.23	85.73	2504.19	32.81	2471.38	2497.35	577.24	1S = 10.00 (m)	Pass
600.00	599.99	-0.87	0.00	588.79	599.99	186.46	2497.23	85.71	2504.25	32.81	2471.44	2496.44	470.99	1S = 10.00 (m)	Pass
700.00	699.98	-2.62	0.00	688.78	699.98	186.46	2497.23	85.67	2504.38	32.81	2471.57	2495.60	398.57	1S = 10.00 (m)	Pass
800.00	799.96	-4.36	0.00	788.76	799.96	186.46	2497.23	85.63	2504.51	32.81	2471.71	2494.76	344.95	1S = 10.00 (m)	Pass
900.00	899.95	-6.11	0.00	888.75	899.95	186.46	2497.23	85.59	2504.65	32.81	2471.84	2493.91	303.80	1S = 10.00 (m)	Pass
1000.00	899.93	-7.85	0.00	988.73	899.93	186.46	2497.23	85.55	2504.78	32.81	2471.97	2493.06	271.29	1S = 10.00 (m)	Pass
1100.00	1099.92	-9.60	0.00	1088.72	1099.92	186.46	2497.23	85.51	2504.92	32.81	2472.11	2492.20	244.99	1S = 10.00 (m)	Pass
1200.00	1199.90	-11.34	0.00	1188.70	1199.90	186.46	2497.23	85.47	2505.06	32.81	2472.25	2491.35	223.29	1S = 10.00 (m)	Pass
1300.00	1299.89	-13.09	0.00	1288.69	1299.89	186.46	2497.23	85.43	2505.19	32.81	2472.39	2490.49	205.10	1S = 10.00 (m)	Pass
1400.00	1399.87	-14.83	0.00	1388.67	1399.87	186.46	2497.23	85.39	2505.33	32.81	2472.52	2489.63	189.63	1S = 10.00 (m)	Pass
1500.00	1499.86	-16.58	0.00	1488.66	1499.86	186.46	2497.23	85.35	2505.47	32.81	2472.67	2488.78	176.31	1S = 10.00 (m)	Pass
1506.20	1506.06	-16.69	-0.01	1494.86	1506.06	186.46	2497.23	85.35	2505.49	32.81	2472.68	2488.73	175.55	1S = 10.00 (m)	Pass
1600.00	1599.83	-18.11	-1.73	1588.63	1599.83	186.46	2497.23	85.33	2507.32	32.81	2474.52	2489.63	164.89	1S = 10.00 (m)	Pass
1700.00	1699.68	-19.20	-6.92	1688.48	1699.68	186.46	2497.23	85.31	2512.59	32.81	2479.78	2493.91	155.11	1S = 10.00 (m)	Pass
1800.00	1799.30	-19.86	-15.57	1788.10	1799.30	186.46	2497.23	85.29	2521.26	32.81	2488.45	2501.59	146.67	1S = 10.00 (m)	Pass
1900.00	1898.56	-20.08	-27.66	1887.36	1898.56	186.46	2497.23	85.28	2533.33	32.81	2500.52	2512.67	139.36	1S = 10.00 (m)	Pass
2000.00	1997.44	-19.94	-42.59	1986.24	1997.44	186.46	2497.23	85.29	2548.20	32.81	2515.39	2526.55	132.97	1S = 10.00 (m)	Pass
2100.00	2096.27	-19.77	-57.80	2085.07	2096.27	186.46	2497.23	85.32	2563.34	32.81	2530.54	2540.72	127.22	1S = 10.00 (m)	Pass
2200.00	2195.11	-19.59	-73.01	2183.91	2195.11	186.46	2497.23	85.36	2578.49	34.17	2544.32	2554.88	122.00	OSF1.50	Pass
2300.00	2293.95	-19.42	-88.22	2282.75	2293.95	186.46	2497.23	85.39	2593.64	35.65	2557.99	2569.04	117.23	OSF1.50	Pass
2400.00	2392.78	-19.24	-103.44	2381.58	2392.78	186.46	2497.23	85.42	2608.79	37.14	2571.65	2583.20	112.86	OSF1.50	Pass
2500.00	2491.62	-19.07	-118.65	2480.42	2491.62	186.46	2497.23	85.45	2623.94	38.63	2585.31	2597.36	108.83	OSF1.50	Pass
2600.00	2590.45	-18.89	-133.86	2541.30	2552.50	186.46	2497.53	85.47	2639.66	39.81	2599.85	2612.29	106.01	OSF1.50	Pass
2700.00	2689.29	-18.71	-149.07	2592.52	2603.70	186.47	2498.73	85.48	2657.12	40.91	2616.20	2629.01	103.66	OSF1.50	Pass
2800.00	2788.13	-18.54	-164.28	2643.40	2654.54	186.49	2500.82	85.50	2676.31	41.99	2634.32	2647.49	101.56	OSF1.50	Pass
2900.00	2886.96	-18.36	-179.49	2693.91	2704.96	186.51	2503.79	85.52	2697.24	43.06	2651.19	2667.71	99.66	OSF1.50	Pass
3000.00	2985.80	-18.19	-194.71	2744.02	2754.93	186.54	2507.62	85.54	2719.89	44.11	2675.78	2689.65	97.96	OSF1.50	Pass
3100.00	3084.64	-18.01	-209.92	2793.72	2804.40	186.58	2512.28	85.56	2744.22	45.15	2699.07	2713.29	96.43	OSF1.50	Pass
3200.00	3183.47	-17.84	-225.13	2842.96	2853.34	186.62	2517.74	85.59	2770.22	46.17	2724.05	2738.60	95.07	OSF1.50	Pass
3300.00	3282.31	-17.66	-240.34	2891.74	2901.72	186.67	2523.98	85.61	2797.86	47.18	2750.69	2765.58	93.86	OSF1.50	Pass
3400.00	3381.14	-17.48	-255.55	2963.97	2973.20	186.75	2534.32	85.64	2826.93	48.39	2778.54	2793.83	92.32	OSF1.50	Pass
3500.00	3479.98	-17.31	-270.76	3059.56	3067.80	186.86	2548.14	85.69	2856.19	49.82	2806.37	2822.14	90.46	OSF1.50	Pass
3600.00	3578.82	-17.13	-285.97	3155.16	3162.39	186.97	2561.97	85.73	2885.45	51.26	2834.20	2850.45	88.69	OSF1.50	Pass
3700.00	3677.65	-16.96	-301.19	3250.76	3256.98	187.07	2575.79	85.78	2914.72	52.70	2862.02	2878.75	87.02	OSF1.50	Pass
3800.00	3776.49	-16.78	-316.40	3346.36	3351.57	187.18	2589.61	85.82	2943.99	54.14	2889.84	2907.06	85.44	OSF1.50	Pass
3900.00	3875.32	-16.61	-331.61	3441.96	3446.17	187.29	2603.44	85.86	2973.26	55.59	2917.67	2935.36	83.93	OSF1.50	Pass
4000.00	3974.16	-16.43	-346.82	3537.55	3540.76	187.40	2617.26	85.91	3002.53	57.04	2945.49	2963.67	82.51	OSF1.50	Pass
4100.00	4073.00	-16.26	-362.03	3633.15	3635.35	187.51	2631.09	85.95	3031.80	58.50	2973.30	2991.97	81.15	OSF1.50	Pass
4200.00	4171.83	-16.08	-377.24	3728.75	3729.95	187.62	2644.91	85.99	3061.07	59.95	3001.12	3020.27	79.85	OSF1.50	Pass
4300.00	4270.67	-15.90	-392.46	3824.35	3824.54	187.73	2658.73	86.03	3090.35	61.41	3028.94	3048.57	78.62	OSF1.50	Pass
4400.00	4369.50	-15.73	-407.67	3919.95	3919.13	187.83	2672.56	86.06	3119.62	62.87	3056.75	3076.87	77.45	OSF1.50	Pass
4500.00	4468.34	-15.55	-422.88	4015.54	4013.73	187.94	2686.38	86.10	3148.90	64.34	3084.56	3105.18	76.32	OSF1.50	Pass
4600.00	4567.18	-15.38	-438.09	4111.14	4108.32	188.05	2700.20	86.14	3178.18	65.80	3112.38	3133.48	75.25	OSF1.50	Pass
4700.00	4666.01	-15.20	-453.30	4206.74	4202.91	188.16	2714.03	86.17	3207.46	67.27	3140.19	3161.78	74.22	OSF1.50	Pass
4800.00	4764.85	-15.03	-468.51	4302.34	4297.50	188.27	2727.85	86.21	3236.74	68.74	3168.00	3190.08	73.24	OSF1.50	Pass
4900.00	4863.69	-14.85	-483.73	4397.93	4392.10	188.38	2741.67	86.25	3266.02	70.21	3195.81	3218.38	72.29	OSF1.50	Pass
5000.00	4962.52	-14.67	-498.94	4493.53	4486.69	188.49	2755.50	86.28	3295.31	71.69	3223.62	3246.68	71.39	OSF1.50	Pass
5100.00	5061.36	-14.50	-514.15	4589.13	4581.28	188.59	2769.32	86.31	3324.59	73.16	3251.43	3274.98	70.52	OSF1.50	Pass
5200.00	5160.19	-14.32	-529.36	4684.73	4675.88	188.70	2783.15	86.35	3353.87	74.64	3279.24	3303.28	69.69	OSF1.50	Pass
5300.00	5259.03	-14.15	-544.57	4780.33	4770.47	188.81	2796.97	86.38	3383.16	76.11	3307.05	3331.58	68.89	OSF1.50	Pass
5400.00	5357.87	-13.97	-559.78	4875.92	4865.06	188.92	2810.79	86.41	3412.45	77.59	3334.85	3359.89	68.11	OSF1.50	Pass
5500.00	5456.70	-13.80	-574.99	4971.52	4959.66	189.03	2824.62	86.44	3441.74	79.07	3362.66	3388.19	67.37	OSF1.50	Pass
5600.00	5555.54	-13.62	-590.21	5067.12	5054.25	189.14	2838.44	86.47	3471.03	80.56	3390.47	3416.49	66.66	OSF1.50	Pass
5700.00	5654.37	-13.45	-605.42	5162.72	5148.84	189.25	2852.26	86.50	3500.32	82.04	3418.28	3444.79	65.97	OSF1.50	Pass
5800.00	5753.21	-13.27	-620.63	5258.32	5243.44	189.35	2866.09	86.53	3529.61	83.52	3446.09	3473.09	65.30	OSF1.50	Pass
5900.00	5852.05	-13.09	-635.84	5353.91	5338.03	189.46	2879.91	86.56	3558.90	85.01	3473.89	3501.39	64.66	OSF1.50	Pass
6000.00	5950.88	-12.92	-651.05	5449.52	5432.62	189.57	2893.73	86.59	3588.19	86.49	3501.70	3530.19	64.04	OSF1.50	Pass
6100.00	6049.72	-12.74	-666.26	5545.11	5527.21	189.68	2907.56	86.62	3617.48	87.98	3529.51	3558.00	63.44	OSF1.50	Pass
6200.00	6148.55	-12.57	-681.48	5640.71	5621.81	189.79	2921.38	86.65	3646.78	89.47	3557.31	3586.30	62.86	OSF1.50	Pass
6300.00	6247.39	-12.39	-696.69	5736.30	5716.40	189.90	2935.21	86.68	3676.07	90.95	3585.12	3614.60	62.30	OSF1.50	Pass
6400.00	6346.23	-12.22	-711.90	5831.90	5810.99	190.01	2949.03	86.70	3705.37	92.44	3612.93	3642.91	61.75	OSF1.50	Pass
6500.00	6445.06	-12.04	-727.11	5927.50	5905.59	190.11	2962.85	86.73	3734.67	93.93	3640.73	3671.21	61.23	OSF1.50	Pass
6600.00	6543.90														

Trajectory: Coterra Dos Equis 11-14 Federal Com 25Y Rev0 kFc 16Jun22 Vs. Cimarex Dos Equis 11-14 Federal Com 8H Rev0 RM 22Aug19

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
6700.00	6642.74	-11.69	-757.53	6118.70	6094.77	190.33	2990.50	86.78	3793.26	96.92	3696.35	3727.82	60.22	OSF1.50	Pass
6800.00	6741.57	-11.51	-772.75	6214.29	6189.37	190.44	3004.32	86.81	3822.56	98.41	3724.15	3756.12	59.75	OSF1.50	Pass
6900.00	6840.41	-11.34	-787.96	6309.89	6283.96	190.55	3018.15	86.83	3851.86	99.90	3751.96	3784.43	59.28	OSF1.50	Pass
7000.00	6939.24	-11.16	-803.17	6405.49	6378.55	190.66	3031.97	86.86	3881.16	101.40	3779.76	3812.73	58.83	OSF1.50	Pass
7100.00	7038.08	-10.99	-818.38	6501.09	6473.14	190.77	3045.80	86.88	3910.46	102.89	3807.57	3841.03	58.39	OSF1.50	Pass
7200.00	7136.92	-10.81	-833.59	6596.68	6567.74	190.87	3059.62	86.91	3939.76	104.39	3835.38	3869.34	57.97	OSF1.50	Pass
7300.00	7235.75	-10.64	-848.80	6692.28	6662.33	190.98	3073.44	86.93	3969.06	105.88	3863.18	3897.64	57.55	OSF1.50	Pass
7400.00	7334.59	-10.46	-864.01	6787.88	6756.92	191.09	3087.27	86.95	3998.37	107.38	3890.99	3925.95	57.15	OSF1.50	Pass
7500.00	7433.42	-10.28	-879.23	6883.48	6851.52	191.20	3101.09	86.98	4027.67	108.88	3918.79	3954.25	56.76	OSF1.50	Pass
7600.00	7532.26	-10.11	-894.44	6979.08	6946.11	191.31	3114.91	87.00	4056.97	110.37	3946.60	3982.56	56.38	OSF1.50	Pass
7700.00	7631.10	-9.93	-909.65	7074.67	7040.70	191.42	3128.74	87.02	4086.28	111.87	3974.41	4010.86	56.01	OSF1.50	Pass
7800.00	7729.93	-9.76	-924.86	7170.27	7135.30	191.53	3142.56	87.05	4115.58	113.37	4002.21	4039.17	55.65	OSF1.50	Pass
7900.00	7828.77	-9.58	-940.07	7265.87	7229.89	191.63	3156.38	87.07	4144.89	114.87	4030.02	4067.47	55.29	OSF1.50	Pass
8000.00	7927.60	-9.41	-955.28	7361.47	7324.48	191.74	3170.21	87.09	4174.19	116.37	4057.82	4095.78	54.95	OSF1.50	Pass
8100.00	8026.44	-9.23	-970.50	7457.07	7419.07	191.85	3184.03	87.11	4203.50	117.87	4085.63	4124.09	54.62	OSF1.50	Pass
8200.00	8125.28	-9.06	-985.71	7552.66	7513.67	191.96	3197.86	87.13	4232.81	119.37	4113.43	4152.39	54.29	OSF1.50	Pass
8300.00	8224.15	-8.88	-1000.68	7648.33	7608.33	192.07	3211.69	87.16	4261.89	120.88	4141.01	4180.47	53.97	OSF1.50	Pass
8400.00	8323.40	-8.74	-1012.88	7744.77	7703.76	192.18	3225.63	87.12	4288.27	122.38	4165.90	4205.86	53.63	OSF1.50	Pass
8500.00	8423.01	-8.64	-1021.60	7842.08	7800.04	192.29	3239.71	87.26	4311.29	123.88	4187.41	4227.87	53.25	OSF1.50	Pass
8600.00	8522.87	-8.58	-1026.84	7940.13	7897.06	192.40	3253.88	87.29	4330.90	125.37	4205.52	4246.48	52.84	OSF1.50	Pass
8700.00	8622.85	-8.56	-1028.60	8038.59	7994.85	192.51	3268.05	87.34	4349.95	126.87	4224.15	4265.45	52.45	OSF1.50	Pass
8800.00	8722.85	-8.56	-1028.60	8137.08	8093.34	192.62	3282.22	87.34	4368.99	128.37	4242.81	4284.41	52.05	OSF1.50	Pass
8900.00	8822.85	-8.56	-1028.60	8235.57	8191.83	192.73	3296.39	87.34	4388.03	129.87	4261.47	4303.37	51.65	OSF1.50	Pass
9000.00	8922.85	-8.56	-1028.60	8334.06	8290.32	192.84	3310.56	87.34	4407.07	131.37	4280.02	4322.42	51.25	OSF1.50	Pass
9100.00	9022.85	-8.56	-1028.60	8432.55	8388.81	192.95	3324.73	87.34	4426.11	132.87	4298.57	4341.47	50.85	OSF1.50	Pass
9200.00	9122.85	-8.56	-1028.60	8531.04	8487.30	193.06	3338.90	87.34	4445.15	134.37	4317.12	4360.52	50.45	OSF1.50	Pass
9300.00	9222.85	-8.56	-1028.60	8629.53	8585.79	193.17	3353.07	87.34	4464.19	135.87	4335.67	4379.57	50.05	OSF1.50	Pass
9400.00	9322.85	-8.56	-1028.60	8728.02	8684.28	193.28	3367.24	87.34	4483.23	137.37	4354.22	4398.62	49.65	OSF1.50	Pass
9500.00	9422.85	-8.56	-1028.60	8826.51	8782.77	193.39	3381.41	87.34	4502.27	138.87	4373.26	4417.67	49.25	OSF1.50	Pass
9600.00	9522.85	-8.56	-1028.60	8925.00	8881.26	193.50	3395.58	87.34	4521.31	140.37	4392.30	4436.72	48.85	OSF1.50	Pass
9700.00	9622.85	-8.56	-1028.60	9023.49	8979.75	193.61	3409.75	87.34	4540.35	141.87	4411.34	4455.77	48.45	OSF1.50	Pass
9800.00	9722.85	-8.56	-1028.60	9121.98	9078.24	193.72	3423.92	87.34	4559.39	143.37	4430.38	4474.82	48.05	OSF1.50	Pass
9900.00	9822.85	-8.56	-1028.60	9220.47	9176.73	193.83	3438.09	87.34	4578.43	144.87	4449.42	4493.87	47.65	OSF1.50	Pass
10000.00	9922.85	-8.56	-1028.60	9318.96	9275.22	193.94	3452.26	87.34	4597.47	146.37	4468.46	4512.92	47.25	OSF1.50	Pass
10100.00	10022.85	-8.56	-1028.60	9417.45	9373.71	194.05	3466.43	87.34	4616.51	147.87	4487.50	4531.97	46.85	OSF1.50	Pass
10200.00	10122.85	-8.56	-1028.60	9515.94	9472.20	194.16	3480.60	87.34	4635.55	149.37	4506.54	4551.02	46.45	OSF1.50	Pass
10300.00	10222.85	-8.56	-1028.60	9614.43	9570.69	194.27	3494.77	87.34	4654.59	150.87	4525.58	4570.07	46.05	OSF1.50	Pass
10400.00	10322.85	-8.56	-1028.60	9712.92	9669.18	194.38	3508.94	87.34	4673.63	152.37	4544.62	4589.12	45.65	OSF1.50	Pass
10500.00	10422.81	-10.22	-1028.71	10211.41	10167.67	194.49	3523.11	87.34	4692.67	153.87	4563.66	4608.17	45.25	OSF1.50	Pass
10600.00	10521.35	-26.45	-1029.74	10710.90	10663.16	194.60	3537.28	87.34	4711.71	155.37	4582.70	4627.22	44.85	OSF1.50	Pass
10700.00	10615.57	-59.51	-1031.86	11210.39	11159.65	194.71	3551.45	87.34	4730.75	156.87	4601.74	4646.27	44.45	OSF1.50	Pass
10800.00	10702.60	-108.39	-1034.98	11709.88	11658.90	194.82	3565.62	87.34	4749.79	158.37	4620.78	4665.32	44.05	OSF1.50	Pass
10900.00	10779.81	-171.61	-1039.02	12209.37	12158.15	194.93	3579.79	87.34	4768.83	159.87	4639.82	4684.37	43.65	OSF1.50	Pass
11000.00	10844.85	-247.25	-1043.85	12708.86	12656.64	195.04	3593.96	87.34	4787.87	161.37	4658.86	4703.42	43.25	OSF1.50	Pass
11100.00	10895.73	-333.92	-1048.33	13208.35	13154.13	195.15	3608.13	87.34	4806.91	162.87	4677.90	4722.47	42.85	OSF1.50	Pass
11200.00	10930.92	-426.30	-1052.29	13707.84	13649.62	195.26	3622.30	87.34	4825.95	164.37	4696.94	4741.52	42.45	OSF1.50	Pass
11300.00	10953.24	-523.60	-1060.50	14207.33	14145.11	195.37	3636.47	87.34	4844.99	165.87	4715.98	4760.57	42.05	OSF1.50	Pass
11400.00	10967.26	-622.53	-1063.52	14706.82	14632.60	195.48	3650.64	87.34	4864.03	167.37	4735.02	4779.62	41.65	OSF1.50	Pass
11500.00	10972.89	-722.34	-1064.33	15206.31	15120.09	195.59	3664.81	87.34	4883.07	168.87	4754.06	4798.67	41.25	OSF1.50	Pass
11600.00	10973.23	-822.34	-1063.75	15705.80	15619.58	195.70	3678.98	87.34	4902.11	170.37	4773.10	4817.72	40.85	OSF1.50	Pass
11700.00	10973.49	-922.34	-1063.15	16205.29	16119.07	195.81	3693.15	87.34	4921.15	171.87	4792.14	4836.77	40.45	OSF1.50	Pass
11800.00	10973.75	-1022.33	-1062.55	16704.78	16618.56	195.92	3707.32	87.34	4940.19	173.37	4811.18	4855.82	40.05	OSF1.50	Pass
11900.00	10974.02	-1122.33	-1061.95	17204.27	17118.05	196.03	3721.49	87.34	4959.23	174.87	4830.22	4874.87	39.65	OSF1.50	Pass
12000.00	10974.28	-1222.33	-1061.35	17703.76	17627.54	196.14	3735.66	87.34	4978.27	176.37	4849.26	4893.92	39.25	OSF1.50	Pass
12100.00	10974.54	-1322.33	-1060.75	18203.25	18127.03	196.25	3749.83	87.34	4997.31	177.87	4868.30	4912.97	38.85	OSF1.50	Pass
12200.00	10974.80	-1422.32	-1060.15	18702.74	18626.52	196.36	3763.99	87.34	5016.35	179.37	4887.34	4932.02	38.45	OSF1.50	Pass
12300.00	10975.06	-1522.32	-1059.55	19202.23	19126.01	196.47	3778.16	87.34	5035.39	180.87	4906.38	4951.07	38.05	OSF1.50	Pass
12400.00	10975.33	-1622.32	-1058.95	19701.72	19625.50	196.58	3792.32	87.34	5054.43	182.37	4925.42	4970.12	37.65	OSF1.50	Pass
12500.00	10975.59	-1722.32	-1058.34	20201.21	20125.00	196.69	3806.49	87.34	5073.47	183.87	4944.46	4989.17	37.25	OSF1.50	Pass
12600.00	10975.85	-1822.32	-1057.74	20700.70	20624.49	196.80	3820.66	87.34	5092.51	185.37	4963.50	5008.22	36.85	OSF1.50	Pass
12700.00	10976.11	-1922.31	-1057.14	21200.19	21123.98	196.91	3834.82	87.34	5111.55	186.87	4982.54	5027.27	36.45	OSF1.50	Pass
12800.00	10976.37	-2022.31	-1056.54	21700.68	21623.47	197.02	3848.99	87.34	5130.59	188.37	5001.58	5046.32	36.05	OSF1.50	Pass
12900.00	10976.63	-2122.31	-1055.94	22200.17	22122.96	197.13	3863.15	87.34	5149.63	189.87	5020.62	5065.37	35.65	OSF1.50	Pass
13000.00	10976.90	-2222.31	-1055.34	22700.66	22622.45	197.24	3877.32	87.34	5168.67	191.37	5039.66	5084.42	35.25	OSF1.50	Pass
13100.00	10977.16	-2322.31	-1054.74	23200.15	23121.94	197.35	3891.48	87.34	5187.71	192.87	5058.70	5103.47	34.85	OSF1.50	Pass
13200.00	10977.42	-2422.30													

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Cimarex Dos Equis 11-14 Federal Com 8H Rev0 RM 22Aug19

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
15200.00	10982.66	-4422.26	-1042.12	16757.10	12334.66	-4401.88	3328.18	72.47	4574.70	290.84	4283.86	4379.97	23.79	OSF1.50	Pass
15300.00	10982.92	-4522.26	-1041.52	16857.09	12334.24	-4501.88	3328.78	72.47	4574.49	295.15	4279.34	4376.89	23.43	OSF1.50	Pass
15400.00	10983.18	-4622.26	-1040.92	16957.09	12333.81	-4601.87	3329.38	72.48	4574.29	299.49	4274.79	4373.79	23.09	OSF1.50	Pass
15500.00	10983.45	-4722.25	-1040.32	17057.09	12333.38	-4701.87	3329.98	72.49	4574.08	303.86	4270.22	4370.67	22.75	OSF1.50	Pass
15600.00	10983.71	-4822.25	-1039.71	17157.09	12332.95	-4801.86	3330.58	72.50	4573.87	308.26	4265.61	4367.53	22.43	OSF1.50	Pass
15700.00	10983.97	-4922.25	-1039.11	17257.08	12332.52	-4901.86	3331.18	72.51	4573.67	312.69	4260.98	4364.38	22.11	OSF1.50	Pass
15800.00	10984.23	-5022.25	-1038.51	17357.08	12332.10	-5001.85	3331.77	72.52	4573.46	317.14	4256.33	4361.20	21.79	OSF1.50	Pass
15900.00	10984.49	-5122.25	-1037.91	17457.08	12331.67	-5101.85	3332.37	72.52	4573.26	321.61	4251.64	4358.02	21.49	OSF1.50	Pass
16000.00	10984.76	-5222.24	-1037.31	17557.08	12331.24	-5201.84	3332.97	72.53	4573.05	326.11	4246.94	4354.81	21.19	OSF1.50	Pass
16100.00	10985.02	-5322.24	-1036.71	17657.07	12330.81	-5301.84	3333.57	72.54	4572.85	330.63	4242.21	4351.59	20.89	OSF1.50	Pass
16200.00	10985.28	-5422.24	-1036.11	17757.07	12330.38	-5401.83	3334.17	72.55	4572.64	335.18	4237.47	4348.36	20.61	OSF1.50	Pass
16300.00	10985.54	-5522.24	-1035.51	17857.07	12329.96	-5501.82	3334.77	72.56	4572.44	339.74	4232.70	4345.11	20.33	OSF1.50	Pass
16400.00	10985.80	-5622.23	-1034.91	17957.07	12329.53	-5601.82	3335.37	72.57	4572.23	344.32	4227.91	4341.85	20.05	OSF1.50	Pass
16500.00	10986.07	-5722.23	-1034.31	18057.06	12329.10	-5701.81	3335.97	72.57	4572.03	348.92	4223.10	4338.58	19.79	OSF1.50	Pass
16600.00	10986.33	-5822.23	-1033.70	18157.06	12328.67	-5801.81	3336.56	72.58	4571.82	353.55	4218.28	4335.29	19.52	OSF1.50	Pass
16700.00	10986.59	-5922.23	-1033.10	18257.06	12328.25	-5901.80	3337.16	72.59	4571.62	358.18	4213.43	4331.99	19.27	OSF1.50	Pass
16800.00	10986.85	-6022.23	-1032.50	18357.06	12327.82	-6001.80	3337.76	72.60	4571.41	362.84	4208.57	4328.69	19.02	OSF1.50	Pass
16900.00	10987.11	-6122.22	-1031.90	18457.06	12327.39	-6101.79	3338.36	72.61	4571.21	367.51	4203.70	4325.37	18.77	OSF1.50	Pass
17000.00	10987.38	-6222.22	-1031.30	18557.05	12326.96	-6201.79	3338.96	72.61	4571.00	372.20	4198.80	4322.04	18.54	OSF1.50	Pass
17100.00	10987.64	-6322.22	-1030.70	18657.05	12326.53	-6301.78	3339.56	72.62	4570.80	376.90	4193.90	4318.70	18.30	OSF1.50	Pass
17200.00	10987.90	-6422.22	-1030.10	18757.05	12326.11	-6401.78	3340.16	72.63	4570.59	381.62	4188.98	4315.35	18.07	OSF1.50	Pass
17300.00	10988.16	-6522.22	-1029.50	18857.05	12325.68	-6501.77	3340.75	72.64	4570.39	386.35	4184.04	4311.99	17.85	OSF1.50	Pass
17400.00	10988.42	-6622.21	-1028.90	18957.04	12325.25	-6601.77	3341.35	72.65	4570.19	391.10	4179.09	4308.62	17.63	OSF1.50	Pass
17500.00	10988.69	-6722.21	-1028.30	19057.04	12324.82	-6701.76	3341.95	72.66	4569.98	395.85	4174.13	4305.25	17.42	OSF1.50	Pass
17600.00	10988.95	-6822.21	-1027.69	19157.04	12324.39	-6801.76	3342.55	72.66	4569.78	400.63	4169.15	4301.86	17.21	OSF1.50	Pass
17700.00	10989.21	-6922.21	-1027.09	19257.04	12323.97	-6901.75	3343.15	72.67	4569.58	405.41	4164.17	4298.47	17.00	OSF1.50	Pass
17800.00	10989.47	-7022.20	-1026.49	19357.03	12323.54	-7001.75	3343.75	72.68	4569.37	410.20	4159.17	4295.07	16.80	OSF1.50	Pass
17900.00	10989.73	-7122.20	-1025.89	19457.03	12323.11	-7101.74	3344.35	72.69	4569.17	415.01	4154.16	4291.66	16.61	OSF1.50	Pass
18000.00	10990.00	-7222.20	-1025.29	19557.03	12322.68	-7201.74	3344.95	72.70	4568.96	419.83	4149.14	4288.25	16.41	OSF1.50	Pass
18100.00	10990.26	-7322.20	-1024.69	19657.03	12322.25	-7301.73	3345.54	72.71	4568.76	424.66	4144.11	4284.82	16.22	OSF1.50	Pass
18200.00	10990.52	-7422.20	-1024.09	19757.02	12321.83	-7401.73	3346.14	72.71	4568.56	429.49	4139.06	4281.40	16.04	OSF1.50	Pass
18300.00	10990.78	-7522.19	-1023.49	19857.02	12321.40	-7501.72	3346.74	72.72	4568.35	434.34	4134.01	4277.96	15.86	OSF1.50	Pass
18400.00	10991.04	-7622.19	-1022.89	19957.02	12320.97	-7601.72	3347.34	72.73	4568.15	439.20	4128.95	4274.52	15.68	OSF1.50	Pass
18500.00	10991.31	-7722.19	-1022.29	20057.02	12320.54	-7701.71	3347.94	72.74	4567.95	444.07	4123.88	4271.07	15.51	OSF1.50	Pass
18600.00	10991.57	-7822.19	-1021.68	20157.01	12320.11	-7801.71	3348.54	72.75	4567.75	448.94	4118.80	4267.62	15.34	OSF1.50	Pass
18700.00	10991.83	-7922.19	-1021.08	20257.01	12319.69	-7901.70	3349.14	72.76	4567.54	453.83	4113.72	4264.16	15.17	OSF1.50	Pass
18800.00	10992.09	-8022.18	-1020.48	20357.01	12319.26	-8001.70	3349.73	72.76	4567.34	458.72	4108.62	4260.69	15.01	OSF1.50	Pass
18900.00	10992.35	-8122.18	-1019.88	20457.01	12318.83	-8101.69	3350.33	72.77	4567.14	463.62	4103.52	4257.22	14.85	OSF1.50	Pass
19000.00	10992.61	-8222.18	-1019.28	20557.01	12318.40	-8201.69	3350.93	72.78	4566.94	468.53	4098.40	4253.75	14.69	OSF1.50	Pass
19100.00	10992.88	-8322.18	-1018.68	20657.00	12317.97	-8301.68	3351.53	72.79	4566.73	473.45	4093.28	4250.27	14.54	OSF1.50	Pass
19200.00	10993.14	-8422.17	-1018.08	20757.00	12317.55	-8401.68	3352.13	72.80	4566.53	478.37	4088.16	4246.78	14.39	OSF1.50	Pass
19300.00	10993.40	-8522.17	-1017.48	20857.00	12317.12	-8501.67	3352.73	72.80	4566.33	483.31	4083.02	4243.29	14.24	OSF1.50	Pass
19400.00	10993.66	-8622.17	-1016.88	20957.00	12316.69	-8601.67	3353.33	72.81	4566.13	488.24	4077.88	4239.80	14.09	OSF1.50	Pass
19500.00	10993.92	-8722.17	-1016.28	21056.99	12316.26	-8701.66	3353.93	72.82	4565.92	493.19	4072.73	4236.30	13.95	OSF1.50	Pass
19600.00	10994.19	-8822.17	-1015.68	21156.99	12315.84	-8801.66	3354.52	72.83	4565.72	498.14	4067.58	4232.79	13.81	OSF1.50	Pass
19700.00	10994.45	-8922.16	-1015.07	21256.99	12315.41	-8901.65	3355.12	72.84	4565.52	503.10	4062.42	4229.29	13.67	OSF1.50	Pass
19800.00	10994.71	-9022.16	-1014.47	21356.99	12314.98	-9001.65	3355.72	72.85	4565.32	508.07	4057.25	4225.77	13.54	OSF1.50	Pass
19900.00	10994.97	-9122.16	-1013.87	21456.98	12314.55	-9101.64	3356.32	72.85	4565.12	513.04	4052.08	4222.26	13.41	OSF1.50	Pass
20000.00	10995.23	-9222.16	-1013.27	21556.98	12314.12	-9201.64	3356.92	72.86	4564.92	518.02	4046.90	4218.74	13.28	OSF1.50	Pass
20100.00	10995.50	-9322.16	-1012.67	21656.98	12313.70	-9301.63	3357.52	72.87	4564.71	523.00	4041.71	4215.21	13.15	OSF1.50	Pass
20200.00	10995.76	-9422.15	-1012.07	21756.98	12313.27	-9401.63	3358.12	72.88	4564.51	527.99	4036.52	4211.69	13.02	OSF1.50	Pass
20300.00	10996.02	-9522.15	-1011.47	21856.97	12312.84	-9501.62	3358.71	72.89	4564.31	532.98	4031.33	4208.16	12.90	OSF1.50	Pass
20400.00	10996.28	-9622.15	-1010.87	21956.97	12312.41	-9601.62	3359.31	72.90	4564.11	537.98	4026.13	4204.62	12.78	OSF1.50	Pass
20500.00	10996.54	-9722.15	-1010.27	22056.97	12311.98	-9701.61	3359.91	72.90	4563.91	542.99	4020.92	4201.08	12.66	OSF1.50	Pass
20600.00	10996.81	-9822.14	-1009.67	22156.97	12311.56	-9801.61	3360.51	72.91	4563.71	548.00	4015.71	4197.54	12.54	OSF1.50	Pass
20700.00	10997.07	-9922.14	-1009.06	22240.10	12311.20	-9884.74	3361.01	72.92	4563.51	552.37	4011.17	4194.46	12.44	OSF1.50	Pass
20712.06	10997.10	-9934.20	-1008.99	22240.10	12311.20	-9884.74	3361.01	72.92	4563.57	552.51	4011.07	4194.40	12.44	OSF1.50	Pass

