

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No. NMNM82926	
6. If Indian, Allottee or Tribe Name	
7. If Unit of CA/Agreement, Name and/or No.	
8. Well Name and No. ORE DIGGER FEDERAL/503H	
9. API Well No.	
10. Field and Pool or Exploratory Area Teas/Bone Spring	
11. Country or Parish, State LEA/NM	

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other	
2. Name of Operator COG OPERATING LLC	
3a. Address 600 West Illinois Ave, Midland, TX 79701	3b. Phone No. (include area code) (432) 683-7443
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 35/T20S/R33E/NMP	

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

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

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

COG Operating LLC, respectfully respects approval for the following chances to the original approved APD.

Drilling Changes: Drilling program, Directional plan and AC report attached.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) MAYTE REYES / Ph: (281) 293-1000	Title Regulatory Analyst
Signature (Electronic Submission)	Date 06/22/2025

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title Petroleum Engineer	Date 09/23/2025
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 CARLSBAD	

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Location of Well

0. SHL: SWSE / 405 FSL / 1840 FEL / TWSP: 20S / RANGE: 33E / SECTION: 35 / LAT: 32.523456 / LONG: -103.631314 (TVD: 0 feet, MD: 0 feet)

PPP: SWSE / 405 FSL / 1640 FEL / TWSP: 20S / RANGE: 33E / SECTION: 35 / LAT: 32.522617 / LONG: -103.630665 (TVD: 10438 feet, MD: 10492 feet)

BHL: NWNE / 50 FNL / 1640 FEL / TWSP: 20S / RANGE: 33E / SECTION: 26 / LAT: 32.551244 / LONG: -103.630665 (TVD: 10481 feet, MD: 20777 feet)

Well Name: ORE DIGGER FEDERAL	Well Location: T20S / R33E / SEC 35 / SWSE / 32.523456 / -103.631314	County or Parish/State: LEA / NM
Well Number: 503H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM82926	Unit or CA Name:	Unit or CA Number:
US Well Number:	Operator: COG OPERATING LLC	

Notice of Intent

Sundry ID: 2859385

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 06/22/2025	Time Sundry Submitted: 08:51
Date proposed operation will begin: 06/22/2025	

Procedure Description: COG Operating LLC, respectfully respects approval for the following chances to the original approved APD. Drilling Changes: Drilling program, Directional plan and AC report attached.

NOI Attachments

- Procedure Description
- ORE_DIGGER_FEDERAL_503H_AC_Report_20250622085020.pdf
 - ORE_DIGGER_FEDERAL_503H_PPlot_20250622085020.pdf
 - ORE_DIGGER_FEDERAL_503H_Planning_Report_20250622085019.pdf
 - Ore_Digger_Fed_Com_503H___Potash_Reef_APD_Drilling_Program_20250622085018.pdf

Well Name: ORE DIGGER FEDERAL	Well Location: T20S / R33E / SEC 35 / SWSE / 32.523456 / -103.631314	County or Parish/State: LEA / NM
Well Number: 503H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM82926	Unit or CA Name:	Unit or CA Number:
US Well Number:	Operator: COG OPERATING LLC	

Conditions of Approval

Additional

ORE_DIGGER_FEDERAL_503H_AC_Report_20250923090319.pdf
ORE_DIGGER_FEDERAL_503H_PPlot_20250923090319.pdf
Ore_Digger_Fed_Com_503H___Potash_Reef_APD_Drilling_Program_20250923090318.pdf
ORE_DIGGER_FEDERAL_503H_Planning_Report_20250923090318.pdf
ORE_DIGGER_FED_503H_COAs_20250923090303.pdf
SEC35_T20SR33E_ORE_DIGGER_FEDERAL_Lea__COG__45736_JS_20250923090303.pdf

Operator

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

Operator Electronic Signature: MAYTE REYES

Signed on: JUN 22, 2025 08:50 AM

Name: COG OPERATING LLC

Title: Regulatory Analyst

Street Address: 925 N ELDRIDGE PARKWAY

City: HOUSTONState: TX

Phone: (281) 293-1000

Email address: MAYTE.X.REYES@CONOCOPHILLIPS.COM

Field

Representative Name: Robyn Russell

Street Address: 600 W. Illinois Ave.

City: MidlandState: TXZip: 79701

Phone: (432)685-4385

Email address: robyn.m.russell@cop.com

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: CWALLS@BLM.GOV

Disposition: Approved

Disposition Date: 09/23/2025

Signature: Chris Walls

ConocoPhillips Company - Ore Digger Federal #503H

1. Geologic Formations

TVD of target	10,519' EOL	Pilot hole depth	N/A
MD at TD:	20,778'	Deepest expected fresh water:	325'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1484	Water	
Top of Salt	1872	Salt	
USGS Marker Bed 126	2680	Salt	
Base of Salt	3103	Salt Water	
Capitan Reef	3472	Salt Water	
Lamar	5434	Oil/Gas	
Brushy Canyon	6993	Oil/Gas	
Bone Spring	8661	Oil/Gas	
BS1S	9688	Oil/Gas	
BS1SH	9959	Oil/Gas	
BS2S	10205	Target	
BS3C	10719	Not Penetrated	

Potash well archetype: 4-String Design - Uncemented Annulus between 2nd Intermediate and Production Casing Strings (Figure E). Sundry aims to comply with R-111-Q as passed on 5/10/2024.

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
17.50"	0	1730	13.375"	54.5	J55	BTC	1.43	1.97	9.05	9.64
12.25"	0	3300	10.750"	45.5	J55	BTC	2.24	2.52	4.76	5.30
9.875"	0	5390	8.625"	32	P110-ICY	W441	2.26	1.96	6.63	5.39
7.875"	0	20,778'	5.5"	23	P110-CY	TXP-BTC	2.53	3.10	3.01	3.01
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and
All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172

The 5 1/2" W441 casing will be run back 200' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

ConocoPhillips Company - Ore Digger Federal #503H

	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?	Y
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N
Is well within the designated 4 string boundary?	Y
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	Y
Is 2 nd string set 100' to 600' below the base of salt?	Y
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

ConocoPhillips Company - Ore Digger Federal #503H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	860	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	240	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Int. #1	710	12.9	1.78	9.21	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	100	14.8	1.42	6.6	8	Tail: Class C + 2% CaCl ₂
Inter. #2	680	12.9	1.78	9.21	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	100	14.8	1.42	6.6	8	Tail: Class C + 2% CaCl ₂
Prod	120	10.5	3.08	19.55	72	Lead: NeoCem
	1380	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

Intermediate #1 Salt/Potash string cemented to surface. Zone of critical cement - 300' above shoe. Minimum 50% OH excess will be pumped. Drill out to wait for 500 PSI compressive strength on lead and tail.

Intermediate #2 Reef string cemented to surface. Zone of critical cement - 500' above shoe. Drill out wait for 500 PSI compressive strength on lead and tail.

Production cement TOC at 7,993' (1,000' below top of Brushy Canyon) leaving uncemented annulus between 2nd intermediate and production casing, leaving DMG/Brushy Canyon open as a relief valve. Post

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results

Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
2 nd Intermediate	0'	50%
Production	7,993'	0% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Ore Digger Federal #503H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
Y	A variance is requested for the use of BOPE break testing on intermediate skids (in accordance with the 30 day full BOPE test requirements).

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
12 1/4"	13-5/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
9-7/8"	13-5/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
7-7/8"	13-5/8"	10M	5M Annular	x	5000psi
			Blind Ram	x	10000psi
			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 43 CFR Part 3170 Subpart 3172 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.

Y	Formation integrity test will be performed per Onshore Order #2.
Y	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 43 CFR Part 3170 Subpart 3172.
Y	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?
Y	A multibowl wellhead is being used. The BOP will be tested per 43 CFR Part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

ConocoPhillips Company - Ore Digger Federal #503H

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	10-3/4" Int shoe	Saturated Brine	10	28-34	N/C
10-3/4" Int shoe	8-5/8" Int shoe	Saturated Brine	10	28-34	N/C
8-5/8" Int 2 shoe	Lateral TD	WBM	9.5-10.5	35-45	<20

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.	
Y	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.
Y	No Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain.
N	Coring? If yes, explain.

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
N	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	Pilot Hole TD to ICP

ConocoPhillips Company - Ore Digger Federal #503H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	5575 psi at 10205' TVD
Abnormal Temperature	NO 65 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

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 43 CFR Part 3170 Subpart 3176. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S Plan attached

8. Other Facets of Operation

Y	Is it a walking operation?
Y	Is casing pre-set?

x	H2S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

DELAWARE BASIN WEST

ZEUS WEST__NM_E

ORE DIGGER PROJECT

_ORE DIGGER FEDERAL 503H

OWB

PWP0

Anticollision Report

18 July, 2024

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	AVANT_SANDRA JEAN PROJECT - SANDRA JEAN 23 FED COM 502H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program:	100-r.5 MWD												Offset Well Error:	0.0 usft
Reference	Rule Assigned:													
Measured	Vertical	Offset	Semi Major Axis		Highside	Offset Wellbore Centre		Distance		No-Go	Separation	Warning		
Depth	Depth	Depth	Reference	Offset		+N/-S	+E/-W	Between	Between					
(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Distance	Factor			
20,200.0	10,487.6	10,175.0	10,143.4	95.7	21.6	51.50	10,268.1	573.1	927.0	845.2	81.87	11.323		
20,300.0	10,486.5	10,200.0	10,165.3	96.6	21.6	53.22	10,280.1	571.8	849.3	761.6	87.72	9.682		
20,400.0	10,485.3	10,217.1	10,180.0	97.6	21.6	54.41	10,288.9	570.9	775.4	680.4	94.95	8.166		
20,500.0	10,484.2	10,242.3	10,200.9	98.6	21.6	56.19	10,302.9	569.4	706.2	603.5	102.65	6.879		
20,600.0	10,483.0	10,275.0	10,226.9	99.5	21.6	58.51	10,322.6	567.4	642.7	532.0	110.71	5.805		
20,700.0	10,481.9	10,307.0	10,251.0	100.5	21.6	60.77	10,343.6	565.2	586.1	466.5	119.50	4.904		
20,777.3	10,481.0	10,338.7	10,273.4	101.2	21.6	62.98	10,365.9	562.8	547.6	421.6	125.99	4.347 CC, ES, SF		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: AVANT_SANDRA JEAN PROJECT - SANDRA JEAN 23 FED COM 602H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-r.5 MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
20,000.0	10,489.9	10,523.4	10,505.4	93.7	30.4	91.57	10,212.3	497.8	949.5	882.1	67.36	14.095		
20,100.0	10,488.7	10,522.2	10,504.2	94.7	30.4	91.39	10,212.3	497.8	858.0	785.9	72.14	11.895		
20,200.0	10,487.6	10,521.1	10,503.1	95.7	30.4	91.21	10,212.3	497.8	768.8	690.7	78.08	9.846		
20,300.0	10,486.5	10,520.0	10,502.0	96.6	30.4	91.03	10,212.3	497.8	682.5	597.0	85.54	7.979		
20,400.0	10,485.3	10,518.8	10,500.8	97.6	30.4	90.85	10,212.3	497.8	600.5	505.6	94.89	6.328		
20,500.0	10,484.2	10,517.7	10,499.7	98.6	30.4	90.67	10,212.3	497.8	524.7	418.3	106.44	4.930		
20,600.0	10,483.0	10,516.5	10,498.5	99.5	30.4	90.49	10,212.3	497.8	458.4	338.4	120.04	3.819		
20,700.0	10,481.9	10,515.4	10,497.4	100.5	30.4	90.32	10,212.3	497.8	406.1	271.8	134.25	3.025		
20,777.3	10,481.0	10,514.5	10,496.5	101.2	30.4	90.18	10,212.3	497.8	379.0	235.6	143.42	2.642	Normal Operations, CC, ES, SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	AVANT_SANDRA JEAN PROJECT - SANDRA JEAN 23 FED COM 651H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	100-r.5 MWD											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:									
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		No-Go	Separation	Warning
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	Distance	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)		
20,400.0	10,485.3	10,387.8	10,383.9	97.6	17.6	82.51	10,228.5	978.5	984.9	863.7	121.21	8.126	
20,500.0	10,484.2	10,400.0	10,395.7	98.6	17.5	83.30	10,231.5	978.5	939.0	811.3	127.62	7.358	
20,600.0	10,483.0	10,414.7	10,409.8	99.5	17.5	84.25	10,235.5	978.5	901.4	767.9	133.54	6.750	
20,700.0	10,481.9	10,433.7	10,428.0	100.5	17.4	85.47	10,241.3	978.5	873.3	734.7	138.56	6.302	
20,777.3	10,481.0	10,450.0	10,443.2	101.2	17.4	86.50	10,246.9	978.4	858.4	716.8	141.62	6.061 CC, ES, SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - _ORE DIGGER FEDERAL 504H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	0.0	3.0	89.45	0.6	59.9	59.9	55.2	4.70	12.756		
100.0	100.0	100.0	100.0	1.2	3.2	89.45	0.6	59.9	59.9	54.6	5.33	11.240		
200.0	200.0	200.0	200.0	1.7	3.5	89.45	0.6	59.9	59.9	54.0	5.89	10.164		
300.0	300.0	300.0	300.0	2.1	3.7	89.45	0.6	59.9	59.9	53.5	6.41	9.348		
400.0	400.0	400.0	400.0	2.4	3.9	89.45	0.6	59.9	59.9	53.0	6.88	8.700		
500.0	500.0	500.0	500.0	2.7	4.1	89.45	0.6	59.9	59.9	52.6	7.33	8.168		
600.0	600.0	600.0	600.0	3.0	4.2	89.45	0.6	59.9	59.9	52.1	7.76	7.722		
700.0	700.0	700.0	700.0	3.2	4.4	89.45	0.6	59.9	59.9	51.7	8.16	7.340		
800.0	800.0	800.0	800.0	3.5	4.6	89.45	0.6	59.9	59.9	51.3	8.55	7.008		
900.0	900.0	900.0	900.0	3.7	4.8	89.45	0.6	59.9	59.9	51.0	8.92	6.716		
1,000.0	1,000.0	1,000.0	1,000.0	3.9	4.9	89.45	0.6	59.9	59.9	50.6	9.28	6.456		
1,100.0	1,100.0	1,100.0	1,100.0	4.1	5.1	89.45	0.6	59.9	59.9	50.3	9.62	6.223		
1,200.0	1,200.0	1,200.0	1,200.0	4.3	5.2	89.45	0.6	59.9	59.9	49.9	9.96	6.012		
1,300.0	1,300.0	1,300.0	1,300.0	4.5	5.4	89.45	0.6	59.9	59.9	49.6	10.29	5.820		
1,400.0	1,400.0	1,400.0	1,400.0	4.7	5.5	89.45	0.6	59.9	59.9	49.3	10.61	5.644		
1,500.0	1,500.0	1,500.0	1,500.0	4.8	5.7	89.45	0.6	59.9	59.9	49.0	10.93	5.482 CC, ES		
1,600.0	1,600.0	1,598.0	1,597.9	5.1	5.9	-53.12	0.3	61.5	60.5	49.2	11.32	5.347 SF		
1,700.0	1,699.8	1,695.9	1,695.7	5.3	6.1	-55.95	-0.5	66.5	62.5	50.8	11.67	5.355		
1,800.0	1,799.5	1,793.6	1,793.0	5.6	6.4	-60.27	-1.9	74.7	66.1	54.1	12.00	5.505		
1,900.0	1,898.7	1,891.0	1,889.8	5.9	6.6	-65.50	-3.9	86.2	71.7	59.4	12.32	5.820		
1,956.4	1,954.4	1,945.8	1,944.0	6.0	6.7	-68.63	-5.2	94.0	75.9	63.4	12.45	6.095		
2,000.0	1,997.5	1,988.1	1,985.8	6.0	6.9	-70.90	-6.3	100.8	79.8	67.2	12.54	6.360		
2,100.0	2,096.3	2,084.9	2,080.8	6.3	7.2	-74.52	-9.4	118.6	91.1	78.3	12.85	7.088		
2,200.0	2,195.0	2,181.1	2,174.7	6.5	7.5	-76.27	-12.9	139.3	105.4	92.3	13.20	7.991		
2,300.0	2,293.7	2,276.7	2,267.2	6.8	7.7	-76.71	-16.9	163.1	122.5	109.0	13.51	9.067		
2,400.0	2,392.5	2,375.0	2,362.0	7.1	8.0	-76.70	-21.3	188.8	140.8	126.9	13.92	10.118		
2,500.0	2,491.2	2,473.3	2,456.8	7.4	8.3	-76.69	-25.6	214.6	159.1	144.7	14.36	11.079		
2,600.0	2,589.9	2,571.6	2,551.6	7.8	8.6	-76.69	-30.0	240.4	177.4	162.5	14.82	11.968		
2,700.0	2,688.7	2,670.0	2,646.3	8.1	9.0	-76.68	-34.3	266.2	195.6	180.3	15.30	12.789		
2,800.0	2,787.4	2,768.3	2,741.1	8.5	9.3	-76.68	-38.7	291.9	213.9	198.1	15.79	13.545		
2,900.0	2,886.1	2,866.6	2,835.9	8.8	9.7	-76.67	-43.1	317.7	232.2	215.9	16.30	14.243		
3,000.0	2,984.9	2,964.9	2,930.7	9.2	10.0	-76.67	-47.4	343.5	250.5	233.6	16.82	14.887		
3,100.0	3,083.6	3,063.2	3,025.4	9.6	10.4	-76.67	-51.8	369.2	268.7	251.4	17.36	15.482		
3,200.0	3,182.3	3,161.5	3,120.2	9.9	10.8	-76.66	-56.2	395.0	287.0	269.1	17.90	16.031		
3,300.0	3,281.1	3,259.9	3,215.0	10.3	11.2	-76.66	-60.5	420.8	305.3	286.8	18.46	16.539		
3,310.2	3,291.1	3,269.9	3,224.6	10.3	11.3	-76.66	-61.0	423.4	307.1	288.6	18.51	16.594		
3,400.0	3,379.9	3,358.1	3,309.7	10.7	11.6	-76.70	-64.9	446.6	323.7	304.7	19.05	16.992		
3,500.0	3,479.0	3,456.3	3,404.4	11.1	12.0	-76.49	-69.2	472.3	342.5	322.9	19.65	17.435		
3,600.0	3,578.3	3,554.4	3,498.9	11.5	12.5	-76.05	-73.6	498.0	361.8	341.5	20.27	17.851		
3,700.0	3,677.8	3,652.3	3,593.3	11.8	12.9	-75.42	-77.9	523.7	381.5	360.6	20.91	18.243		
3,800.0	3,777.5	3,750.0	3,687.5	12.2	13.3	-74.63	-82.3	549.3	401.8	380.2	21.58	18.615		
3,900.0	3,877.2	3,847.4	3,781.4	12.5	13.7	-73.71	-86.6	574.8	422.7	400.4	22.28	18.971		
4,000.0	3,977.1	3,944.7	3,875.2	12.8	14.2	-72.69	-90.9	600.3	444.1	421.2	22.99	19.316		
4,100.0	4,077.1	4,041.6	3,968.6	13.1	14.6	-71.58	-95.2	625.7	466.4	442.6	23.73	19.655		
4,200.0	4,177.1	4,138.3	4,061.8	13.4	15.0	-70.41	-99.5	651.1	489.4	464.9	24.47	19.996		
4,222.9	4,200.0	4,160.4	4,083.1	13.4	15.1	71.44	-100.5	656.9	494.8	470.1	24.63	20.086		
4,300.0	4,277.1	4,234.7	4,154.7	13.4	15.5	72.51	-103.8	676.3	513.1	487.9	25.18	20.377		
4,400.0	4,377.1	4,331.1	4,247.7	13.5	15.9	73.80	-108.1	701.6	537.0	511.1	25.89	20.740		
4,500.0	4,477.1	4,427.5	4,340.6	13.5	16.4	74.97	-112.4	726.9	561.2	534.6	26.60	21.096		
4,600.0	4,577.1	4,523.9	4,433.5	13.6	16.8	76.05	-116.6	752.2	585.7	558.4	27.31	21.445		
4,700.0	4,677.1	4,620.3	4,526.5	13.6	17.3	77.04	-120.9	777.4	610.3	582.2	28.01	21.785		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