End of results

...Dos Equis 11-14 Federal Com 25Y\Coterra Dos Equis 11-14 Federal Com 25Y Rev0 kFc 16Jun22

Drilling Office 2.10.829.1

Schlumberger-Private

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Field: NM Lea County (NAD 83)
 Structure: Rover Operating Co Wimberly #6 (Offset)
 Slot: Rover Operating Co Wimberly #6 (Offset)
 Client: Rover Operating Co Wimberly #6 (Offset)
 Coordinate System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 North Reference: Grid
 Grid Convergence Angle: 0.36628924°
 Grid Scale Factor: 0.999960756
 Magnetic Declination: 6.667°
 Reference Point: 446893.006 (ftUS)
 Magnetic Declination Date: August 26, 2019
 Magnetic Model: HDGM 2019
 Easting: 753729.102 (ftUS)
 Elevation: 3629.000 (ft) MSL
 Structure Unc.: 0.000 (ft) (3 sigma)
 Slot Unc.: 0.000 (ft) (3 sigma)

Trajectory Error Model: ISCSWA0 3-D 95.000% Confidence 2.7955 sigma

Surveying Prog: As Drilled

Description	MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type	Hole Size (in)	Casing Diameter (in)	Borehole / Survey
	0.000	0.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	erating Co Wimberly #6 Inc Only to 5075ft - P
	0.000	410.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	erating Co Wimberly #6 Inc Only to 5075ft - P
	410.000	410.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	erating Co Wimberly #6 Inc Only to 5075ft - P
	410.000	830.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	erating Co Wimberly #6 Inc Only to 5075ft - P
	830.000	830.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	erating Co Wimberly #6 Inc Only to 5075ft - P
	830.000	1333.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	erating Co Wimberly #6 Inc Only to 5075ft - P
	1333.000	1333.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	erating Co Wimberly #6 Inc Only to 5075ft - P
	1333.000	2339.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	erating Co Wimberly #6 Inc Only to 5075ft - P
	2339.000	2339.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	erating Co Wimberly #6 Inc Only to 5075ft - P
	2339.000	3140.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	erating Co Wimberly #6 Inc Only to 5075ft - P
	3140.000	3667.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	erating Co Wimberly #6 Inc Only to 5075ft - P
	3667.000	3979.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	erating Co Wimberly #6 Inc Only to 5075ft - P
	3979.000	3979.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	erating Co Wimberly #6 Inc Only to 5075ft - P
	3979.000	4602.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	erating Co Wimberly #6 Inc Only to 5075ft - P
	4602.000	5075.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	erating Co Wimberly #6 Inc Only to 5075ft - P

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
0.00	0.00	0.00	0.00	0.00	11.60	-4066.78	670.58	170.64	4121.72	32.81	4088.91	4119.22	N/A	10.00 (m)	Pass
22.00	22.00	0.00	0.00	10.33	21.93	-4066.78	670.58	170.64	4121.70	32.81	4088.89	4119.02	23104.56	10.00 (m)	Pass
100.00	100.00	0.00	0.00	87.77	99.37	-4066.78	670.62	170.64	4121.71	32.81	4088.90	4117.67	2674.08	10.00 (m)	Pass
200.00	200.00	0.00	0.00	187.06	198.66	-4066.78	670.77	170.63	4121.73	32.81	4088.92	4114.37	846.88	10.00 (m)	Pass
300.00	300.00	0.00	0.00	286.36	297.96	-4066.78	671.02	170.63	4121.77	32.81	4088.96	4110.89	491.73	10.00 (m)	Pass
400.00	400.00	0.00	0.00	385.65	397.24	-4066.78	671.37	170.63	4121.83	32.81	4089.02	4107.42	346.02	10.00 (m)	Pass
500.00	500.00	0.00	0.00	480.04	491.64	-4066.83	671.75	170.62	4121.95	32.81	4089.14	4104.18	269.80	10.00 (m)	Pass
600.00	599.99	-0.87	0.00	572.84	584.44	-4067.06	672.05	170.61	4121.38	32.81	4088.57	4100.31	221.79	10.00 (m)	Pass
700.00	699.98	-2.62	0.00	665.64	677.24	-4067.46	672.25	170.61	4120.12	35.30	4084.82	4095.75	188.29	OSF1.50	Pass
800.00	799.96	-4.36	0.00	758.45	770.04	-4068.04	672.36	170.60	4119.04	40.28	4078.76	4091.35	163.45	OSF1.50	Pass
900.00	899.95	-6.11	0.00	855.11	866.70	-4068.83	672.38	170.60	4118.12	45.47	4072.65	4086.98	143.68	OSF1.50	Pass
1000.00	999.93	-7.85	0.00	964.75	976.34	-4069.63	672.15	170.60	4117.09	51.33	4065.76	4082.04	126.40	OSF1.50	Pass
1100.00	1099.92	-9.60	0.00	1074.39	1085.97	-4070.23	671.61	170.61	4115.82	57.14	4058.68	4076.89	112.92	OSF1.50	Pass
1200.00	1199.90	-11.34	0.00	1184.01	1195.59	-4070.62	670.76	170.62	4114.32	62.92	4051.40	4071.54	102.08	OSF1.50	Pass
1300.00	1299.89	-13.09	0.00	1293.62	1305.19	-4070.80	669.59	170.63	4112.59	68.73	4043.86	4065.93	93.09	OSF1.50	Pass
1400.00	1399.87	-14.83	0.00	1400.01	1411.58	-4070.78	668.25	170.64	4110.64	74.41	4036.23	4060.20	85.69	OSF1.50	Pass
1500.00	1499.86	-16.58	0.00	1504.59	1516.15	-4070.62	667.04	170.65	4108.58	80.03	4028.55	4054.39	79.44	OSF1.50	Pass
1600.00	1599.83	-18.11	-1.73	1609.18	1620.73	-4070.31	665.98	170.62	4106.90	85.66	4021.24	4048.96	74.03	OSF1.50	Pass
1700.00	1699.68	-19.20	-6.92	1713.67	1725.21	-4069.87	665.06	170.56	4105.11	91.26	4014.84	4044.43	69.35	OSF1.50	Pass
1800.00	1799.30	-19.86	-15.57	1817.92	1829.46	-4069.28	664.28	170.46	4103.20	96.84	4009.37	4040.81	65.25	OSF1.50	Pass
1900.00	1898.56	-20.08	-27.66	1921.79	1933.33	-4068.55	663.65	170.33	4101.22	102.37	4004.85	4038.14	61.65	OSF1.50	Pass
2000.00	1997.44	-19.94	-42.59	2025.25	2036.78	-4067.69	663.15	170.15	4109.00	107.88	4001.13	4036.25	58.46	OSF1.50	Pass
2100.00	2096.27	-19.77	-57.80	2128.62	2140.14	-4066.69	662.80	169.93	4110.81	113.37	3997.44	4034.40	55.58	OSF1.50	Pass
2200.00	2195.11	-19.59	-73.01	2231.94	2243.46	-4065.55	662.59	169.72	4112.57	118.87	3993.70	4032.49	52.98	OSF1.50	Pass
2300.00	2293.95	-19.42	-88.22	2335.22	2346.73	-4064.28	662.51	169.50	4114.28	124.38	3989.89	4030.52	50.60	OSF1.50	Pass
2400.00	2392.78	-19.24	-103.44	2425.27	2436.78	-4063.16	662.70	169.31	4116.09	129.19	3986.90	4029.13	48.71	OSF1.50	Pass
2500.00	2491.62	-19.07	-118.65	2514.70	2526.20	-4062.18	663.27	169.11	4118.17	133.90	3984.27	4028.07	46.98	OSF1.50	Pass
2600.00	2590.45	-18.89	-133.86	2604.01	2615.50	-4061.33	664.24	168.91	4120.55	138.56	3981.99	4027.34	45.40	OSF1.50	Pass
2700.00	2689.29	-18.71	-149.07	2693.19	2704.67	-4060.61	665.59	168.71	4123.21	143.18	3980.03	4026.92	43.94	OSF1.50	Pass
2800.00	2788.13	-18.54	-164.28	2782.23	2793.69	-4060.03	667.33	168.50	4126.17	147.81	3978.36	4026.79	42.57	OSF1.50	Pass
2900.00	2886.96	-18.36	-179.49	2871.14	2882.58	-4059.57	669.46	168.29	4129.42	152.49	3976.93	4026.93	41.27	OSF1.50	Pass
3000.00	2985.80	-18.19	-194.71	2959.91	2971.31	-4059.25	671.96	168.07	4132.98	157.29	3975.68	4027.28	40.03	OSF1.50	Pass
3100.00	3084.64	-18.01	-209.92	3048.54	3059.89	-4059.05	674.85	167.85	4136.84	162.38	3974.46	4027.75	38.79	OSF1.50	Pass
3200.00	3183.47	-17.84	-225.13	3137.02	3148.31	-4058.98	678.12	167.62	4141.01	167.46	3973.58	4028.53	37.63	OSF1.50	Pass
3300.00	3282.31	-17.66	-240.34	3225.25	3236.49	-4058.29	680.49	167.45	4145.73	171.29	3974.43	4030.70	36.82	OSF1.50	Pass
3400.00	3381.14	-17.48	-255.55	3272.99	3284.21	-4060.27	682.18	167.29	4151.25	175.08	3976.16	4033.69	36.06	OSF1.50	Pass
3500.00	3479.98	-17.31	-270.76	3340.94	3352.13	-4061.92	683.19	167.15	4157.55	178.88	3978.68	4037.47	35.34	OSF1.50	Pass
3600.00	3578.82	-17.13	-285.97	3704.60	3715.57	-4063.03	677.99	166.48	4161.40	196.37	3965.03	4029.65	32.18	OSF1.50	Pass
3700.00	3677.65	-16.96	-301.19	3766.64	3777.59	-4061.13	678.35	166.34	4162.31	200.05	3962.26	4028.11	31.58	OSF1.50	Pass
3800.00	3776.49	-16.78	-316.40	3828.61	3839.53	-4059.72	679.03	166.20	4164.16	203.72	3960.43	4027.51	31.02	OSF1.50	Pass
3900.00	3875.32	-16.61	-331.61	3890.49	3901.39	-4058.79	680.03	166.06	4166.93	207.44	3959.50	4027.81	30.48	OSF1.50	Pass
4000.00	3974.16	-16.43	-346.82	3952.26	3963.15	-4058.34	681.35	165.92	4170.65	211.14	3959.50	4029.05	29.97	OSF1.50	Pass
4100.00	4073.00	-16.26	-362.03	4026.15	4037.01	-4058.36	683.21	165.74	4175.21	215.49	3959.72	4030.72	29.39	OSF1.50	Pass
4200.00	4171.83	-16.08	-377.24	4109.44	4120.28	-4058.77	685.08	165.55	4180.26	220.35	3959.90	4032.52	28.77	OSF1.50	Pass
4300.00	4270.67	-15.90	-392.46	4192.82	4203.65	-4059.58	686.66	165.37	4185.72	225.12	3960.60	4034.81	28.19	OSF1.50	Pass
4400.00	4369.50	-15.73	-407.67	4276.30	4287.11	-4060.77	687.95	165.19	4191.60	229.79	3961.81	4037.58	27.65	OSF1.50	Pass
4500.00	4468.34	-15.55	-422.88	4359.86	4370.64	-4062.36	688.94	165.01	4197.90	234.39	3963.51	4040.81	27.14	OSF1.50	Pass
4600.00	4567.18	-15.38	-438.09	4443.49	4454.25	-4064.34	689.65	164.84	4204.60	238.92	3965.68	4044.48	26.66	OSF1.50	Pass
4700.00	4666.01	-15.20	-453.30	4527.20	4537.93	-4066.72	690.06	164.68	4211.70	243.43	3968.27	4048.58	26.21	OSF1.50	Pass
4800.00	4764.85	-15.03	-468.51	4628.20	4638.87	-4070.04	690.15	164.49	4219.18	248.77	3970.41	4052.50	25.68	OSF1.50	Pass
4900.00	4863.69	-14.85	-483.73	4713.63	4724.23	-4074.05	687.30	164.05	4224.79	260.88	3963.90	4050.03	24.51	OSF1.50	Pass
5000.00	4962.52	-14.67	-498.94	5075.00	5085.56	-4071.11	685.01	163.67	4227.47	270.29	3957.19	4046.48	23.67	OSF1.50	Pass
5100.00	5061.36	-14.50	-514.15	5075.00	5085.56	-4071.11	685.01	163.67	4230.21	270.68	3959.53	4048.92	23.55	OSF1.50	Pass
5200.00	5160.19	-14.32	-529.36	5075.00	5085.56	-4071.11	685.01	163.67	4235.30	270.92	3964.38	4053.85	23.65	OSF1.50	Pass
5300.00	5259.03	-14.15	-544.57	5075.00	5085.56	-4071.11	685.01	163.67	4242.75	271.04	3971.71	4061.22	23.69	OSF1.50	Pass

...Dos E

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Rover Operating Co Wimberly #6 Inc Only to 5075ft - P

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
5400.00	5357.87	-13.97	-559.78	5075.00	5085.56	-4071.11	685.01	163.67	4252.53	271.02	3981.52	4071.02	23.74	OSF1.50	Pass
5500.00	5456.70	-13.80	-574.99	5075.00	5085.56	-4071.11	685.01	163.67	4264.64	270.86	3993.78	4083.23	23.82	OSF1.50	Pass
5600.00	5555.54	-13.62	-590.21	5075.00	5085.56	-4071.11	685.01	163.67	4279.05	270.58	4008.47	4097.83	23.93	OSF1.50	Pass
5700.00	5654.37	-13.45	-605.42	5075.00	5085.56	-4071.11	685.01	163.67	4295.74	270.17	4025.57	4114.79	24.06	OSF1.50	Pass
5800.00	5753.21	-13.27	-620.63	5075.00	5085.56	-4071.11	685.01	163.67	4314.69	269.64	4045.04	4134.09	24.21	OSF1.50	Pass
5900.00	5852.05	-13.09	-635.84	5075.00	5085.56	-4071.11	685.01	163.67	4335.85	269.00	4066.86	4155.69	24.39	OSF1.50	Pass
6000.00	5950.88	-12.92	-651.05	5075.00	5085.56	-4071.11	685.01	163.67	4359.22	268.24	4090.98	4179.56	24.59	OSF1.50	Pass
6100.00	6049.72	-12.74	-666.26	5075.00	5085.56	-4071.11	685.01	163.67	4384.73	267.37	4117.36	4205.65	24.82	OSF1.50	Pass
6200.00	6148.55	-12.57	-681.48	5075.00	5085.56	-4071.11	685.01	163.67	4412.37	266.40	4145.97	4233.94	25.07	OSF1.50	Pass
6300.00	6247.39	-12.39	-696.69	5075.00	5085.56	-4071.11	685.01	163.67	4442.09	265.34	4176.75	4264.36	25.34	OSF1.50	Pass
6400.00	6346.23	-12.22	-711.90	5075.00	5085.56	-4071.11	685.01	163.67	4473.84	264.18	4209.66	4296.89	25.63	OSF1.50	Pass
6500.00	6445.06	-12.04	-727.11	5075.00	5085.56	-4071.11	685.01	163.67	4504.59	262.94	4244.65	4331.46	25.95	OSF1.50	Pass
6600.00	6543.90	-11.87	-742.32	5075.00	5085.56	-4071.11	685.01	163.67	4543.29	261.62	4281.67	4368.04	26.29	OSF1.50	Pass
6700.00	6642.74	-11.69	-757.53	5075.00	5085.56	-4071.11	685.01	163.67	4580.90	260.23	4320.67	4406.58	26.65	OSF1.50	Pass
6800.00	6741.57	-11.51	-772.75	5075.00	5085.56	-4071.11	685.01	163.67	4620.36	258.78	4361.59	4447.01	27.03	OSF1.50	Pass
6900.00	6840.41	-11.34	-787.96	5075.00	5085.56	-4071.11	685.01	163.67	4661.64	257.26	4404.38	4489.30	27.43	OSF1.50	Pass
7000.00	6939.24	-11.16	-803.17	5075.00	5085.56	-4071.11	685.01	163.67	4704.68	255.69	4448.98	4533.38	27.86	OSF1.50	Pass
7100.00	7038.08	-10.99	-818.38	5075.00	5085.56	-4071.11	685.01	163.67	4749.43	254.08	4495.35	4579.21	28.30	OSF1.50	Pass
7200.00	7136.92	-10.81	-833.59	5075.00	5085.56	-4071.11	685.01	163.67	4795.86	252.42	4543.43	4626.74	28.77	OSF1.50	Pass
7300.00	7235.75	-10.64	-848.80	5075.00	5085.56	-4071.11	685.01	163.67	4843.90	250.73	4593.17	4675.91	29.26	OSF1.50	Pass
7400.00	7334.59	-10.46	-864.01	5075.00	5085.56	-4071.11	685.01	163.67	4893.51	249.01	4644.50	4726.67	29.76	OSF1.50	Pass
7500.00	7433.42	-10.28	-879.23	5075.00	5085.56	-4071.11	685.01	163.67	4944.65	247.26	4697.39	4778.98	30.29	OSF1.50	Pass
7600.00	7532.26	-10.11	-894.44	5075.00	5085.56	-4071.11	685.01	163.67	4997.27	245.50	4751.78	4832.77	30.83	OSF1.50	Pass
7700.00	7631.10	-9.93	-909.65	5075.00	5085.56	-4071.11	685.01	163.67	5051.32	243.71	4807.61	4888.01	31.40	OSF1.50	Pass
7800.00	7729.93	-9.76	-924.86	5075.00	5085.56	-4071.11	685.01	163.67	5106.76	241.92	4864.84	4944.64	31.98	OSF1.50	Pass
7900.00	7828.77	-9.58	-940.07	5075.00	5085.56	-4071.11	685.01	163.67	5163.53	240.12	4923.41	5002.62	32.58	OSF1.50	Pass
8000.00	7927.60	-9.41	-955.28	5075.00	5085.56	-4071.11	685.01	163.67	5221.61	238.32	4983.29	5061.90	33.20	OSF1.50	Pass
8100.00	8026.44	-9.23	-970.50	5075.00	5085.56	-4071.11	685.01	163.67	5280.94	236.52	5044.43	5122.43	33.83	OSF1.50	Pass
8200.00	8125.28	-9.06	-985.71	5075.00	5085.56	-4071.11	685.01	163.67	5341.48	234.72	5106.77	5184.17	34.49	OSF1.50	Pass
8300.00	8224.15	-8.88	-1000.68	5075.00	5085.56	-4071.11	685.01	163.67	5403.15	232.92	5170.22	5247.03	35.16	OSF1.50	Pass
8400.00	8323.40	-8.74	-1012.88	5075.00	5085.56	-4071.11	685.01	161.61	5465.28	231.10	5234.18	5310.38	35.85	OSF1.50	Pass
8500.00	8423.01	-8.64	-1021.60	5075.00	5085.56	-4071.11	685.01	160.11	5527.63	229.24	5298.40	5373.98	36.55	OSF1.50	Pass
8600.00	8522.87	-8.58	-1026.84	5075.00	5085.56	-4071.11	685.01	158.61	5590.14	227.34	5362.80	5437.75	37.28	OSF1.50	Pass
8700.00	8622.85	-8.56	-1028.60	5075.00	5085.56	-4071.11	685.01	157.13	5652.71	225.42	5427.30	5501.60	38.02	OSF1.50	Pass
8800.00	8722.85	-8.56	-1028.60	5075.00	5085.56	-4071.11	685.01	157.13	5715.82	223.48	5492.34	5566.00	38.78	OSF1.50	Pass
8900.00	8822.85	-8.56	-1028.60	5075.00	5085.56	-4071.11	685.01	157.13	5779.97	221.56	5558.41	5631.43	39.56	OSF1.50	Pass
9000.00	8922.85	-8.56	-1028.60	5075.00	5085.56	-4071.11	685.01	157.13	5845.13	219.66	5625.47	5697.85	40.36	OSF1.50	Pass
9100.00	9022.85	-8.56	-1028.60	5075.00	5085.56	-4071.11	685.01	157.13	5911.26	217.79	5693.47	5765.23	41.17	OSF1.50	Pass
9200.00	9122.85	-8.56	-1028.60	5075.00	5085.56	-4071.11	685.01	157.13	5978.33	215.94	5762.39	5833.54	42.00	OSF1.50	Pass
9300.00	9222.85	-8.56	-1028.60	5075.00	5085.56	-4071.11	685.01	157.13	6046.31	214.12	5832.19	5902.73	42.84	OSF1.50	Pass
9400.00	9322.85	-8.56	-1028.60	5075.00	5085.56	-4071.11	685.01	157.13	6115.18	212.33	5902.85	5972.79	43.70	OSF1.50	Pass
9500.00	9422.85	-8.56	-1028.60	5075.00	5085.56	-4071.11	685.01	157.13	6184.89	210.57	5974.32	6043.67	44.57	OSF1.50	Pass
9600.00	9522.85	-8.56	-1028.60	5075.00	5085.56	-4071.11	685.01	157.13	6255.42	208.84	6046.58	6115.36	45.46	OSF1.50	Pass
9700.00	9622.85	-8.56	-1028.60	5075.00	5085.56	-4071.11	685.01	157.13	6326.75	207.14	6119.61	6187.82	46.36	OSF1.50	Pass
9800.00	9722.85	-8.56	-1028.60	5075.00	5085.56	-4071.11	685.01	157.13	6398.94	205.49	6193.37	6261.02	47.27	OSF1.50	Pass
9900.00	9822.85	-8.56	-1028.60	5075.00	5085.56	-4071.11	685.01	157.13	6471.68	203.85	6267.83	6334.95	48.19	OSF1.50	Pass
10000.00	9922.85	-8.56	-1028.60	5075.00	5085.56	-4071.11	685.01	157.13	6545.24	202.26	6342.98	6409.57	49.13	OSF1.50	Pass
10100.00	10022.85	-8.56	-1028.60	5075.00	5085.56	-4071.11	685.01	157.13	6619.48	200.70	6418.79	6484.85	50.08	OSF1.50	Pass
10200.00	10122.85	-8.56	-1028.60	5075.00	5085.56	-4071.11	685.01	157.13	6694.40	199.18	6495.23	6560.78	51.04	OSF1.50	Pass
10300.00	10222.85	-8.56	-1028.60	5075.00	5085.56	-4071.11	685.01	157.13	6769.97	197.69	6572.28	6637.34	52.01	OSF1.50	Pass
10400.00	10322.85	-8.56	-1028.60	5075.00	5085.56	-4071.11	685.01	157.13	6846.16	196.25	6649.92	6714.50	52.98	OSF1.50	Pass
10500.00	10422.81	-10.22	-1028.71	5075.00	5085.56	-4071.11	685.01	159.24	6921.98	194.55	6727.43	6791.45	54.04	OSF1.50	Pass
10600.00	10521.35	-26.45	-1029.74	5075.00	5085.56	-4071.11	685.01	162.74	6989.09	192.64	6796.45	6859.83	55.12	OSF1.50	Pass
10700.00	10615.57	-59.51	-1031.86	5075.00	5085.56	-4071.11	685.01	164.99	7044.26	190.48	6853.77	6916.43	56.19	OSF1.50	Pass
10800.00	10702.60	-108.39	-1034.98	5075.00	5085.56	-4071.11	685.01	166.41	7086.09	188.15	6897.94	6959.83	57.23	OSF1.50	Pass
10900.00	10779.81	-171.61	-1039.02	5075.00	5085.56	-4071.11	685.01	167.24	7113.57	185.70	6927.87	6988.94	58.22	OSF1.50	Pass
11000.00	10844.85	-247.25	-1043.85	5075.00	5085.56	-4071.11	685.01	167.60	7126.02	183.21	6942.82	7003.05	59.13	OSF1.50	Pass
11100.00	10895.73	-333.02	-1049.33	5075.00	5085.56	-4071.11	685.01	167.52	7123.16	180.74	6942.42	7001.83	59.92	OSF1.50	Pass
11200.00	10930.92	-426.30	-1055.29	5075.00	5085.56	-4071.11	685.01	166.99	7105.04	178.38	6926.66	6985.29	60.58	OSF1.50	Pass
11300.00	10953.24	-523.60	-1060.50	5075.00	5085.56	-4071.11	685.01	165.93	7075.40	176.12	6899.29	6957.16	61.11	OSF1.50	Pass
11400.00	10967.26	-622.53	-1063.52	5075.00	5085.56	-4071.11	685.01	164.76	7038.78	173.93	6864.85	6922.00	61.57	OSF1.50	Pass
11500.00	10972.89	-722.34	-1064.33	5075.00	5085.56	-4071.11	685.01	163.49	6995.36	171.82	6823.54	6879.98	61.95	OSF1.50	Pass
11600.00	10973.23	-822.34	-1063.75	5075.00	5085.56	-4071.11	685.01	163.31	6948.19	169.77	6778.42	6834.18	62.28	OSF1.50	Pass
11700.00	10973.49	-922.34	-1063.15	5075.00	5085.56	-4071.11	685.01	163.31	6902.07	167.73	6734.34	6789.42	62.64	OSF1.50	Pass
11800.00	10973.75	-1022.33	-1062.55	5075.00	5085.56	-4071.11	685.01	163.31	6857.10	165.71	6691.39	6745.79	63.00	OSF1.50	Pass
11900.00	10974.02	-1122.33	-1061.95	5075.00	5085.56	-4071.11	685.0								

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. Rover Operating Co Wimberly #6 Inc Only to 5075ft - P

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
13900.00	10979.25	-3122.29	-1049.93	5075.00	5085.56	-4071.11	685.01	163.31	6216.58	138.87	6077.72	6123.17	68.35	OSF1.50	Pass
14000.00	10979.52	-3222.28	-1049.33	5075.00	5085.56	-4071.11	685.01	163.31	6202.19	138.93	6063.26	6108.74	68.17	OSF1.50	Pass
14100.00	10979.78	-3322.28	-1048.73	5075.00	5085.56	-4071.11	685.01	163.31	6189.38	139.15	6050.23	6095.78	67.91	OSF1.50	Pass
14200.00	10980.04	-3422.28	-1048.13	5075.00	5085.56	-4071.11	685.01	163.31	6178.16	139.53	6038.63	6084.30	67.60	OSF1.50	Pass
14300.00	10980.30	-3522.28	-1047.53	5075.00	5085.56	-4071.11	685.01	163.31	6168.54	140.08	6028.46	6074.32	67.23	OSF1.50	Pass
14400.00	10980.56	-3622.28	-1046.93	5075.00	5085.56	-4071.11	685.01	163.31	6160.53	140.79	6019.74	6065.83	66.79	OSF1.50	Pass
14500.00	10980.83	-3722.28	-1046.33	5075.00	5085.56	-4071.11	685.01	163.31	6154.14	141.67	6012.47	6058.86	66.31	OSF1.50	Pass
14600.00	10981.09	-3822.27	-1045.72	5075.00	5085.56	-4071.11	685.01	163.31	6149.36	142.70	6006.66	6053.40	65.77	OSF1.50	Pass
14700.00	10981.35	-3922.27	-1045.12	5075.00	5085.56	-4071.11	685.01	163.31	6146.21	143.88	6002.33	6049.46	65.18	OSF1.50	Pass
14800.00	10981.61	-4022.27	-1044.52	5075.00	5085.56	-4071.11	685.01	163.31	6144.68	145.21	5999.47	6047.04	64.56	OSF1.50	Pass
14900.00	10981.87	-4122.27	-1043.92	5075.00	5085.56	-4071.11	685.01	163.31	6144.78	146.68	5998.10	6046.18	63.90	OSF1.50	Pass
15000.00	10982.14	-4222.26	-1043.32	5075.00	5085.56	-4071.11	685.01	163.31	6146.51	148.29	5998.22	6046.82	63.22	OSF1.50	Pass
15100.00	10982.40	-4322.26	-1042.72	5075.00	5085.56	-4071.11	685.01	163.31	6149.86	150.02	5999.84	6049.02	62.51	OSF1.50	Pass
15200.00	10982.66	-4422.26	-1042.12	5075.00	5085.56	-4071.11	685.01	163.31	6154.84	151.88	6002.96	6052.75	61.78	OSF1.50	Pass
15300.00	10982.92	-4522.26	-1041.52	5075.00	5085.56	-4071.11	685.01	163.31	6161.44	153.85	6007.58	6058.04	61.04	OSF1.50	Pass
15400.00	10983.18	-4622.26	-1040.92	5075.00	5085.56	-4071.11	685.01	163.31	6169.65	155.93	6013.72	6064.86	60.29	OSF1.50	Pass
15500.00	10983.45	-4722.25	-1040.32	5075.00	5085.56	-4071.11	685.01	163.31	6179.47	158.10	6021.36	6073.23	59.55	OSF1.50	Pass
15600.00	10983.71	-4822.25	-1039.71	5075.00	5085.56	-4071.11	685.01	163.31	6190.88	160.37	6030.52	6083.14	58.80	OSF1.50	Pass
15700.00	10983.97	-4922.25	-1039.11	5075.00	5085.56	-4071.11	685.01	163.31	6203.89	162.71	6041.18	6094.59	58.06	OSF1.50	Pass
15800.00	10984.23	-5022.25	-1038.51	5075.00	5085.56	-4071.11	685.01	163.31	6218.48	165.12	6053.36	6107.57	57.33	OSF1.50	Pass
15900.00	10984.49	-5122.25	-1037.91	5075.00	5085.56	-4071.11	685.01	163.31	6234.64	167.60	6067.04	6122.07	56.62	OSF1.50	Pass
16000.00	10984.76	-5222.24	-1037.31	5075.00	5085.56	-4071.11	685.01	163.31	6252.36	170.14	6082.22	6138.10	55.92	OSF1.50	Pass
16100.00	10985.02	-5322.24	-1036.71	5075.00	5085.56	-4071.11	685.01	163.31	6271.62	172.72	6098.90	6155.64	55.24	OSF1.50	Pass
16200.00	10985.28	-5422.24	-1036.11	5075.00	5085.56	-4071.11	685.01	163.31	6292.42	175.35	6117.07	6174.68	54.58	OSF1.50	Pass
16300.00	10985.54	-5522.24	-1035.51	5075.00	5085.56	-4071.11	685.01	163.31	6314.72	178.01	6136.72	6195.22	53.95	OSF1.50	Pass
16400.00	10985.80	-5622.23	-1034.91	5075.00	5085.56	-4071.11	685.01	163.31	6338.53	180.70	6157.84	6217.24	53.33	OSF1.50	Pass
16500.00	10986.07	-5722.23	-1034.31	5075.00	5085.56	-4071.11	685.01	163.31	6363.82	183.40	6180.42	6240.72	52.75	OSF1.50	Pass
16600.00	10986.33	-5822.23	-1033.70	5075.00	5085.56	-4071.11	685.01	163.31	6390.58	186.13	6204.45	6265.66	52.18	OSF1.50	Pass
16700.00	10986.59	-5922.23	-1033.10	5075.00	5085.56	-4071.11	685.01	163.31	6418.78	188.86	6229.92	6292.04	51.64	OSF1.50	Pass
16800.00	10986.85	-6022.23	-1032.50	5075.00	5085.56	-4071.11	685.01	163.31	6448.41	191.60	6256.81	6319.84	51.13	OSF1.50	Pass
16900.00	10987.11	-6122.22	-1031.90	5075.00	5085.56	-4071.11	685.01	163.31	6479.44	194.33	6285.11	6349.06	50.64	OSF1.50	Pass
17000.00	10987.38	-6222.22	-1031.30	5075.00	5085.56	-4071.11	685.01	163.31	6511.87	197.07	6314.80	6379.66	50.18	OSF1.50	Pass
17100.00	10987.64	-6322.22	-1030.70	5075.00	5085.56	-4071.11	685.01	163.31	6545.66	199.79	6345.88	6411.64	49.75	OSF1.50	Pass
17200.00	10987.90	-6422.22	-1030.10	5075.00	5085.56	-4071.11	685.01	163.31	6580.80	202.49	6378.31	6444.97	49.34	OSF1.50	Pass
17300.00	10988.16	-6522.22	-1029.50	5075.00	5085.56	-4071.11	685.01	163.31	6617.26	205.18	6412.08	6479.64	48.95	OSF1.50	Pass
17400.00	10988.42	-6622.21	-1028.90	5075.00	5085.56	-4071.11	685.01	163.31	6655.03	207.85	6447.18	6515.63	48.59	OSF1.50	Pass
17500.00	10988.69	-6722.21	-1028.30	5075.00	5085.56	-4071.11	685.01	163.31	6694.08	210.50	6483.58	6552.91	48.26	OSF1.50	Pass
17600.00	10988.95	-6822.21	-1027.69	5075.00	5085.56	-4071.11	685.01	163.31	6734.38	213.12	6521.26	6591.47	47.94	OSF1.50	Pass
17700.00	10989.21	-6922.21	-1027.09	5075.00	5085.56	-4071.11	685.01	163.31	6775.92	215.71	6560.21	6631.28	47.65	OSF1.50	Pass
17800.00	10989.47	-7022.20	-1026.49	5075.00	5085.56	-4071.11	685.01	163.31	6818.68	218.27	6600.41	6672.33	47.38	OSF1.50	Pass
17900.00	10989.73	-7122.20	-1025.89	5075.00	5085.56	-4071.11	685.01	163.31	6862.63	220.80	6641.83	6714.59	47.14	OSF1.50	Pass
18000.00	10990.00	-7222.20	-1025.29	5075.00	5085.56	-4071.11	685.01	163.31	6907.74	223.29	6684.45	6758.04	46.91	OSF1.50	Pass
18100.00	10990.26	-7322.20	-1024.69	5075.00	5085.56	-4071.11	685.01	163.31	6954.00	225.75	6728.25	6802.67	46.71	OSF1.50	Pass
18200.00	10990.52	-7422.20	-1024.09	5075.00	5085.56	-4071.11	685.01	163.31	7001.38	228.17	6773.21	6848.43	46.52	OSF1.50	Pass
18300.00	10990.78	-7522.19	-1023.49	5075.00	5085.56	-4071.11	685.01	163.31	7049.87	230.55	6819.31	6895.33	46.35	OSF1.50	Pass
18400.00	10991.04	-7622.19	-1022.89	5075.00	5085.56	-4071.11	685.01	163.31	7099.43	232.90	6866.53	6943.33	46.20	OSF1.50	Pass
18500.00	10991.31	-7722.19	-1022.29	5075.00	5085.56	-4071.11	685.01	163.31	7150.04	235.20	6914.84	6992.41	46.07	OSF1.50	Pass
18600.00	10991.57	-7822.19	-1021.68	5075.00	5085.56	-4071.11	685.01	163.31	7201.69	237.46	6964.23	7042.55	45.96	OSF1.50	Pass
18700.00	10991.83	-7922.19	-1021.08	5075.00	5085.56	-4071.11	685.01	163.31	7254.35	239.68	7014.66	7093.73	45.86	OSF1.50	Pass
18800.00	10992.09	-8022.18	-1020.48	5075.00	5085.56	-4071.11	685.01	163.31	7308.00	241.87	7066.13	7145.92	45.78	OSF1.50	Pass
18900.00	10992.35	-8122.18	-1019.88	5075.00	5085.56	-4071.11	685.01	163.31	7362.61	244.00	7118.61	7199.11	45.71	OSF1.50	Pass
19000.00	10992.61	-8222.18	-1019.28	5075.00	5085.56	-4071.11	685.01	163.31	7418.17	246.10	7172.07	7253.27	45.66	OSF1.50	Pass
19100.00	10992.88	-8322.18	-1018.68	5075.00	5085.56	-4071.11	685.01	163.31	7474.66	248.16	7226.50	7308.39	45.63	OSF1.50	Pass
19200.00	10993.14	-8422.17	-1018.08	5075.00	5085.56	-4071.11	685.01	163.31	7532.05	250.17	7281.88	7364.43	45.60	OSF1.50	Pass
19300.00	10993.40	-8522.17	-1017.48	5075.00	5085.56	-4071.11	685.01	163.31	7590.32	252.15	7338.18	7421.39	45.59	OSF1.50	Pass
19400.00	10993.66	-8622.17	-1016.88	5075.00	5085.56	-4071.11	685.01	163.31	7649.46	254.08	7395.38	7479.24	45.59	OSF1.50	Pass
19500.00	10993.92	-8722.17	-1016.28	5075.00	5085.56	-4071.11	685.01	163.31	7709.44	255.97	7453.47	7537.96	45.61	OSF1.50	Pass
19600.00	10994.19	-8822.17	-1015.68	5075.00	5085.56	-4071.11	685.01	163.31	7770.25	257.83	7512.42	7597.53	45.63	OSF1.50	Pass
19700.00	10994.45	-8922.16	-1015.07	5075.00	5085.56	-4071.11	685.01	163.31	7831.86	259.64	7572.22	7657.93	45.67	OSF1.50	Pass
19800.00	10994.71	-9022.16	-1014.47	5075.00	5085.56	-4071.11	685.01	163.31	7894.25	261.41	7632.84	7719.14	45.72	OSF1.50	Pass
19900.00	10994.97	-9122.16	-1013.87	5075.00	5085.56	-4071.11	685.01	163.31	7957.42	263.15	7694.27	7781.15	45.78	OSF1.50	Pass
20000.00	10995.23	-9222.16	-1013.27	5075.00	5085.56	-4071.11	685.01	163.31	8021.33	264.85	7756.48	7843.93	45.85	OSF1.50	Pass
20100.00	10995.50	-9322.16	-1012.67	5075.00	5085.56	-4071.11	685.01	163.31	8085.97	266.51	7819.47	7907.47	45.93	OSF1.50	Pass
20200.00	10995.76	-9422.15	-1012.07	5075.00	5085.56	-4071.11	685.01	163.31	8151.33	268.13	7883.20	7971.75	46.02	OSF1.50	Pass
20300.00</															

Field: NM Lea County (NAD 83)
 Structure: MCI Operating Jennings Federal #2 (Offset)
 Slot: MCI Operating Jennings Federal #2 (Offset)
 Client:
 Coordinate System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 North Reference: Grid
 Grid Convergence Angle: 0.36367076°
 Grid Scale Factor: 0.999960075
 Magnetic Declination: 6.727°
 Reference Point: Magnetic Declination Date: January 09, 2019
 Magnetic Model: HDGM 2019
 North: 441810.228 (ftUS)
 Easting: 752324.526 (ftUS)
 Elevation: 3586.000 (ft) MSL
 Structure Unc.: 0.000 (ft) (3 sigma)
 Slot Unc.: 0.000 (ft) (3 sigma)

Trajectory Error Model: ISCSWA0 3-D 95.000% Confidence 2.7955 sigma

Surveying Prog: As Drilled

Description	MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type	Hole Size (in)	Casing Diameter (in)	Borehole / Survey
	0.000	8.000	Act-Slts	A027Ua_INC-ONLY-Depth Only	30.000	30.000	ting Jennings Federal #2 Inc Only to 5000ft - P
	8.000	365.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #2 Inc Only to 5000ft - P
	365.000	365.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #2 Inc Only to 5000ft - P
	365.000	875.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #2 Inc Only to 5000ft - P
	875.000	1125.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #2 Inc Only to 5000ft - P
	1125.000	1659.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #2 Inc Only to 5000ft - P
	1659.000	1659.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #2 Inc Only to 5000ft - P
	1659.000	2081.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #2 Inc Only to 5000ft - P
	2081.000	2081.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #2 Inc Only to 5000ft - P
	2081.000	2480.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #2 Inc Only to 5000ft - P
	2480.000	2775.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #2 Inc Only to 5000ft - P
	2775.000	3293.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #2 Inc Only to 5000ft - P
	3293.000	3293.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #2 Inc Only to 5000ft - P
	3293.000	3665.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #2 Inc Only to 5000ft - P
	3665.000	3665.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #2 Inc Only to 5000ft - P
	3665.000	4075.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #2 Inc Only to 5000ft - P
	4075.000	4075.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #2 Inc Only to 5000ft - P
	4075.000	4591.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #2 Inc Only to 5000ft - P
	4591.000	5000.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #2 Inc Only to 5000ft - P

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
0.00	0.00	0.00	0.00	0.00	54.60	-9149.77	-734.05	184.59	9179.33	32.81	9146.52	9176.83	N/A	10.00 (m)	Pass
100.00	100.00	0.00	0.00	44.24	98.84	-9149.77	-734.09	184.59	9179.17	32.81	9146.37	9175.97	13000.92	10.00 (m)	Pass
200.00	200.00	0.00	0.00	141.67	196.27	-9149.77	-734.41	184.59	9179.20	32.81	9146.39	9174.11	3542.46	10.00 (m)	Pass
300.00	300.00	0.00	0.00	239.10	293.70	-9149.77	-735.08	184.59	9179.25	32.81	9146.45	9171.52	1753.04	10.00 (m)	Pass
400.00	400.00	0.00	0.00	336.52	391.12	-9149.77	-736.09	184.60	9179.34	32.81	9146.53	9167.94	1031.13	10.00 (m)	Pass
500.00	500.00	0.00	0.00	423.20	477.78	-9149.82	-737.16	184.61	9179.49	32.81	9146.68	9164.76	750.17	10.00 (m)	Pass
600.00	599.99	-0.87	0.00	505.43	560.01	-9150.03	-738.03	184.61	9178.96	32.81	9146.15	9161.06	595.79	10.00 (m)	Pass
700.00	699.98	-2.62	0.00	587.67	642.25	-9150.41	-738.72	184.62	9177.75	32.81	9144.94	9156.77	496.37	10.00 (m)	Pass
800.00	799.96	-4.36	0.00	669.91	724.49	-9150.97	-739.24	184.62	9176.74	34.76	9141.97	9152.73	426.54	OSF1.50	Pass
900.00	899.95	-6.11	0.00	752.16	806.73	-9151.70	-739.59	184.62	9175.92	39.26	9136.65	9148.91	374.29	OSF1.50	Pass
1000.00	999.93	-7.85	0.00	834.42	898.98	-9152.60	-739.76	184.62	9175.29	43.75	9131.54	9145.29	333.52	OSF1.50	Pass
1100.00	1099.92	-9.60	0.00	915.92	1040.47	-9154.24	-739.24	184.62	9174.67	51.28	9123.39	9139.65	282.06	OSF1.50	Pass
1200.00	1199.90	-11.34	0.00	1180.51	1235.03	-9154.68	-735.91	184.60	9172.97	60.61	9112.37	9131.74	236.73	OSF1.50	Pass
1300.00	1299.89	-13.09	0.00	1332.77	1387.27	-9153.86	-733.40	184.59	9170.57	68.01	9102.55	9124.39	209.91	OSF1.50	Pass
1400.00	1399.87	-14.83	0.00	1485.01	1539.49	-9152.10	-731.85	184.58	9167.59	75.68	9091.91	9116.30	187.87	OSF1.50	Pass
1500.00	1499.86	-16.58	0.00	1637.20	1691.65	-9149.39	-731.24	184.58	9164.04	83.53	9080.51	9107.52	169.59	OSF1.50	Pass
1600.00	1599.83	-18.11	-1.73	1715.41	1769.85	-9147.77	-731.33	184.52	9160.35	87.76	9072.59	9101.01	161.12	OSF1.50	Pass
1700.00	1699.68	-19.20	-6.92	1781.23	1835.66	-9146.64	-731.69	184.45	9157.18	91.38	9065.80	9095.42	154.50	OSF1.50	Pass
1800.00	1799.30	-19.86	-15.57	1846.96	1901.38	-9145.73	-732.33	184.39	9154.55	95.00	9059.55	9090.38	148.41	OSF1.50	Pass
1900.00	1898.56	-20.08	-27.66	1912.54	1966.95	-9145.05	-733.22	184.32	9152.46	98.60	9053.86	9085.89	142.81	OSF1.50	Pass
2000.00	1997.44	-19.94	-42.59	1977.97	2032.36	-9144.59	-734.39	184.26	9150.90	102.21	9048.69	9081.93	137.63	OSF1.50	Pass
2100.00	2096.27	-19.77	-57.80	2043.44	2097.82	-9144.35	-735.81	184.21	9149.74	105.86	9043.88	9078.34	132.75	OSF1.50	Pass
2200.00	2195.11	-19.59	-73.01	2105.13	2159.49	-9144.34	-737.37	184.16	9148.97	109.31	9039.66	9075.27	128.45	OSF1.50	Pass
2300.00	2293.95	-19.42	-88.22	2161.63	2215.97	-9144.60	-738.65	184.11	9148.67	112.50	9036.17	9072.84	124.72	OSF1.50	Pass
2400.00	2392.78	-19.24	-103.44	2218.06	2272.39	-9145.14	-739.73	184.06	9148.85	115.69	9033.16	9070.89	121.21	OSF1.50	Pass
2500.00	2491.62	-19.07	-118.65	2274.42	2328.74	-9145.96	-740.59	184.02	9149.51	118.86	9030.65	9069.43	117.92	OSF1.50	Pass
2600.00	2590.45	-18.89	-133.86	2330.72	2385.03	-9147.05	-741.25	183.97	9150.65	121.95	9028.69	9068.51	114.87	OSF1.50	Pass
2700.00	2689.29	-18.71	-149.07	2386.95	2441.23	-9148.41	-741.69	183.91	9152.27	125.06	9027.22	9068.07	111.99	OSF1.50	Pass
2800.00	2788.13	-18.54	-164.28	2443.09	2497.36	-9150.05	-741.93	183.86	9154.39	128.16	9026.23	9068.11	109.25	OSF1.50	Pass
2900.00	2886.96	-18.36	-179.49	2499.24	2553.26	-9151.52	-739.69	183.26	9154.28	155.92	8998.37	9049.51	89.48	OSF1.50	Pass
3000.00	2985.80	-18.19	-194.71	2555.00	2609.19	-9146.54	-727.79	182.97	9150.75	170.78	8979.97	9036.06	81.54	OSF1.50	Pass
3100.00	3084.64	-18.01	-209.92	3341.16	3395.01	-9144.49	-727.87	182.92	9146.43	174.03	8972.40	9029.58	79.96	OSF1.50	Pass
3200.00	3183.47	-17.84	-225.13	3390.60	3444.43	-9142.93	-728.12	182.88	9142.67	176.98	8965.70	9023.86	78.58	OSF1.50	Pass
3300.00	3282.31	-17.66	-240.34	3440.11	3493.92	-9141.63	-728.55	182.83	9139.47	179.92	8959.54	9018.69	77.25	OSF1.50	Pass
3400.00	3381.14	-17.48	-255.55	3489.69	3543.48	-9140.58	-729.15	182.79	9136.82	182.80	8954.02	9014.12	75.99	OSF1.50	Pass
3500.00	3479.98	-17.31	-270.76	3539.31	3593.09	-9139.79	-729.92	182.75	9134.73	185.68	8949.05	9010.11	74.78	OSF1.50	Pass
3600.00	3578.82	-17.13	-285.97	3589.00	3642.76	-9139.26	-730.87	182.71	9133.19	188.45	8944.74	9006.73	73.65	OSF1.50	Pass
3700.00	3677.65	-16.96	-301.19	3638.73	3692.48	-9138.99	-731.99	182.67	9132.21	191.22	8941.00	9003.90	72.57	OSF1.50	Pass
3800.00	3776.49	-16.78	-316.40	3693.33	3747.06	-9138.99	-733.37	182.62	9131.78	194.19	8937.59	9001.49	71.44	OSF1.50	Pass
3900.00	3875.32	-16.61	-331.61	3753.30	3807.02	-9139.25	-734.72	182.57	9131.80	197.38	8934.42	8999.38	70.27	OSF1.50	Pass
4000.00	3974.16	-16.43	-346.82	3813.20	3866.90	-9139.77	-735.84	182.52	9132.26	200.57	8931.69	8997.71	69.14	OSF1.50	Pass
4100.00	4073.00	-16.26	-362.03	3873.03	3926.72	-9140.57	-736.72	182.47	9133.17	203.72	8929.45	8996.53	68.06	OSF1.50	Pass
4200.00	4171.83	-16.08	-377.24	3932.79	3986.47	-9141.63	-737.38	182.42	9134.53	206.84	8927.69	8995.80	67.03	OSF1.50	Pass
4300.00	4270.67	-15.90	-392.46	3992.47	4046.14	-9142.95	-737.81	182.36	9136.34	209.93	8926.41	8995.58	66.05	OSF1.50	Pass
4400.00	4369.50	-15.73	-407.67	4052.07	4105.71	-9144.54	-738.01	182.31	9138.59	213.01	8925.58	8995.75	65.10	OSF1.50	Pass
4500.00	4468.34	-15.55	-422.88	4213.63	4267.22	-9148.88	-737.37	182.15	9140.96	221.17	8919.79	8992.68	62.69	OSF1.50	Pass
4600.00	4567.18	-15.38	-438.09	4780.21	4833.57	-9148.82	-726.53	181.54	9141.88	250.31	8891.57	8974.17	55.32	OSF1.50	Pass
4700.00	4666.01	-15.20	-453.30	4809.18	4862.52	-9148.08	-726.84	181.52	9139.08	252.05	8887.04	8970.22	54.92	OSF1.50	Pass
4800.00	4764.85	-15.03	-468.51	4838.20	4891.54	-9147.55	-727.31	181.49	9137.07	253.78	8883.29	8967.05	54.53	OSF1.50	Pass
4900.00	4863.69	-14.85	-483.73	4920.61	4920.61	-9147.24	-727.96	181.47	9135.83	255.50	8880.34	8964.67	54.15	OSF1.50	Pass
5000.00	4962.52	-14.67	-498.94	4902.76	4956.07	-9147.15	-728.96	181.44	9135.37	257.52	8877.85	8962.86	53.72	OSF1.50	Pass

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Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. MCI Operating Jennings Federal #2 Inc Only to 5000ft - P

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
5100.00	5061.36	-14.50	-514.15	5000.00	5053.30	-9147.15	-730.32	181.36	9135.21	262.59	8872.62	8959.32	52.67	OSF1.50	Pass
5200.00	5160.19	-14.32	-529.36	5000.00	5053.30	-9147.15	-730.32	181.36	9135.66	262.86	8872.80	8959.59	52.62	OSF1.50	Pass
5300.00	5259.03	-14.15	-544.57	5000.00	5053.30	-9147.15	-730.32	181.36	9137.21	263.10	8874.10	8960.97	52.58	OSF1.50	Pass
5400.00	5357.87	-13.97	-559.78	5000.00	5053.30	-9147.15	-730.32	181.36	9139.84	263.32	8876.52	8963.46	52.55	OSF1.50	Pass
5500.00	5456.70	-13.80	-574.99	5000.00	5053.30	-9147.15	-730.32	181.36	9143.58	263.52	8880.06	8967.06	52.53	OSF1.50	Pass
5600.00	5555.54	-13.62	-590.21	5000.00	5053.30	-9147.15	-730.32	181.36	9148.40	263.69	8884.71	8971.77	52.52	OSF1.50	Pass
5700.00	5654.37	-13.45	-605.42	5000.00	5053.30	-9147.15	-730.32	181.36	9154.31	263.84	8890.47	8977.58	52.53	OSF1.50	Pass
5800.00	5753.21	-13.27	-620.63	5000.00	5053.30	-9147.15	-730.32	181.36	9161.31	263.97	8897.34	8984.50	52.54	OSF1.50	Pass
5900.00	5852.05	-13.09	-635.84	5000.00	5053.30	-9147.15	-730.32	181.36	9169.40	264.08	8905.32	8992.51	52.57	OSF1.50	Pass
6000.00	5950.88	-12.92	-651.05	5000.00	5053.30	-9147.15	-730.32	181.36	9178.57	264.16	8914.41	9001.63	52.60	OSF1.50	Pass
6100.00	6049.72	-12.74	-666.26	5000.00	5053.30	-9147.15	-730.32	181.36	9188.81	264.22	8924.60	9011.84	52.65	OSF1.50	Pass
6200.00	6148.55	-12.57	-681.48	5000.00	5053.30	-9147.15	-730.32	181.36	9200.14	264.25	8936.89	9023.14	52.71	OSF1.50	Pass
6300.00	6247.39	-12.39	-696.69	5000.00	5053.30	-9147.15	-730.32	181.36	9212.53	264.27	8948.27	9035.52	52.78	OSF1.50	Pass
6400.00	6346.23	-12.22	-711.90	5000.00	5053.30	-9147.15	-730.32	181.36	9226.00	264.26	8961.74	9048.99	52.86	OSF1.50	Pass
6500.00	6445.06	-12.04	-727.11	5000.00	5053.30	-9147.15	-730.32	181.36	9240.52	264.23	8976.29	9063.54	52.94	OSF1.50	Pass
6600.00	6543.90	-11.87	-742.32	5000.00	5053.30	-9147.15	-730.32	181.36	9256.10	264.17	8991.93	9079.15	53.04	OSF1.50	Pass
6700.00	6642.74	-11.69	-757.53	5000.00	5053.30	-9147.15	-730.32	181.36	9272.74	264.10	9008.64	9095.84	53.15	OSF1.50	Pass
6800.00	6741.57	-11.51	-772.75	5000.00	5053.30	-9147.15	-730.32	181.36	9290.42	264.01	9026.41	9113.58	53.28	OSF1.50	Pass
6900.00	6840.41	-11.34	-787.96	5000.00	5053.30	-9147.15	-730.32	181.36	9309.14	263.89	9045.25	9132.38	53.41	OSF1.50	Pass
7000.00	6939.24	-11.16	-803.17	5000.00	5053.30	-9147.15	-730.32	181.36	9328.90	263.76	9065.14	9152.23	53.55	OSF1.50	Pass
7100.00	7038.08	-10.99	-818.38	5000.00	5053.30	-9147.15	-730.32	181.36	9349.68	263.60	9086.08	9173.11	53.70	OSF1.50	Pass
7200.00	7136.92	-10.81	-833.59	5000.00	5053.30	-9147.15	-730.32	181.36	9371.49	263.43	9108.06	9195.04	53.86	OSF1.50	Pass
7300.00	7235.75	-10.64	-848.80	5000.00	5053.30	-9147.15	-730.32	181.36	9394.31	263.23	9131.07	9217.99	54.03	OSF1.50	Pass
7400.00	7334.59	-10.46	-864.01	5000.00	5053.30	-9147.15	-730.32	181.36	9418.13	263.02	9155.11	9241.95	54.21	OSF1.50	Pass
7500.00	7433.42	-10.28	-879.23	5000.00	5053.30	-9147.15	-730.32	181.36	9442.96	262.79	9180.17	9266.93	54.40	OSF1.50	Pass
7600.00	7532.26	-10.11	-894.44	5000.00	5053.30	-9147.15	-730.32	181.36	9468.77	262.54	9206.23	9292.91	54.60	OSF1.50	Pass
7700.00	7631.10	-9.93	-909.65	5000.00	5053.30	-9147.15	-730.32	181.36	9495.57	262.28	9233.29	9319.89	54.81	OSF1.50	Pass
7800.00	7729.93	-9.76	-924.86	5000.00	5053.30	-9147.15	-730.32	181.36	9523.35	262.00	9261.35	9347.85	55.03	OSF1.50	Pass
7900.00	7828.77	-9.58	-940.07	5000.00	5053.30	-9147.15	-730.32	181.36	9552.09	261.70	9290.38	9376.79	55.26	OSF1.50	Pass
8000.00	7927.60	-9.41	-955.28	5000.00	5053.30	-9147.15	-730.32	181.36	9581.78	261.39	9320.39	9406.69	55.50	OSF1.50	Pass
8100.00	8026.44	-9.23	-970.50	5000.00	5053.30	-9147.15	-730.32	181.36	9612.43	261.06	9351.37	9437.55	55.75	OSF1.50	Pass
8200.00	8125.28	-9.06	-985.71	5000.00	5053.30	-9147.15	-730.32	181.36	9644.01	260.72	9383.29	9469.37	56.01	OSF1.50	Pass
8300.00	8224.15	-8.88	-1000.68	5000.00	5053.30	-9147.15	-730.32	181.10	9676.53	260.36	9416.17	9502.12	56.27	OSF1.50	Pass
8400.00	8323.40	-8.74	-1012.88	5000.00	5053.30	-9147.15	-730.32	180.39	9709.99	259.97	9450.02	9535.84	56.56	OSF1.50	Pass
8500.00	8423.01	-8.64	-1021.60	5000.00	5053.30	-9147.15	-730.32	179.66	9744.34	259.53	9484.81	9570.49	56.85	OSF1.50	Pass
8600.00	8522.87	-8.58	-1026.84	5000.00	5053.30	-9147.15	-730.32	178.90	9779.53	259.04	9520.49	9606.00	57.17	OSF1.50	Pass
8700.00	8622.85	-8.56	-1028.60	5000.00	5053.30	-9147.15	-730.32	178.13	9815.52	258.52	9557.00	9642.34	57.49	OSF1.50	Pass
8800.00	8722.85	-8.56	-1028.60	5000.00	5053.30	-9147.15	-730.32	178.13	9852.33	257.95	9594.37	9679.52	57.84	OSF1.50	Pass
8900.00	8822.85	-8.56	-1028.60	5000.00	5053.30	-9147.15	-730.32	178.13	9890.01	257.38	9632.63	9717.59	58.19	OSF1.50	Pass
9000.00	8922.85	-8.56	-1028.60	5000.00	5053.30	-9147.15	-730.32	178.13	9928.55	256.79	9671.76	9756.52	58.55	OSF1.50	Pass
9100.00	9022.85	-8.56	-1028.60	5000.00	5053.30	-9147.15	-730.32	178.13	9967.95	256.20	9711.75	9796.32	58.92	OSF1.50	Pass
9200.00	9122.85	-8.56	-1028.60	5000.00	5053.30	-9147.15	-730.32	178.13	10008.20	255.60	9752.60	9836.96	59.30	OSF1.50	Pass
9300.00	9222.85	-8.56	-1028.60	5000.00	5053.30	-9147.15	-730.32	178.13	10049.27	254.99	9794.29	9878.45	59.69	OSF1.50	Pass
9400.00	9322.85	-8.56	-1028.60	5000.00	5053.30	-9147.15	-730.32	178.13	10091.17	254.37	9836.61	9920.76	60.08	OSF1.50	Pass
9500.00	9422.85	-8.56	-1028.60	5000.00	5053.30	-9147.15	-730.32	178.13	10133.89	253.74	9880.15	9963.89	60.49	OSF1.50	Pass
9600.00	9522.85	-8.56	-1028.60	5000.00	5053.30	-9147.15	-730.32	178.13	10177.41	253.11	9924.29	10007.83	60.90	OSF1.50	Pass
9700.00	9622.85	-8.56	-1028.60	5000.00	5053.30	-9147.15	-730.32	178.13	10221.72	252.48	9969.24	10052.57	61.32	OSF1.50	Pass
9800.00	9722.85	-8.56	-1028.60	5000.00	5053.30	-9147.15	-730.32	178.13	10266.81	251.84	10014.98	10098.09	61.75	OSF1.50	Pass
9900.00	9822.85	-8.56	-1028.60	5000.00	5053.30	-9147.15	-730.32	178.13	10312.68	251.19	10061.49	10144.38	62.19	OSF1.50	Pass
10000.00	9922.85	-8.56	-1028.60	5000.00	5053.30	-9147.15	-730.32	178.13	10359.31	250.55	10108.76	10191.44	62.63	OSF1.50	Pass
10100.00	10022.85	-8.56	-1028.60	5000.00	5053.30	-9147.15	-730.32	178.13	10406.69	249.90	10156.79	10239.26	63.08	OSF1.50	Pass
10200.00	10122.85	-8.56	-1028.60	5000.00	5053.30	-9147.15	-730.32	178.13	10454.81	249.24	10205.57	10287.82	63.54	OSF1.50	Pass
10300.00	10222.85	-8.56	-1028.60	5000.00	5053.30	-9147.15	-730.32	178.13	10503.67	248.59	10255.08	10337.11	64.01	OSF1.50	Pass
10400.00	10322.85	-8.56	-1028.60	5000.00	5053.30	-9147.15	-730.32	178.13	10553.24	247.94	10305.30	10387.12	64.48	OSF1.50	Pass
10500.00	10422.81	-10.22	-1028.71	5000.00	5053.30	-9147.15	-730.32	178.35	10602.08	247.03	10355.05	10436.56	65.02	OSF1.50	Pass
10600.00	10521.35	-26.45	-1029.74	5000.00	5053.30	-9147.15	-730.32	178.70	10638.44	245.93	10392.51	10473.65	65.54	OSF1.50	Pass
10700.00	10615.57	-59.51	-1031.86	5000.00	5053.30	-9147.15	-730.32	178.88	10659.03	244.75	10414.28	10495.03	65.98	OSF1.50	Pass
10800.00	10702.60	-108.39	-1034.98	5000.00	5053.30	-9147.15	-730.32	178.92	10663.33	243.53	10419.80	10500.14	66.34	OSF1.50	Pass
10900.00	10779.81	-171.61	-1039.02	5000.00	5053.30	-9147.15	-730.32	178.81	10651.22	242.31	10408.91	10488.85	66.61	OSF1.50	Pass
11000.00	10844.85	-247.25	-1043.85	5000.00	5053.30	-9147.15	-730.32	178.56	10623.01	241.11	10381.91	10461.44	66.77	OSF1.50	Pass
11100.00	10895.73	-333.02	-1049.33	5000.00	5053.30	-9147.15	-730.32	178.11	10579.45	239.97	10339.48	10418.63	66.81	OSF1.50	Pass
11200.00	10930.92	-426.30	-1055.29	5000.00	5053.30	-9147.15	-730.32	177.38	10521.66	238.93	10282.73	10361.54	66.74	OSF1.50	Pass
11300.00	10953.24	-523.60	-1060.50	5000.00	5053.30	-9147.15	-730.32	177.04	10453.89	237.98	10215.91	10294.41	66.57	OSF1.50	Pass
11400.00	10967.26	-622.53	-1063.52	5000.00	5053.30	-9147.15	-730.32	176.87	10380.51	237.09	10143.43	10221.62	66.36	OSF1.50	Pass
11500.00	10972.89	-722.34	-1064.33	5000.00	5053.30	-9147.15	-730.32	176.90	10301.97	236.25	10065.71	10143.63	66.09	OSF1.50	Pass
11600.00	10973.23	-822.34	-1063.												