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Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - _ORE DIGGER FEDERAL 504H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,800.0	4,777.1	4,716.7	4,619.4	13.7	17.7	77.96	-125.2	802.7	635.0	606.3	28.71	22.117	
4,900.0	4,877.1	4,813.1	4,712.3	13.7	18.2	78.81	-129.5	828.0	659.9	630.5	29.41	22.441	
5,000.0	4,977.1	4,909.5	4,805.3	13.8	18.6	79.59	-133.7	853.2	684.9	654.8	30.10	22.755	
5,100.0	5,077.1	5,005.9	4,898.2	13.8	19.1	80.33	-138.0	878.5	710.1	679.3	30.79	23.061	
5,200.0	5,177.1	5,102.3	4,991.1	13.9	19.5	81.01	-142.3	903.8	735.3	703.8	31.48	23.358	
5,300.0	5,277.1	5,198.7	5,084.0	14.0	20.0	81.64	-146.6	929.0	760.7	728.5	32.17	23.646	
5,400.0	5,377.1	5,295.1	5,177.0	14.0	20.4	82.24	-150.9	954.3	786.1	753.2	32.85	23.926	
5,500.0	5,477.1	5,391.5	5,269.9	14.1	20.9	82.80	-155.1	979.6	811.6	778.0	33.54	24.197	
5,600.0	5,577.1	5,487.9	5,362.8	14.1	21.4	83.32	-159.4	1,004.9	837.1	802.9	34.22	24.460	
5,700.0	5,677.1	5,584.3	5,455.8	14.2	21.8	83.82	-163.7	1,030.1	862.8	827.8	34.91	24.715	
5,800.0	5,777.1	5,680.7	5,548.7	14.2	22.3	84.28	-168.0	1,055.4	888.4	852.8	35.59	24.962	
5,900.0	5,877.1	5,777.1	5,641.6	14.3	22.8	84.72	-172.3	1,080.7	914.2	877.9	36.27	25.201	
6,000.0	5,977.1	5,873.5	5,734.6	14.3	23.2	85.14	-176.5	1,105.9	939.9	903.0	36.96	25.433	
6,100.0	6,077.1	5,969.9	5,827.5	14.4	23.7	85.53	-180.8	1,131.2	965.8	928.1	37.64	25.658	
6,200.0	6,177.1	6,066.3	5,920.4	14.5	24.1	85.90	-185.1	1,156.5	991.6	953.3	38.32	25.876	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