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. MCI Operating Jennings Federal #2 Inc Only to 5000ft - P

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
13600.00	10978.47	-2822.29	-1051.73	5000.00	5053.30	-9147.15	-730.32	176.92	8672.64	217.68	8454.96	8526.69	60.44	OSF1.50	Pass
13700.00	10978.73	-2922.29	-1051.13	5000.00	5053.30	-9147.15	-730.32	176.92	8600.14	216.72	8383.42	8454.83	60.20	OSF1.50	Pass
13800.00	10978.99	-3022.29	-1050.53	5000.00	5053.30	-9147.15	-730.32	176.92	8528.20	215.76	8312.44	8383.53	59.97	OSF1.50	Pass
13900.00	10979.25	-3122.29	-1049.93	5000.00	5053.30	-9147.15	-730.32	176.92	8456.83	214.80	8242.03	8312.80	59.73	OSF1.50	Pass
14000.00	10979.52	-3222.29	-1049.33	5000.00	5053.30	-9147.15	-730.32	176.92	8386.05	213.84	8172.21	8242.66	59.50	OSF1.50	Pass
14100.00	10979.78	-3322.28	-1048.73	5000.00	5053.30	-9147.15	-730.32	176.92	8315.86	212.88	8102.99	8173.11	59.28	OSF1.50	Pass
14200.00	10980.04	-3422.28	-1048.13	5000.00	5053.30	-9147.15	-730.32	176.92	8246.29	211.91	8034.38	8104.19	59.05	OSF1.50	Pass
14300.00	10980.30	-3522.28	-1047.53	5000.00	5053.30	-9147.15	-730.32	176.92	8177.35	210.95	7966.40	8035.89	58.83	OSF1.50	Pass
14400.00	10980.56	-3622.28	-1046.93	5000.00	5053.30	-9147.15	-730.32	176.92	8109.06	209.99	7899.07	7968.23	58.60	OSF1.50	Pass
14500.00	10980.83	-3722.28	-1046.33	5000.00	5053.30	-9147.15	-730.32	176.92	8041.44	209.04	7832.40	7901.24	58.38	OSF1.50	Pass
14600.00	10981.09	-3822.27	-1045.72	5000.00	5053.30	-9147.15	-730.32	176.92	7974.49	208.09	7766.40	7834.93	58.16	OSF1.50	Pass
14700.00	10981.35	-3922.27	-1045.12	5000.00	5053.30	-9147.15	-730.32	176.92	7906.24	207.15	7701.09	7769.30	57.95	OSF1.50	Pass
14800.00	10981.61	-4022.27	-1044.52	5000.00	5053.30	-9147.15	-730.32	176.92	7842.70	206.22	7636.49	7704.39	57.73	OSF1.50	Pass
14900.00	10981.87	-4122.27	-1043.92	5000.00	5053.30	-9147.15	-730.32	176.92	7777.90	205.30	7572.61	7640.21	57.51	OSF1.50	Pass
15000.00	10982.14	-4222.26	-1043.32	5000.00	5053.30	-9147.15	-730.32	176.92	7713.85	204.39	7509.47	7576.76	57.29	OSF1.50	Pass
15100.00	10982.40	-4322.26	-1042.72	5000.00	5053.30	-9147.15	-730.32	176.92	7650.58	203.49	7447.08	7514.08	57.08	OSF1.50	Pass
15200.00	10982.66	-4422.26	-1042.12	5000.00	5053.30	-9147.15	-730.32	176.92	7588.09	202.61	7385.48	7452.18	56.86	OSF1.50	Pass
15300.00	10982.92	-4522.26	-1041.52	5000.00	5053.30	-9147.15	-730.32	176.92	7526.41	201.75	7324.66	7391.08	56.64	OSF1.50	Pass
15400.00	10983.18	-4622.26	-1040.92	5000.00	5053.30	-9147.15	-730.32	176.92	7465.56	200.91	7264.65	7330.79	56.42	OSF1.50	Pass
15500.00	10983.45	-4722.25	-1040.32	5000.00	5053.30	-9147.15	-730.32	176.92	7405.57	200.10	7205.47	7271.34	56.20	OSF1.50	Pass
15600.00	10983.71	-4822.25	-1039.71	5000.00	5053.30	-9147.15	-730.32	176.92	7346.44	199.31	7147.13	7212.74	55.97	OSF1.50	Pass
15700.00	10983.97	-4922.25	-1039.11	5000.00	5053.30	-9147.15	-730.32	176.92	7288.21	198.55	7089.66	7155.01	55.74	OSF1.50	Pass
15800.00	10984.23	-5022.25	-1038.51	5000.00	5053.30	-9147.15	-730.32	176.92	7230.89	197.82	7033.07	7098.18	55.51	OSF1.50	Pass
15900.00	10984.49	-5122.25	-1037.91	5000.00	5053.30	-9147.15	-730.32	176.92	7174.51	197.12	6977.39	7042.26	55.28	OSF1.50	Pass
16000.00	10984.76	-5222.24	-1037.31	5000.00	5053.30	-9147.15	-730.32	176.92	7119.08	196.46	6922.62	6987.27	55.04	OSF1.50	Pass
16100.00	10985.02	-5322.24	-1036.71	5000.00	5053.30	-9147.15	-730.32	176.92	7064.64	195.84	6868.79	6933.24	54.79	OSF1.50	Pass
16200.00	10985.28	-5422.24	-1036.11	5000.00	5053.30	-9147.15	-730.32	176.92	7011.19	195.26	6815.93	6880.18	54.54	OSF1.50	Pass
16300.00	10985.54	-5522.24	-1035.51	5000.00	5053.30	-9147.15	-730.32	176.92	6958.78	194.74	6764.04	6828.12	54.28	OSF1.50	Pass
16400.00	10985.80	-5622.23	-1034.91	5000.00	5053.30	-9147.15	-730.32	176.92	6907.42	194.26	6713.16	6777.08	54.01	OSF1.50	Pass
16500.00	10986.07	-5722.23	-1034.31	5000.00	5053.30	-9147.15	-730.32	176.92	6857.13	193.83	6663.29	6727.07	53.74	OSF1.50	Pass
16600.00	10986.33	-5822.23	-1033.70	5000.00	5053.30	-9147.15	-730.32	176.92	6807.93	193.46	6614.47	6678.12	53.46	OSF1.50	Pass
16700.00	10986.59	-5922.23	-1033.10	5000.00	5053.30	-9147.15	-730.32	176.92	6759.86	193.15	6566.71	6630.26	53.16	OSF1.50	Pass
16800.00	10986.85	-6022.23	-1032.50	5000.00	5053.30	-9147.15	-730.32	176.92	6712.93	192.91	6520.03	6583.50	52.86	OSF1.50	Pass
16900.00	10987.11	-6122.22	-1031.90	5000.00	5053.30	-9147.15	-730.32	176.92	6667.18	192.73	6474.45	6537.86	52.55	OSF1.50	Pass
17000.00	10987.38	-6222.22	-1031.30	5000.00	5053.30	-9147.15	-730.32	176.92	6622.62	192.62	6429.99	6493.37	52.23	OSF1.50	Pass
17100.00	10987.64	-6322.22	-1030.70	5000.00	5053.30	-9147.15	-730.32	176.92	6579.27	192.59	6386.68	6450.04	51.90	OSF1.50	Pass
17200.00	10987.90	-6422.22	-1030.10	5000.00	5053.30	-9147.15	-730.32	176.92	6537.17	192.63	6344.54	6407.91	51.55	OSF1.50	Pass
17300.00	10988.16	-6522.22	-1029.50	5000.00	5053.30	-9147.15	-730.32	176.92	6496.33	192.76	6303.58	6367.00	51.20	OSF1.50	Pass
17400.00	10988.42	-6622.21	-1028.90	5000.00	5053.30	-9147.15	-730.32	176.92	6456.79	192.96	6263.83	6327.31	50.83	OSF1.50	Pass
17500.00	10988.69	-6722.21	-1028.30	5000.00	5053.30	-9147.15	-730.32	176.92	6418.56	193.25	6225.31	6288.89	50.45	OSF1.50	Pass
17600.00	10988.95	-6822.21	-1027.69	5000.00	5053.30	-9147.15	-730.32	176.92	6381.67	193.63	6188.03	6251.75	50.06	OSF1.50	Pass
17700.00	10989.21	-6922.21	-1027.09	5000.00	5053.30	-9147.15	-730.32	176.92	6346.14	194.10	6152.04	6215.90	49.66	OSF1.50	Pass
17800.00	10989.47	-7022.20	-1026.49	5000.00	5053.30	-9147.15	-730.32	176.92	6311.99	194.66	6117.33	6181.38	49.25	OSF1.50	Pass
17900.00	10989.73	-7122.20	-1025.89	5000.00	5053.30	-9147.15	-730.32	176.92	6279.25	195.32	6083.94	6148.21	48.83	OSF1.50	Pass
18000.00	10990.00	-7222.20	-1025.29	5000.00	5053.30	-9147.15	-730.32	176.92	6247.94	196.06	6051.88	6116.40	48.40	OSF1.50	Pass
18100.00	10990.26	-7322.20	-1024.69	5000.00	5053.30	-9147.15	-730.32	176.92	6218.08	196.91	6021.18	6085.98	47.96	OSF1.50	Pass
18200.00	10990.52	-7422.20	-1024.09	5000.00	5053.30	-9147.15	-730.32	176.92	6189.70	197.85	5991.85	6056.96	47.51	OSF1.50	Pass
18300.00	10990.78	-7522.19	-1023.49	5000.00	5053.30	-9147.15	-730.32	176.92	6162.80	198.88	5963.92	6029.38	47.05	OSF1.50	Pass
18400.00	10991.04	-7622.19	-1022.89	5000.00	5053.30	-9147.15	-730.32	176.92	6137.42	200.01	5937.40	6003.24	46.59	OSF1.50	Pass
18500.00	10991.31	-7722.19	-1022.29	5000.00	5053.30	-9147.15	-730.32	176.92	6113.56	201.24	5912.33	5978.57	46.12	OSF1.50	Pass
18600.00	10991.57	-7822.19	-1021.68	5000.00	5053.30	-9147.15	-730.32	176.92	6091.26	202.56	5888.70	5955.39	45.65	OSF1.50	Pass
18700.00	10991.83	-7922.19	-1021.08	5000.00	5053.30	-9147.15	-730.32	176.92	6070.52	203.97	5866.55	5933.71	45.18	OSF1.50	Pass
18800.00	10992.09	-8022.18	-1020.48	5000.00	5053.30	-9147.15	-730.32	176.92	6051.36	205.47	5845.89	5913.55	44.70	OSF1.50	Pass
18900.00	10992.35	-8122.18	-1019.88	5000.00	5053.30	-9147.15	-730.32	176.92	6033.80	207.06	5826.75	5894.93	44.23	OSF1.50	Pass
19000.00	10992.61	-8222.18	-1019.28	5000.00	5053.30	-9147.15	-730.32	176.92	6017.85	208.73	5809.12	5877.86	43.75	OSF1.50	Pass
19100.00	10992.88	-8322.18	-1018.68	5000.00	5053.30	-9147.15	-730.32	176.92	6003.52	210.48	5793.04	5862.37	43.28	OSF1.50	Pass
19200.00	10993.14	-8422.17	-1018.08	5000.00	5053.30	-9147.15	-730.32	176.92	5990.83	212.32	5778.51	5848.45	42.81	OSF1.50	Pass
19300.00	10993.40	-8522.17	-1017.48	5000.00	5053.30	-9147.15	-730.32	176.92	5979.79	214.23	5765.56	5836.13	42.35	OSF1.50	Pass
19400.00	10993.66	-8622.17	-1016.88	5000.00	5053.30	-9147.15	-730.32	176.92	5970.40	216.21	5754.19	5825.42	41.89	OSF1.50	Pass
19500.00	10993.92	-8722.17	-1016.28	5000.00	5053.30	-9147.15	-730.32	176.92	5962.67	218.26	5744.41	5816.33	41.44	OSF1.50	Pass
19600.00	10994.19	-8822.17	-1015.68	5000.00	5053.30	-9147.15	-730.32	176.92	5956.61	220.37	5736.24	5808.86	40.99	OSF1.50	Pass
19700.00	10994.45	-8922.16	-1015.07	5000.00	5053.30	-9147.15	-730.32	176.92	5952.22	222.53	5729.69	5803.03	40.56	OSF1.50	Pass
19800.00	10994.71	-9022.16	-1014.47	5000.00	5053.30	-9147.15	-730.32	176.92	5949.51	224.75	5724.76	5798.85	40.14	OSF1.50	Pass
19900.00	10994.97	-9122.16	-1013.87	5000.00	5053.30	-9147.15	-730.32	176.92	5948.40	227.02	5721.47	5796.31	39.72	OSF1.50	Pass
20000.00															

Field: NM Lea County (NAD 83)
 Structure: MCI Operating Jennings Federal #4 (Offset)
 Slot: MCI Operating Jennings Federal #4 (Offset)
 Client:
 Coordinate System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 North Reference: Grid
 Grid Convergence Angle: 0.36503141°
 Grid Scale Factor: 0.999960445
 Magnetic Declination: 6.664°
 Reference Point: Magnetic Declination Date: August 26, 2019
 Magnetic Model: HDGM 2019
 Northing: 442916.987 (ftUS)
 Easting: 753089.097 (ftUS)
 Elevation: 3622.000 (ft) MSL
 Structure Unc.: 0.000 (ft) (3 sigma)
 Slot Unc.: 0.000 (ft) (3 sigma)

Trajectory Error Model: ISCSWA0 3-D 95.000% Confidence 2.7955 sigma

Surveying Prog: As Drilled

Description	MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type	Hole Size (in)	Casing Diameter (in)	Borehole / Survey
	0.000	0.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #4 Inc Only to 5000ft - P
	0.000	843.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #4 Inc Only to 5000ft - P
	843.000	843.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #4 Inc Only to 5000ft - P
	843.000	1334.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #4 Inc Only to 5000ft - P
	1334.000	1334.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #4 Inc Only to 5000ft - P
	1334.000	1834.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #4 Inc Only to 5000ft - P
	1834.000	1834.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #4 Inc Only to 5000ft - P
	1834.000	2334.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #4 Inc Only to 5000ft - P
	2334.000	2334.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #4 Inc Only to 5000ft - P
	2334.000	2809.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #4 Inc Only to 5000ft - P
	2809.000	2809.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #4 Inc Only to 5000ft - P
	2809.000	3309.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #4 Inc Only to 5000ft - P
	3309.000	3440.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #4 Inc Only to 5000ft - P
	3440.000	3905.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #4 Inc Only to 5000ft - P
	3905.000	3905.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #4 Inc Only to 5000ft - P
	3905.000	4405.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #4 Inc Only to 5000ft - P
	4405.000	4405.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #4 Inc Only to 5000ft - P
	4405.000	4909.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #4 Inc Only to 5000ft - P
	4909.000	5000.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #4 Inc Only to 5000ft - P

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
0.00	0.00	0.00	0.00	0.00	18.60	-8042.97	30.55	179.78	8043.05	32.81	8010.24	8040.55	N/A	10.00 (m)	Pass
22.00	22.00	0.00	0.00	3.40	22.00	-8042.97	30.55	179.78	8043.03	32.81	8010.22	8040.47	137022.97	10.00 (m)	Pass
100.00	100.00	0.00	0.00	81.37	99.97	-8042.97	30.58	179.78	8043.03	32.81	8010.22	8039.09	5615.69	10.00 (m)	Pass
200.00	200.00	0.00	0.00	181.34	199.94	-8042.97	30.72	179.78	8043.03	32.81	8010.22	8035.86	1721.71	10.00 (m)	Pass
300.00	300.00	0.00	0.00	281.31	299.91	-8042.97	30.96	179.78	8043.03	32.81	8010.22	8032.32	979.99	10.00 (m)	Pass
400.00	400.00	0.00	0.00	381.28	399.88	-8042.97	31.30	179.78	8043.03	32.81	8010.22	8028.78	684.17	10.00 (m)	Pass
500.00	500.00	0.00	0.00	481.24	499.84	-8042.97	31.75	179.77	8043.03	32.81	8010.22	8025.21	524.95	10.00 (m)	Pass
600.00	599.99	-0.87	0.00	581.20	599.80	-8042.97	32.30	179.77	8042.16	32.81	8009.35	8020.76	425.47	10.00 (m)	Pass
700.00	699.98	-2.62	0.00	681.15	699.75	-8042.97	32.95	179.77	8040.42	32.81	8010.22	8015.42	357.30	10.00 (m)	Pass
800.00	799.96	-4.36	0.00	781.10	799.69	-8042.97	33.71	179.76	8038.68	41.71	7996.97	8010.04	307.45	OSF1.50	Pass
900.00	899.95	-6.11	0.00	874.36	892.95	-8042.96	34.49	179.75	8036.95	46.82	7990.13	8004.90	271.90	OSF1.50	Pass
1000.00	999.93	-7.85	0.00	956.75	975.33	-8043.14	35.10	179.75	8035.40	51.37	7984.03	8000.32	246.56	OSF1.50	Pass
1100.00	1099.92	-9.60	0.00	1039.14	1057.72	-8043.48	35.60	179.75	8034.07	55.88	7978.19	7995.98	225.68	OSF1.50	Pass
1200.00	1199.90	-11.34	0.00	1121.54	1140.12	-8044.00	35.97	179.74	8032.96	60.37	7972.59	7991.88	208.16	OSF1.50	Pass
1300.00	1299.89	-13.09	0.00	1203.94	1222.52	-8044.70	36.22	179.74	8032.07	64.84	7967.23	7988.01	193.20	OSF1.50	Pass
1400.00	1399.87	-14.83	0.00	1286.35	1304.92	-8045.59	36.35	179.74	8031.40	69.33	7962.07	7984.34	180.21	OSF1.50	Pass
1500.00	1499.86	-16.58	0.00	1367.48	1406.05	-8046.84	36.32	179.74	8030.89	74.76	7956.13	7980.22	166.65	OSF1.50	Pass
1600.00	1599.83	-18.11	-1.73	1514.29	1532.85	-8048.12	35.80	179.74	8030.37	81.45	7948.92	7975.24	152.52	OSF1.50	Pass
1700.00	1699.68	-19.20	-6.92	1641.00	1659.55	-8048.97	34.72	179.71	8029.97	87.95	7942.02	7970.50	140.91	OSF1.50	Pass
1800.00	1799.30	-19.86	-15.57	1767.52	1786.06	-8049.40	33.09	179.65	8029.69	94.36	7935.34	7965.96	131.08	OSF1.50	Pass
1900.00	1898.56	-20.08	-27.66	1914.92	1933.44	-8049.28	30.71	179.55	8029.49	101.78	7927.71	7960.80	121.28	OSF1.50	Pass
2000.00	1997.44	-19.94	-42.59	2085.13	2103.63	-8047.80	28.72	179.39	8028.88	110.29	7918.59	7954.52	111.69	OSF1.50	Pass
2100.00	2096.27	-19.77	-57.80	2254.95	2273.42	-8044.81	27.75	179.21	8027.46	118.83	7908.63	7947.40	103.47	OSF1.50	Pass
2200.00	2195.11	-19.59	-73.01	2370.41	2388.84	-8041.99	27.68	179.09	8025.37	124.83	7900.54	7941.32	98.37	OSF1.50	Pass
2300.00	2293.95	-19.42	-88.22	2438.55	2456.97	-8040.47	27.99	179.01	8023.56	128.57	7894.99	7937.01	95.44	OSF1.50	Pass
2400.00	2392.78	-19.24	-103.44	2506.61	2525.01	-8039.21	28.60	178.93	8022.15	132.33	7889.82	7933.10	92.66	OSF1.50	Pass
2500.00	2491.62	-19.07	-118.65	2574.58	2592.97	-8038.21	29.50	178.85	8021.15	136.09	7885.05	7929.59	90.03	OSF1.50	Pass
2600.00	2590.45	-18.89	-133.86	2642.45	2660.82	-8037.46	30.70	178.77	8020.56	139.87	7880.69	7926.48	87.55	OSF1.50	Pass
2700.00	2689.29	-18.71	-148.07	2710.22	2728.58	-8036.96	32.19	178.69	8020.36	143.69	7876.70	7923.76	85.18	OSF1.50	Pass
2800.00	2788.13	-18.54	-164.28	2777.89	2796.22	-8036.72	33.98	178.60	8020.63	147.52	7873.11	7921.45	82.94	OSF1.50	Pass
2900.00	2886.96	-18.36	-179.49	2840.46	2858.77	-8036.73	35.83	178.52	8021.31	151.11	7870.20	7919.74	80.94	OSF1.50	Pass
3000.00	2985.80	-18.19	-194.71	2898.82	2917.10	-8037.04	37.39	178.44	8022.51	154.49	7868.02	7918.68	79.15	OSF1.50	Pass
3100.00	3084.64	-18.01	-209.92	2957.24	2975.50	-8037.65	38.75	178.37	8024.24	157.88	7866.36	7918.15	77.44	OSF1.50	Pass
3200.00	3183.47	-17.84	-225.13	3015.72	3033.97	-8038.56	39.90	178.30	8026.49	161.20	7865.29	7918.19	75.84	OSF1.50	Pass
3300.00	3282.31	-17.66	-240.34	3074.27	3092.50	-8039.76	40.85	178.23	8029.27	164.51	7864.76	7918.76	74.32	OSF1.50	Pass
3400.00	3381.14	-17.48	-255.55	3132.87	3151.07	-8041.27	41.58	178.16	8032.58	167.80	7864.78	7919.88	72.87	OSF1.50	Pass
3500.00	3479.98	-17.31	-270.76	3191.52	3209.70	-8043.08	42.11	178.09	8036.41	171.49	7865.27	7921.49	71.46	OSF1.50	Pass
3600.00	3578.82	-17.13	-285.97	3250.04	3268.22	-8038.22	29.55	177.38	8035.67	207.05	7828.62	7896.80	58.91	OSF1.50	Pass
3700.00	3677.65	-16.96	-301.19	3308.92	3327.00	-8035.85	29.79	177.32	8032.21	210.41	7821.80	7891.10	57.93	OSF1.50	Pass
3800.00	3776.49	-16.78	-316.40	4037.73	4055.29	-8033.77	30.30	177.26	8029.33	213.77	7815.55	7885.98	56.99	OSF1.50	Pass
3900.00	3875.32	-16.61	-331.61	4092.48	4110.00	-8031.99	31.06	177.19	8027.01	217.18	7809.83	7881.39	56.07	OSF1.50	Pass
4000.00	3974.16	-16.43	-346.82	4147.15	4164.64	-8030.49	32.09	177.13	8025.27	220.57	7804.70	7877.39	55.18	OSF1.50	Pass
4100.00	4073.00	-16.26	-362.03	4201.75	4219.21	-8029.28	33.37	177.06	8024.11	223.95	7800.16	7873.98	54.33	OSF1.50	Pass
4200.00	4171.83	-16.08	-377.24	4256.26	4273.69	-8028.36	34.91	176.99	8023.52	227.32	7796.20	7871.14	53.52	OSF1.50	Pass
4300.00	4270.67	-15.90	-392.46	4310.68	4328.08	-8027.73	36.71	176.91	8023.51	230.68	7792.83	7868.89	52.73	OSF1.50	Pass
4400.00	4369.50	-15.73	-407.67	4365.01	4382.36	-8027.38	38.76	176.84	8024.09	234.03	7790.05	7867.23	51.97	OSF1.50	Pass
4500.00	4468.34	-15.55	-422.88	4420.58	4437.89	-8027.31	41.11	176.76	8025.24	237.45	7787.79	7866.11	51.22	OSF1.50	Pass
4600.00	4567.18	-15.38	-438.09	4479.97	4497.23	-8027.54	43.47	176.68	8026.93	241.07	7785.85	7865.38	50.45	OSF1.50	Pass
4700.00	4666.01	-15.20	-453.30	4539.46	4556.69	-8028.08	45.52	176.61	8029.14	244.67	7784.47	7865.19	49.72	OSF1.50	Pass
4800.00	4764.85	-15.03	-468.51	4599.07	4616.26	-8028.93	47.27	176.53	8031.86	248.14	7783.72	7865.60	49.03	OSF1.50	Pass
4900.00	4863.69	-14.85	-483.73	4658.77	4675.94	-8030.09	48.72	176.45	8035.10	251.51	7783.59	7866.59	48.39	OSF1.50	Pass

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Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. MCI Operating Jennings Federal #4 Inc Only to 5000ft - P

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
5000.00	4962.52	-14.67	-498.94	4718.57	4735.71	-8031.56	49.86	176.38	8038.84	254.80	7784.04	7868.14	47.78	OSF1.50	Pass
5100.00	5061.36	-14.50	-514.15	4778.46	4795.56	-8033.34	50.70	176.31	8043.10	257.92	7785.18	7870.32	47.22	OSF1.50	Pass
5200.00	5160.19	-14.32	-529.36	4838.43	4855.49	-8035.43	51.22	176.24	8047.86	261.01	7786.85	7873.02	46.68	OSF1.50	Pass
5300.00	5259.03	-14.15	-544.57	5000.00	5016.97	-8040.28	51.43	176.07	8051.87	269.13	7787.74	7871.62	45.28	OSF1.50	Pass
5400.00	5357.87	-13.97	-559.78	5000.00	5016.97	-8040.28	51.43	176.07	8056.76	269.30	7787.46	7876.39	45.28	OSF1.50	Pass
5500.00	5456.70	-13.80	-574.99	5000.00	5016.97	-8040.28	51.43	176.07	8062.89	269.44	7793.45	7882.43	45.29	OSF1.50	Pass
5600.00	5555.54	-13.62	-590.21	5000.00	5016.97	-8040.28	51.43	176.07	8070.25	269.55	7800.70	7889.72	45.32	OSF1.50	Pass
5700.00	5654.37	-13.45	-605.42	5000.00	5016.97	-8040.28	51.43	176.07	8078.85	269.63	7809.22	7898.26	45.35	OSF1.50	Pass
5800.00	5753.21	-13.27	-620.63	5000.00	5016.97	-8040.28	51.43	176.07	8088.67	269.68	7818.99	7908.05	45.40	OSF1.50	Pass
5900.00	5852.05	-13.09	-635.84	5000.00	5016.97	-8040.28	51.43	176.07	8099.72	269.69	7830.03	7919.09	45.46	OSF1.50	Pass
6000.00	5950.88	-12.92	-651.05	5000.00	5016.97	-8040.28	51.43	176.07	8111.98	269.67	7842.31	7931.36	45.53	OSF1.50	Pass
6100.00	6049.72	-12.74	-666.26	5000.00	5016.97	-8040.28	51.43	176.07	8125.45	269.62	7855.83	7944.87	45.61	OSF1.50	Pass
6200.00	6148.55	-12.57	-681.48	5000.00	5016.97	-8040.28	51.43	176.07	8140.13	269.54	7870.59	7959.61	45.71	OSF1.50	Pass
6300.00	6247.39	-12.39	-696.69	5000.00	5016.97	-8040.28	51.43	176.07	8156.02	269.43	7886.58	7975.56	45.82	OSF1.50	Pass
6400.00	6346.23	-12.22	-711.90	5000.00	5016.97	-8040.28	51.43	176.07	8173.09	269.29	7903.80	7992.73	45.94	OSF1.50	Pass
6500.00	6445.06	-12.04	-727.11	5000.00	5016.97	-8040.28	51.43	176.07	8191.35	269.12	7922.23	8011.10	46.07	OSF1.50	Pass
6600.00	6543.90	-11.87	-742.32	5000.00	5016.97	-8040.28	51.43	176.07	8210.78	268.92	7941.86	8030.67	46.21	OSF1.50	Pass
6700.00	6642.74	-11.69	-757.53	5000.00	5016.97	-8040.28	51.43	176.07	8231.39	268.70	7962.69	8051.42	46.37	OSF1.50	Pass
6800.00	6741.57	-11.51	-772.75	5000.00	5016.97	-8040.28	51.43	176.07	8253.16	268.44	7984.71	8073.36	46.54	OSF1.50	Pass
6900.00	6840.41	-11.34	-787.96	5000.00	5016.97	-8040.28	51.43	176.07	8276.07	268.16	8007.91	8096.46	46.71	OSF1.50	Pass
7000.00	6939.24	-11.16	-803.17	5000.00	5016.97	-8040.28	51.43	176.07	8300.13	267.86	8032.27	8120.73	46.90	OSF1.50	Pass
7100.00	7038.08	-10.99	-818.38	5000.00	5016.97	-8040.28	51.43	176.07	8325.32	267.52	8057.80	8146.14	47.11	OSF1.50	Pass
7200.00	7136.92	-10.81	-833.59	5000.00	5016.97	-8040.28	51.43	176.07	8351.63	267.17	8084.47	8172.69	47.32	OSF1.50	Pass
7300.00	7235.75	-10.64	-848.80	5000.00	5016.97	-8040.28	51.43	176.07	8379.06	266.79	8112.27	8200.36	47.54	OSF1.50	Pass
7400.00	7334.59	-10.46	-864.01	5000.00	5016.97	-8040.28	51.43	176.07	8407.58	266.38	8141.20	8229.16	47.78	OSF1.50	Pass
7500.00	7433.42	-10.28	-879.23	5000.00	5016.97	-8040.28	51.43	176.07	8437.19	265.96	8171.23	8259.05	48.02	OSF1.50	Pass
7600.00	7532.26	-10.11	-894.44	5000.00	5016.97	-8040.28	51.43	176.07	8467.88	265.51	8202.37	8290.04	48.28	OSF1.50	Pass
7700.00	7631.10	-9.93	-909.65	5000.00	5016.97	-8040.28	51.43	176.07	8499.63	265.04	8234.59	8322.11	48.55	OSF1.50	Pass
7800.00	7729.93	-9.76	-924.86	5000.00	5016.97	-8040.28	51.43	176.07	8532.44	264.56	8267.89	8355.24	48.83	OSF1.50	Pass
7900.00	7828.77	-9.58	-940.07	5000.00	5016.97	-8040.28	51.43	176.07	8566.29	264.05	8302.24	8389.43	49.11	OSF1.50	Pass
8000.00	7927.60	-9.41	-955.28	5000.00	5016.97	-8040.28	51.43	176.07	8601.17	263.53	8337.65	8424.66	49.41	OSF1.50	Pass
8100.00	8026.44	-9.23	-970.50	5000.00	5016.97	-8040.28	51.43	176.07	8637.07	262.99	8374.08	8460.91	49.72	OSF1.50	Pass
8200.00	8125.28	-9.06	-985.71	5000.00	5016.97	-8040.28	51.43	176.07	8673.97	262.43	8411.54	8498.18	50.04	OSF1.50	Pass
8300.00	8224.15	-8.88	-1000.68	5000.00	5016.97	-8040.28	51.43	175.77	8711.85	261.86	8449.99	8536.44	50.37	OSF1.50	Pass
8400.00	8323.40	-8.74	-1012.88	5000.00	5016.97	-8040.28	51.43	175.47	8750.47	261.24	8489.23	8575.48	50.71	OSF1.50	Pass
8500.00	8423.01	-8.64	-1021.60	5000.00	5016.97	-8040.28	51.43	174.08	8789.75	260.58	8529.17	8615.20	51.07	OSF1.50	Pass
8600.00	8522.87	-8.58	-1026.84	5000.00	5016.97	-8040.28	51.43	173.22	8829.62	259.87	8569.74	8655.54	51.45	OSF1.50	Pass
8700.00	8622.85	-8.56	-1028.60	5000.00	5016.97	-8040.28	51.43	172.34	8870.02	259.13	8610.90	8696.44	51.83	OSF1.50	Pass
8800.00	8722.85	-8.56	-1028.60	5000.00	5016.97	-8040.28	51.43	172.34	8911.14	258.34	8652.81	8738.09	52.23	OSF1.50	Pass
8900.00	8822.85	-8.56	-1028.60	5000.00	5016.97	-8040.28	51.43	172.34	8953.19	257.54	8695.65	8780.67	52.64	OSF1.50	Pass
9000.00	8922.85	-8.56	-1028.60	5000.00	5016.97	-8040.28	51.43	172.34	8996.16	256.73	8739.42	8824.17	53.06	OSF1.50	Pass
9100.00	9022.85	-8.56	-1028.60	5000.00	5016.97	-8040.28	51.43	172.34	9040.02	255.92	8784.11	8868.58	53.49	OSF1.50	Pass
9200.00	9122.85	-8.56	-1028.60	5000.00	5016.97	-8040.28	51.43	172.34	9084.78	255.09	8829.69	8913.88	53.93	OSF1.50	Pass
9300.00	9222.85	-8.56	-1028.60	5000.00	5016.97	-8040.28	51.43	172.34	9130.41	254.26	8876.15	8960.07	54.38	OSF1.50	Pass
9400.00	9322.85	-8.56	-1028.60	5000.00	5016.97	-8040.28	51.43	172.34	9176.90	253.42	8923.48	9007.12	54.84	OSF1.50	Pass
9500.00	9422.85	-8.56	-1028.60	5000.00	5016.97	-8040.28	51.43	172.34	9224.25	252.58	8971.66	9055.03	55.31	OSF1.50	Pass
9600.00	9522.85	-8.56	-1028.60	5000.00	5016.97	-8040.28	51.43	172.34	9272.43	251.73	9020.69	9103.77	55.79	OSF1.50	Pass
9700.00	9622.85	-8.56	-1028.60	5000.00	5016.97	-8040.28	51.43	172.34	9321.43	250.88	9070.55	9153.34	56.28	OSF1.50	Pass
9800.00	9722.85	-8.56	-1028.60	5000.00	5016.97	-8040.28	51.43	172.34	9371.25	250.03	9121.21	9203.72	56.77	OSF1.50	Pass
9900.00	9822.85	-8.56	-1028.60	5000.00	5016.97	-8040.28	51.43	172.34	9421.86	249.18	9172.68	9254.91	57.28	OSF1.50	Pass
10000.00	9922.85	-8.56	-1028.60	5000.00	5016.97	-8040.28	51.43	172.34	9473.26	248.32	9224.93	9306.87	57.79	OSF1.50	Pass
10100.00	10022.85	-8.56	-1028.60	5000.00	5016.97	-8040.28	51.43	172.34	9525.43	247.47	9277.96	9359.61	58.31	OSF1.50	Pass
10200.00	10122.85	-8.56	-1028.60	5000.00	5016.97	-8040.28	51.43	172.34	9578.36	246.61	9331.74	9413.11	58.84	OSF1.50	Pass
10300.00	10222.85	-8.56	-1028.60	5000.00	5016.97	-8040.28	51.43	172.34	9632.04	245.76	9386.27	9467.36	59.38	OSF1.50	Pass
10400.00	10322.85	-8.56	-1028.60	5000.00	5016.97	-8040.28	51.43	172.34	9686.45	244.91	9441.54	9522.34	59.92	OSF1.50	Pass
10500.00	10422.81	-10.22	-1028.71	5000.00	5016.97	-8040.28	51.43	172.85	9740.20	243.80	9496.40	9576.83	60.53	OSF1.50	Pass
10600.00	10521.35	-26.45	-1029.74	5000.00	5016.97	-8040.28	51.43	173.69	9782.05	242.51	9539.54	9619.55	61.12	OSF1.50	Pass
10700.00	10615.57	-59.51	-1031.86	5000.00	5016.97	-8040.28	51.43	174.16	9808.70	241.11	9567.58	9647.12	61.64	OSF1.50	Pass
10800.00	10702.60	-108.39	-1034.98	5000.00	5016.97	-8040.28	51.43	174.33	9819.45	239.66	9579.79	9658.84	62.09	OSF1.50	Pass
10900.00	10779.81	-171.61	-1039.02	5000.00	5016.97	-8040.28	51.43	174.25	9814.04	238.18	9575.85	9654.41	62.45	OSF1.50	Pass
11000.00	10844.85	-247.25	-1043.85	5000.00	5016.97	-8040.28	51.43	173.88	9792.60	236.73	9555.87	9633.94	62.69	OSF1.50	Pass
11100.00	10895.73	-333.02	-1049.33	5000.00	5016.97	-8040.28	51.43	173.18	9755.68	235.35	9520.34	9597.95	62.83	OSF1.50	Pass
11200.00	10930.92	-426.30	-1055.29	5000.00	5016.97	-8040.28	51.43	172.02	9704.24	234.07	9470.18	9547.37	62.84	OSF1.50	Pass
11300.00	10953.24	-523.60	-1060.50	5000.00	5016.97	-8040.28	51.43	171.19	9642.41	232.89	9409.53	9486.32	62.76	OSF1.50	Pass
11400.00	10967.26	-622.53	-1063.52	5000.00	5016.97	-8040.28	51.43	170.39	9574.55	231.76	9342.79	9419.21	62.63	OSF1.50	Pass
11500.00	10972.89	-722.34	-1064.33	5000.00	5016.97	-8040.28	51.43	169.59	9501.06	230.71	9270.35	9346.42	62.43	OSF1.50	

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. MCI Operating Jennings Federal #4 Inc Only to 5000ft - P

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
13500.00	10978.21	-2722.30	-1052.33	5000.00	5016.97	-8040.28	51.43	169.49	8064.46	208.44	7856.02	7924.67	58.72	OSF1.50	Pass
13600.00	10978.47	-2822.29	-1051.73	5000.00	5016.97	-8040.28	51.43	169.49	7998.99	207.26	7791.73	7859.98	58.58	OSF1.50	Pass
13700.00	10978.73	-2922.29	-1051.13	5000.00	5016.97	-8040.28	51.43	169.49	7934.23	206.08	7728.15	7796.01	58.44	OSF1.50	Pass
13800.00	10978.99	-3022.29	-1050.53	5000.00	5016.97	-8040.28	51.43	169.49	7870.21	204.90	7665.31	7732.78	58.31	OSF1.50	Pass
13900.00	10979.25	-3122.29	-1049.93	5000.00	5016.97	-8040.28	51.43	169.49	7806.95	203.73	7603.22	7670.30	58.18	OSF1.50	Pass
14000.00	10979.52	-3222.29	-1049.33	5000.00	5016.97	-8040.28	51.43	169.49	7744.46	202.56	7541.90	7608.59	58.05	OSF1.50	Pass
14100.00	10979.78	-3322.28	-1048.73	5000.00	5016.97	-8040.28	51.43	169.49	7682.77	201.39	7481.37	7547.67	57.92	OSF1.50	Pass
14200.00	10980.04	-3422.28	-1048.13	5000.00	5016.97	-8040.28	51.43	169.49	7621.88	200.24	7421.64	7487.56	57.80	OSF1.50	Pass
14300.00	10980.30	-3522.28	-1047.53	5000.00	5016.97	-8040.28	51.43	169.49	7561.83	199.10	7362.73	7428.27	57.68	OSF1.50	Pass
14400.00	10980.56	-3622.28	-1046.93	5000.00	5016.97	-8040.28	51.43	169.49	7502.64	197.97	7304.66	7369.82	57.55	OSF1.50	Pass
14500.00	10980.83	-3722.28	-1046.33	5000.00	5016.97	-8040.28	51.43	169.49	7444.31	196.86	7247.45	7312.24	57.43	OSF1.50	Pass
14600.00	10981.09	-3822.27	-1045.72	5000.00	5016.97	-8040.28	51.43	169.49	7386.88	195.77	7191.11	7255.53	57.31	OSF1.50	Pass
14700.00	10981.35	-3922.27	-1045.12	5000.00	5016.97	-8040.28	51.43	169.49	7330.36	194.70	7135.66	7199.73	57.19	OSF1.50	Pass
14800.00	10981.61	-4022.27	-1044.52	5000.00	5016.97	-8040.28	51.43	169.49	7274.78	193.65	7081.13	7144.85	57.07	OSF1.50	Pass
14900.00	10981.87	-4122.27	-1043.92	5000.00	5016.97	-8040.28	51.43	169.49	7220.16	192.63	7027.52	7090.90	56.94	OSF1.50	Pass
15000.00	10982.14	-4222.26	-1043.32	5000.00	5016.97	-8040.28	51.43	169.49	7166.51	191.65	6974.87	7037.91	56.81	OSF1.50	Pass
15100.00	10982.40	-4322.26	-1042.72	5000.00	5016.97	-8040.28	51.43	169.49	7113.87	190.69	6923.18	6985.91	56.68	OSF1.50	Pass
15200.00	10982.66	-4422.26	-1042.12	5000.00	5016.97	-8040.28	51.43	169.49	7062.25	189.78	6872.47	6934.90	56.55	OSF1.50	Pass
15300.00	10982.92	-4522.26	-1041.52	5000.00	5016.97	-8040.28	51.43	169.49	7011.67	188.90	6822.77	6884.91	56.40	OSF1.50	Pass
15400.00	10983.18	-4622.26	-1040.92	5000.00	5016.97	-8040.28	51.43	169.49	6962.17	188.07	6774.10	6835.95	56.26	OSF1.50	Pass
15500.00	10983.45	-4722.25	-1040.32	5000.00	5016.97	-8040.28	51.43	169.49	6913.75	187.29	6726.47	6788.06	56.10	OSF1.50	Pass
15600.00	10983.71	-4822.25	-1039.71	5000.00	5016.97	-8040.28	51.43	169.49	6866.46	186.56	6679.90	6741.25	55.94	OSF1.50	Pass
15700.00	10983.97	-4922.25	-1039.11	5000.00	5016.97	-8040.28	51.43	169.49	6820.30	185.89	6634.41	6695.54	55.77	OSF1.50	Pass
15800.00	10984.23	-5022.25	-1038.51	5000.00	5016.97	-8040.28	51.43	169.49	6775.30	185.27	6590.02	6650.95	55.58	OSF1.50	Pass
15900.00	10984.49	-5122.25	-1037.91	5000.00	5016.97	-8040.28	51.43	169.49	6731.49	184.73	6546.76	6607.50	55.39	OSF1.50	Pass
16000.00	10984.76	-5222.24	-1037.31	5000.00	5016.97	-8040.28	51.43	169.49	6688.88	184.25	6504.63	6565.21	55.18	OSF1.50	Pass
16100.00	10985.02	-5322.24	-1036.71	5000.00	5016.97	-8040.28	51.43	169.49	6647.51	183.84	6463.66	6524.11	54.96	OSF1.50	Pass
16200.00	10985.28	-5422.24	-1036.11	5000.00	5016.97	-8040.28	51.43	169.49	6607.39	183.51	6423.87	6484.21	54.73	OSF1.50	Pass
16300.00	10985.54	-5522.24	-1035.51	5000.00	5016.97	-8040.28	51.43	169.49	6568.55	183.27	6385.28	6445.53	54.49	OSF1.50	Pass
16400.00	10985.80	-5622.23	-1034.91	5000.00	5016.97	-8040.28	51.43	169.49	6531.00	183.10	6347.90	6408.10	54.22	OSF1.50	Pass
16500.00	10986.07	-5722.23	-1034.31	5000.00	5016.97	-8040.28	51.43	169.49	6494.79	183.02	6311.76	6371.94	53.95	OSF1.50	Pass
16600.00	10986.33	-5822.23	-1033.70	5000.00	5016.97	-8040.28	51.43	169.49	6459.91	183.04	6276.87	6337.05	53.65	OSF1.50	Pass
16700.00	10986.59	-5922.23	-1033.10	5000.00	5016.97	-8040.28	51.43	169.49	6426.40	183.15	6243.26	6303.47	53.34	OSF1.50	Pass
16800.00	10986.85	-6022.23	-1032.50	5000.00	5016.97	-8040.28	51.43	169.49	6394.29	183.35	6210.93	6271.22	53.01	OSF1.50	Pass
16900.00	10987.11	-6122.22	-1031.90	5000.00	5016.97	-8040.28	51.43	169.49	6363.58	183.66	6179.92	6240.31	52.67	OSF1.50	Pass
17000.00	10987.38	-6222.22	-1031.30	5000.00	5016.97	-8040.28	51.43	169.49	6334.30	184.06	6150.24	6210.76	52.31	OSF1.50	Pass
17100.00	10987.64	-6322.22	-1030.70	5000.00	5016.97	-8040.28	51.43	169.49	6306.47	184.57	6121.90	6182.59	51.94	OSF1.50	Pass
17200.00	10987.90	-6422.22	-1030.10	5000.00	5016.97	-8040.28	51.43	169.49	6280.11	185.18	6094.93	6155.82	51.54	OSF1.50	Pass
17300.00	10988.16	-6522.22	-1029.50	5000.00	5016.97	-8040.28	51.43	169.49	6255.24	185.90	6069.34	6130.47	51.14	OSF1.50	Pass
17400.00	10988.42	-6622.21	-1028.90	5000.00	5016.97	-8040.28	51.43	169.49	6231.87	186.73	6045.15	6106.56	50.72	OSF1.50	Pass
17500.00	10988.69	-6722.21	-1028.30	5000.00	5016.97	-8040.28	51.43	169.49	6210.03	187.65	6022.38	6084.09	50.29	OSF1.50	Pass
17600.00	10988.95	-6822.21	-1027.69	5000.00	5016.97	-8040.28	51.43	169.49	6189.72	188.69	6001.04	6063.10	49.85	OSF1.50	Pass
17700.00	10989.21	-6922.21	-1027.09	5000.00	5016.97	-8040.28	51.43	169.49	6170.97	189.83	5981.15	6043.59	49.39	OSF1.50	Pass
17800.00	10989.47	-7022.21	-1026.49	5000.00	5016.97	-8040.28	51.43	169.49	6153.79	191.07	5962.72	6025.58	48.93	OSF1.50	Pass
17900.00	10989.73	-7122.20	-1025.89	5000.00	5016.97	-8040.28	51.43	169.49	6138.19	192.41	5945.78	6009.08	48.46	OSF1.50	Pass
18000.00	10990.00	-7222.20	-1025.29	5000.00	5016.97	-8040.28	51.43	169.49	6124.18	193.84	5930.33	5994.12	47.99	OSF1.50	Pass
18100.00	10990.26	-7322.20	-1024.69	5000.00	5016.97	-8040.28	51.43	169.49	6111.78	195.38	5916.40	5980.69	47.51	OSF1.50	Pass
18200.00	10990.52	-7422.20	-1024.09	5000.00	5016.97	-8040.28	51.43	169.49	6100.99	197.00	5903.98	5968.82	47.03	OSF1.50	Pass
18300.00	10990.78	-7522.19	-1023.49	5000.00	5016.97	-8040.28	51.43	169.49	6091.82	198.72	5893.10	5958.51	46.55	OSF1.50	Pass
18400.00	10991.04	-7622.19	-1022.89	5000.00	5016.97	-8040.28	51.43	169.49	6084.28	200.52	5883.76	5949.77	46.07	OSF1.50	Pass
18500.00	10991.31	-7722.19	-1022.29	5000.00	5016.97	-8040.28	51.43	169.49	6078.38	202.40	5875.98	5942.61	45.59	OSF1.50	Pass
18600.00	10991.57	-7822.19	-1021.68	5000.00	5016.97	-8040.28	51.43	169.49	6074.12	204.35	5869.77	5937.05	45.12	OSF1.50	Pass
18700.00	10991.83	-7922.19	-1021.08	5000.00	5016.97	-8040.28	51.43	169.49	6071.50	206.38	5865.12	5933.08	44.65	OSF1.50	Pass
18800.00	10992.09	-8022.18	-1020.48	5000.00	5016.97	-8040.28	51.43	169.49	6070.53	208.47	5862.06	5930.72	44.19	OSF1.50	Pass
18900.00	10992.35	-8122.18	-1019.88	5000.00	5016.97	-8040.28	51.43	169.49	6071.21	210.62	5860.59	5929.96	43.74	OSF1.50	Pass
19000.00	10992.61	-8222.18	-1019.28	5000.00	5016.97	-8040.28	51.43	169.49	6073.53	212.83	5860.70	5930.81	43.30	OSF1.50	Pass
19100.00	10992.88	-8322.18	-1018.68	5000.00	5016.97	-8040.28	51.43	169.49	6077.50	215.09	5862.41	5933.27	42.86	OSF1.50	Pass
19200.00	10993.14	-8422.17	-1018.08	5000.00	5016.97	-8040.28	51.43	169.49	6083.11	217.40	5865.71	5937.35	42.44	OSF1.50	Pass
19300.00	10993.40	-8522.17	-1017.48	5000.00	5016.97	-8040.28	51.43	169.49	6090.36	219.75	5870.61	5943.03	42.03	OSF1.50	Pass
19400.00	10993.66	-8622.17	-1016.88	5000.00	5016.97	-8040.28	51.43	169.49	6099.24	222.13	5877.11	5950.32	41.64	OSF1.50	Pass
19500.00	10993.92	-8722.17	-1016.28	5000.00	5016.97	-8040.28	51.43	169.49	6109.74	224.54	5885.20	5959.21	41.26	OSF1.50	Pass
19600.00	10994.19	-8822.17	-1015.68	5000.00	5016.97	-8040.28	51.43	169.49	6121.86	226.98	5894.88	5969.71	40.89	OSF1.50	Pass
19700.00	10994.45	-8922.16	-1015.07	5000.00	5016.97	-8040.28	51.43	169.49	6135.58	229.43	5906.15	5981.79	40.54	OSF1.50	Pass
19800.00	10994.71	-9022.16	-1014.47	5000.00	5016.97	-8040.28	51.43	169.49	6150.90	231.90	5919.00	5995.47	40.20	OSF1.50	Pass
19900.00	10994.97	-9122.16	-1013.87	5000.00	5016.97	-									

Field: NM Lea County (NAD 83)
 Structure: MCI Operating Jennings Federal #5 (Offset)
 Slot: MCI Operating Jennings Federal #5 (Offset)
 Client:
 Coordinate System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 North Reference: Grid
 Grid Convergence Angle: 0.36576810°
 Grid Scale Factor: 0.999960638
 Magnetic Declination: 6.665°
 Reference Point: Magnetic Declination Date: August 26, 2019
 Magnetic Model: HDGM 2019
 Northing: 444249.052 (ftUS)
 Easting: 753486.464 (ftUS)
 Elevation: 3600.000 (ft) MSL
 Structure Unc.: 0.000 (ft) (3 sigma)
 Slot Unc.: 0.000 (ft) (3 sigma)

Trajectory Error Model: ISCSWA0 3-D 95.000% Confidence 2.7955 sigma

Surveying Prog: As Drilled

Description	MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type	Hole Size (in)	Casing Diameter (in)	Borehole / Survey
	0.000	0.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #5 Inc Only to 4950ft - P
	0.000	475.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #5 Inc Only to 4950ft - P
	475.000	475.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #5 Inc Only to 4950ft - P
	475.000	1128.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #5 Inc Only to 4950ft - P
	1128.000	1128.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #5 Inc Only to 4950ft - P
	1128.000	1624.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #5 Inc Only to 4950ft - P
	1624.000	1624.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #5 Inc Only to 4950ft - P
	1624.000	2122.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #5 Inc Only to 4950ft - P
	2122.000	2122.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #5 Inc Only to 4950ft - P
	2122.000	2617.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #5 Inc Only to 4950ft - P
	2617.000	2617.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #5 Inc Only to 4950ft - P
	2617.000	3143.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #5 Inc Only to 4950ft - P
	3143.000	3143.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #5 Inc Only to 4950ft - P
	3143.000	3895.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #5 Inc Only to 4950ft - P
	3895.000	3895.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #5 Inc Only to 4950ft - P
	3895.000	4659.000	1/98.425	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #5 Inc Only to 4950ft - P
	4659.000	4950.000	Act-Slts	A027Ua_INC-ONLY	30.000	30.000	ting Jennings Federal #5 Inc Only to 4950ft - P

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
All local minima indicated.															
0.00	0.00	0.00	0.00	0.00	40.60	-6710.85	427.93	176.35	6724.60	32.81	6691.79	6722.10	N/A	10.00 (m)	Pass
100.00	100.00	0.00	0.00	58.94	99.54	-6710.85	427.96	176.35	6724.48	32.81	6691.67	6720.92	6364.83	10.00 (m)	Pass
200.00	200.00	0.00	0.00	158.16	198.76	-6710.85	428.16	176.35	6724.45	32.81	6691.68	6718.09	1723.13	10.00 (m)	Pass
300.00	300.00	0.00	0.00	257.37	297.97	-6710.85	428.54	176.35	6724.52	32.81	6691.71	6714.59	904.68	10.00 (m)	Pass
400.00	400.00	0.00	0.00	356.59	397.19	-6710.85	429.10	176.34	6724.55	32.81	6691.74	6711.04	610.48	10.00 (m)	Pass
500.00	500.00	0.00	0.00	455.81	496.40	-6710.85	429.84	176.34	6724.60	32.81	6691.79	6707.48	459.91	10.00 (m)	Pass
600.00	599.99	-0.87	0.00	546.45	587.04	-6710.90	430.59	176.33	6723.84	32.81	6691.03	6703.40	374.60	10.00 (m)	Pass
700.00	699.98	-2.62	0.00	635.03	675.62	-6711.10	431.23	176.32	6722.38	34.28	6688.09	6698.69	317.17	OSF1.50	Pass
800.00	799.96	-4.36	0.00	723.62	764.20	-6711.47	431.76	176.32	6721.08	39.12	6681.96	6694.17	275.19	OSF1.50	Pass
900.00	899.95	-6.11	0.00	812.21	852.79	-6711.99	432.19	176.31	6719.96	43.94	6676.01	6689.83	243.12	OSF1.50	Pass
1000.00	999.93	-7.85	0.00	900.81	941.39	-6712.66	432.51	176.31	6719.00	48.77	6670.23	6685.66	217.76	OSF1.50	Pass
1100.00	1099.92	-9.60	0.00	989.41	1029.99	-6713.50	432.73	176.31	6718.22	53.60	6664.61	6681.65	197.12	OSF1.50	Pass
1200.00	1199.90	-11.34	0.00	1078.01	1118.58	-6714.49	432.84	176.31	6717.60	58.49	6659.11	6677.77	179.89	OSF1.50	Pass
1300.00	1299.89	-13.09	0.00	1161.69	1222.26	-6715.79	432.82	176.31	6717.10	64.16	6652.94	6673.50	163.35	OSF1.50	Pass
1400.00	1399.87	-14.83	0.00	1244.89	1304.89	-6717.02	432.44	176.31	6716.35	70.79	6645.55	6668.32	147.46	OSF1.50	Pass
1500.00	1499.86	-16.58	0.00	1428.07	1468.62	-6717.86	431.67	176.31	6715.24	77.22	6638.02	6662.93	134.76	OSF1.50	Pass
1600.00	1599.83	-18.11	-1.73	1551.24	1591.79	-6718.30	430.49	176.30	6714.12	83.50	6630.62	6657.62	124.29	OSF1.50	Pass
1700.00	1699.68	-19.20	-6.92	1676.60	1717.13	-6718.32	428.96	176.26	6713.30	89.81	6623.49	6652.59	115.29	OSF1.50	Pass
1800.00	1799.30	-19.86	-15.57	1804.94	1845.47	-6717.79	427.67	176.18	6712.74	96.24	6616.51	6647.75	107.38	OSF1.50	Pass
1900.00	1898.56	-20.08	-27.66	1932.77	1973.29	-6716.70	426.82	176.07	6712.43	102.58	6609.86	6643.22	100.57	OSF1.50	Pass
2000.00	1997.44	-19.94	-42.59	2060.01	2100.52	-6715.04	426.40	175.91	6712.29	108.90	6603.39	6638.86	94.60	OSF1.50	Pass
2100.00	2096.27	-19.77	-57.80	2162.39	2202.89	-6713.34	426.38	175.78	6711.91	114.08	6597.83	6635.02	90.19	OSF1.50	Pass
2200.00	2195.11	-19.59	-73.01	2241.21	2281.69	-6712.19	426.60	175.68	6711.78	118.20	6593.58	6632.15	86.98	OSF1.50	Pass
2300.00	2293.95	-19.42	-88.22	2319.96	2360.44	-6711.26	427.04	175.57	6711.98	122.37	6589.61	6629.57	83.96	OSF1.50	Pass
2400.00	2392.78	-19.24	-103.44	2398.65	2439.12	-6710.54	427.70	175.46	6712.51	126.58	6585.93	6627.29	81.12	OSF1.50	Pass
2500.00	2491.62	-19.07	-118.65	2477.27	2517.73	-6710.05	428.57	175.35	6713.37	130.82	6582.56	6625.33	78.45	OSF1.50	Pass
2600.00	2590.45	-18.89	-133.86	2555.81	2596.27	-6709.77	429.67	175.24	6714.57	135.10	6579.47	6623.67	75.93	OSF1.50	Pass
2700.00	2689.29	-18.71	-149.07	2633.53	2673.98	-6709.71	430.95	175.13	6716.10	139.36	6576.75	6622.37	73.58	OSF1.50	Pass
2800.00	2788.13	-18.54	-164.28	2708.59	2749.02	-6709.91	432.13	175.02	6718.01	143.52	6574.49	6621.00	71.43	OSF1.50	Pass
2900.00	2886.96	-18.36	-179.49	2783.70	2824.13	-6710.39	433.12	174.92	6720.31	147.69	6572.62	6621.01	69.40	OSF1.50	Pass
3000.00	2985.80	-18.19	-194.71	2858.87	2899.29	-6711.16	433.92	174.82	6722.98	151.86	6571.12	6620.93	67.49	OSF1.50	Pass
3100.00	3084.64	-18.01	-209.92	2934.09	2974.50	-6712.20	434.63	174.71	6726.04	156.04	6570.01	6621.19	65.69	OSF1.50	Pass
3200.00	3183.47	-17.84	-225.13	3009.37	3049.76	-6713.53	434.96	174.61	6729.48	160.26	6569.22	6621.81	63.96	OSF1.50	Pass
3300.00	3282.31	-17.66	-240.34	3084.69	3125.07	-6715.14	435.20	174.52	6733.30	164.50	6568.80	6622.80	62.32	OSF1.50	Pass
3400.00	3381.14	-17.48	-255.55	3173.10	3213.45	-6717.36	435.24	174.40	6737.48	169.48	6568.00	6623.66	60.50	OSF1.50	Pass
3500.00	3479.98	-17.31	-270.76	3306.26	3346.58	-6720.40	434.79	174.24	6741.44	176.96	6564.48	6622.63	57.94	OSF1.50	Pass
3600.00	3578.82	-17.13	-285.97	3439.63	3479.92	-6722.82	433.73	174.08	6744.92	184.37	6560.56	6621.18	55.61	OSF1.50	Pass
3700.00	3677.65	-16.96	-301.19	3573.20	3613.47	-6724.63	432.04	173.92	6747.93	191.64	6556.29	6619.33	53.49	OSF1.50	Pass
3800.00	3776.49	-16.78	-316.40	3706.97	3747.21	-6725.81	429.72	173.77	6750.46	198.81	6551.64	6617.08	51.56	OSF1.50	Pass
3900.00	3875.32	-16.61	-331.61	3840.91	3881.11	-6726.38	426.78	173.63	6752.50	205.93	6546.57	6614.38	49.77	OSF1.50	Pass
4000.00	3974.16	-16.43	-346.82	3977.20	4017.37	-6726.28	423.38	173.48	6754.04	213.14	6540.91	6611.12	48.08	OSF1.50	Pass
4100.00	4073.00	-16.26	-362.03	4114.88	4155.01	-6725.33	420.49	173.33	6755.05	220.33	6534.72	6607.33	46.50	OSF1.50	Pass
4200.00	4171.83	-16.08	-377.24	4252.37	4292.47	-6723.51	418.25	173.17	6755.52	227.34	6528.18	6603.13	45.05	OSF1.50	Pass
4300.00	4270.67	-15.90	-392.46	4389.65	4429.72	-6720.84	416.66	173.00	6755.45	234.19	6521.26	6598.49	43.72	OSF1.50	Pass
4400.00	4369.50	-15.73	-407.67	4526.71	4566.73	-6717.31	415.71	172.83	6754.86	240.97	6513.89	6593.38	42.47	OSF1.50	Pass
4500.00	4468.34	-15.55	-422.88	4660.69	4700.63	-6713.04	415.41	172.66	6753.74	247.66	6506.08	6587.80	41.31	OSF1.50	Pass
4600.00	4567.18	-15.38	-438.09	4711.51	4751.43	-6711.43	415.64	172.59	6752.77	250.35	6502.42	6585.03	40.85	OSF1.50	Pass
4700.00	4666.01	-15.20	-453.30	4762.20	4802.10	-6710.13	416.29	172.52	6751.47	253.03	6499.51	6583.02	40.41	OSF1.50	Pass
4800.00	4764.85	-15.03	-468.51	4812.77	4852.65	-6709.15	417.36	172.44	6750.05	255.69	6497.36	6581.76	39.99	OSF1.50	Pass
4900.00	4863.69	-14.85	-483.73	4863.19	4903.04	-6708.47	418.85	172.37	6754.31	258.33	6495.98	6581.26	39.59	OSF1.50	Pass
5000.00	4962.52	-14.67	-498.94	4913.46	4953.27	-6708.10	420.75	172.29	6756.32	260.96	6495.36	6581.51	39.20	OSF1.50	Pass
5100.00	5061.36	-14.50	-514.15	4959.00	4999.78	-6708.02	422.40	172.23	6759.10	262.92	6496.18	6582.98	38.92	OSF1.50	Pass
5200.00	5160.19	-14.32	-529.36	4950.00	4989.78	-6708.02	422.40	172.23	6763.17	263.14	6500.03	6586.91	38.91	OSF1.50	Pass