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Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - _ORE DIGGER FEDERAL 603H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		No-Go		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-30.1	30.1	29.6	0.51	58.956		
100.0	100.0	100.0	100.0	1.2	1.2	-90.00	0.0	-30.1	30.1	27.2	2.90	10.389		
200.0	200.0	200.0	200.0	1.7	1.7	-90.00	0.0	-30.1	30.1	26.2	3.89	7.731		
300.0	300.0	300.0	300.0	2.1	2.1	-90.00	0.0	-30.1	30.1	25.4	4.66	6.455		
400.0	400.0	400.0	400.0	2.4	2.4	-90.00	0.0	-30.1	30.1	24.8	5.32	5.661		
500.0	500.0	500.0	500.0	2.7	2.7	-90.00	0.0	-30.1	30.1	24.2	5.90	5.105		
600.0	600.0	600.0	600.0	3.0	3.0	-90.00	0.0	-30.1	30.1	23.7	6.42	4.686		
700.0	700.0	700.0	700.0	3.2	3.2	-90.00	0.0	-30.1	30.1	23.2	6.91	4.355		
800.0	800.0	800.0	800.0	3.5	3.5	-90.00	0.0	-30.1	30.1	22.7	7.37	4.085		
900.0	900.0	900.0	900.0	3.7	3.7	-90.00	0.0	-30.1	30.1	22.3	7.80	3.859		
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	-90.00	0.0	-30.1	30.1	21.9	8.21	3.666		
1,100.0	1,100.0	1,100.0	1,100.0	4.1	4.1	-90.00	0.0	-30.1	30.1	21.5	8.61	3.498		
1,200.0	1,200.0	1,200.0	1,200.0	4.3	4.3	-90.00	0.0	-30.1	30.1	21.1	8.99	3.351		
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.5	-90.00	0.0	-30.1	30.1	20.8	9.35	3.220		
1,400.0	1,400.0	1,400.0	1,400.0	4.7	4.7	-90.00	0.0	-30.1	30.1	20.4	9.70	3.103		
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	-90.00	0.0	-30.1	30.1	20.1	10.05	2.997 Normal Operations, CC		
1,600.0	1,600.0	1,600.6	1,600.6	5.1	5.1	128.23	-1.5	-29.1	30.2	19.8	10.41	2.904 Normal Operations, ES		
1,700.0	1,699.8	1,701.2	1,701.0	5.3	5.3	127.65	-5.9	-26.2	30.6	19.9	10.73	2.852 Normal Operations		
1,800.0	1,799.5	1,801.5	1,801.0	5.6	5.4	127.15	-13.0	-21.6	31.4	20.4	10.97	2.861 Normal Operations		
1,900.0	1,898.7	1,901.4	1,900.5	5.9	5.6	130.44	-20.7	-16.6	34.0	22.6	11.34	2.997 Normal Operations		
1,956.4	1,954.4	1,957.7	1,956.5	6.0	5.7	133.85	-25.0	-13.8	36.5	25.0	11.54	3.167		
2,000.0	1,997.5	2,001.2	1,999.9	6.0	5.8	136.64	-28.3	-11.6	38.9	27.2	11.70	3.326		
2,100.0	2,096.3	2,101.0	2,099.2	6.3	6.1	141.88	-35.9	-6.6	44.6	32.5	12.17	3.667		
2,200.0	2,195.0	2,200.8	2,198.6	6.5	6.3	145.90	-43.5	-1.6	50.6	38.0	12.68	3.994		
2,300.0	2,293.7	2,300.5	2,297.9	6.8	6.6	149.06	-51.2	3.4	56.8	43.6	13.22	4.301		
2,400.0	2,392.5	2,400.3	2,397.3	7.1	6.8	151.59	-58.8	8.3	63.2	49.4	13.78	4.585		
2,500.0	2,491.2	2,500.1	2,496.6	7.4	7.1	153.66	-66.4	13.3	69.6	55.3	14.37	4.845		
2,600.0	2,589.9	2,599.8	2,596.0	7.8	7.4	155.37	-74.0	18.3	76.1	61.2	14.98	5.082		
2,700.0	2,688.7	2,699.6	2,695.3	8.1	7.7	156.81	-81.7	23.3	82.7	67.1	15.62	5.297		
2,800.0	2,787.4	2,799.3	2,794.7	8.5	8.0	158.04	-89.3	28.3	89.3	73.1	16.26	5.493		
2,900.0	2,886.1	2,899.1	2,894.0	8.8	8.3	159.11	-96.9	33.3	96.0	79.1	16.93	5.670		
3,000.0	2,984.9	2,998.9	2,993.3	9.2	8.7	160.03	-104.5	38.3	102.7	85.1	17.61	5.831		
3,100.0	3,083.6	3,098.6	3,092.7	9.6	9.0	160.84	-112.2	43.2	109.4	91.1	18.30	5.977		
3,200.0	3,182.3	3,198.4	3,192.0	9.9	9.3	161.55	-119.8	48.2	116.1	97.1	19.00	6.111		
3,300.0	3,281.1	3,298.2	3,291.4	10.3	9.7	162.19	-127.4	53.2	122.8	103.1	19.71	6.232		
3,310.2	3,291.1	3,308.3	3,301.5	10.3	9.7	162.25	-128.2	53.7	123.5	103.8	19.78	6.246		
3,400.0	3,379.9	3,398.0	3,390.8	10.7	10.0	162.69	-135.0	58.2	128.9	108.5	20.44	6.307		
3,500.0	3,479.0	3,497.9	3,490.3	11.1	10.4	162.92	-142.7	63.2	133.4	112.2	21.14	6.309		
3,600.0	3,578.3	3,597.8	3,589.8	11.5	10.7	162.92	-150.3	68.2	136.1	114.3	21.82	6.240		
3,700.0	3,677.8	3,697.8	3,689.4	11.8	11.1	162.70	-157.9	73.2	137.2	114.8	22.47	6.106		
3,800.0	3,777.5	3,797.8	3,788.9	12.2	11.4	162.25	-165.6	78.2	136.7	113.6	23.10	5.916		
3,900.0	3,877.2	3,897.8	3,888.5	12.5	11.8	161.57	-173.2	83.2	134.5	110.8	23.69	5.675		
4,000.0	3,977.1	3,997.7	3,988.0	12.8	12.1	160.61	-180.9	88.2	130.6	106.4	24.24	5.390		
4,100.0	4,077.1	4,097.5	4,087.4	13.1	12.5	159.31	-188.5	93.2	125.2	100.5	24.71	5.067		
4,200.0	4,177.1	4,197.2	4,186.6	13.4	12.8	157.57	-196.1	98.2	118.2	93.1	25.07	4.715		
4,222.9	4,200.0	4,220.0	4,209.4	13.4	12.9	-61.34	-197.8	99.3	116.4	91.3	25.11	4.636		
4,300.0	4,277.1	4,296.8	4,285.8	13.4	13.2	-63.06	-203.7	103.1	110.2	85.1	25.18	4.378		
4,400.0	4,377.1	4,396.3	4,385.0	13.5	13.6	-65.60	-211.3	108.1	102.4	77.2	25.23	4.060		
4,500.0	4,477.1	4,495.9	4,484.1	13.5	13.9	-68.56	-218.9	113.1	94.8	69.6	25.18	3.766		
4,600.0	4,577.1	4,595.5	4,583.3	13.6	14.3	-72.01	-226.5	118.1	87.5	62.5	25.01	3.499		
4,700.0	4,677.1	4,695.1	4,682.5	13.6	14.7	-76.08	-234.1	123.0	80.6	55.9	24.69	3.265		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - _ORE DIGGER FEDERAL 603H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1		Offset		Semi Major Axis			Offset Wellbore Centre			Rule Assigned: Distance			Offset Well Error: 0.0 usft	
Measured Depth (usft)	Reference Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
4,800.0	4,777.1	4,794.7	4,781.6	13.7	15.0	-80.87	-241.8	128.0	74.2	50.0	24.17	3.068		
4,900.0	4,877.1	4,894.3	4,880.8	13.7	15.4	-86.53	-249.4	133.0	68.3	44.9	23.42	2.918	Normal Operations	
5,000.0	4,977.1	4,993.8	4,980.0	13.8	15.8	-93.15	-257.0	138.0	63.3	40.9	22.44	2.821	Normal Operations	
5,100.0	5,077.1	5,093.4	5,079.1	13.8	16.2	-100.79	-264.6	142.9	59.2	37.9	21.29	2.783	Normal Operations	
5,200.0	5,177.1	5,193.0	5,178.3	13.9	16.5	-109.37	-272.2	147.9	56.4	36.2	20.19	2.793	Normal Operations	
5,300.0	5,277.1	5,292.6	5,277.5	14.0	16.9	-118.62	-279.8	152.9	54.9	35.4	19.48	2.819	Normal Operations	
5,348.1	5,325.1	5,340.4	5,325.1	14.0	17.1	-123.19	-283.5	155.3	54.7	35.3	19.40	2.822	Normal Operations	
5,400.0	5,377.1	5,392.2	5,376.6	14.0	17.3	-128.12	-287.4	157.9	54.9	35.4	19.54	2.812	Normal Operations	
5,500.0	5,477.1	5,491.8	5,475.8	14.1	17.7	-137.35	-295.0	162.9	56.5	36.0	20.44	2.762	Normal Operations	
5,600.0	5,577.1	5,591.3	5,575.0	14.1	18.0	-145.90	-302.6	167.8	59.4	37.4	21.96	2.703	Normal Operations	
5,700.0	5,677.1	5,690.9	5,674.1	14.2	18.4	-153.50	-310.2	172.8	63.5	39.7	23.74	2.673	Normal Operations, SF	
5,800.0	5,777.1	5,790.5	5,773.3	14.2	18.8	-160.08	-317.9	177.8	68.5	43.0	25.52	2.686	Normal Operations	
5,900.0	5,877.1	5,890.1	5,872.5	14.3	19.2	-165.70	-325.5	182.8	74.4	47.2	27.17	2.739	Normal Operations	
6,000.0	5,977.1	5,989.7	5,971.6	14.3	19.5	-170.47	-333.1	187.7	80.9	52.2	28.64	2.824	Normal Operations	
6,100.0	6,077.1	6,090.4	6,072.0	14.4	20.0	-174.22	-340.1	192.3	87.2	57.3	29.92	2.914	Normal Operations	
6,200.0	6,177.1	6,191.4	6,172.8	14.5	20.3	-176.82	-345.7	196.0	92.4	61.5	30.87	2.994	Normal Operations	
6,300.0	6,277.1	6,292.7	6,273.9	14.5	20.7	-178.55	-349.8	198.7	96.3	64.8	31.59	3.050		
6,400.0	6,377.1	6,394.0	6,375.3	14.6	21.0	-179.57	-352.4	200.4	98.9	66.8	32.13	3.078		
6,500.0	6,477.1	6,495.5	6,476.7	14.6	21.2	-179.99	-353.5	201.1	100.0	67.5	32.47	3.078		
6,600.0	6,577.1	6,595.9	6,577.1	14.7	21.2	180.00	-353.5	201.1	100.0	67.4	32.57	3.070		
6,700.0	6,677.1	6,695.9	6,677.1	14.8	21.3	180.00	-353.5	201.1	100.0	67.3	32.66	3.062		
6,800.0	6,777.1	6,795.9	6,777.1	14.8	21.3	180.00	-353.5	201.1	100.0	67.3	32.75	3.054		
6,900.0	6,877.1	6,895.9	6,877.1	14.9	21.3	180.00	-353.5	201.1	100.0	67.2	32.84	3.045		
7,000.0	6,977.1	6,995.9	6,977.1	14.9	21.4	180.00	-353.5	201.1	100.0	67.1	32.93	3.037		
7,100.0	7,077.1	7,095.9	7,077.1	15.0	21.4	180.00	-353.5	201.1	100.0	67.0	33.02	3.029		
7,200.0	7,177.1	7,195.9	7,177.1	15.0	21.4	180.00	-353.5	201.1	100.0	66.9	33.11	3.020		
7,300.0	7,277.1	7,295.9	7,277.1	15.1	21.4	180.00	-353.5	201.1	100.0	66.8	33.20	3.012		
7,400.0	7,377.1	7,395.9	7,377.1	15.2	21.5	180.00	-353.5	201.1	100.0	66.7	33.29	3.004		
7,500.0	7,477.1	7,495.9	7,477.1	15.2	21.5	180.00	-353.5	201.1	100.0	66.6	33.39	2.995	Normal Operations	
7,600.0	7,577.1	7,595.9	7,577.1	15.3	21.5	180.00	-353.5	201.1	100.0	66.5	33.48	2.987	Normal Operations	
7,700.0	7,677.1	7,695.9	7,677.1	15.3	21.6	180.00	-353.5	201.1	100.0	66.4	33.57	2.979	Normal Operations	
7,800.0	7,777.1	7,795.9	7,777.1	15.4	21.6	180.00	-353.5	201.1	100.0	66.3	33.67	2.970	Normal Operations	
7,900.0	7,877.1	7,895.9	7,877.1	15.5	21.6	180.00	-353.5	201.1	100.0	66.2	33.76	2.962	Normal Operations	
8,000.0	7,977.1	7,995.9	7,977.1	15.5	21.6	180.00	-353.5	201.1	100.0	66.1	33.86	2.954	Normal Operations	
8,100.0	8,077.1	8,095.9	8,077.1	15.6	21.7	180.00	-353.5	201.1	100.0	66.0	33.95	2.945	Normal Operations	
8,200.0	8,177.1	8,195.9	8,177.1	15.7	21.7	180.00	-353.5	201.1	100.0	66.0	34.05	2.937	Normal Operations	
8,300.0	8,277.1	8,295.9	8,277.1	15.7	21.7	180.00	-353.5	201.1	100.0	65.9	34.15	2.929	Normal Operations	
8,400.0	8,377.1	8,395.9	8,377.1	15.8	21.8	180.00	-353.5	201.1	100.0	65.8	34.24	2.920	Normal Operations	
8,500.0	8,477.1	8,495.9	8,477.1	15.8	21.8	180.00	-353.5	201.1	100.0	65.7	34.34	2.912	Normal Operations	
8,600.0	8,577.1	8,595.9	8,577.1	15.9	21.8	180.00	-353.5	201.1	100.0	65.6	34.44	2.904	Normal Operations	
8,700.0	8,677.1	8,695.9	8,677.1	16.0	21.9	180.00	-353.5	201.1	100.0	65.5	34.54	2.895	Normal Operations	
8,800.0	8,777.1	8,795.9	8,777.1	16.0	21.9	180.00	-353.5	201.1	100.0	65.4	34.64	2.887	Normal Operations	
8,900.0	8,877.1	8,895.9	8,877.1	16.1	21.9	180.00	-353.5	201.1	100.0	65.3	34.74	2.879	Normal Operations	
9,000.0	8,977.1	8,995.9	8,977.1	16.1	22.0	180.00	-353.5	201.1	100.0	65.2	34.84	2.870	Normal Operations	
9,100.0	9,077.1	9,095.9	9,077.1	16.2	22.0	180.00	-353.5	201.1	100.0	65.1	34.94	2.862	Normal Operations	
9,200.0	9,177.1	9,195.9	9,177.1	16.3	22.0	180.00	-353.5	201.1	100.0	65.0	35.04	2.854	Normal Operations	
9,300.0	9,277.1	9,295.9	9,277.1	16.3	22.1	180.00	-353.5	201.1	100.0	64.9	35.14	2.846	Normal Operations	
9,400.0	9,377.1	9,395.9	9,377.1	16.4	22.1	180.00	-353.5	201.1	100.0	64.8	35.24	2.837	Normal Operations	
9,500.0	9,477.1	9,495.9	9,477.1	16.5	22.1	180.00	-353.5	201.1	100.0	64.7	35.35	2.829	Normal Operations	
9,600.0	9,577.1	9,595.9	9,577.1	16.5	22.2	180.00	-353.5	201.1	100.0	64.6	35.45	2.821	Normal Operations	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - _ORE DIGGER FEDERAL 603H - OWB - PWP0													Offset Site Error:	0.0 usft	