...Dos Equis 11-14 Federal Com 25Y\Coterra Dos Equis 11-14 Federal Com 25Y Rev0 kFc 16Jun22

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. MCI Operating Jennings Federal #5 Inc Only to 4950ft - P

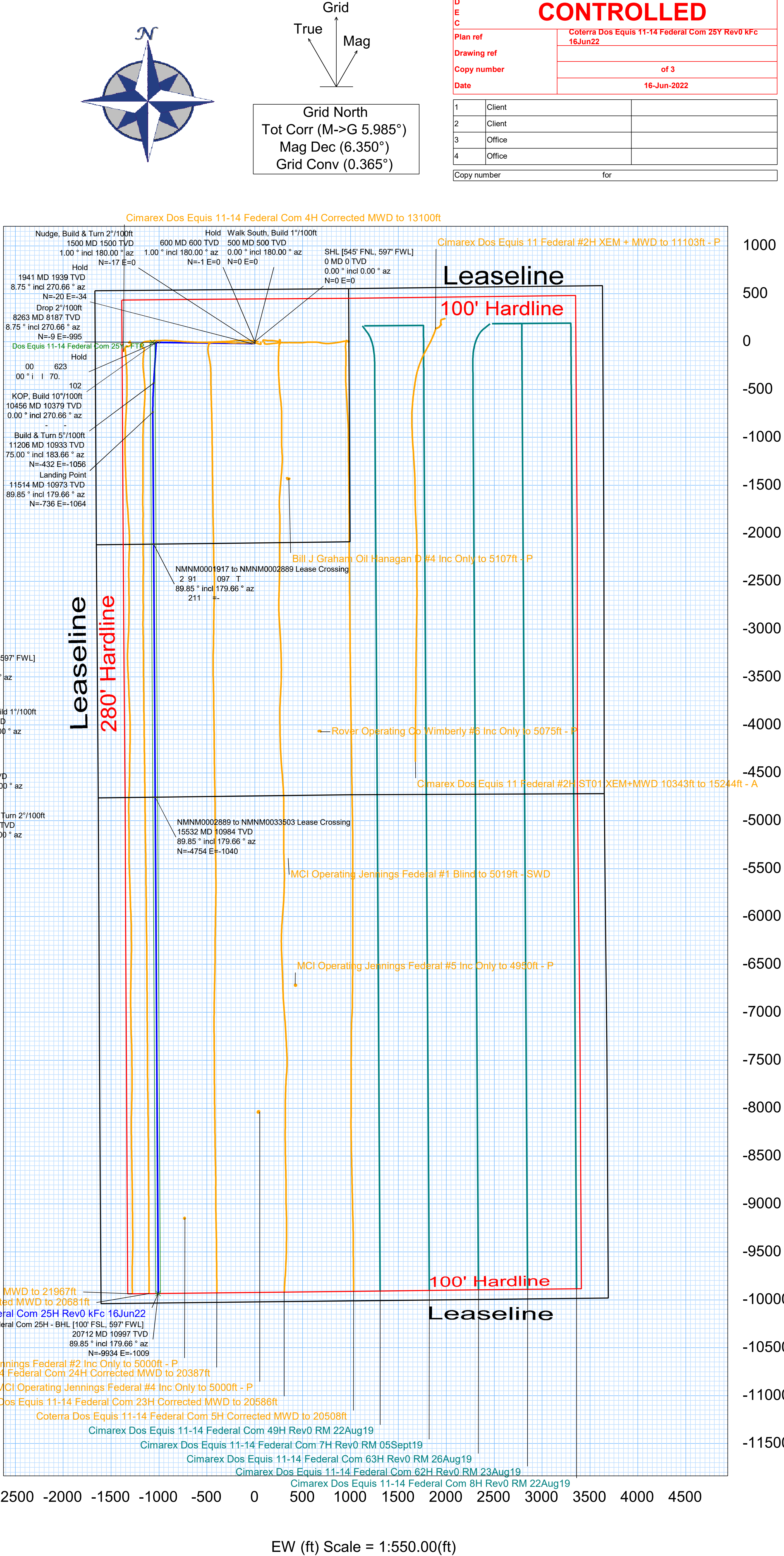
Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
5300.00	5259.03	-14.15	-544.57	4950.00	4989.78	-6708.02	422.40	172.23	6768.71	263.30	6505.40	6592.34	38.92	OSF1.50	Pass
5400.00	5357.87	-13.97	-559.78	4950.00	4989.78	-6708.02	422.40	172.23	6775.72	263.42	6512.30	6599.27	38.94	OSF1.50	Pass
5500.00	5456.70	-13.80	-574.99	4950.00	4989.78	-6708.02	422.40	172.23	6784.20	263.49	6520.71	6607.71	38.98	OSF1.50	Pass
5600.00	5555.54	-13.62	-590.21	4950.00	4989.78	-6708.02	422.40	172.23	6794.14	263.52	6530.63	6617.63	39.03	OSF1.50	Pass
5700.00	5654.37	-13.45	-605.42	4950.00	4989.78	-6708.02	422.40	172.23	6805.54	263.49	6542.05	6629.04	39.10	OSF1.50	Pass
5800.00	5753.21	-13.27	-620.63	4950.00	4989.78	-6708.02	422.40	172.23	6818.38	263.43	6554.96	6641.93	39.18	OSF1.50	Pass
5900.00	5852.05	-13.09	-635.84	4950.00	4989.78	-6708.02	422.40	172.23	6832.67	263.31	6569.36	6656.29	39.28	OSF1.50	Pass
6000.00	5950.88	-12.92	-651.05	4950.00	4989.78	-6708.02	422.40	172.23	6848.38	263.15	6585.23	6672.11	39.40	OSF1.50	Pass
6100.00	6049.72	-12.74	-666.26	4950.00	4989.78	-6708.02	422.40	172.23	6865.52	262.95	6602.57	6689.38	39.53	OSF1.50	Pass
6200.00	6148.55	-12.57	-681.48	4950.00	4989.78	-6708.02	422.40	172.23	6884.06	262.71	6621.36	6708.09	39.67	OSF1.50	Pass
6300.00	6247.39	-12.39	-696.69	4950.00	4989.78	-6708.02	422.40	172.23	6904.01	262.42	6641.59	6728.23	39.83	OSF1.50	Pass
6400.00	6346.23	-12.22	-711.90	4950.00	4989.78	-6708.02	422.40	172.23	6925.34	262.10	6663.24	6749.78	40.00	OSF1.50	Pass
6500.00	6445.06	-12.04	-727.11	4950.00	4989.78	-6708.02	422.40	172.23	6948.04	261.73	6686.31	6772.72	40.19	OSF1.50	Pass
6600.00	6543.90	-11.87	-742.32	4950.00	4989.78	-6708.02	422.40	172.23	6972.11	261.33	6710.78	6797.06	40.39	OSF1.50	Pass
6700.00	6642.74	-11.69	-757.53	4950.00	4989.78	-6708.02	422.40	172.23	6997.52	260.88	6736.64	6822.77	40.61	OSF1.50	Pass
6800.00	6741.57	-11.51	-772.75	4950.00	4989.78	-6708.02	422.40	172.23	7024.26	260.41	6763.86	6849.83	40.84	OSF1.50	Pass
6900.00	6840.41	-11.34	-787.96	4950.00	4989.78	-6708.02	422.40	172.23	7052.33	259.89	6792.43	6878.23	41.08	OSF1.50	Pass
7000.00	6939.24	-11.16	-803.17	4950.00	4989.78	-6708.02	422.40	172.23	7081.69	259.35	6822.34	6907.95	41.34	OSF1.50	Pass
7100.00	7038.08	-10.99	-818.38	4950.00	4989.78	-6708.02	422.40	172.23	7112.33	258.77	6853.56	6938.98	41.61	OSF1.50	Pass
7200.00	7136.92	-10.81	-833.59	4950.00	4989.78	-6708.02	422.40	172.23	7144.25	258.16	6886.08	6971.30	41.90	OSF1.50	Pass
7300.00	7235.75	-10.64	-848.80	4950.00	4989.78	-6708.02	422.40	172.23	7177.41	257.53	6919.89	7004.89	42.20	OSF1.50	Pass
7400.00	7334.59	-10.46	-864.01	4950.00	4989.78	-6708.02	422.40	172.23	7211.81	256.86	6954.95	7039.74	42.51	OSF1.50	Pass
7500.00	7433.42	-10.28	-879.23	4950.00	4989.78	-6708.02	422.40	172.23	7247.43	256.17	6991.26	7075.81	42.84	OSF1.50	Pass
7600.00	7532.26	-10.11	-894.44	4950.00	4989.78	-6708.02	422.40	172.23	7284.25	255.46	7028.79	7113.11	43.18	OSF1.50	Pass
7700.00	7631.10	-9.93	-909.65	4950.00	4989.78	-6708.02	422.40	172.23	7322.24	254.72	7067.52	7151.59	43.53	OSF1.50	Pass
7800.00	7729.93	-9.76	-924.86	4950.00	4989.78	-6708.02	422.40	172.23	7361.40	253.97	7107.44	7191.26	43.90	OSF1.50	Pass
7900.00	7828.77	-9.58	-940.07	4950.00	4989.78	-6708.02	422.40	172.23	7401.70	253.19	7148.52	7232.08	44.27	OSF1.50	Pass
8000.00	7927.60	-9.41	-955.28	4950.00	4989.78	-6708.02	422.40	172.23	7443.13	252.39	7190.74	7274.04	44.66	OSF1.50	Pass
8100.00	8026.44	-9.23	-970.50	4950.00	4989.78	-6708.02	422.40	172.23	7485.67	251.58	7234.09	7317.12	45.07	OSF1.50	Pass
8200.00	8125.28	-9.06	-985.71	4950.00	4989.78	-6708.02	422.40	172.23	7529.29	250.75	7278.54	7361.29	45.48	OSF1.50	Pass
8300.00	8224.15	-8.88	-1000.68	4950.00	4989.78	-6708.02	422.40	171.86	7573.95	249.90	7324.05	7406.52	45.91	OSF1.50	Pass
8400.00	8323.40	-8.74	-1012.88	4950.00	4989.78	-6708.02	422.40	170.85	7619.27	249.01	7370.26	7452.43	46.35	OSF1.50	Pass
8500.00	8423.01	-8.64	-1021.60	4950.00	4989.78	-6708.02	422.40	169.84	7665.11	248.08	7417.03	7498.89	46.80	OSF1.50	Pass
8600.00	8522.87	-8.58	-1026.84	4950.00	4989.78	-6708.02	422.40	168.81	7711.39	247.10	7464.29	7545.82	47.27	OSF1.50	Pass
8700.00	8622.85	-8.56	-1028.60	4950.00	4989.78	-6708.02	422.40	167.78	7758.05	246.08	7511.97	7593.16	47.76	OSF1.50	Pass
8800.00	8722.85	-8.56	-1028.60	4950.00	4989.78	-6708.02	422.40	167.78	7805.38	245.02	7560.35	7641.20	48.26	OSF1.50	Pass
8900.00	8822.85	-8.56	-1028.60	4950.00	4989.78	-6708.02	422.40	167.78	7853.70	243.96	7609.73	7690.22	48.77	OSF1.50	Pass
9000.00	8922.85	-8.56	-1028.60	4950.00	4989.78	-6708.02	422.40	167.78	7902.98	242.89	7660.09	7740.22	49.30	OSF1.50	Pass
9100.00	9022.85	-8.56	-1028.60	4950.00	4989.78	-6708.02	422.40	167.78	7953.22	241.82	7711.41	7791.18	49.83	OSF1.50	Pass
9200.00	9122.85	-8.56	-1028.60	4950.00	4989.78	-6708.02	422.40	167.78	8004.40	240.74	7763.66	7843.07	50.38	OSF1.50	Pass
9300.00	9222.85	-8.56	-1028.60	4950.00	4989.78	-6708.02	422.40	167.78	8056.49	239.66	7816.83	7895.88	50.94	OSF1.50	Pass
9400.00	9322.85	-8.56	-1028.60	4950.00	4989.78	-6708.02	422.40	167.78	8109.48	238.58	7870.90	7949.59	51.51	OSF1.50	Pass
9500.00	9422.85	-8.56	-1028.60	4950.00	4989.78	-6708.02	422.40	167.78	8163.35	237.50	7925.85	8004.18	52.09	OSF1.50	Pass
9600.00	9522.85	-8.56	-1028.60	4950.00	4989.78	-6708.02	422.40	167.78	8218.08	236.42	7981.66	8059.63	52.68	OSF1.50	Pass
9700.00	9622.85	-8.56	-1028.60	4950.00	4989.78	-6708.02	422.40	167.78	8273.56	235.35	8038.31	8115.93	53.28	OSF1.50	Pass
9800.00	9722.85	-8.56	-1028.60	4950.00	4989.78	-6708.02	422.40	167.78	8330.07	234.27	8095.80	8173.05	53.89	OSF1.50	Pass
9900.00	9822.85	-8.56	-1028.60	4950.00	4989.78	-6708.02	422.40	167.78	8387.29	233.21	8154.09	8230.99	54.52	OSF1.50	Pass
10000.00	9922.85	-8.56	-1028.60	4950.00	4989.78	-6708.02	422.40	167.78	8445.31	232.14	8213.17	8289.72	55.15	OSF1.50	Pass
10100.00	10022.85	-8.56	-1028.60	4950.00	4989.78	-6708.02	422.40	167.78	8504.11	231.09	8273.02	8349.22	55.79	OSF1.50	Pass
10200.00	10122.85	-8.56	-1028.60	4950.00	4989.78	-6708.02	422.40	167.78	8563.67	230.04	8333.63	8409.48	56.44	OSF1.50	Pass
10300.00	10222.85	-8.56	-1028.60	4950.00	4989.78	-6708.02	422.40	167.78	8623.99	229.00	8394.98	8470.48	57.10	OSF1.50	Pass
10400.00	10322.85	-8.56	-1028.60	4950.00	4989.78	-6708.02	422.40	167.78	8685.03	227.97	8457.06	8532.22	57.76	OSF1.50	Pass
10500.00	10422.81	-10.22	-1028.71	4950.00	4989.78	-6708.02	422.40	168.63	8745.51	226.68	8518.83	8593.56	58.50	OSF1.50	Pass
10600.00	10521.35	-26.45	-1029.74	4950.00	4989.78	-6708.02	422.40	170.04	8794.90	225.19	8569.71	8643.94	59.22	OSF1.50	Pass
10700.00	10615.57	-59.51	-1031.86	4950.00	4989.78	-6708.02	422.40	170.90	8829.89	223.57	8606.33	8680.02	59.90	OSF1.50	Pass
10800.00	10702.60	-108.39	-1034.98	4950.00	4989.78	-6708.02	422.40	171.33	8849.60	221.85	8627.75	8700.86	60.50	OSF1.50	Pass
10900.00	10779.81	-171.61	-1039.02	4950.00	4989.78	-6708.02	422.40	171.42	8853.52	220.10	8633.42	8705.96	61.01	OSF1.50	Pass
11000.00	10844.85	-247.25	-1043.85	4950.00	4989.78	-6708.02	422.40	171.16	8841.56	218.35	8623.21	8695.16	61.42	OSF1.50	Pass
11100.00	10895.73	-333.02	-1049.33	4950.00	4989.78	-6708.02	422.40	170.52	8814.02	216.66	8597.36	8668.74	61.72	OSF1.50	Pass
11200.00	10930.92	-426.30	-1055.29	4950.00	4989.78	-6708.02	422.40	169.41	8771.59	215.08	8556.51	8627.37	61.88	OSF1.50	Pass
11300.00	10953.24	-523.60	-1060.50	4950.00	4989.78	-6708.02	422.40	168.39	8718.31	213.60	8504.71	8575.08	61.93	OSF1.50	Pass
11400.00	10967.26	-622.53	-1063.52	4950.00	4989.78	-6708.02	422.40	167.34	8658.60	212.17	8446.43	8516.32	61.93	OSF1.50	Pass
11500.00	10972.89	-722.34	-1064.33	4950.00	4989.78	-6708.02	422.40	166.22	8592.81	210.83	8381.98	8451.42	61.85	OSF1.50	Pass
11600.00	10973.23	-822.34	-1063.75	4950.00	4989.78	-6708.02	422.40	166.06	8523.59	209.52	8314.07	8383.07	61.74	OSF1.50	Pass
11700.00	10973.49	-922.34	-1063.15	4950.00	4989.78	-6708.02	422.40	166.06	8454.93	208.20	8246.73	8315.29	61.64	OSF1.50	Pass
11800.00	10973.75	-1022.33	-1062.55	4950.00	4989.78	-6708.02	422.40								

Trajectory: Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22 Vs. MCI Operating Jennings Federal #5 Inc Only to 4950ft - P

Reference MD (ft)	Reference TVD (ft)	Reference NS (ft)	Reference EW (ft)	Offset MD (ft)	Offset TVD (ft)	Offset NS (ft)	Offset EW (ft)	Traveling Cylinder North Azim (°)	Ct-Ct Distance (ft)	Minimum Allowable Separation (ft)	Allowable Deviation from Reference (ft)	EOU-EOU Clearance (ft)	OSF	Controlling Rule	Status
13800.00	10978.99	-3022.29	-1050.53	4950.00	4989.78	-6708.02	422.40	166.06	7185.04	179.49	7005.55	7064.55	60.87	OSF1.50	Pass
13900.00	10979.25	-3122.29	-1049.93	4950.00	4989.78	-6708.02	422.40	166.06	7134.36	178.24	6956.12	7014.70	60.87	OSF1.50	Pass
14000.00	10979.52	-3222.29	-1049.33	4950.00	4989.78	-6708.02	422.40	166.06	7084.72	177.02	6907.70	6965.87	60.87	OSF1.50	Pass
14100.00	10979.78	-3322.28	-1048.73	4950.00	4989.78	-6708.02	422.40	166.06	7036.16	175.84	6860.32	6918.10	60.87	OSF1.50	Pass
14200.00	10980.04	-3422.28	-1048.13	4950.00	4989.78	-6708.02	422.40	166.06	6988.69	174.70	6813.98	6871.38	60.85	OSF1.50	Pass
14300.00	10980.30	-3522.28	-1047.53	4950.00	4989.78	-6708.02	422.40	166.06	6942.33	173.61	6768.72	6825.76	60.84	OSF1.50	Pass
14400.00	10980.56	-3622.28	-1046.93	4950.00	4989.78	-6708.02	422.40	166.06	6897.12	172.57	6724.55	6781.24	60.81	OSF1.50	Pass
14500.00	10980.83	-3722.28	-1046.33	4950.00	4989.78	-6708.02	422.40	166.06	6853.06	171.58	6681.48	6737.84	60.78	OSF1.50	Pass
14600.00	10981.09	-3822.27	-1045.72	4950.00	4989.78	-6708.02	422.40	166.06	6810.19	170.65	6639.54	6695.59	60.73	OSF1.50	Pass
14700.00	10981.35	-3922.27	-1045.12	4950.00	4989.78	-6708.02	422.40	166.06	6768.53	169.78	6598.74	6654.50	60.67	OSF1.50	Pass
14800.00	10981.61	-4022.27	-1044.52	4950.00	4989.78	-6708.02	422.40	166.06	6728.09	168.99	6559.10	6614.60	60.60	OSF1.50	Pass
14900.00	10981.87	-4122.27	-1043.92	4950.00	4989.78	-6708.02	422.40	166.06	6688.90	168.26	6520.64	6575.89	60.51	OSF1.50	Pass
15000.00	10982.14	-4222.26	-1043.32	4950.00	4989.78	-6708.02	422.40	166.06	6650.99	167.62	6483.37	6538.41	60.40	OSF1.50	Pass
15100.00	10982.40	-4322.26	-1042.72	4950.00	4989.78	-6708.02	422.40	166.06	6614.37	167.06	6447.32	6502.17	60.27	OSF1.50	Pass
15200.00	10982.66	-4422.26	-1042.12	4950.00	4989.78	-6708.02	422.40	166.06	6579.07	166.58	6412.49	6467.18	60.12	OSF1.50	Pass
15300.00	10982.92	-4522.26	-1041.52	4950.00	4989.78	-6708.02	422.40	166.06	6545.10	166.20	6378.91	6433.47	59.95	OSF1.50	Pass
15400.00	10983.18	-4622.26	-1040.92	4950.00	4989.78	-6708.02	422.40	166.06	6512.50	165.91	6346.59	6401.06	59.76	OSF1.50	Pass
15500.00	10983.45	-4722.25	-1040.32	4950.00	4989.78	-6708.02	422.40	166.06	6481.27	165.72	6315.55	6369.95	59.54	OSF1.50	Pass
15600.00	10983.71	-4822.25	-1039.71	4950.00	4989.78	-6708.02	422.40	166.06	6451.44	165.64	6285.80	6340.18	59.29	OSF1.50	Pass
15700.00	10983.97	-4922.25	-1039.11	4950.00	4989.78	-6708.02	422.40	166.06	6423.03	165.66	6257.37	6311.75	59.03	OSF1.50	Pass
15800.00	10984.23	-5022.25	-1038.51	4950.00	4989.78	-6708.02	422.40	166.06	6396.06	165.80	6230.26	6284.69	58.73	OSF1.50	Pass
15900.00	10984.49	-5122.25	-1037.91	4950.00	4989.78	-6708.02	422.40	166.06	6370.54	166.04	6204.50	6259.01	58.41	OSF1.50	Pass
16000.00	10984.76	-5222.24	-1037.31	4950.00	4989.78	-6708.02	422.40	166.06	6346.50	166.41	6180.09	6234.73	58.06	OSF1.50	Pass
16100.00	10985.02	-5322.24	-1036.71	4950.00	4989.78	-6708.02	422.40	166.06	6323.94	166.88	6157.06	6211.86	57.68	OSF1.50	Pass
16200.00	10985.28	-5422.24	-1036.11	4950.00	4989.78	-6708.02	422.40	166.06	6302.90	167.48	6135.42	6190.41	57.28	OSF1.50	Pass
16300.00	10985.54	-5522.24	-1035.51	4950.00	4989.78	-6708.02	422.40	166.06	6283.37	168.19	6115.19	6170.41	56.86	OSF1.50	Pass
16400.00	10985.80	-5622.23	-1034.91	4950.00	4989.78	-6708.02	422.40	166.06	6265.38	169.01	6096.37	6151.87	56.42	OSF1.50	Pass
16500.00	10986.07	-5722.23	-1034.31	4950.00	4989.78	-6708.02	422.40	166.06	6248.94	169.96	6078.98	6134.80	55.95	OSF1.50	Pass
16600.00	10986.33	-5822.23	-1033.70	4950.00	4989.78	-6708.02	422.40	166.06	6234.06	171.01	6063.04	6119.21	55.47	OSF1.50	Pass
16700.00	10986.59	-5922.23	-1033.10	4950.00	4989.78	-6708.02	422.40	166.06	6220.75	172.18	6048.56	6105.12	54.97	OSF1.50	Pass
16800.00	10986.85	-6022.23	-1032.50	4950.00	4989.78	-6708.02	422.40	166.06	6209.02	173.47	6035.55	6092.54	54.45	OSF1.50	Pass
16900.00	10987.11	-6122.22	-1031.90	4950.00	4989.78	-6708.02	422.40	166.06	6198.89	174.86	6024.03	6081.48	53.93	OSF1.50	Pass
17000.00	10987.38	-6222.22	-1031.30	4950.00	4989.78	-6708.02	422.40	166.06	6190.35	176.35	6014.00	6071.95	53.39	OSF1.50	Pass
17100.00	10987.64	-6322.22	-1030.70	4950.00	4989.78	-6708.02	422.40	166.06	6183.42	177.94	6005.48	6063.96	52.85	OSF1.50	Pass
17200.00	10987.90	-6422.22	-1030.10	4950.00	4989.78	-6708.02	422.40	166.06	6178.10	179.63	5998.47	6057.51	52.30	OSF1.50	Pass
17300.00	10988.16	-6522.22	-1029.50	4950.00	4989.78	-6708.02	422.40	166.06	6174.39	181.41	5992.98	6052.62	51.75	OSF1.50	Pass
17400.00	10988.42	-6622.21	-1028.90	4950.00	4989.78	-6708.02	422.40	166.06	6172.31	183.28	5989.03	6049.29	51.19	OSF1.50	Pass
17500.00	10988.69	-6722.21	-1028.30	4950.00	4989.78	-6708.02	422.40	166.06	6171.84	185.23	5986.61	6047.52	50.64	OSF1.50	Pass
17600.00	10988.95	-6822.21	-1027.69	4950.00	4989.78	-6708.02	422.40	166.06	6172.99	187.25	5985.74	6047.32	50.10	OSF1.50	Pass
17700.00	10989.21	-6922.21	-1027.09	4950.00	4989.78	-6708.02	422.40	166.06	6175.77	189.35	5986.42	6048.70	49.56	OSF1.50	Pass
17800.00	10989.47	-7022.20	-1026.49	4950.00	4989.78	-6708.02	422.40	166.06	6180.16	191.51	5988.65	6051.65	49.03	OSF1.50	Pass
17900.00	10989.73	-7122.20	-1025.89	4950.00	4989.78	-6708.02	422.40	166.06	6186.16	193.73	5992.43	6056.17	48.50	OSF1.50	Pass
18000.00	10990.00	-7222.20	-1025.29	4950.00	4989.78	-6708.02	422.40	166.06	6193.77	196.00	5997.77	6062.27	47.99	OSF1.50	Pass
18100.00	10990.26	-7322.20	-1024.69	4950.00	4989.78	-6708.02	422.40	166.06	6202.99	198.33	6004.66	6069.94	47.49	OSF1.50	Pass
18200.00	10990.52	-7422.20	-1024.09	4950.00	4989.78	-6708.02	422.40	166.06	6213.80	200.69	6013.11	6079.17	47.01	OSF1.50	Pass
18300.00	10990.78	-7522.19	-1023.49	4950.00	4989.78	-6708.02	422.40	166.06	6226.20	203.09	6023.10	6089.97	46.54	OSF1.50	Pass
18400.00	10991.04	-7622.19	-1022.89	4950.00	4989.78	-6708.02	422.40	166.06	6240.17	205.52	6034.65	6102.32	46.09	OSF1.50	Pass
18500.00	10991.31	-7722.19	-1022.29	4950.00	4989.78	-6708.02	422.40	166.06	6255.72	207.98	6047.74	6116.23	45.65	OSF1.50	Pass
18600.00	10991.57	-7822.19	-1021.68	4950.00	4989.78	-6708.02	422.40	166.06	6272.82	210.46	6062.36	6131.68	45.23	OSF1.50	Pass
18700.00	10991.83	-7922.19	-1021.08	4950.00	4989.78	-6708.02	422.40	166.06	6291.46	212.95	6078.51	6148.66	44.82	OSF1.50	Pass
18800.00	10992.09	-8022.18	-1020.48	4950.00	4989.78	-6708.02	422.40	166.06	6311.63	215.46	6096.17	6167.16	44.44	OSF1.50	Pass
18900.00	10992.35	-8122.18	-1019.88	4950.00	4989.78	-6708.02	422.40	166.06	6333.32	217.97	6115.35	6187.17	44.07	OSF1.50	Pass
19000.00	10992.61	-8222.18	-1019.28	4950.00	4989.78	-6708.02	422.40	166.06	6356.51	220.48	6136.02	6208.68	43.72	OSF1.50	Pass
19100.00	10992.88	-8322.18	-1018.68	4950.00	4989.78	-6708.02	422.40	166.06	6381.18	223.00	6158.18	6231.68	43.39	OSF1.50	Pass
19200.00	10993.14	-8422.17	-1018.08	4950.00	4989.78	-6708.02	422.40	166.06	6407.31	225.50	6181.81	6256.14	43.08	OSF1.50	Pass
19300.00	10993.40	-8522.17	-1017.48	4950.00	4989.78	-6708.02	422.40	166.06	6434.90	228.00	6206.90	6282.06	42.79	OSF1.50	Pass
19400.00	10993.66	-8622.17	-1016.88	4950.00	4989.78	-6708.02	422.40	166.06	6463.91	230.48	6233.43	6309.42	42.51	OSF1.50	Pass
19500.00	10993.92	-8722.17	-1016.28	4950.00	4989.78	-6708.02	422.40	166.06	6494.33	232.95	6261.39	6338.20	42.26	OSF1.50	Pass
19600.00	10994.19	-8822.17	-1015.68	4950.00	4989.78	-6708.02	422.40	166.06	6526.15	235.39	6290.75	6368.39	42.02	OSF1.50	Pass
19700.00	10994.45	-8922.16	-1015.07	4950.00	4989.78	-6708.02	422.40	166.06	6559.33	237.82	6321.51	6399.95	41.80	OSF1.50	Pass
19800.00	10994.71	-9022.16	-1014.47	4950.00	4989.78	-6708.02	422.40	166.06	6593.87	240.22	6353.65	6432.89	41.59	OSF1.50	Pass
19900.00	10994.97	-9122.16	-1013.87	4950.00	4989.78	-6708.02	422.40	166.06	6629.73	242.59	6387.14	6467.17	41.40	OSF1.50	Pass
20000.00	10995.23	-9222.16	-1013.27	4950.00	4989.78	-6708.02	422.40	166.06	6666.90	244.94	6421.96	6502.77	41.23	OSF1.50	Pass
20100.00	10995.50	-9322.16	-1012.67	4950.00	4989.78	-6708.02	422.40	166.06	6705.36	247.25	6458.10	6539.69	41.08	OSF1.50	Pass
20200.00															

Borehole: Dos Equis 11-14 Federal Com 25H			Well: Dos Equis 11-14 Federal Com 25H			Field: NM Lea County (NAD 83)			Structure: Coterra Dos Equis 11-14 Fed Com Pad (East)		
Gravity & Magnetic Parameters			Surface Location			NAD83 New Mexico State Plane, Eastern Zone, US Feet			Miscellaneous		
Model:	HDGM 2022	Dip:	59.837°	Date:	16-Jun-2022	Lat:	N 32 14 16.47	Northing:	450959.62ftUS	Grid Conv:	0.3653°
MagDec:	6.35°	FS:	47590.403nT	Gravity FS:	998.436mgn (9.80665 Based)	Lon:	W 103 38 54.85	Easting:	753058.55ftUS	Scale Fact:	0.99996043
									Slot:	New Slot	TVD Ref:
									Plan:	Coterra Dos Equis 11-14 Federal Com 25H Rev0 kFc 16Jun22	RKB = 22ft (3640.6ft above MSL)