Survey Program:		0-r.5 MWD+IFR1				Rule Assigned:								Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor			
9,700.0	9,677.1	9,695.9	9,677.1	16.6	22.2	180.00	-353.5	201.1	100.0	64.4	35.55	2.813	Normal Operations		
9,800.0	9,777.1	9,795.9	9,777.1	16.7	22.2	180.00	-353.5	201.1	100.0	64.3	35.66	2.805	Normal Operations		
9,900.0	9,877.1	9,895.9	9,877.1	16.7	22.3	180.00	-353.5	201.1	100.0	64.2	35.76	2.796	Normal Operations		
10,000.0	9,977.1	9,995.9	9,977.1	16.8	22.3	180.00	-353.5	201.1	100.0	64.1	35.86	2.788	Normal Operations		
10,100.0	10,077.1	10,095.9	10,077.1	16.9	22.3	180.00	-353.5	201.1	100.0	64.0	35.97	2.780	Normal Operations		
10,139.4	10,116.5	10,135.3	10,116.5	16.9	22.4	180.00	-353.5	201.1	100.0	64.0	36.00	2.778	Normal Operations		
10,150.0	10,127.1	10,145.8	10,127.1	16.9	22.4	-179.62	-353.5	201.1	100.1	64.1	36.00	2.781	Normal Operations		
10,175.0	10,152.0	10,170.8	10,152.0	16.8	22.4	-179.63	-353.5	201.1	101.3	65.3	35.99	2.815	Normal Operations		
10,200.0	10,176.9	10,195.7	10,176.9	16.8	22.4	-179.63	-353.5	201.1	103.8	67.9	35.97	2.886	Normal Operations		
10,225.0	10,201.6	10,220.4	10,201.6	16.8	22.4	-179.64	-353.5	201.1	107.6	71.7	35.95	2.994	Normal Operations		
10,250.0	10,226.1	10,244.9	10,226.1	16.7	22.4	-179.65	-353.5	201.1	112.7	76.8	35.93	3.138			
10,275.0	10,250.3	10,269.0	10,250.3	16.7	22.4	-179.67	-353.5	201.1	119.1	83.2	35.91	3.317			
10,300.0	10,274.1	10,292.8	10,274.1	16.6	22.4	-179.68	-353.5	201.1	126.7	90.9	35.89	3.532			
10,325.0	10,297.4	10,316.2	10,297.4	16.6	22.4	-179.70	-353.5	201.1	135.6	99.7	35.86	3.781			
10,350.0	10,320.3	10,339.1	10,320.3	16.5	22.4	-179.71	-353.5	201.1	145.7	109.8	35.84	4.065			
10,375.0	10,342.6	10,361.4	10,342.6	16.5	22.4	-179.73	-353.5	201.1	156.9	121.1	35.81	4.382			
10,400.0	10,364.3	10,383.1	10,364.3	16.4	22.4	-179.74	-353.5	201.1	169.4	133.6	35.79	4.732			
10,425.0	10,385.3	10,404.1	10,385.3	16.4	22.4	-179.75	-353.5	201.1	182.9	147.1	35.77	5.113			
10,450.0	10,405.6	10,424.4	10,405.6	16.3	22.5	-179.76	-353.5	201.1	197.5	161.7	35.75	5.525			
10,475.0	10,425.1	10,443.9	10,425.1	16.3	22.5	-179.77	-353.5	201.1	213.1	177.4	35.73	5.966			
10,500.0	10,443.8	10,462.5	10,443.8	16.2	22.5	-179.77	-353.5	201.1	229.8	194.1	35.71	6.436			
10,525.0	10,461.5	10,480.3	10,461.5	16.2	22.5	-179.78	-353.5	201.1	247.4	211.7	35.69	6.932			
10,550.0	10,478.3	10,497.1	10,478.3	16.2	22.5	-179.78	-353.5	201.1	265.9	230.2	35.67	7.454			
10,575.0	10,494.1	10,512.9	10,494.1	16.1	22.5	-179.78	-353.5	201.1	285.3	249.6	35.66	8.001			
10,600.0	10,508.9	10,527.7	10,508.9	16.1	22.5	-179.78	-353.5	201.1	305.4	269.8	35.64	8.569			
10,625.0	10,522.6	10,541.4	10,522.6	16.1	22.5	-179.78	-353.5	201.1	326.3	290.7	35.63	9.159			
10,650.0	10,535.2	10,554.0	10,535.2	16.1	22.5	-179.77	-353.5	201.1	347.9	312.3	35.62	9.769			
10,675.0	10,546.6	10,565.4	10,546.6	16.0	22.5	-179.76	-353.5	201.1	370.2	334.6	35.61	10.395			
10,700.0	10,556.9	10,575.7	10,556.9	16.0	22.5	-179.75	-353.5	201.1	393.0	357.4	35.60	11.038			
10,725.0	10,565.9	10,584.7	10,565.9	16.0	22.5	-179.73	-353.5	201.1	416.3	380.7	35.59	11.695			
10,750.0	10,573.8	10,592.5	10,573.8	16.0	22.5	-179.70	-353.5	201.1	440.0	404.4	35.59	12.363			
10,775.0	10,580.3	10,599.1	10,580.3	16.0	22.5	-179.66	-353.5	201.1	464.1	428.5	35.59	13.043			
10,800.0	10,585.6	10,604.4	10,585.6	16.0	22.5	-179.58	-353.5	201.1	488.6	453.0	35.58	13.730			
10,825.0	10,589.6	10,608.4	10,589.6	16.1	22.5	-179.45	-353.5	201.1	513.2	477.7	35.58	14.424			
10,850.0	10,592.3	10,611.1	10,592.3	16.1	22.5	-179.15	-353.5	201.1	538.1	502.5	35.58	15.122			
10,875.0	10,593.7	10,612.5	10,593.7	16.1	22.5	-177.77	-353.5	201.1	563.0	527.5	35.58	15.823			
10,894.9	10,593.9	10,612.7	10,593.9	16.1	22.5	-5.67	-353.5	201.1	582.9	547.3	35.59	16.380			
10,900.0	10,593.9	10,612.7	10,593.9	16.1	22.5	-5.62	-353.5	201.1	588.0	552.4	35.59	16.523			
11,000.0	10,592.7	10,611.5	10,592.7	16.3	22.5	-4.81	-353.5	201.1	688.0	652.4	35.60	19.325			
11,100.0	10,591.6	11,925.5	11,311.2	16.5	21.5	-179.95	443.2	195.9	719.6	673.4	46.21	15.571			
11,200.0	10,590.4	12,025.5	11,310.0	16.8	21.7	-179.95	543.1	195.2	719.6	672.8	46.72	15.402			
11,300.0	10,589.3	12,125.5	11,308.8	17.1	21.9	-179.95	643.1	194.6	719.5	672.2	47.27	15.222			
11,400.0	10,588.2	12,225.5	11,307.6	17.5	22.1	-179.95	743.1	193.9	719.5	671.6	47.86	15.032			
11,500.0	10,587.0	12,325.5	11,306.4	18.0	22.4	-179.95	843.1	193.3	719.4	670.9	48.50	14.834			
11,600.0	10,585.9	12,425.5	11,305.2	18.5	22.7	-179.95	943.1	192.6	719.3	670.2	49.17	14.628			
11,700.0	10,584.7	12,525.5	11,304.0	19.0	23.0	-179.95	1,043.1	192.0	719.3	669.4	49.89	14.417			
11,800.0	10,583.6	12,625.5	11,302.8	19.6	23.5	-179.95	1,143.1	191.3	719.2	668.6	50.65	14.201			
11,900.0	10,582.4	12,725.5	11,301.6	20.2	23.9	-179.96	1,243.1	190.6	719.2	667.7	51.44	13.982			
12,000.0	10,581.3	12,825.5	11,300.4	20.9	24.4	-179.96	1,343.1	190.0	719.1	666.8	52.26	13.760			
12,100.0	10,580.2	12,925.5	11,299.1	21.5	24.9	-179.96	1,443.1	189.3	719.0	665.9	53.12	13.537			
12,200.0	10,579.0	13,025.5	11,297.9	22.2	25.5	-179.96	1,543.0	188.7	719.0	665.0	54.00	13.313			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - _ORE DIGGER FEDERAL 603H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		No-Go		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor		
12,300.0	10,577.9	13,125.5	11,296.7	23.0	26.1	-179.96	1,643.0	188.0	718.9	664.0	54.92	13.090		
12,400.0	10,576.7	13,225.5	11,295.5	23.7	26.7	-179.96	1,743.0	187.4	718.9	663.0	55.87	12.867		
12,500.0	10,575.6	13,325.5	11,294.3	24.5	27.4	-179.96	1,843.0	186.7	718.8	662.0	56.84	12.646		
12,600.0	10,574.4	13,425.5	11,293.1	25.2	28.1	-179.96	1,943.0	186.1	718.7	660.9	57.84	12.427		
12,700.0	10,573.3	13,525.5	11,291.9	26.0	28.8	-179.96	2,043.0	185.4	718.7	659.8	58.86	12.210		
12,800.0	10,572.2	13,625.5	11,290.7	26.8	29.5	-179.96	2,143.0	184.7	718.6	658.7	59.90	11.997		
12,900.0	10,571.0	13,725.5	11,289.5	27.6	30.3	-179.96	2,243.0	184.1	718.6	657.6	60.97	11.786		
13,000.0	10,569.9	13,825.5	11,288.3	28.5	31.0	-179.96	2,343.0	183.4	718.5	656.5	62.06	11.579		
13,100.0	10,568.7	13,925.5	11,287.1	29.3	31.8	-179.96	2,443.0	182.8	718.5	655.3	63.16	11.375		
13,200.0	10,567.6	14,025.5	11,285.9	30.1	32.6	-179.96	2,543.0	182.1	718.4	654.1	64.29	11.175		
13,300.0	10,566.4	14,125.5	11,284.7	31.0	33.4	-179.96	2,642.9	181.5	718.3	652.9	65.43	10.979		
13,400.0	10,565.3	14,225.5	11,283.5	31.8	34.2	-179.96	2,742.9	180.8	718.3	651.7	66.59	10.787		
13,500.0	10,564.2	14,325.5	11,282.3	32.7	35.1	-179.96	2,842.9	180.2	718.2	650.5	67.76	10.600		
13,600.0	10,563.0	14,425.5	11,281.1	33.6	35.9	-179.96	2,942.9	179.5	718.2	649.2	68.95	10.416		
13,700.0	10,561.9	14,525.5	11,279.9	34.5	36.7	-179.96	3,042.9	178.9	718.1	647.9	70.15	10.236		
13,800.0	10,560.7	14,625.5	11,278.7	35.3	37.6	-179.96	3,142.9	178.2	718.0	646.7	71.37	10.061		
13,900.0	10,559.6	14,725.5	11,277.5	36.2	38.5	-179.97	3,242.9	177.5	718.0	645.4	72.60	9.890		
14,000.0	10,558.4	14,825.5	11,276.3	37.1	39.3	-179.97	3,342.9	176.9	717.9	644.1	73.84	9.723		
14,100.0	10,557.3	14,925.5	11,275.1	38.0	40.2	-179.97	3,442.9	176.2	717.9	642.8	75.09	9.560		
14,200.0	10,556.2	15,025.5	11,273.9	38.9	41.1	-179.97	3,542.9	175.6	717.8	641.5	76.35	9.401		
14,300.0	10,555.0	15,125.5	11,272.7	39.8	42.0	-179.97	3,642.9	174.9	717.7	640.1	77.63	9.246		
14,400.0	10,553.9	15,225.5	11,271.5	40.7	42.8	-179.97	3,742.8	174.3	717.7	638.8	78.91	9.095		
14,500.0	10,552.7	15,325.5	11,270.3	41.6	43.7	-179.97	3,842.8	173.6	717.6	637.4	80.20	8.947		
14,600.0	10,551.6	15,425.5	11,269.1	42.5	44.6	-179.97	3,942.8	173.0	717.6	636.1	81.51	8.804		
14,700.0	10,550.4	15,525.5	11,267.9	43.5	45.5	-179.97	4,042.8	172.3	717.5	634.7	82.82	8.664		
14,800.0	10,549.3	15,625.5	11,266.7	44.4	46.4	-179.97	4,142.8	171.6	717.5	633.3	84.14	8.527		
14,900.0	10,548.2	15,725.5	11,265.5	45.3	47.3	-179.97	4,242.8	171.0	717.4	631.9	85.46	8.394		
15,000.0	10,547.0	15,825.5	11,264.3	46.2	48.3	-179.97	4,342.8	170.3	717.3	630.5	86.80	8.265		
15,100.0	10,545.9	15,925.5	11,263.1	47.2	49.2	-179.97	4,442.8	169.7	717.3	629.1	88.14	8.138		
15,200.0	10,544.7	16,025.5	11,261.9	48.1	50.1	-179.97	4,542.8	169.0	717.2	627.7	89.49	8.015		
15,300.0	10,543.6	16,125.5	11,260.7	49.0	51.0	-179.97	4,642.8	168.4	717.2	626.3	90.84	7.895		
15,400.0	10,542.5	16,225.5	11,259.5	49.9	51.9	-179.97	4,742.7	167.7	717.1	624.9	92.20	7.778		
15,500.0	10,541.3	16,325.5	11,258.3	50.9	52.8	-179.97	4,842.7	167.1	717.0	623.5	93.57	7.664		
15,600.0	10,540.2	16,425.5	11,257.1	51.8	53.8	-179.97	4,942.7	166.4	717.0	622.0	94.94	7.552		
15,700.0	10,539.0	16,525.5	11,255.9	52.7	54.7	-179.97	5,042.7	165.8	716.9	620.6	96.31	7.444		
15,800.0	10,537.9	16,625.5	11,254.7	53.7	55.6	-179.97	5,142.7	165.1	716.9	619.2	97.70	7.338		
15,900.0	10,536.7	16,725.5	11,253.5	54.6	56.5	-179.98	5,242.7	164.4	716.8	617.7	99.08	7.234		
16,000.0	10,535.6	16,825.5	11,252.3	55.6	57.5	-179.98	5,342.7	163.8	716.8	616.3	100.48	7.134		
16,100.0	10,534.5	16,925.5	11,251.1	56.5	58.4	-179.98	5,442.7	163.1	716.7	614.8	101.87	7.035		
16,200.0	10,533.3	17,025.5	11,249.9	57.4	59.3	-179.98	5,542.7	162.5	716.6	613.4	103.27	6.939		
16,300.0	10,532.2	17,125.5	11,248.7	58.4	60.3	-179.98	5,642.7	161.8	716.6	611.9	104.68	6.846		
16,400.0	10,531.0	17,225.5	11,247.5	59.3	61.2	-179.98	5,742.7	161.2	716.5	610.4	106.09	6.754		
16,500.0	10,529.9	17,325.5	11,246.3	60.3	62.1	-179.98	5,842.6	160.5	716.5	609.0	107.50	6.665		
16,600.0	10,528.7	17,425.5	11,245.1	61.2	63.1	-179.98	5,942.6	159.9	716.4	607.5	108.92	6.578		
16,700.0	10,527.6	17,525.5	11,243.9	62.2	64.0	-179.98	6,042.6	159.2	716.3	606.0	110.34	6.492		
16,800.0	10,526.5	17,625.5	11,242.7	63.1	65.0	-179.98	6,142.6	158.5	716.3	604.5	111.76	6.409		
16,900.0	10,525.3	17,725.5	11,241.5	64.1	65.9	-179.98	6,242.6	157.9	716.2	603.0	113.19	6.328		
17,000.0	10,524.2	17,825.5	11,240.3	65.0	66.8	-179.98	6,342.6	157.2	716.2	601.5	114.62	6.248		
17,100.0	10,523.0	17,925.5	11,239.1	66.0	67.8	-179.98	6,442.6	156.6	716.1	600.1	116.05	6.171		
17,200.0	10,521.9	18,025.5	11,237.9	66.9	68.7	-179.98	6,542.6	155.9	716.0	598.6	117.49	6.095		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - _ORE DIGGER FEDERAL 603H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
17,300.0	10,520.7	18,125.5	11,236.7	67.9	69.7	-179.98	6,642.6	155.3	716.0	597.1	118.92	6.021		
17,400.0	10,519.6	18,225.5	11,235.5	68.8	70.6	-179.98	6,742.6	154.6	715.9	595.6	120.37	5.948		
17,500.0	10,518.5	18,325.5	11,234.3	69.8	71.6	-179.98	6,842.6	154.0	715.9	594.1	121.81	5.877		
17,600.0	10,517.3	18,425.5	11,233.1	70.7	72.5	-179.98	6,942.5	153.3	715.8	592.6	123.26	5.808		
17,700.0	10,516.2	18,525.5	11,231.9	71.7	73.5	-179.98	7,042.5	152.7	715.8	591.0	124.71	5.740		
17,800.0	10,515.0	18,625.5	11,230.7	72.6	74.4	-179.98	7,142.5	152.0	715.7	589.5	126.16	5.673		
17,900.0	10,513.9	18,725.5	11,229.5	73.6	75.4	-179.99	7,242.5	151.3	715.6	588.0	127.61	5.608		
18,000.0	10,512.7	18,825.5	11,228.3	74.5	76.3	-179.99	7,342.5	150.7	715.6	586.5	129.07	5.544		
18,100.0	10,511.6	18,925.5	11,227.1	75.5	77.3	-179.99	7,442.5	150.0	715.5	585.0	130.52	5.482		
18,200.0	10,510.5	19,025.5	11,225.9	76.4	78.2	-179.99	7,542.5	149.4	715.5	583.5	131.98	5.421		
18,300.0	10,509.3	19,125.5	11,224.7	77.4	79.2	-179.99	7,642.5	148.7	715.4	582.0	133.45	5.361		
18,400.0	10,508.2	19,225.5	11,223.5	78.4	80.1	-179.99	7,742.5	148.1	715.3	580.4	134.91	5.302		
18,500.0	10,507.0	19,325.5	11,222.3	79.3	81.1	-179.99	7,842.5	147.4	715.3	578.9	136.38	5.245		
18,600.0	10,505.9	19,425.5	11,221.1	80.3	82.0	-179.99	7,942.4	146.8	715.2	577.4	137.84	5.189		
18,700.0	10,504.7	19,525.5	11,219.9	81.2	83.0	-179.99	8,042.4	146.1	715.2	575.9	139.31	5.134		
18,800.0	10,503.6	19,625.5	11,218.7	82.2	83.9	-179.99	8,142.4	145.5	715.1	574.3	140.78	5.079		
18,900.0	10,502.5	19,725.5	11,217.5	83.2	84.9	-179.99	8,242.4	144.8	715.0	572.8	142.26	5.026		
19,000.0	10,501.3	19,825.5	11,216.2	84.1	85.9	-179.99	8,342.4	144.1	715.0	571.3	143.73	4.974		
19,100.0	10,500.2	19,925.5	11,215.0	85.1	86.8	-179.99	8,442.4	143.5	714.9	569.7	145.21	4.924		
19,200.0	10,499.0	20,025.5	11,213.8	86.0	87.8	-179.99	8,542.4	142.8	714.9	568.2	146.68	4.874		
19,300.0	10,497.9	20,125.5	11,212.6	87.0	88.7	-179.99	8,642.4	142.2	714.8	566.7	148.16	4.824		
19,400.0	10,496.7	20,225.5	11,211.4	88.0	89.7	-179.99	8,742.4	141.5	714.8	565.1	149.64	4.776		
19,500.0	10,495.6	20,325.5	11,210.2	88.9	90.6	-179.99	8,842.4	140.9	714.7	563.6	151.13	4.729		
19,600.0	10,494.5	20,425.5	11,209.0	89.9	91.6	-179.99	8,942.4	140.2	714.6	562.0	152.61	4.683		
19,700.0	10,493.3	20,525.5	11,207.8	90.8	92.6	-179.99	9,042.3	139.6	714.6	560.5	154.09	4.637		
19,800.0	10,492.2	20,625.5	11,206.6	91.8	93.5	-180.00	9,142.3	138.9	714.5	558.9	155.58	4.593		
19,900.0	10,491.0	20,725.5	11,205.4	92.8	94.5	-180.00	9,242.3	138.2	714.5	557.4	157.06	4.549		
20,000.0	10,489.9	20,825.5	11,204.2	93.7	95.4	-180.00	9,342.3	137.6	714.4	555.9	158.55	4.506		
20,100.0	10,488.7	20,925.5	11,203.0	94.7	96.4	-180.00	9,442.3	136.9	714.3	554.3	160.04	4.464		
20,200.0	10,487.6	21,025.5	11,201.8	95.7	97.4	-180.00	9,542.3	136.3	714.3	552.8	161.53	4.422		
20,300.0	10,486.5	21,125.5	11,200.6	96.6	98.3	-180.00	9,642.3	135.6	714.2	551.2	163.02	4.381		
20,400.0	10,485.3	21,225.5	11,199.4	97.6	99.3	-180.00	9,742.3	135.0	714.2	549.7	164.52	4.341		
20,500.0	10,484.2	21,325.5	11,198.2	98.6	100.2	-180.00	9,842.3	134.3	714.1	548.1	166.01	4.302		
20,600.0	10,483.0	21,425.5	11,197.0	99.5	101.2	-180.00	9,942.3	133.7	714.1	546.5	167.50	4.263		
20,700.0	10,481.9	21,525.5	11,195.8	100.5	102.2	-180.00	10,042.3	133.0	714.0	545.0	169.00	4.225		
20,769.0	10,481.1	21,594.2	11,195.0	101.1	102.8	180.00	10,110.9	132.6	714.0	543.9	170.02	4.199		
20,777.3	10,481.0	21,594.2	11,195.0	101.2	102.8	180.00	10,110.9	132.6	714.0	544.2	169.76	4.206		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - _ORE DIGGER FEDERAL 604H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		No-Go		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor	
0.0	0.0	0.0	0.0	0.0	0.0	89.32	0.4	29.9	29.9	29.4	0.51	58.533	
100.0	100.0	100.0	100.0	1.2	1.2	89.32	0.4	29.9	29.9	27.0	2.90	10.315	
200.0	200.0	200.0	200.0	1.7	1.7	89.32	0.4	29.9	29.9	26.0	3.89	7.675	
300.0	300.0	300.0	300.0	2.1	2.1	89.32	0.4	29.9	29.9	25.2	4.66	6.408	
400.0	400.0	400.0	400.0	2.4	2.4	89.32	0.4	29.9	29.9	24.6	5.32	5.621	
500.0	500.0	500.0	500.0	2.7	2.7	89.32	0.4	29.9	29.9	24.0	5.90	5.069	
600.0	600.0	600.0	600.0	3.0	3.0	89.32	0.4	29.9	29.9	23.5	6.42	4.653	
700.0	700.0	700.0	700.0	3.2	3.2	89.32	0.4	29.9	29.9	23.0	6.91	4.324	
800.0	800.0	800.0	800.0	3.5	3.5	89.32	0.4	29.9	29.9	22.5	7.37	4.056	
900.0	900.0	900.0	900.0	3.7	3.7	89.32	0.4	29.9	29.9	22.1	7.80	3.831	
1,000.0	1,000.0	1,000.0	1,000.0	3.9	3.9	89.32	0.4	29.9	29.9	21.7	8.21	3.639	
1,100.0	1,100.0	1,100.0	1,100.0	4.1	4.1	89.32	0.4	29.9	29.9	21.3	8.61	3.473	
1,200.0	1,200.0	1,200.0	1,200.0	4.3	4.3	89.32	0.4	29.9	29.9	20.9	8.99	3.327	
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.5	89.32	0.4	29.9	29.9	20.5	9.35	3.197	
1,400.0	1,400.0	1,400.0	1,400.0	4.7	4.7	89.32	0.4	29.9	29.9	20.2	9.70	3.080	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	89.32	0.4	29.9	29.9	19.8	10.05	2.975 Normal Operations, CC, ES	
1,600.0	1,600.0	1,598.4	1,598.3	5.1	5.3	-53.53	-0.3	32.5	31.5	20.8	10.65	2.957 Normal Operations, SF	
1,700.0	1,699.8	1,696.5	1,696.1	5.3	5.7	-56.66	-2.1	40.4	36.4	25.2	11.17	3.255	
1,800.0	1,799.5	1,794.0	1,792.7	5.6	6.1	-60.29	-5.1	53.3	44.6	33.0	11.64	3.834	
1,900.0	1,898.7	1,890.8	1,887.7	5.9	6.6	-63.51	-9.3	71.2	56.4	44.3	12.08	4.667	
1,956.4	1,954.4	1,944.9	1,940.4	6.0	6.7	-65.02	-12.1	83.3	64.5	52.3	12.16	5.301	
2,000.0	1,997.5	1,987.7	1,981.8	6.0	6.8	-66.06	-14.5	93.7	71.4	59.1	12.23	5.832	
2,100.0	2,096.3	2,086.4	2,077.4	6.3	7.0	-67.82	-20.1	117.7	87.2	74.6	12.58	6.933	
2,200.0	2,195.0	2,185.2	2,173.0	6.5	7.3	-69.04	-25.7	141.8	103.1	90.2	12.97	7.953	
2,300.0	2,293.7	2,283.9	2,268.6	6.8	7.5	-69.93	-31.3	165.8	119.1	105.7	13.38	8.898	
2,400.0	2,392.5	2,382.6	2,364.1	7.1	7.9	-70.61	-36.9	189.8	135.0	121.2	13.82	9.772	
2,500.0	2,491.2	2,481.3	2,459.7	7.4	8.2	-71.15	-42.6	213.8	151.0	136.7	14.28	10.577	
2,600.0	2,589.9	2,580.0	2,555.3	7.8	8.5	-71.59	-48.2	237.9	167.0	152.3	14.76	11.319	
2,700.0	2,688.7	2,678.7	2,650.9	8.1	8.9	-71.95	-53.8	261.9	183.0	167.8	15.25	12.002	
2,800.0	2,787.4	2,777.4	2,746.4	8.5	9.2	-72.25	-59.4	285.9	199.0	183.3	15.76	12.631	
2,900.0	2,886.1	2,876.1	2,842.0	8.8	9.6	-72.50	-65.0	309.9	215.0	198.7	16.27	13.212	
3,000.0	2,984.9	2,974.8	2,937.6	9.2	10.0	-72.72	-70.6	333.9	231.0	214.2	16.81	13.747	
3,100.0	3,083.6	3,073.5	3,033.2	9.6	10.4	-72.92	-76.2	358.0	247.0	229.7	17.35	14.241	
3,200.0	3,182.3	3,172.2	3,128.7	9.9	10.8	-73.09	-81.8	382.0	263.1	245.2	17.90	14.698	
3,300.0	3,281.1	3,270.9	3,224.3	10.3	11.2	-73.23	-87.4	406.0	279.1	260.6	18.46	15.121	
3,310.2	3,291.1	3,281.0	3,234.0	10.3	11.3	-73.25	-87.9	408.5	280.7	262.2	18.51	15.168	
3,400.0	3,379.9	3,369.6	3,319.8	10.7	11.6	-73.38	-93.0	430.0	295.3	276.3	19.05	15.499	
3,500.0	3,479.0	3,468.2	3,415.3	11.1	12.0	-73.23	-98.6	454.0	312.0	292.4	19.66	15.872	
3,600.0	3,578.3	3,566.6	3,510.6	11.5	12.5	-72.83	-104.2	478.0	329.3	309.0	20.29	16.225	
3,700.0	3,677.8	3,664.9	3,605.8	11.8	12.9	-72.20	-109.7	501.9	347.0	326.1	20.96	16.560	
3,800.0	3,777.5	3,763.0	3,700.8	12.2	13.3	-71.40	-115.3	525.8	365.4	343.8	21.65	16.881	
3,900.0	3,877.2	3,860.9	3,795.6	12.5	13.8	-70.46	-120.9	549.6	384.5	362.1	22.36	17.193	
4,000.0	3,977.1	3,958.6	3,890.1	12.8	14.2	-69.39	-126.4	573.4	404.3	381.2	23.10	17.499	
4,100.0	4,077.1	4,055.9	3,984.4	13.1	14.6	-68.22	-131.9	597.1	424.9	401.0	23.86	17.806	
4,200.0	4,177.1	4,153.0	4,078.4	13.4	15.1	-66.98	-137.5	620.7	446.4	421.8	24.63	18.120	
4,222.9	4,200.0	4,175.2	4,099.9	13.4	15.2	74.88	-138.7	626.1	451.4	426.6	24.80	18.205	
4,300.0	4,277.1	4,249.8	4,172.2	13.4	15.5	75.99	-142.9	644.2	468.6	443.3	25.36	18.481	
4,400.0	4,377.1	4,346.7	4,265.9	13.5	16.0	77.31	-148.4	667.8	491.1	465.0	26.08	18.828	
4,500.0	4,477.1	4,443.5	4,359.7	13.5	16.4	78.52	-153.9	691.4	513.9	487.1	26.81	19.170	
4,600.0	4,577.1	4,540.3	4,453.4	13.6	16.9	79.63	-159.4	714.9	536.8	509.3	27.52	19.507	
4,700.0	4,677.1	4,637.2	4,547.2	13.6	17.3	80.64	-164.9	738.5	559.9	531.7	28.23	19.837	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - _ORE DIGGER FEDERAL 604H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)			
4,800.0	4,777.1	4,734.0	4,641.0	13.7	17.8	81.58	-170.4	762.1	583.2	554.3	28.93	20.160	
4,900.0	4,877.1	4,830.8	4,734.7	13.7	18.2	82.44	-175.9	785.6	606.6	577.0	29.63	20.475	
5,000.0	4,977.1	4,927.6	4,828.5	13.8	18.7	83.24	-181.4	809.2	630.1	599.8	30.32	20.783	
5,100.0	5,077.1	5,024.5	4,922.2	13.8	19.1	83.98	-186.9	832.8	653.8	622.8	31.01	21.082	
5,200.0	5,177.1	5,121.3	5,016.0	13.9	19.6	84.67	-192.4	856.3	677.5	645.8	31.70	21.374	
5,300.0	5,277.1	5,218.1	5,109.7	14.0	20.0	85.32	-197.9	879.9	701.3	668.9	32.38	21.658	
5,400.0	5,377.1	5,314.9	5,203.5	14.0	20.5	85.92	-203.4	903.5	725.2	692.2	33.06	21.933	
5,500.0	5,477.1	5,411.8	5,297.2	14.1	20.9	86.48	-208.9	927.0	749.2	715.4	33.75	22.201	
5,600.0	5,577.1	5,508.6	5,391.0	14.1	21.4	87.01	-214.4	950.6	773.2	738.8	34.43	22.461	
5,700.0	5,677.1	5,605.4	5,484.7	14.2	21.9	87.51	-219.9	974.1	797.3	762.2	35.10	22.713	
5,800.0	5,777.1	5,702.3	5,578.5	14.2	22.3	87.98	-225.4	997.7	821.5	785.7	35.78	22.957	
5,900.0	5,877.1	5,799.1	5,672.3	14.3	22.8	88.42	-230.9	1,021.3	845.7	809.2	36.46	23.195	
6,000.0	5,977.1	5,895.9	5,766.0	14.3	23.2	88.84	-236.4	1,044.8	869.9	832.8	37.14	23.425	
6,100.0	6,077.1	5,992.7	5,859.8	14.4	23.7	89.23	-241.9	1,068.4	894.2	856.4	37.81	23.648	
6,200.0	6,177.1	6,089.6	5,953.5	14.5	24.2	89.61	-247.4	1,092.0	918.5	880.0	38.49	23.865	
6,300.0	6,277.1	6,186.4	6,047.3	14.5	24.6	89.96	-252.9	1,115.5	942.9	903.7	39.16	24.076	
6,400.0	6,377.1	6,283.2	6,141.0	14.6	25.1	90.30	-258.4	1,139.1	967.2	927.4	39.84	24.280	
6,500.0	6,477.1	6,380.0	6,234.8	14.6	25.6	90.62	-263.9	1,162.7	991.7	951.2	40.51	24.478	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - MINIS 1 FED HKY COM 8H - OWB - PLANNED													Offset Site Error:	0.0 usft