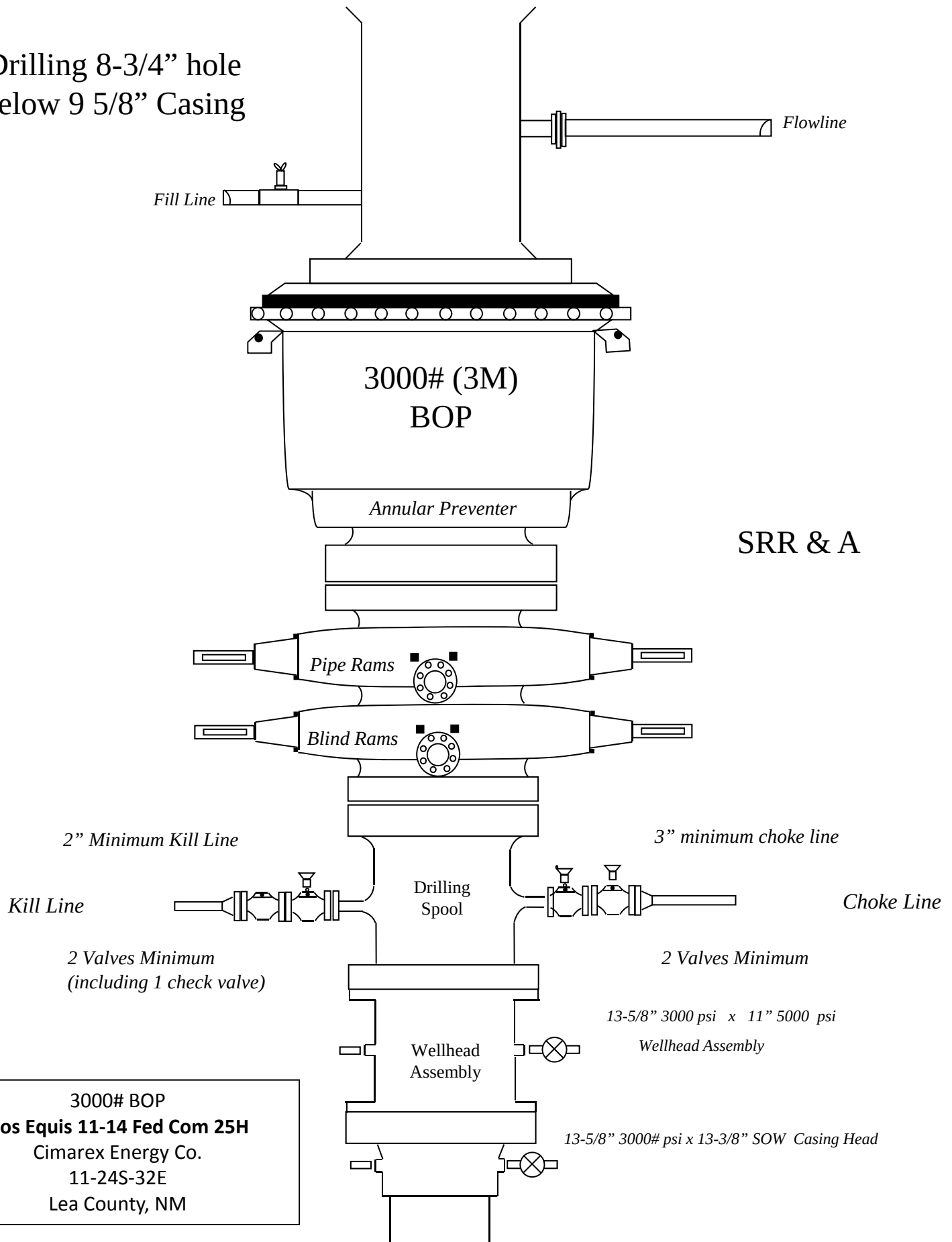
Critical Point		MD	INCL	AZIM	Critical Points		TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL [545' FNL, 597' FWL]		0.00	0.00	0.00			0.00	0.00	0.00	0.00	0.00
Walk South, Build 1°/100ft		500.00	0.00	180.00			500.00	0.00	0.00	0.00	0.00
Hold		600.00	1.00	180.00			599.99	0.87	-0.87	0.00	1.00
Rustler		1166.09	1.00	180.00			1166.00	10.75	-10.75	0.00	0.00
Salado (Top Salt)		1390.13	1.00	180.00			1390.00	14.66	-14.66	0.00	0.00
Nudge, Build & Turn 2°/100ft		1500.00	1.00	180.00			1499.86	16.58	-16.58	0.00	0.00
Hold		1940.91	8.75	270.66			1939.03	19.85	-20.05	-33.60	2.00
Base Salt		4718.20	8.75	270.66			4684.00	12.46	-15.17	-456.07	0.00
Lamar		4946.86	8.75	270.66			4910.00	11.86	-14.77	-490.85	0.00
Bell Canyon		5002.51	8.75	270.66			4965.00	11.71	-14.67	-499.32	0.00
Cherry Canyon		5906.02	8.75	270.66			5858.00	9.31	-13.08	-636.76	0.00
Brushy Canyon		7286.09	8.75	270.66			7222.00	5.64	-10.66	-846.69	0.00
Drop 2°/100ft		8262.80	8.75	270.66			8187.34	3.04	-8.95	-995.26	0.00
Hold		8700.30	0.00	270.66			8623.15	2.46	-8.56	-1028.60	2.00
Bone Spring		8856.15	0.00	270.66			8779.00	2.46	-8.56	-1028.60	0.00
Leonard Shale		8969.15	0.00	270.66			8892.00	2.46	-8.56	-1028.60	0.00
Avalon Shale		9296.15	0.00	270.66			9219.00	2.46	-8.56	-1028.60	0.00
1st Bone Spring Sand		10021.15	0.00	270.66			9944.00	2.46	-8.56	-1028.60	0.00
2nd Bone Spring Carb		10185.15	0.00	270.66			10108.00	2.46	-8.56	-1028.60	0.00
KOP, Build 10°/100ft		10456.30	0.00	270.66			10379.15	2.46	-8.56	-1028.60	0.00
2nd Bone Spring Sand		10555.65	9.93	183.66			10478.00	11.03	-17.13	-1029.15	10.00
Build & Turn 5°/100ft		11206.30	75.00	183.66			10932.58	426.09	-432.36	-1055.68	10.00
Landing Point		11513.65	89.85	179.66			10973.00	729.66	-735.99	-1064.27	5.00
NMNM0001917 to NMNM0002889 Lease Crossing		12891.19	89.85	179.66			10976.61	2107.20	-2113.50	-1055.99	0.00
NMNM0002889 to NMNM0033503 Lease Crossing		15531.82	89.85	179.66			10983.53	4747.81	-4754.07	-1040.12	0.00
Dos Equis 11-14 Federal Com 25Y - BHL [100' FSL, 597' FWL]		20712.06	89.85	179.66			10997.10	9928.04	-9934.20	-1008.99	0.00
3rd Bone Spring Carb		NaN					11036.00				



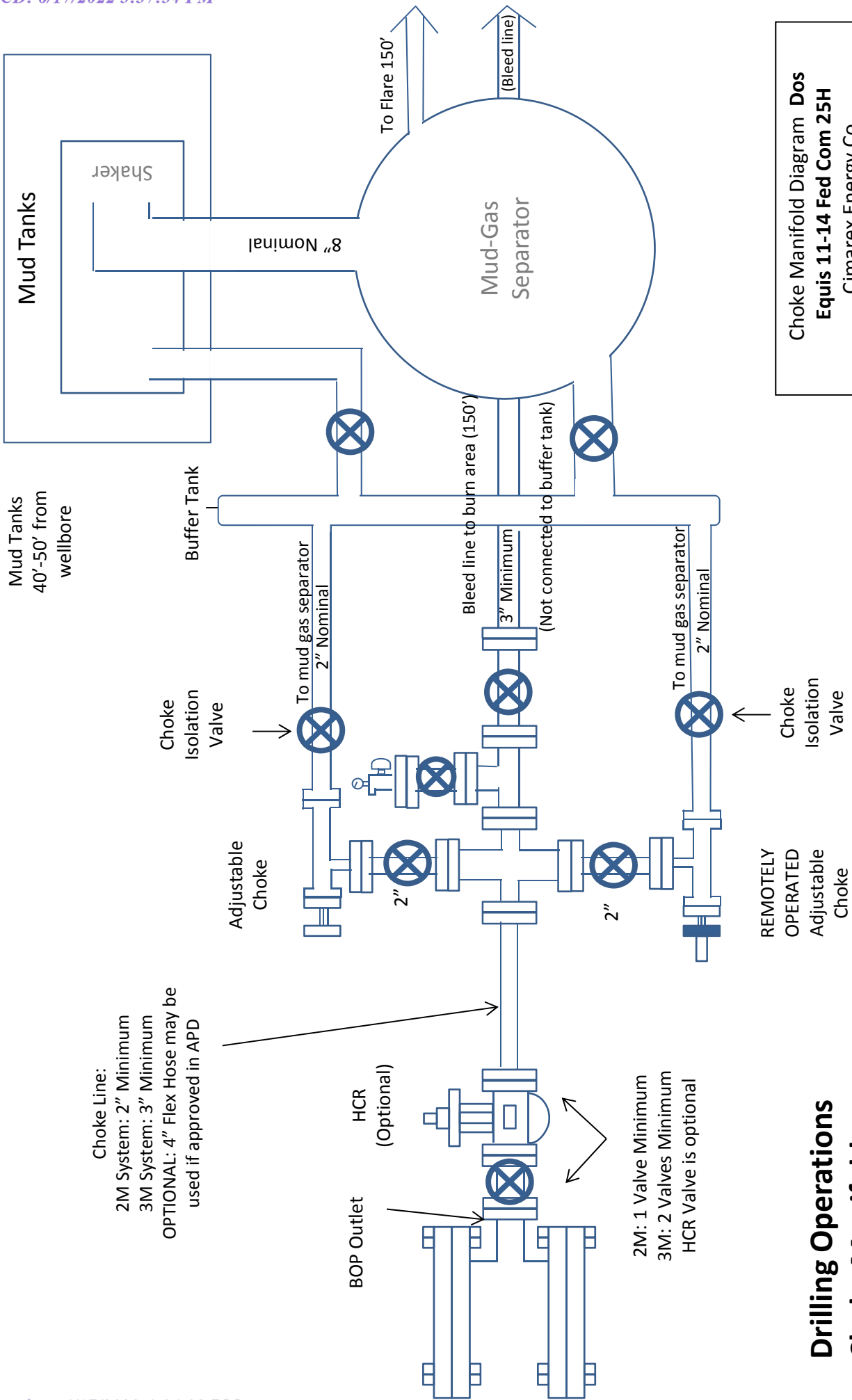
Vertical Section (ft) Azim = 179.66° Scale = 1:700.00(ft) Origin = 0N/-S, 0E/-W

EW (ft) Scale = 1:550.00(ft)

Drilling 8-3/4" hole
below 9 5/8" Casing



3000# BOP
Dos Equis 11-14 Fed Com 25H
Cimarex Energy Co.
11-24S-32E
Lea County, NM



Drilling 6" hole
below 7" Casing

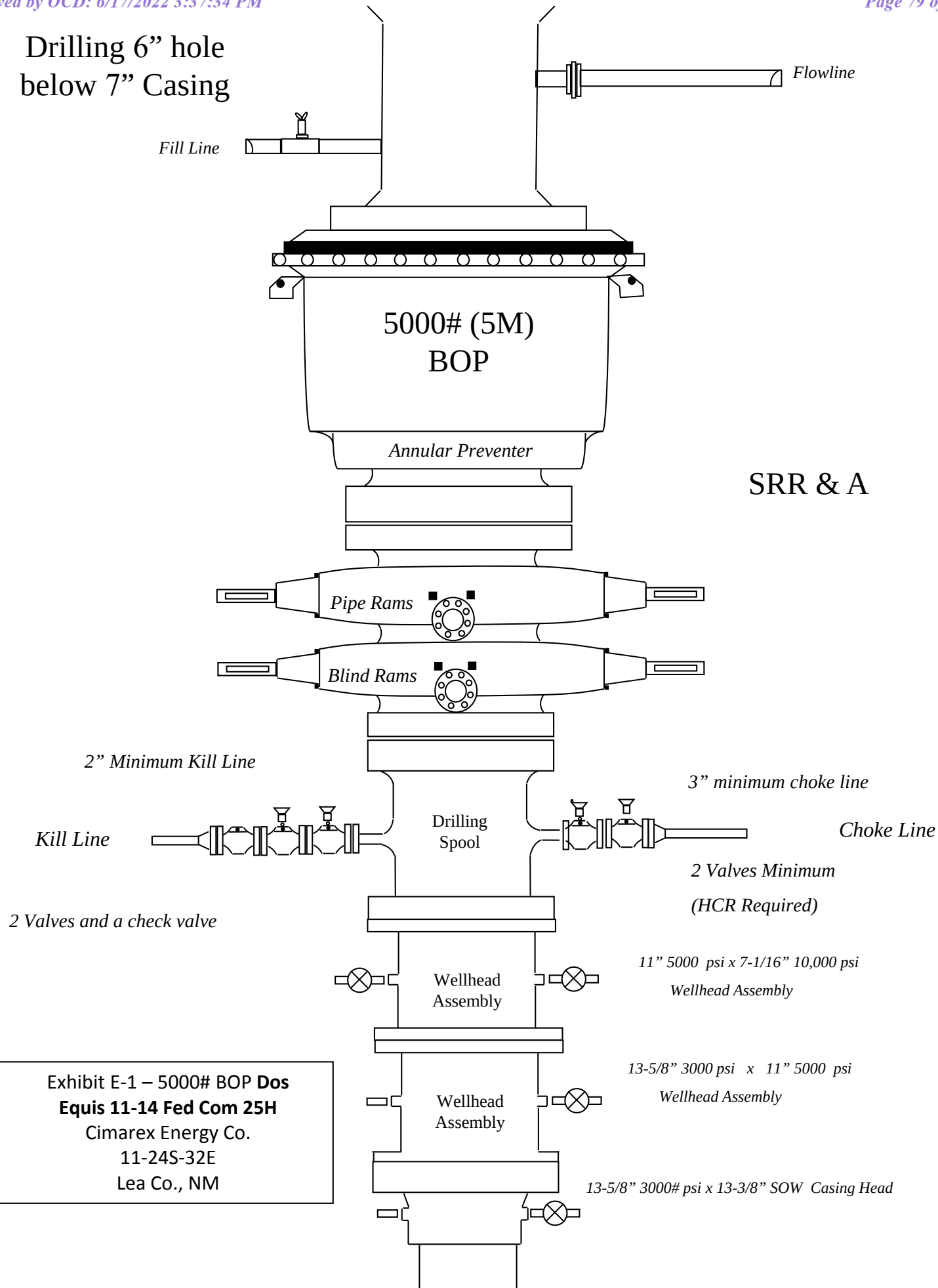
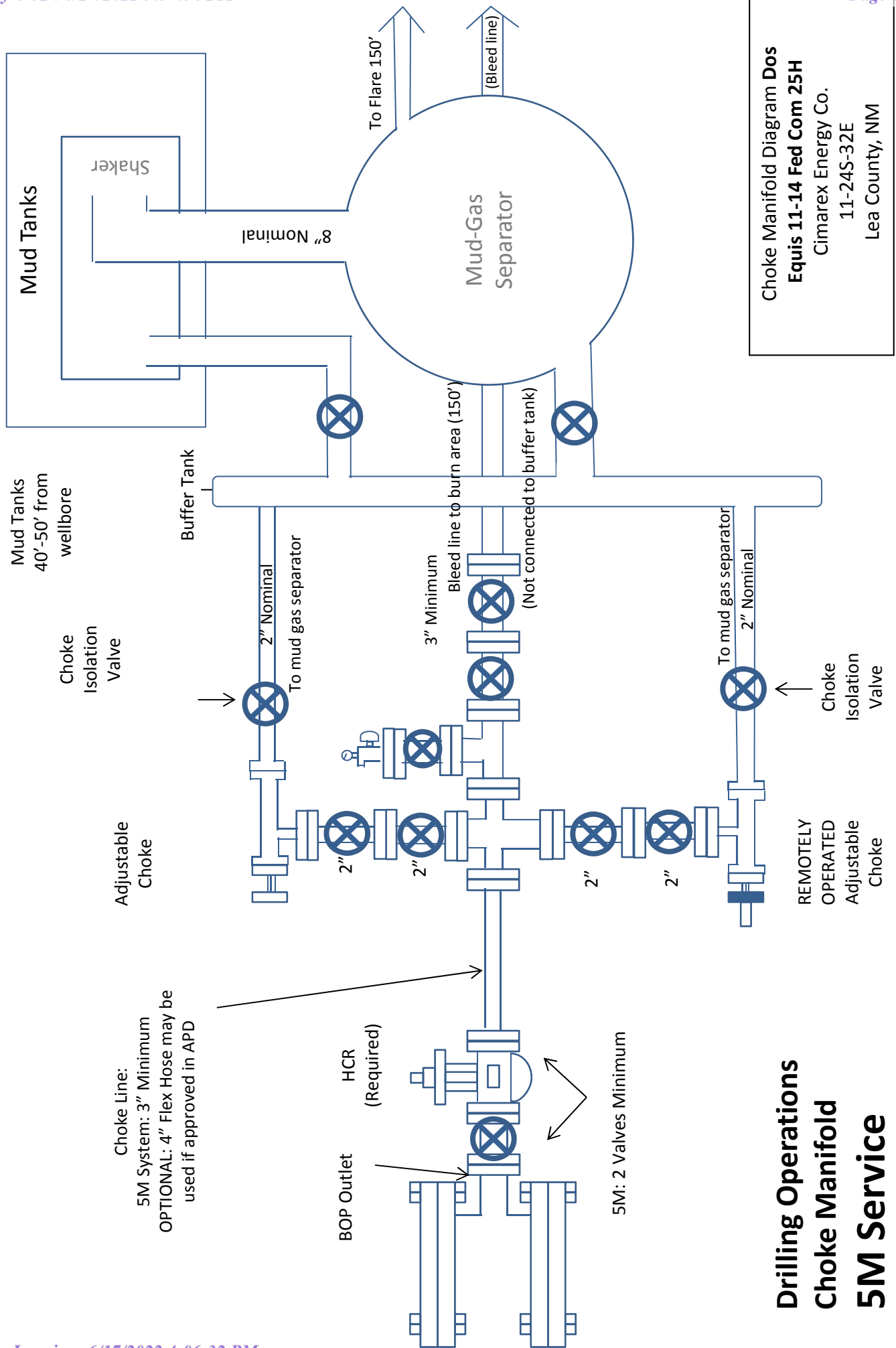
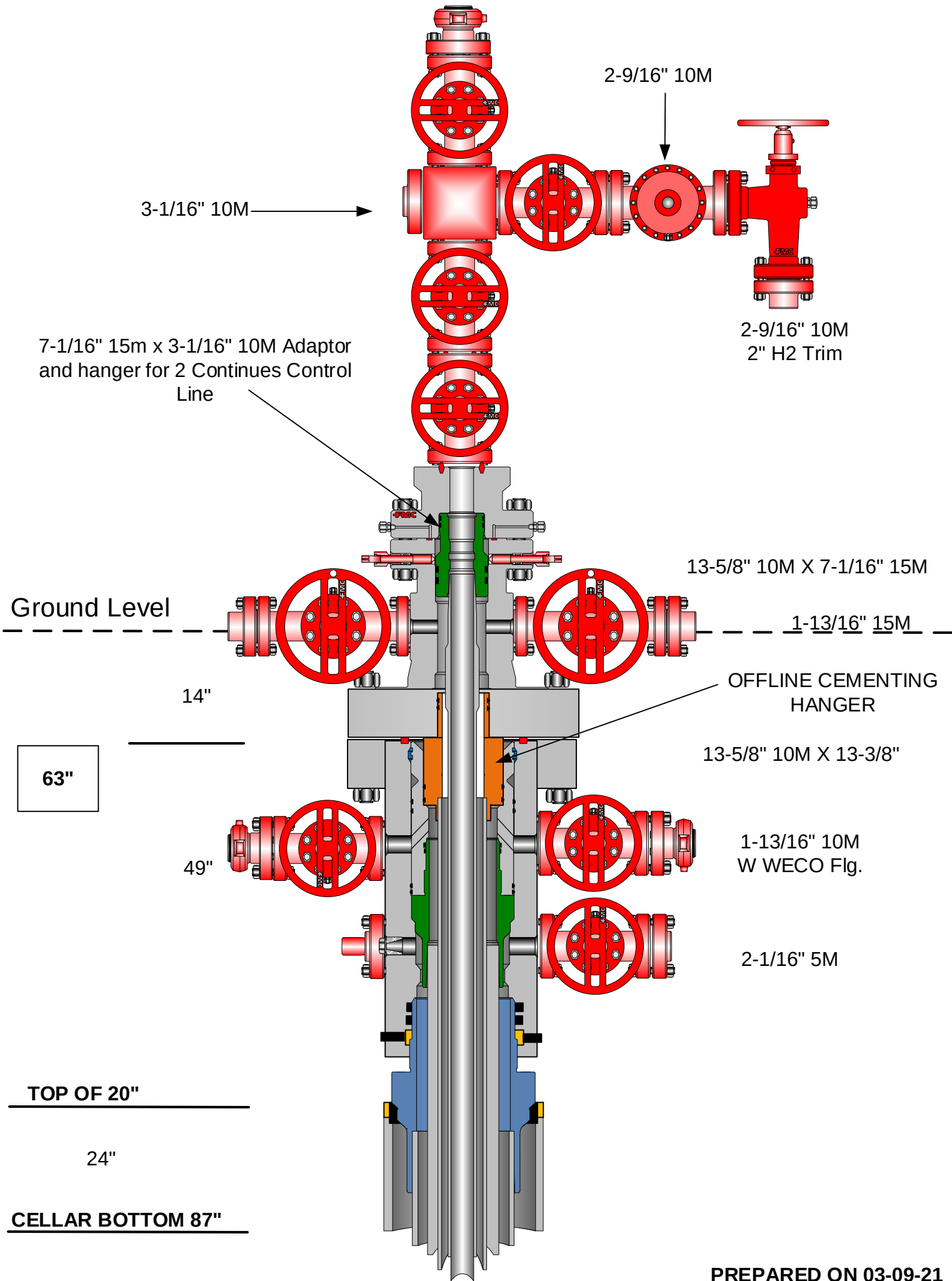


Exhibit E-1 – 5000# BOP Dos
Equis 11-14 Fed Com 25H
Cimarex Energy Co.
11-24S-32E
Lea Co., NM



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	ST&C	1.40	3.28	5.52
12 1/4	0	4860	4860	9-5/8"	40.00	HCK-55	LT&C	1.46	1.52	2.89
8 3/4	0	10522	10522	7"	29.00	L-80	LT&C	1.43	1.66	1.84
8 3/4	10522	11422	11000	7"	29.00	P-110	BT&C	1.66	2.18	67.02
6	9522	20775	11000	4-1/2"	11.60	P-110	BT&C	1.47	2.08	21.41
BLM Minimum Safety Factor								1.125	1	1.6 Dry 1.8 Wet

CACTUS FOR SERVICE
WEARBUSHING
IN CASING HEAD &
CASING SPOOL



PREPARED ON 03-09-21



Cimarex Energy Offline Cementing 7" Casing Information for
Sundry Approval Plan REV0

CIMAREX ENERGY CO. NYSE LISTED: XEC



Cementing Operational Workflow

Conventional Cementing

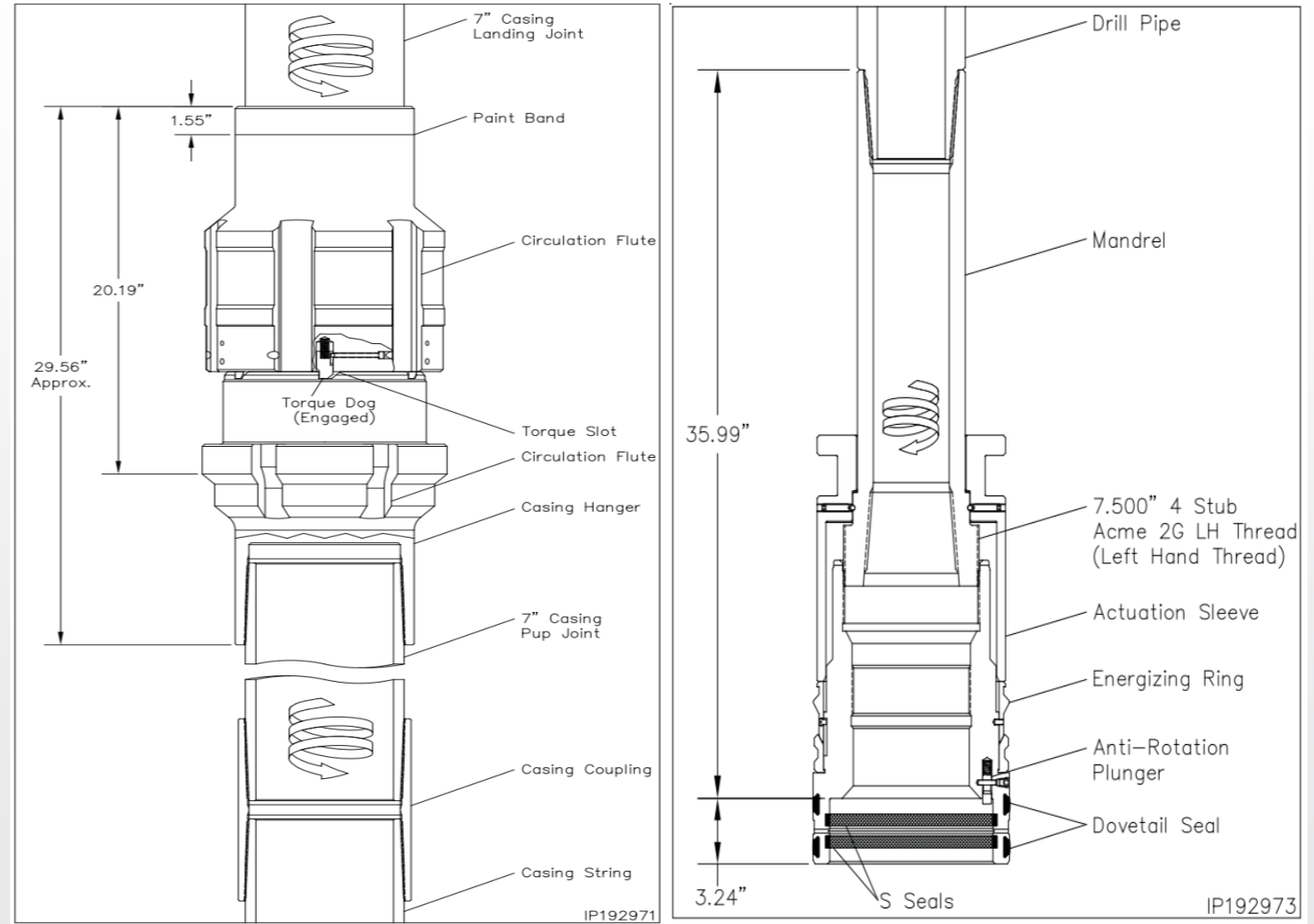
1. Land casing on fluted mandrel hanger
2. Circulate down casing, taking returns through BOP stack
3. Pump lead and tail cement
4. Displace cement and bump the plug
5. Ensure floats are holding pressure
6. RD cement crew
7. Install packoff to isolate pressure
8. Install BPV and skid rig

Offline Cementing

1. Land casing on **solid body** mandrel hanger
 - a) Engage packoff and lockring
2. Install BPV
3. Skid rig
4. Check for pressure and remove BPV
5. Circulate down casing, taking returns through casing valves
6. Pump lead and tail cement
7. Displace cement and bump the plug
8. Ensure floats are holding pressure
9. RD cement crew
10. Install BPV and TA cap

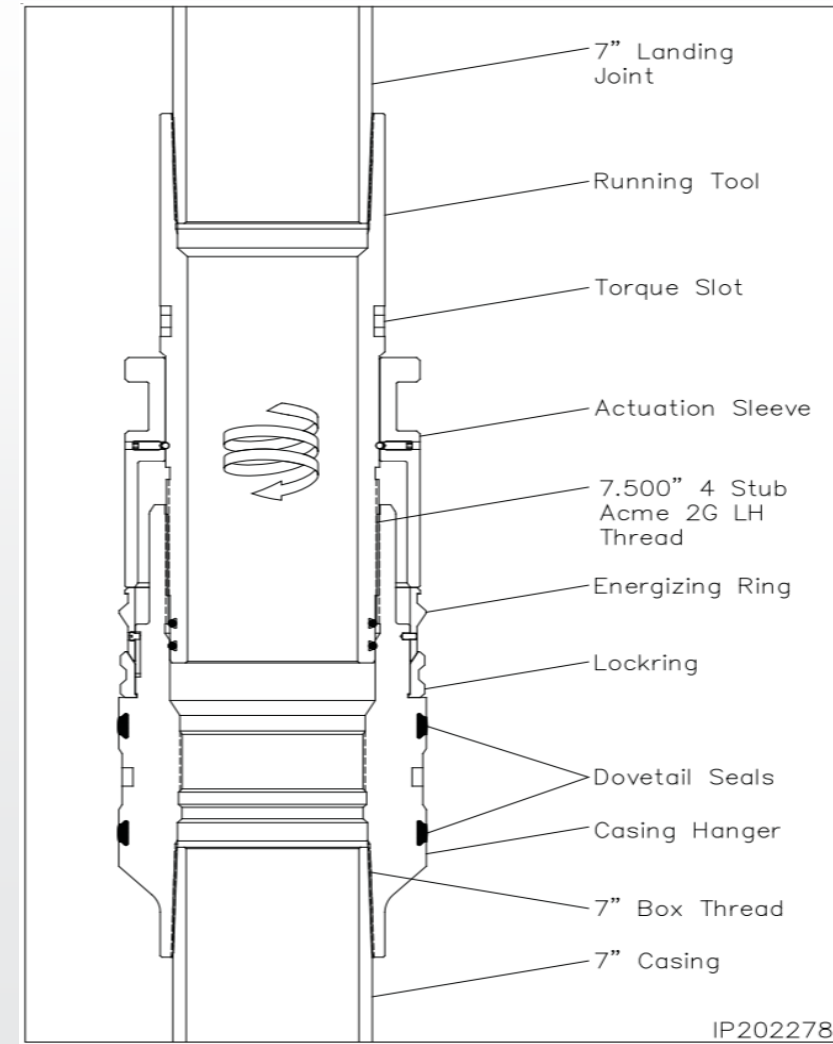
Conventional Cementing Equipment-Fluted Mandrel

- Fluted Hanger allows returns up past the hanger body
- Returns throughout cement job flow up through BOP stack and into flowline
- Packoff is installed **after** cement job to isolate pressure above and below hanger
- Lockring engaged during packoff installation

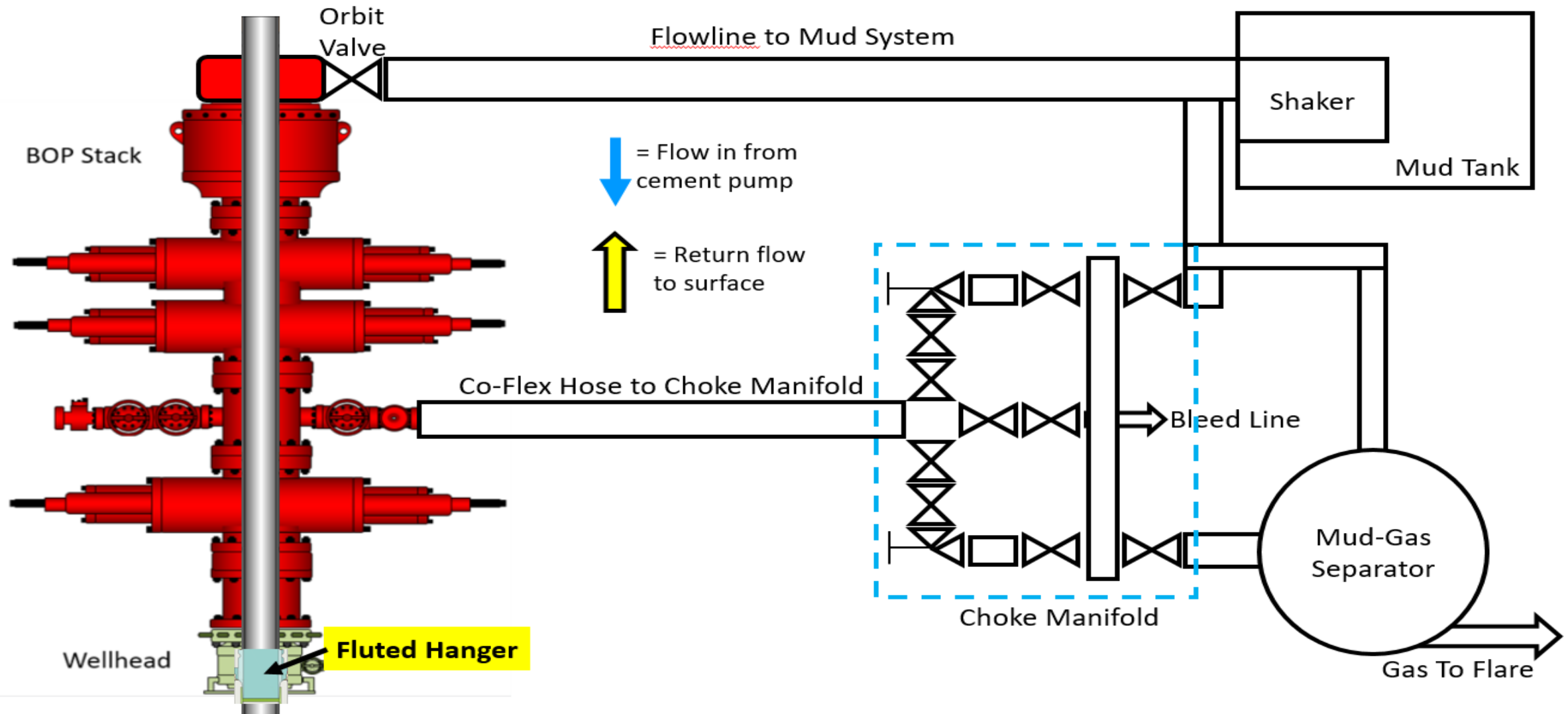


Offline Cementing Equipment-Solid Body Mandrel Hanger

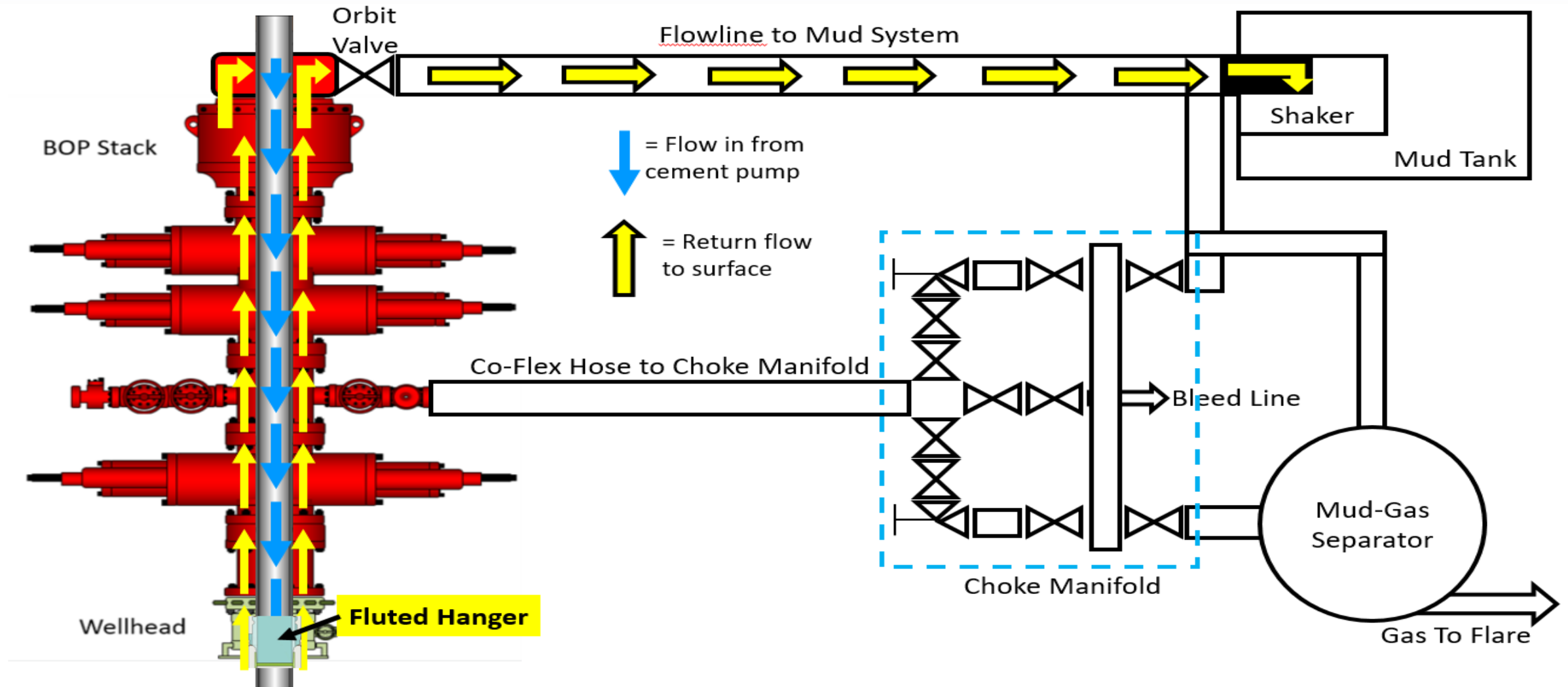
- Solid Body Mandrel Hanger allows for casing to be landed and pressure isolated in one step, **prior** to cementing
- Lockring is engaged to lock casing in place
- Casing is isolated and returns throughout cement job flow through the casing valves and through flowback iron independent of rig



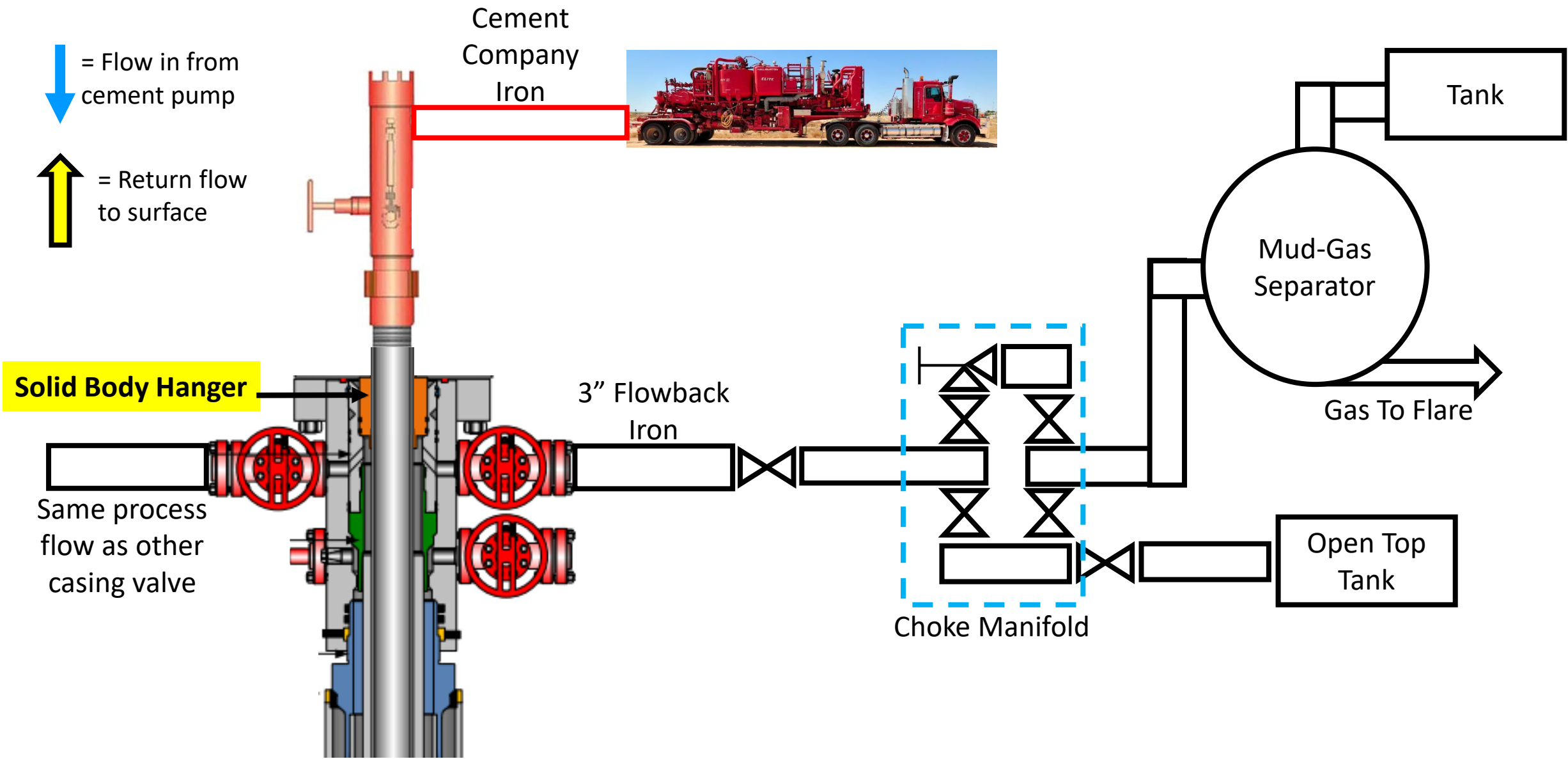
Conventional Cementing Flow Diagram



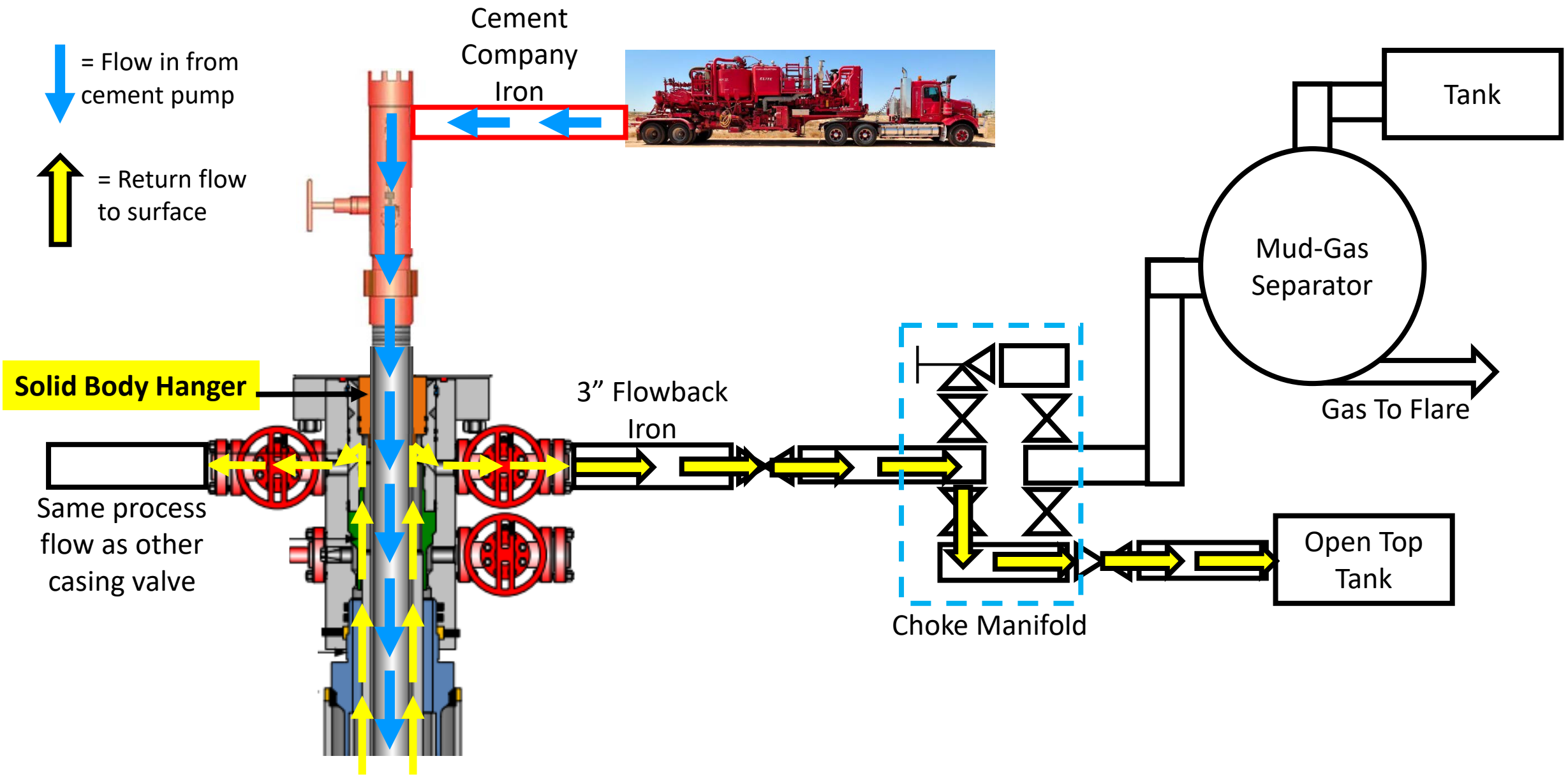
Conventional Cementing Flow Diagram



Offline Cementing -- Intermediate Casing

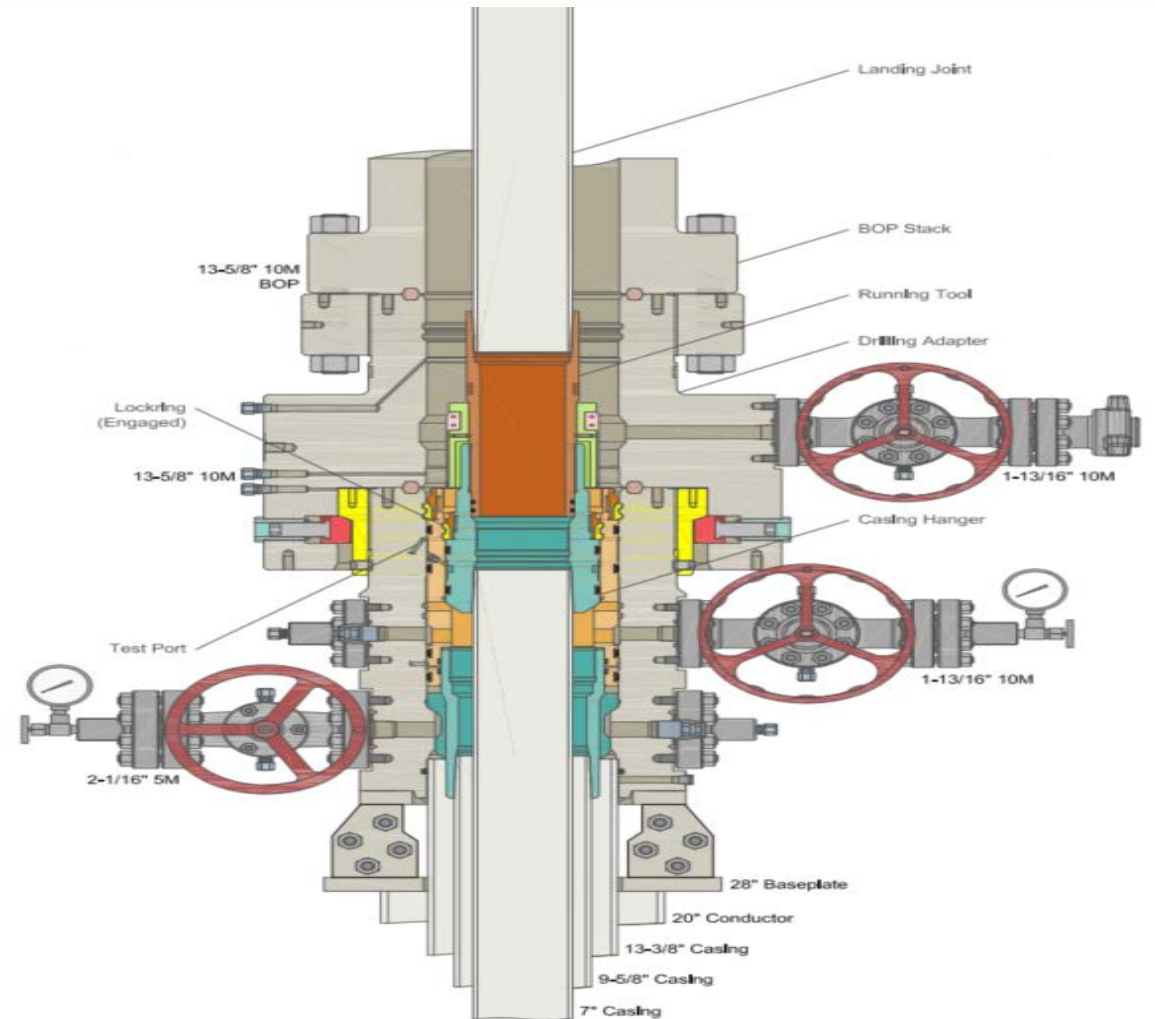


Offline Cementing -- Intermediate Casing



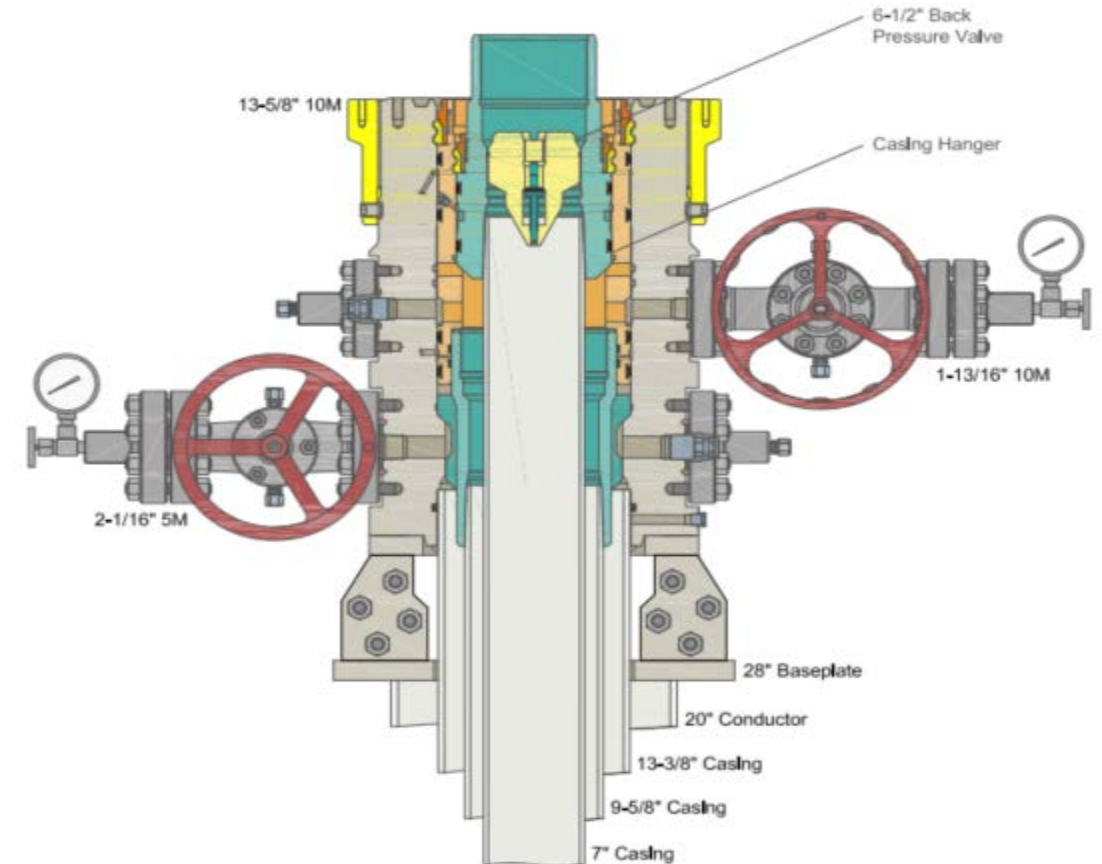
Offline Cementing Progression

- Run 7" casing
- Land 11" nominal x 7" hanger
- Test casing hanger
- Energize 11" nom x 7" hanger lock ring and pull test
- Re-test casing hanger
- Barriers & Procedures after landing casing before setting packoff
 - 10K BOP & 5K Annular-Internal and Annular barrier
 - Kill Weight Fluid in annulus and casing (ensure well is static before setting solid body packoff) Internal and Annular barrier
 - **If well is not static we WILL NOT set solid body packoff.**
 - 10K float collar-Internal Barrier
 - 10k float Shoe-Internal Barrier
 - **After circulating a 1.5 casing capacities to ensure full column of mud and no entrained gas pumps will be shut off and floats checked for flow**



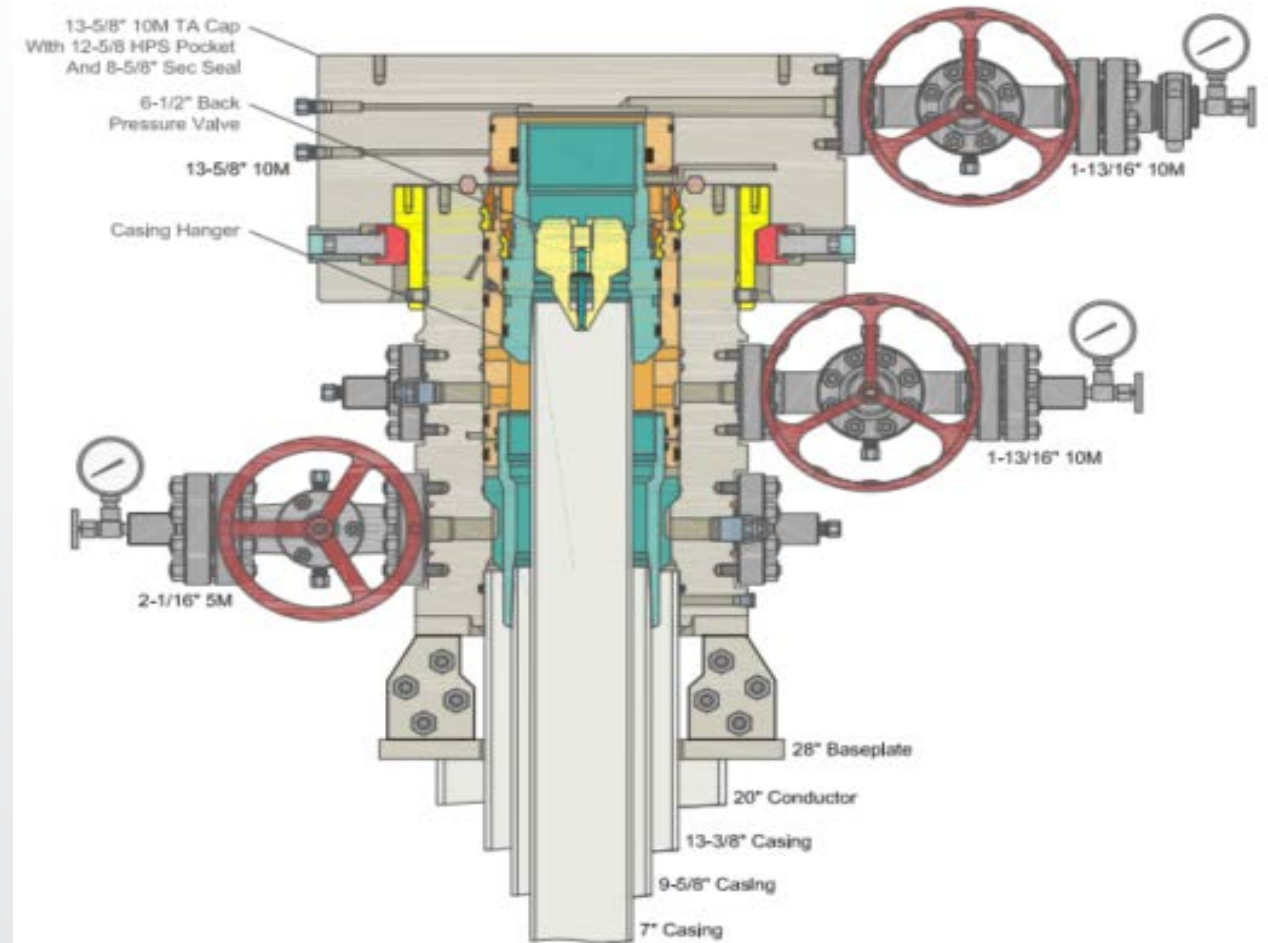
Offline Cementing Progression

- Pick up running tool with 6-1/2" nominal Back Pressure valve run into well and set
- Barriers and procedures **BEFORE** removing BOP's
 - Kill weight Fluid in annulus-Annular Barrier
 - Solid Body Packoff-Annular Barrier
 - 10K Float Equipment-Internal Barrier
 - 10K Back pressure valve installed with BOP still on well-Internal Barrier
 - BPV will be tested before it arrives on location by Cactus



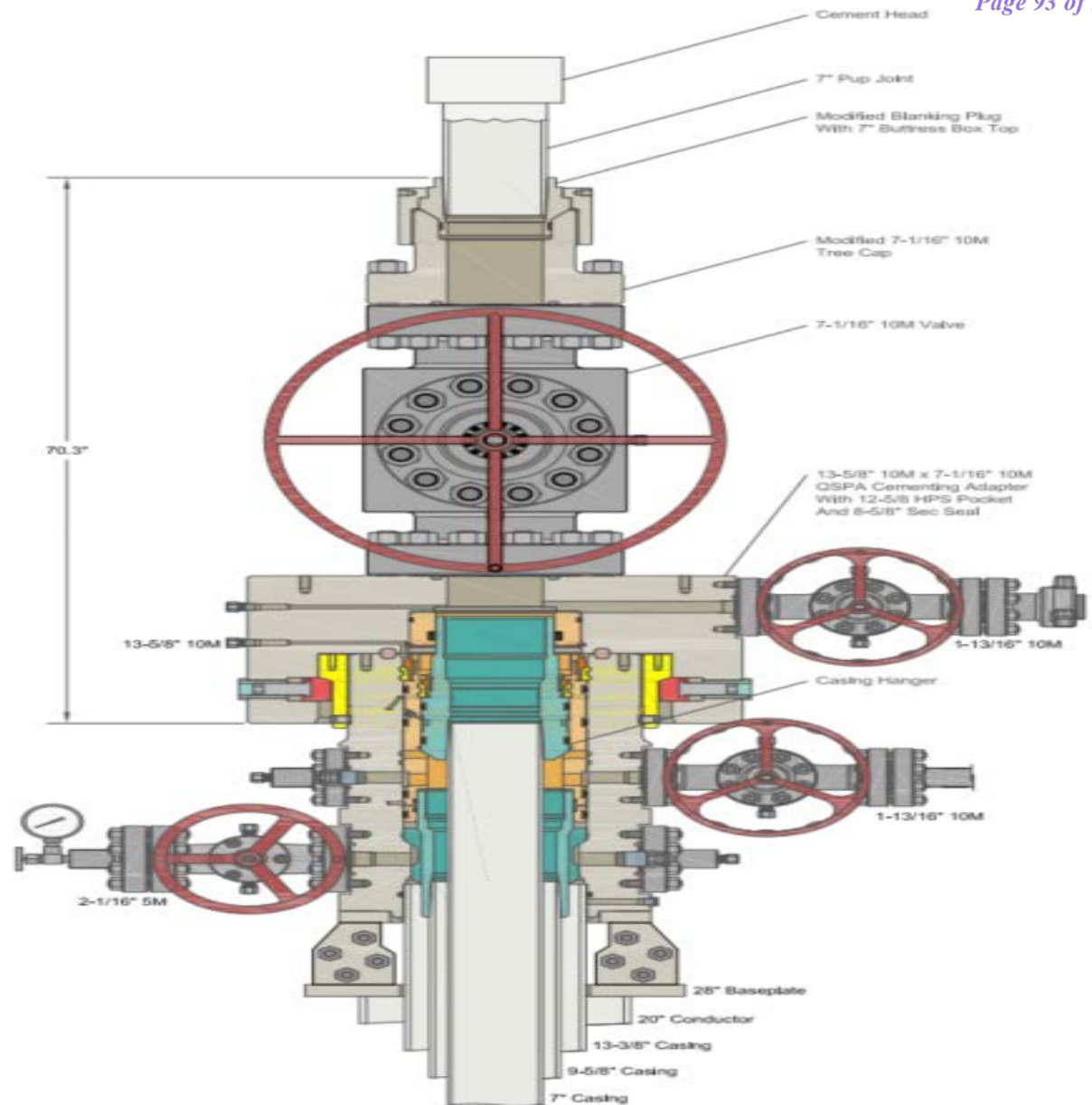
Offline Cementing Progression

- Nipple down BOP
- Nipple up TA Cap and test
- Skid Drilling Rig
- Barriers and procedures **AFTER** removing BOP's
 - Kill weight Fluid in annulus-Annular Barrier
 - Solid Body Packoff-Annular Barrier
 - 10K Float Equipment-Internal Barrier
 - 10K Back pressure valve-Internal Barrier
 - 10K rated TA cap with Valve-Internal Barrier



Offline Cementing Progression

- Check Pressure on TA Cap and remove
- Install adaptor with Gate valve for off line cementing and test
- Rig up flowback iron independent of rig
- Retrieve Back Pressure Valve
- Shut in well
- Rig up to cement and pump job
- NU 10K TA cap after cement job
- Barriers and procedures before rigging up cementing equipment
 - Address well and ensure no pressure on TA cap
 - Ability to pump into well through casing valves on backside to kill if needed
 - Kill weight Fluid in annulus-Annular barrier
 - Solid Body Packoff-Annular barrier
 - 10K Float Equipment-Internal Barrier
 - 10K Back pressure valve-Internal Barrier



Offline Cementing Risk and COA Compliance

- All testing and breaks tested in accordance with Onshore Order # 2 and COA's
- If no cement to surface, bradenhead squeeze still possible with offline cementing equipment
- Time from skid rig to offline cementing ops typically 24 hours
- **Conditions where we would not Offline Cement**
 - **Well is flowing**
- All wellhead equipment rated to 10K maintaining APD compliant
 - 10K flowback iron independent of rig circulating system
 - 10K Back Pressure Valve
 - 10K Gate Valve & TA combo for second barrier during operations
 - 10K 1-13/16 Valve coming off TA cap
 - 10K TA Cap

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description **Effective May 25, 2021**

I. Operator: Cimarex Energy Company **OGRID:** 215099 **Date:** 6 / 17 / 2022

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Dos Equis 11-14 Fed Com 25H		C, Sec 11, T24S, R32E	545 FNL/ 1666 FWL	1200	8400	5000

IV. Central Delivery Point Name: Dos Equis 11-14 4H CDP Sales [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Dos Equis 11-14 Fed Com 25H		06/18/2022	7/18/2022	7/30/2022	8/1/2022	8/1/2022

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

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

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

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

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature:	
Printed Name:	Sarah Jordan
Title:	Regulatory Analyst
E-mail Address:	sarah.jordan@coterra.com
Date:	6 /17/2022
Phone:	432/620-1909
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

From State of New Mexico, Natural Gas Management Plan

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

XEC Standard Response

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

Cimarex

VII. Operational Practices

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

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

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

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

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

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

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

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

District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 118450

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 118450
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	6/17/2022
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	6/17/2022
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	6/17/2022
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	6/17/2022