Survey Program: 100-r.5 MWD													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset		Rule Assigned:		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
0.0	0.0	52.0	52.0	0.0	3.1	-146.70	-552.2	-362.8	660.7	655.9	4.79	138.040		
100.0	100.0	152.0	152.0	1.2	3.3	-146.70	-552.2	-362.8	660.7	655.3	5.47	120.816		
200.0	200.0	252.0	252.0	1.7	3.6	-146.70	-552.2	-362.8	660.7	654.7	6.02	109.678		
300.0	300.0	352.0	352.0	2.1	3.8	-146.70	-552.2	-362.8	660.7	654.2	6.53	101.177		
400.0	400.0	452.0	452.0	2.4	4.0	-146.70	-552.2	-362.8	660.7	653.7	7.00	94.382		
500.0	500.0	552.0	552.0	2.7	4.2	-146.70	-552.2	-362.8	660.7	653.3	7.44	88.781		
600.0	600.0	652.0	652.0	3.0	4.3	-146.70	-552.2	-362.8	660.7	652.9	7.86	84.053		
700.0	700.0	752.0	752.0	3.2	4.5	-146.70	-552.2	-362.8	660.7	652.5	8.26	79.991		
800.0	800.0	852.0	852.0	3.5	4.7	-146.70	-552.2	-362.8	660.7	652.1	8.64	76.448		
900.0	900.0	952.0	952.0	3.7	4.8	-146.70	-552.2	-362.8	660.7	651.7	9.01	73.321		
1,000.0	1,000.0	1,052.0	1,052.0	3.9	5.0	-146.70	-552.2	-362.8	660.7	651.4	9.37	70.533		
1,100.0	1,100.0	1,152.0	1,152.0	4.1	5.2	-146.70	-552.2	-362.8	660.7	651.0	9.71	68.027		
1,200.0	1,200.0	1,252.0	1,252.0	4.3	5.3	-146.70	-552.2	-362.8	660.7	650.7	10.05	65.756		
1,300.0	1,300.0	1,352.0	1,352.0	4.5	5.5	-146.70	-552.2	-362.8	660.7	650.4	10.37	63.686		
1,400.0	1,400.0	1,452.0	1,452.0	4.7	5.6	-146.70	-552.2	-362.8	660.7	650.0	10.69	61.788		
1,500.0	1,500.0	1,552.0	1,552.0	4.8	5.8	-146.70	-552.2	-362.8	660.7	649.7	11.00	60.040		
1,600.0	1,600.0	1,652.0	1,652.0	5.1	5.9	71.88	-552.2	-362.8	660.2	648.9	11.30	58.412		
1,700.0	1,699.8	1,751.8	1,751.8	5.3	6.0	72.35	-552.2	-362.8	658.6	647.0	11.58	56.878		
1,800.0	1,799.5	1,851.5	1,851.5	5.6	6.2	73.12	-552.2	-362.8	656.0	644.1	11.85	55.349		
1,900.0	1,898.7	1,950.7	1,950.7	5.9	6.3	74.20	-552.2	-362.8	652.5	640.4	12.12	53.831		
1,956.4	1,954.4	2,006.4	2,006.4	6.0	6.4	74.95	-552.2	-362.8	650.3	638.0	12.23	53.150		
2,000.0	1,997.5	2,049.5	2,049.5	6.0	6.5	75.53	-552.2	-362.8	648.5	636.2	12.32	52.657		
2,100.0	2,096.3	2,148.3	2,148.3	6.3	6.6	76.88	-552.2	-362.8	644.7	632.1	12.58	51.252		
2,200.0	2,195.0	2,247.0	2,247.0	6.5	6.7	78.25	-552.2	-362.8	641.2	628.4	12.84	49.935		
2,300.0	2,293.7	2,345.7	2,345.7	6.8	6.8	79.62	-552.2	-362.8	638.1	625.0	13.10	48.703		
2,400.0	2,392.5	2,444.5	2,444.5	7.1	7.0	81.01	-552.2	-362.8	635.4	622.1	13.36	47.551		
2,500.0	2,491.2	2,543.2	2,543.2	7.4	7.1	82.41	-552.2	-362.8	633.1	619.5	13.62	46.474		
2,600.0	2,589.9	2,641.9	2,641.9	7.8	7.2	83.82	-552.2	-362.8	631.2	617.3	13.88	45.467		
2,700.0	2,688.7	2,740.7	2,740.7	8.1	7.3	85.24	-552.2	-362.8	629.6	615.5	14.14	44.525		
2,800.0	2,787.4	2,839.4	2,839.4	8.5	7.5	86.66	-552.2	-362.8	628.5	614.1	14.40	43.643		
2,900.0	2,886.1	2,938.1	2,938.1	8.8	7.6	88.09	-552.2	-362.8	627.8	613.1	14.66	42.815		
3,000.0	2,984.9	3,036.9	3,036.9	9.2	7.7	89.52	-552.2	-362.8	627.4	612.5	14.93	42.036		
3,033.9	3,018.4	3,070.4	3,070.4	9.3	7.7	90.01	-552.2	-362.8	627.4	612.4	15.02	41.781 CC		
3,100.0	3,083.6	3,135.6	3,135.6	9.6	7.8	90.95	-552.2	-362.8	627.5	612.3	15.19	41.302		
3,200.0	3,182.3	3,234.3	3,234.3	9.9	7.9	92.38	-552.2	-362.8	628.0	612.5	15.46	40.608		
3,300.0	3,281.1	3,333.1	3,333.1	10.3	8.1	93.81	-552.2	-362.8	628.8	613.1	15.74	39.950		
3,310.2	3,291.1	3,343.1	3,343.1	10.3	8.1	93.95	-552.2	-362.8	629.0	613.2	15.76	39.905		
3,400.0	3,379.9	3,431.9	3,431.9	10.7	8.2	95.18	-552.2	-362.8	630.0	614.0	16.05	39.261		
3,500.0	3,479.0	3,531.0	3,531.0	11.1	8.3	96.40	-552.2	-362.8	631.4	615.1	16.33	38.674		
3,600.0	3,578.3	3,630.3	3,630.3	11.5	8.4	97.46	-552.2	-362.8	632.8	616.2	16.60	38.115		
3,700.0	3,677.8	3,729.8	3,729.8	11.8	8.5	98.36	-552.2	-362.8	634.2	617.3	16.88	37.582		
3,800.0	3,777.5	3,829.5	3,829.5	12.2	8.6	99.11	-552.2	-362.8	635.5	618.3	17.14	37.071		
3,900.0	3,877.2	3,929.2	3,929.2	12.5	8.8	99.69	-552.2	-362.8	636.5	619.1	17.40	36.582		
4,000.0	3,977.1	4,029.1	4,029.1	12.8	8.9	100.12	-552.2	-362.8	637.4	619.7	17.65	36.112		
4,100.0	4,077.1	4,129.1	4,129.1	13.1	9.0	100.39	-552.2	-362.8	637.9	620.0	17.89	35.664		
4,200.0	4,177.1	4,229.1	4,229.1	13.4	9.1	100.51	-552.2	-362.8	638.1	620.0	18.11	35.237		
4,222.9	4,200.0	4,252.0	4,252.0	13.4	9.1	-117.91	-552.2	-362.8	638.1	620.0	18.14	35.176		
4,300.0	4,277.1	4,329.1	4,329.1	13.4	9.2	-117.91	-552.2	-362.8	638.1	619.9	18.27	34.925		
4,400.0	4,377.1	4,429.1	4,429.1	13.5	9.3	-117.91	-552.2	-362.8	638.1	619.7	18.46	34.572		
4,500.0	4,477.1	4,529.1	4,529.1	13.5	9.4	-117.91	-552.2	-362.8	638.1	619.5	18.64	34.226		
4,600.0	4,577.1	4,629.1	4,629.1	13.6	9.5	-117.91	-552.2	-362.8	638.1	619.3	18.83	33.889		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well_ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - MINIS 1 FED HKY COM 8H - OWB - PLANNED													Offset Site Error: 0.0 usft	
Survey Program: 100-r.5 MWD		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Reference Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
4,700.0	4,677.1	4,729.1	4,729.1	13.6	9.6	-117.91	-552.2	-362.8	638.1	619.1	19.02	33.559		
4,800.0	4,777.1	4,829.1	4,829.1	13.7	9.7	-117.91	-552.2	-362.8	638.1	618.9	19.20	33.236		
4,900.0	4,877.1	4,929.1	4,929.1	13.7	9.9	-117.91	-552.2	-362.8	638.1	618.7	19.38	32.919		
5,000.0	4,977.1	5,029.1	5,029.1	13.8	10.0	-117.91	-552.2	-362.8	638.1	618.6	19.57	32.610		
5,100.0	5,077.1	5,129.1	5,129.1	13.8	10.1	-117.91	-552.2	-362.8	638.1	618.4	19.75	32.307		
5,200.0	5,177.1	5,229.1	5,229.1	13.9	10.2	-117.91	-552.2	-362.8	638.1	618.2	19.94	32.010		
5,300.0	5,277.1	5,329.1	5,329.1	14.0	10.3	-117.91	-552.2	-362.8	638.1	618.0	20.12	31.719		
5,400.0	5,377.1	5,429.1	5,429.1	14.0	10.4	-117.91	-552.2	-362.8	638.1	617.8	20.30	31.435		
5,500.0	5,477.1	5,529.1	5,529.1	14.1	10.5	-117.91	-552.2	-362.8	638.1	617.7	20.48	31.155		
5,600.0	5,577.1	5,629.1	5,629.1	14.1	10.6	-117.91	-552.2	-362.8	638.1	617.5	20.66	30.881		
5,700.0	5,677.1	5,729.1	5,729.1	14.2	10.7	-117.91	-552.2	-362.8	638.1	617.3	20.85	30.613		
5,800.0	5,777.1	5,829.1	5,829.1	14.2	10.8	-117.91	-552.2	-362.8	638.1	617.1	21.03	30.349		
5,900.0	5,877.1	5,929.1	5,929.1	14.3	10.9	-117.91	-552.2	-362.8	638.1	616.9	21.21	30.091		
6,000.0	5,977.1	6,029.1	6,029.1	14.3	11.0	-117.91	-552.2	-362.8	638.1	616.7	21.39	29.837		
6,100.0	6,077.1	6,129.1	6,129.1	14.4	11.1	-117.91	-552.2	-362.8	638.1	616.6	21.57	29.588		
6,200.0	6,177.1	6,229.1	6,229.1	14.5	11.2	-117.91	-552.2	-362.8	638.1	616.4	21.75	29.344		
6,300.0	6,277.1	6,329.1	6,329.1	14.5	11.3	-117.91	-552.2	-362.8	638.1	616.2	21.93	29.104		
6,400.0	6,377.1	6,429.1	6,429.1	14.6	11.4	-117.91	-552.2	-362.8	638.1	616.0	22.11	28.868		
6,500.0	6,477.1	6,529.1	6,529.1	14.6	11.5	-117.91	-552.2	-362.8	638.1	615.8	22.28	28.636		
6,600.0	6,577.1	6,629.1	6,629.1	14.7	11.6	-117.91	-552.2	-362.8	638.1	615.7	22.46	28.409		
6,700.0	6,677.1	6,729.1	6,729.1	14.8	11.7	-117.91	-552.2	-362.8	638.1	615.5	22.64	28.185		
6,800.0	6,777.1	6,829.1	6,829.1	14.8	11.8	-117.91	-552.2	-362.8	638.1	615.3	22.82	27.965		
6,900.0	6,877.1	6,929.1	6,929.1	14.9	11.9	-117.91	-552.2	-362.8	638.1	615.1	23.00	27.749		
7,000.0	6,977.1	7,029.1	7,029.1	14.9	12.0	-117.91	-552.2	-362.8	638.1	615.0	23.17	27.536		
7,100.0	7,077.1	7,129.1	7,129.1	15.0	12.1	-117.91	-552.2	-362.8	638.1	614.8	23.35	27.327		
7,200.0	7,177.1	7,229.1	7,229.1	15.0	12.2	-117.91	-552.2	-362.8	638.1	614.6	23.53	27.122		
7,300.0	7,277.1	7,329.1	7,329.1	15.1	12.3	-117.91	-552.2	-362.8	638.1	614.4	23.71	26.920		
7,400.0	7,377.1	7,429.1	7,429.1	15.2	12.4	-117.91	-552.2	-362.8	638.1	614.3	23.88	26.721		
7,500.0	7,477.1	7,529.1	7,529.1	15.2	12.5	-117.91	-552.2	-362.8	638.1	614.1	24.06	26.525		
7,600.0	7,577.1	7,629.1	7,629.1	15.3	12.6	-117.91	-552.2	-362.8	638.1	613.9	24.23	26.332		
7,700.0	7,677.1	7,729.1	7,729.1	15.3	12.7	-117.91	-552.2	-362.8	638.1	613.7	24.41	26.142		
7,800.0	7,777.1	7,829.1	7,829.1	15.4	12.8	-117.91	-552.2	-362.8	638.1	613.5	24.59	25.956		
7,900.0	7,877.1	7,929.1	7,929.1	15.5	12.9	-117.91	-552.2	-362.8	638.1	613.4	24.76	25.772		
8,000.0	7,977.1	8,029.1	8,029.1	15.5	13.0	-117.91	-552.2	-362.8	638.1	613.2	24.94	25.590		
8,100.0	8,077.1	8,129.1	8,129.1	15.6	13.1	-117.91	-552.2	-362.8	638.1	613.0	25.11	25.412		
8,200.0	8,177.1	8,229.1	8,229.1	15.7	13.2	-117.91	-552.2	-362.8	638.1	612.8	25.29	25.236		
8,300.0	8,277.1	8,329.1	8,329.1	15.7	13.3	-117.91	-552.2	-362.8	638.1	612.7	25.46	25.063		
8,400.0	8,377.1	8,429.1	8,429.1	15.8	13.4	-117.91	-552.2	-362.8	638.1	612.5	25.64	24.893		
8,500.0	8,477.1	8,529.1	8,529.1	15.8	13.5	-117.91	-552.2	-362.8	638.1	612.3	25.81	24.724		
8,600.0	8,577.1	8,629.1	8,629.1	15.9	13.6	-117.91	-552.2	-362.8	638.1	612.1	25.98	24.559		
8,700.0	8,677.1	8,729.1	8,729.1	16.0	13.7	-117.91	-552.2	-362.8	638.1	612.0	26.16	24.395		
8,800.0	8,777.1	8,829.1	8,829.1	16.0	13.8	-117.91	-552.2	-362.8	638.1	611.8	26.33	24.234		
8,900.0	8,877.1	8,929.1	8,929.1	16.1	13.9	-117.91	-552.2	-362.8	638.1	611.6	26.51	24.076		
9,000.0	8,977.1	9,029.1	9,029.1	16.1	14.0	-117.91	-552.2	-362.8	638.1	611.5	26.68	23.919		
9,100.0	9,077.1	9,129.1	9,129.1	16.2	14.1	-117.91	-552.2	-362.8	638.1	611.3	26.85	23.765		
9,200.0	9,177.1	9,229.1	9,229.1	16.3	14.2	-117.91	-552.2	-362.8	638.1	611.1	27.03	23.612		
9,300.0	9,277.1	9,329.1	9,329.1	16.3	14.2	-117.91	-552.2	-362.8	638.1	610.9	27.20	23.462		
9,400.0	9,377.1	9,429.1	9,429.1	16.4	14.3	-117.91	-552.2	-362.8	638.1	610.8	27.37	23.314		
9,500.0	9,477.1	9,529.1	9,529.1	16.5	14.4	-117.91	-552.2	-362.8	638.1	610.6	27.54	23.168		
9,600.0	9,577.1	9,629.1	9,629.1	16.5	14.5	-117.91	-552.2	-362.8	638.1	610.4	27.72	23.024		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well_ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - MINIS 1 FED HKY COM 8H - OWB - PLANNED												Offset Site Error:	0.0 usft
Survey Program: 100-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,700.0	9,677.1	9,729.1	9,729.1	16.6	14.6	-117.91	-552.2	-362.8	638.1	610.2	27.89	22.881	
9,800.0	9,777.1	9,829.1	9,829.1	16.7	14.7	-117.91	-552.2	-362.8	638.1	610.1	28.06	22.741	
9,900.0	9,877.1	9,929.1	9,929.1	16.7	14.8	-117.91	-552.2	-362.8	638.1	609.9	28.23	22.602	
10,000.0	9,977.1	10,029.1	10,029.1	16.8	14.9	-117.91	-552.2	-362.8	638.1	609.7	28.40	22.466	
10,000.3	9,977.4	10,029.4	10,029.4	16.8	14.9	-117.91	-552.2	-362.8	638.1	609.7	28.41	22.465 ES	
10,100.0	10,077.1	10,111.2	10,111.2	16.9	15.0	-117.90	-552.2	-363.0	638.6	610.0	28.55	22.364 SF	
10,139.4	10,116.5	10,125.0	10,125.0	16.9	15.0	-117.88	-552.2	-363.7	640.4	611.8	28.62	22.378	
10,150.0	10,127.1	10,134.0	10,134.0	16.9	15.0	-117.39	-552.2	-364.3	641.1	612.5	28.63	22.394	
10,175.0	10,152.0	10,150.0	10,149.9	16.8	15.0	-117.13	-552.2	-365.8	643.7	615.0	28.67	22.450	
10,200.0	10,176.9	10,150.0	10,149.9	16.8	15.0	-116.72	-552.2	-365.8	647.4	618.7	28.78	22.499	
10,225.0	10,201.6	10,167.7	10,167.4	16.8	15.0	-116.31	-552.3	-368.1	652.1	623.3	28.83	22.623	
10,250.0	10,226.1	10,175.0	10,174.6	16.7	15.0	-115.73	-552.3	-369.3	658.0	629.1	28.93	22.747	
10,275.0	10,250.3	10,189.3	10,188.7	16.7	15.0	-115.13	-552.3	-371.9	664.9	635.9	29.00	22.926	
10,300.0	10,274.1	10,200.0	10,199.2	16.6	15.0	-114.40	-552.3	-374.0	672.8	643.7	29.10	23.123	
10,325.0	10,297.4	10,209.9	10,208.8	16.6	15.0	-113.56	-552.3	-376.3	681.7	652.5	29.20	23.345	
10,350.0	10,320.3	10,225.0	10,223.4	16.5	15.0	-112.75	-552.3	-380.1	691.6	662.3	29.27	23.629	
10,375.0	10,342.6	10,225.0	10,223.4	16.5	15.0	-111.43	-552.3	-380.1	702.3	672.8	29.45	23.850	
10,400.0	10,364.3	10,238.3	10,236.2	16.4	15.0	-110.37	-552.4	-383.8	713.9	684.3	29.52	24.179	
10,425.0	10,385.3	10,250.0	10,247.4	16.4	15.1	-109.17	-552.4	-387.4	726.3	696.7	29.61	24.529	
10,450.0	10,405.6	10,250.0	10,247.4	16.3	15.1	-107.40	-552.4	-387.4	739.5	709.7	29.79	24.825	
10,475.0	10,425.1	10,263.3	10,259.9	16.3	15.1	-106.04	-552.4	-391.8	753.4	723.5	29.85	25.239	
10,500.0	10,443.8	10,275.0	10,270.8	16.2	15.1	-104.52	-552.4	-395.9	768.0	738.1	29.91	25.672	
10,525.0	10,461.5	10,275.0	10,270.8	16.2	15.1	-102.29	-552.4	-395.9	783.2	753.1	30.08	26.039	
10,550.0	10,478.3	10,284.5	10,279.6	16.2	15.1	-100.42	-552.5	-399.4	798.9	768.8	30.15	26.502	
10,575.0	10,494.1	10,290.6	10,285.3	16.1	15.1	-98.24	-552.5	-401.8	815.2	785.0	30.23	26.964	
10,600.0	10,508.9	10,300.0	10,293.9	16.1	15.1	-96.15	-552.5	-405.7	832.0	801.7	30.28	27.475	
10,625.0	10,522.6	10,300.0	10,293.9	16.1	15.1	-93.33	-552.5	-405.7	849.2	818.8	30.41	27.928	
10,650.0	10,535.2	10,300.0	10,293.9	16.1	15.1	-90.36	-552.5	-405.7	866.8	836.3	30.52	28.402	
10,675.0	10,546.6	10,310.5	10,303.3	16.0	15.1	-88.07	-552.5	-410.1	884.6	854.1	30.53	28.980	
10,700.0	10,556.9	10,314.3	10,306.8	16.0	15.1	-85.22	-552.5	-411.8	902.7	872.2	30.58	29.521	
10,725.0	10,565.9	10,317.6	10,309.7	16.0	15.1	-82.26	-552.5	-413.2	921.1	890.5	30.63	30.073	
10,750.0	10,573.8	10,325.0	10,316.3	16.0	15.1	-79.62	-552.6	-416.6	939.6	909.0	30.63	30.677	
10,775.0	10,580.3	10,325.0	10,316.3	16.0	15.1	-76.35	-552.6	-416.6	958.2	927.6	30.68	31.229	
10,800.0	10,585.6	10,325.0	10,316.3	16.0	15.1	-73.09	-552.6	-416.6	976.9	946.2	30.73	31.793	
10,825.0	10,589.6	10,325.0	10,316.3	16.1	15.1	-69.88	-552.6	-416.6	995.7	964.9	30.76	32.368	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well_ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - MINIS 1 FED HKY COM 9H - OWB - PLANNED SURVEY UNAVAILABLE												Offset Site Error:	0.0 usft
Survey Program: 100-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	79.0	79.0	0.0	3.1	-149.84	-657.1	-381.8	760.0	755.2	4.79	158.518	
100.0	100.0	179.0	179.0	1.2	3.3	-149.84	-657.1	-381.8	760.0	754.6	5.39	140.916	
200.0	200.0	279.0	279.0	1.7	3.5	-149.84	-657.1	-381.8	760.0	754.0	5.96	127.555	
300.0	300.0	379.0	379.0	2.1	3.7	-149.84	-657.1	-381.8	760.0	753.5	6.47	117.465	
400.0	400.0	479.0	479.0	2.4	3.9	-149.84	-657.1	-381.8	760.0	753.1	6.94	109.440	
500.0	500.0	579.0	579.0	2.7	4.1	-149.84	-657.1	-381.8	760.0	752.6	7.39	102.846	
600.0	600.0	679.0	679.0	3.0	4.3	-149.84	-657.1	-381.8	760.0	752.2	7.81	97.296	
700.0	700.0	779.0	779.0	3.2	4.5	-149.84	-657.1	-381.8	760.0	751.8	8.21	92.537	
800.0	800.0	879.0	879.0	3.5	4.6	-149.84	-657.1	-381.8	760.0	751.4	8.60	88.393	
900.0	900.0	979.0	979.0	3.7	4.8	-149.84	-657.1	-381.8	760.0	751.0	8.97	84.742	
1,000.0	1,000.0	1,079.0	1,079.0	3.9	5.0	-149.84	-657.1	-381.8	760.0	750.7	9.33	81.490	
1,100.0	1,100.0	1,179.0	1,179.0	4.1	5.1	-149.84	-657.1	-381.8	760.0	750.3	9.67	78.569	
1,200.0	1,200.0	1,279.0	1,279.0	4.3	5.3	-149.84	-657.1	-381.8	760.0	750.0	10.01	75.926	
1,300.0	1,300.0	1,379.0	1,379.0	4.5	5.4	-149.84	-657.1	-381.8	760.0	749.7	10.34	73.518	
1,400.0	1,400.0	1,479.0	1,479.0	4.7	5.6	-149.84	-657.1	-381.8	760.0	749.3	10.66	71.311	
1,500.0	1,500.0	1,579.0	1,579.0	4.8	5.7	-149.84	-657.1	-381.8	760.0	749.0	10.97	69.280	
1,600.0	1,600.0	1,679.0	1,679.0	5.1	5.9	68.72	-657.1	-381.8	759.4	748.1	11.27	67.370	
1,700.0	1,699.8	1,778.8	1,778.8	5.3	6.0	69.12	-657.1	-381.8	757.5	745.9	11.55	65.568	
1,800.0	1,799.5	1,878.5	1,878.5	5.6	6.2	69.80	-657.1	-381.8	754.4	742.6	11.83	63.766	
1,900.0	1,898.7	1,977.7	1,977.7	5.9	6.3	70.74	-657.1	-381.8	750.3	738.2	12.11	61.970	
1,956.4	1,954.4	2,033.4	2,033.4	6.0	6.4	71.40	-657.1	-381.8	747.5	735.3	12.22	61.163	
2,000.0	1,997.5	2,076.5	2,076.5	6.0	6.4	71.89	-657.1	-381.8	745.3	733.0	12.30	60.572	
2,100.0	2,096.3	2,175.3	2,175.3	6.3	6.6	73.05	-657.1	-381.8	740.5	727.9	12.57	58.900	
2,200.0	2,195.0	2,274.0	2,274.0	6.5	6.7	74.21	-657.1	-381.8	736.0	723.1	12.84	57.324	
2,300.0	2,293.7	2,372.7	2,372.7	6.8	6.8	75.40	-657.1	-381.8	731.8	718.6	13.10	55.839	
2,400.0	2,392.5	2,471.5	2,471.5	7.1	6.9	76.59	-657.1	-381.8	727.9	714.5	13.37	54.442	
2,500.0	2,491.2	2,570.2	2,570.2	7.4	7.1	77.80	-657.1	-381.8	724.3	710.7	13.63	53.130	
2,600.0	2,589.9	2,668.9	2,668.9	7.8	7.2	79.01	-657.1	-381.8	721.1	707.2	13.89	51.896	
2,700.0	2,688.7	2,767.7	2,767.7	8.1	7.3	80.24	-657.1	-381.8	718.2	704.0	14.16	50.737	
2,800.0	2,787.4	2,866.4	2,866.4	8.5	7.4	81.48	-657.1	-381.8	715.6	701.2	14.41	49.648	
2,900.0	2,886.1	2,965.1	2,965.1	8.8	7.6	82.72	-657.1	-381.8	713.4	698.8	14.67	48.624	
3,000.0	2,984.9	3,063.9	3,063.9	9.2	7.7	83.97	-657.1	-381.8	711.6	696.6	14.93	47.659	
3,100.0	3,083.6	3,162.6	3,162.6	9.6	7.8	85.23	-657.1	-381.8	710.1	694.9	15.19	46.750	
3,200.0	3,182.3	3,261.3	3,261.3	9.9	7.9	86.49	-657.1	-381.8	708.9	693.4	15.45	45.891	
3,300.0	3,281.1	3,360.1	3,360.1	10.3	8.0	87.76	-657.1	-381.8	708.1	692.4	15.71	45.078	
3,310.2	3,291.1	3,370.1	3,370.1	10.3	8.1	87.88	-657.1	-381.8	708.0	692.3	15.73	45.021	
3,400.0	3,379.9	3,458.9	3,458.9	10.7	8.2	88.97	-657.1	-381.8	707.6	691.7	16.00	44.241	
3,495.8	3,474.8	3,553.8	3,553.8	11.1	8.3	90.00	-657.1	-381.8	707.5	691.3	16.24	43.559	
3,500.0	3,479.0	3,558.0	3,558.0	11.1	8.3	90.04	-657.1	-381.8	707.5	691.3	16.25	43.530	
3,600.0	3,578.3	3,657.3	3,657.3	11.5	8.4	90.99	-657.1	-381.8	707.6	691.1	16.51	42.863	
3,700.0	3,677.8	3,756.8	3,756.8	11.8	8.5	91.79	-657.1	-381.8	707.9	691.1	16.76	42.236	
3,800.0	3,777.5	3,856.5	3,856.5	12.2	8.6	92.46	-657.1	-381.8	708.2	691.2	17.01	41.644	
3,900.0	3,877.2	3,956.2	3,956.2	12.5	8.7	92.99	-657.1	-381.8	708.5	691.3	17.24	41.085	
4,000.0	3,977.1	4,056.1	4,056.1	12.8	8.8	93.37	-657.1	-381.8	708.8	691.3	17.48	40.554	
4,100.0	4,077.1	4,156.1	4,156.1	13.1	9.0	93.62	-657.1	-381.8	708.9	691.2	17.70	40.051	
4,200.0	4,177.1	4,256.1	4,256.1	13.4	9.1	93.72	-657.1	-381.8	709.0	691.1	17.92	39.575	
4,222.9	4,200.0	4,279.0	4,279.0	13.4	9.1	-124.70	-657.1	-381.8	709.0	691.1	17.95	39.506	
4,300.0	4,277.1	4,356.1	4,356.1	13.4	9.2	-124.70	-657.1	-381.8	709.0	691.0	18.08	39.217	
4,400.0	4,377.1	4,456.1	4,456.1	13.5	9.3	-124.70	-657.1	-381.8	709.0	690.8	18.27	38.811	
4,500.0	4,477.1	4,556.1	4,556.1	13.5	9.4	-124.70	-657.1	-381.8	709.0	690.6	18.46	38.415	
4,600.0	4,577.1	4,656.1	4,656.1	13.6	9.5	-124.70	-657.1	-381.8	709.0	690.4	18.65	38.027	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well_ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	ORE DIGGER PROJECT - MINIS 1 FED HKY COM 9H - OWB - PLANNED SURVEY UNAVAILABLE												Offset Site Error:	0.0 usft
Survey Program:	100-r.5 MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
4,700.0	4,677.1	4,756.1	4,756.1	13.6	9.6	-124.70	-657.1	-381.8	709.0	690.2	18.83	37.648		
4,800.0	4,777.1	4,856.1	4,856.1	13.7	9.7	-124.70	-657.1	-381.8	709.0	690.0	19.02	37.278		
4,900.0	4,877.1	4,956.1	4,956.1	13.7	9.8	-124.70	-657.1	-381.8	709.0	689.8	19.21	36.916		
5,000.0	4,977.1	5,056.1	5,056.1	13.8	9.9	-124.70	-657.1	-381.8	709.0	689.6	19.39	36.562		
5,100.0	5,077.1	5,156.1	5,156.1	13.8	10.0	-124.70	-657.1	-381.8	709.0	689.5	19.58	36.215		
5,200.0	5,177.1	5,256.1	5,256.1	13.9	10.2	-124.70	-657.1	-381.8	709.0	689.3	19.76	35.875		
5,300.0	5,277.1	5,356.1	5,356.1	14.0	10.3	-124.70	-657.1	-381.8	709.0	689.1	19.95	35.543		
5,400.0	5,377.1	5,456.1	5,456.1	14.0	10.4	-124.70	-657.1	-381.8	709.0	688.9	20.13	35.218		
5,500.0	5,477.1	5,556.1	5,556.1	14.1	10.6	-124.70	-657.1	-381.8	709.0	688.6	20.41	34.733		
5,600.0	5,577.1	5,656.1	5,656.1	14.1	10.8	-124.70	-657.1	-381.8	709.0	688.3	20.77	34.135		
5,700.0	5,677.1	5,756.1	5,756.1	14.2	11.0	-124.70	-657.1	-381.8	709.0	688.0	21.03	33.715		
5,800.0	5,777.1	5,856.1	5,856.1	14.2	11.1	-124.70	-657.1	-381.8	709.0	687.8	21.21	33.429		
5,900.0	5,877.1	5,956.1	5,956.1	14.3	11.2	-124.70	-657.1	-381.8	709.0	687.6	21.39	33.149		
6,000.0	5,977.1	6,056.1	6,056.1	14.3	11.3	-124.70	-657.1	-381.8	709.0	687.5	21.57	32.873		
6,100.0	6,077.1	6,156.1	6,156.1	14.4	11.4	-124.70	-657.1	-381.8	709.0	687.3	21.75	32.603		
6,200.0	6,177.1	6,256.1	6,256.1	14.5	11.5	-124.70	-657.1	-381.8	709.0	687.1	21.93	32.338		
6,300.0	6,277.1	6,356.1	6,356.1	14.5	11.6	-124.70	-657.1	-381.8	709.0	686.9	22.10	32.077		
6,400.0	6,377.1	6,456.1	6,456.1	14.6	11.7	-124.70	-657.1	-381.8	709.0	686.7	22.28	31.820		
6,500.0	6,477.1	6,556.1	6,556.1	14.6	11.8	-124.70	-657.1	-381.8	709.0	686.6	22.46	31.569		
6,600.0	6,577.1	6,656.1	6,656.1	14.7	11.9	-124.70	-657.1	-381.8	709.0	686.4	22.64	31.321		
6,700.0	6,677.1	6,756.1	6,756.1	14.8	12.0	-124.70	-657.1	-381.8	709.0	686.2	22.81	31.078		
6,800.0	6,777.1	6,856.1	6,856.1	14.8	12.1	-124.70	-657.1	-381.8	709.0	686.0	22.99	30.839		
6,900.0	6,877.1	6,956.1	6,956.1	14.9	12.2	-124.70	-657.1	-381.8	709.0	685.9	23.17	30.603		
7,000.0	6,977.1	7,056.1	7,056.1	14.9	12.3	-124.70	-657.1	-381.8	709.0	685.7	23.34	30.372		
7,100.0	7,077.1	7,156.1	7,156.1	15.0	12.4	-124.70	-657.1	-381.8	709.0	685.5	23.52	30.144		
7,200.0	7,177.1	7,256.1	7,256.1	15.0	12.5	-124.70	-657.1	-381.8	709.0	685.3	23.70	29.920		
7,300.0	7,277.1	7,356.1	7,356.1	15.1	12.6	-124.70	-657.1	-381.8	709.0	685.2	23.87	29.700		
7,400.0	7,377.1	7,456.1	7,456.1	15.2	12.7	-124.70	-657.1	-381.8	709.0	685.0	24.05	29.483		
7,500.0	7,477.1	7,556.1	7,556.1	15.2	12.8	-124.70	-657.1	-381.8	709.0	684.8	24.22	29.270		
7,600.0	7,577.1	7,656.1	7,656.1	15.3	12.9	-124.70	-657.1	-381.8	709.0	684.6	24.40	29.059		
7,700.0	7,677.1	7,756.1	7,756.1	15.3	13.0	-124.70	-657.1	-381.8	709.0	684.5	24.57	28.852		
7,800.0	7,777.1	7,856.1	7,856.1	15.4	13.1	-124.70	-657.1	-381.8	709.0	684.3	24.75	28.649		
7,900.0	7,877.1	7,956.1	7,956.1	15.5	13.2	-124.70	-657.1	-381.8	709.0	684.1	24.92	28.448		
8,000.0	7,977.1	8,056.1	8,056.1	15.5	13.3	-124.70	-657.1	-381.8	709.0	683.9	25.10	28.250		
8,100.0	8,077.1	8,156.1	8,156.1	15.6	13.4	-124.70	-657.1	-381.8	709.0	683.8	25.27	28.055		
8,200.0	8,177.1	8,256.1	8,256.1	15.7	13.5	-124.70	-657.1	-381.8	709.0	683.6	25.45	27.864		
8,300.0	8,277.1	8,356.1	8,356.1	15.7	13.5	-124.70	-657.1	-381.8	709.0	683.4	25.62	27.674		
8,400.0	8,377.1	8,456.1	8,456.1	15.8	13.6	-124.70	-657.1	-381.8	709.0	683.2	25.79	27.488		
8,500.0	8,477.1	8,556.1	8,556.1	15.8	13.7	-124.70	-657.1	-381.8	709.0	683.1	25.97	27.304		
8,600.0	8,577.1	8,656.1	8,656.1	15.9	13.8	-124.70	-657.1	-381.8	709.0	682.9	26.14	27.123		
8,700.0	8,677.1	8,756.1	8,756.1	16.0	13.9	-124.70	-657.1	-381.8	709.0	682.7	26.31	26.945		
8,800.0	8,777.1	8,856.1	8,856.1	16.0	14.0	-124.70	-657.1	-381.8	709.0	682.5	26.49	26.769		
8,900.0	8,877.1	8,956.1	8,956.1	16.1	14.1	-124.70	-657.1	-381.8	709.0	682.4	26.66	26.595		
9,000.0	8,977.1	9,056.1	9,056.1	16.1	14.2	-124.70	-657.1	-381.8	709.0	682.2	26.83	26.424		
9,100.0	9,077.1	9,156.1	9,156.1	16.2	14.3	-124.70	-657.1	-381.8	709.0	682.0	27.01	26.255		
9,200.0	9,177.1	9,256.1	9,256.1	16.3	14.4	-124.70	-657.1	-381.8	709.0	681.9	27.18	26.088		
9,300.0	9,277.1	9,356.1	9,356.1	16.3	14.5	-124.70	-657.1	-381.8	709.0	681.7	27.35	25.924		
9,400.0	9,377.1	9,456.1	9,456.1	16.4	14.6	-124.70	-657.1	-381.8	709.0	681.5	27.52	25.762		
9,500.0	9,477.1	9,556.1	9,556.1	16.5	14.7	-124.70	-657.1	-381.8	709.0	681.3	27.69	25.602		
9,600.0	9,577.1	9,656.1	9,656.1	16.5	14.8	-124.70	-657.1	-381.8	709.0	681.2	27.87	25.444		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	ORE DIGGER PROJECT - MINIS 1 FED HKY COM 9H - OWB - PLANNED SURVEY UNAVAILABLE											Offset Site Error:	0.0 usft
Survey Program:	100-r.5 MWD											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
9,700.0	9,677.1	9,756.1	9,756.1	16.6	14.9	-124.70	-657.1	-381.8	709.0	681.0	28.04	25.288	
9,800.0	9,777.1	9,856.1	9,856.1	16.7	14.9	-124.70	-657.1	-381.8	709.0	680.8	28.21	25.134	
9,900.0	9,877.1	10,075.0	10,074.0	16.7	15.1	-125.30	-657.0	-368.9	708.3	679.5	28.73	24.648	
10,000.0	9,977.1	10,075.0	10,074.0	16.8	15.1	-125.30	-657.0	-368.9	698.6	670.1	28.50	24.510	
10,017.9	9,995.0	10,075.0	10,074.0	16.8	15.1	-125.30	-657.0	-368.9	698.4	669.9	28.51	24.498 CC, ES	
10,100.0	10,077.1	10,075.0	10,074.0	16.9	15.1	-125.30	-657.0	-368.9	703.2	674.5	28.73	24.478 SF	
10,139.4	10,116.5	10,075.0	10,074.0	16.9	15.1	-125.30	-657.0	-368.9	708.9	679.9	28.93	24.501	
10,150.0	10,127.1	10,075.0	10,074.0	16.9	15.1	-124.72	-657.0	-368.9	710.8	681.8	29.00	24.513	
10,175.0	10,152.0	10,075.0	10,074.0	16.8	15.1	-124.14	-657.0	-368.9	716.6	687.4	29.18	24.560	
10,200.0	10,176.9	10,075.0	10,074.0	16.8	15.1	-123.38	-657.0	-368.9	723.8	694.4	29.38	24.640	
10,225.0	10,201.6	10,075.0	10,074.0	16.8	15.1	-122.44	-657.0	-368.9	732.5	702.9	29.59	24.754	
10,250.0	10,226.1	10,075.0	10,074.0	16.7	15.1	-121.32	-657.0	-368.9	742.6	712.8	29.82	24.903	
10,275.0	10,250.3	10,075.0	10,074.0	16.7	15.1	-120.00	-657.0	-368.9	754.0	724.0	30.06	25.085	
10,300.0	10,274.1	10,075.0	10,074.0	16.6	15.1	-118.47	-657.0	-368.9	766.6	736.3	30.30	25.301	
10,325.0	10,297.4	10,075.0	10,074.0	16.6	15.1	-116.72	-657.0	-368.9	780.4	749.8	30.54	25.550	
10,350.0	10,320.3	10,075.0	10,074.0	16.5	15.1	-114.75	-657.0	-368.9	795.1	764.3	30.78	25.832	
10,375.0	10,342.6	10,075.0	10,074.0	16.5	15.1	-112.53	-657.0	-368.9	810.8	779.8	31.01	26.144	
10,400.0	10,364.3	10,075.0	10,074.0	16.4	15.1	-110.07	-657.0	-368.9	827.3	796.1	31.23	26.487	
10,425.0	10,385.3	10,075.0	10,074.0	16.4	15.1	-107.36	-657.0	-368.9	844.5	813.1	31.45	26.857	
10,450.0	10,405.6	10,075.0	10,074.0	16.3	15.1	-104.40	-657.0	-368.9	862.5	830.8	31.65	27.254	
10,475.0	10,425.1	10,075.0	10,074.0	16.3	15.1	-101.19	-657.0	-368.9	880.9	849.1	31.83	27.675	
10,500.0	10,443.8	10,075.0	10,074.0	16.2	15.1	-97.76	-657.0	-368.9	899.9	867.9	32.00	28.119	
10,525.0	10,461.5	10,075.0	10,074.0	16.2	15.1	-94.11	-657.0	-368.9	919.2	887.1	32.16	28.584	
10,550.0	10,478.3	10,075.0	10,074.0	16.2	15.1	-90.29	-657.0	-368.9	938.9	906.6	32.30	29.068	
10,575.0	10,494.1	10,075.0	10,074.0	16.1	15.1	-86.33	-657.0	-368.9	958.8	926.4	32.43	29.569	
10,600.0	10,508.9	10,075.0	10,074.0	16.1	15.1	-82.29	-657.0	-368.9	978.9	946.4	32.54	30.085	
10,625.0	10,522.6	10,075.0	10,074.0	16.1	15.1	-78.22	-657.0	-368.9	999.2	966.5	32.64	30.616	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - MINIS 1 FEDERAL COM 3BS 4H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 148-r.5 MWD		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error: 3.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	81.7	81.7	0.0	3.1	-137.01	-538.9	-502.4	736.8	732.0	4.78	154.188		
100.0	100.0	183.2	183.2	1.2	3.2	-137.04	-538.9	-501.9	736.4	731.1	5.32	138.511		
191.7	191.7	271.7	271.7	1.7	3.4	-137.06	-538.9	-501.6	736.2	730.4	5.84	126.048		
200.0	200.0	279.7	279.7	1.7	3.5	-137.06	-538.9	-501.5	736.2	730.3	5.90	124.863		
300.0	300.0	380.1	380.1	2.1	3.7	-137.09	-539.3	-501.3	736.3	730.0	6.38	115.450		
400.0	400.0	483.3	483.3	2.4	3.9	-137.13	-539.4	-500.8	736.1	729.2	6.87	107.220		
500.0	500.0	581.0	581.0	2.7	4.0	-137.13	-539.2	-500.5	735.7	728.5	7.21	102.024		
600.0	600.0	683.1	683.1	3.0	4.1	-137.14	-539.2	-500.3	735.5	728.0	7.57	97.203		
700.0	700.0	783.6	783.6	3.2	4.3	-137.15	-538.8	-499.8	734.9	727.0	7.96	92.367		
800.0	800.0	880.9	880.9	3.5	4.5	-137.16	-538.7	-499.5	734.6	726.3	8.36	87.922		
900.0	900.0	982.0	982.0	3.7	4.7	-137.17	-538.6	-499.4	734.5	725.8	8.72	84.200		
962.4	962.4	1,042.4	1,042.4	3.8	4.7	-137.15	-538.4	-499.4	734.4	725.4	8.93	82.267 CC		
1,000.0	1,000.0	1,078.2	1,078.2	3.9	4.8	-137.15	-538.5	-499.4	734.4	725.4	9.05	81.181		
1,100.0	1,100.0	1,178.0	1,178.0	4.1	4.9	-137.15	-538.6	-499.7	734.7	725.4	9.35	78.603 ES		
1,200.0	1,200.0	1,275.6	1,275.6	4.3	5.0	-137.12	-538.7	-500.2	735.1	725.5	9.64	76.285		
1,300.0	1,300.0	1,377.6	1,377.6	4.5	5.1	-137.16	-539.4	-500.2	735.6	725.7	9.94	74.030		
1,400.0	1,400.0	1,479.5	1,479.5	4.7	5.3	-137.22	-540.0	-499.7	735.8	725.5	10.23	71.920		
1,500.0	1,500.0	1,574.9	1,574.8	4.8	5.4	-137.31	-541.0	-499.1	736.1	725.6	10.53	69.908		
1,600.0	1,600.0	1,665.4	1,665.4	5.1	6.0	81.32	-541.0	-500.9	737.2	726.0	11.19	65.889		
1,700.0	1,699.8	1,760.4	1,760.1	5.3	6.1	82.08	-539.0	-506.3	738.7	727.3	11.42	64.711		
1,800.0	1,799.5	1,851.7	1,851.1	5.6	6.2	83.25	-535.7	-513.9	740.9	729.3	11.63	63.714		
1,900.0	1,898.7	1,950.4	1,949.3	5.9	6.3	84.83	-531.6	-523.0	743.4	731.5	11.85	62.718		
1,956.4	1,954.4	1,995.9	1,994.5	6.0	6.3	85.63	-529.9	-527.4	745.3	733.4	11.94	62.447		
2,000.0	1,997.5	2,033.0	2,031.4	6.0	6.4	86.34	-528.8	-531.3	747.5	735.5	12.00	62.303		
2,100.0	2,096.3	2,109.0	2,106.8	6.3	6.5	87.77	-527.6	-540.2	754.5	742.3	12.21	61.814		
2,200.0	2,195.0	2,198.7	2,195.8	6.5	6.6	89.40	-527.5	-551.8	764.2	751.8	12.45	61.376		
2,300.0	2,293.7	2,295.8	2,292.1	6.8	6.7	91.09	-527.8	-564.3	774.9	762.2	12.73	60.853		
2,400.0	2,392.5	2,391.2	2,386.8	7.1	6.9	92.71	-528.1	-576.6	786.3	773.3	13.04	60.314		
2,500.0	2,491.2	2,492.6	2,487.3	7.4	7.0	94.39	-528.5	-589.5	798.2	784.8	13.38	59.648		
2,600.0	2,589.9	2,594.4	2,588.3	7.8	7.2	96.03	-528.2	-602.0	810.1	796.3	13.75	58.914		
2,700.0	2,688.7	2,699.6	2,692.9	8.1	7.4	97.64	-528.0	-613.9	821.8	807.6	14.15	58.063		
2,800.0	2,787.4	2,807.3	2,800.0	8.5	7.6	99.21	-527.6	-624.8	832.8	818.3	14.58	57.122		
2,900.0	2,886.1	2,908.6	2,900.8	8.8	7.9	100.65	-526.7	-634.0	843.4	828.4	15.00	56.220		
3,000.0	2,984.9	3,002.5	2,994.3	9.2	8.1	102.02	-525.1	-643.4	854.8	839.4	15.42	55.444		
3,100.0	3,083.6	3,108.2	3,099.4	9.6	8.4	103.57	-522.3	-653.7	866.3	850.4	15.89	54.520		
3,200.0	3,182.3	3,199.9	3,190.7	9.9	8.7	104.87	-519.7	-662.2	877.7	861.4	16.35	53.690		
3,300.0	3,281.1	3,277.3	3,267.6	10.3	9.0	105.98	-517.6	-670.9	891.5	874.7	16.77	53.153		
3,310.2	3,291.1	3,285.9	3,276.1	10.3	9.0	106.11	-517.4	-672.0	893.0	876.2	16.81	53.117		
3,400.0	3,379.9	3,362.6	3,352.1	10.7	9.3	107.32	-515.2	-682.0	907.2	889.9	17.27	52.537		
3,500.0	3,479.0	3,462.2	3,450.8	11.1	9.6	108.73	-512.4	-695.4	923.2	905.4	17.82	51.817		
3,600.0	3,578.3	3,556.7	3,544.4	11.5	9.9	109.93	-509.9	-708.1	939.1	920.7	18.35	51.182		
3,700.0	3,677.8	3,655.8	3,642.6	11.8	10.3	111.05	-507.1	-721.4	954.7	935.8	18.91	50.495		
3,800.0	3,777.5	3,751.0	3,736.8	12.2	10.6	112.02	-504.3	-734.4	970.0	950.5	19.45	49.879		
3,900.0	3,877.2	3,848.7	3,833.6	12.5	11.0	112.90	-501.2	-747.9	985.0	965.0	20.00	49.247		
4,000.0	3,977.1	3,944.9	3,928.8	12.8	11.3	113.66	-497.9	-761.2	999.3	978.8	20.54	48.645 SF		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - MINIS 1 FEDERAL COM 3BS 5H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 195-r.5 MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.0	0.0	76.4	76.4	0.0	3.1	-138.73	-538.7	-472.8	716.8	711.9	4.83	148.496	
100.0	100.0	174.3	174.3	1.2	3.5	-138.66	-538.4	-473.7	717.1	711.5	5.63	127.440	
200.0	200.0	272.6	272.6	1.7	3.7	-138.55	-538.0	-475.1	717.8	711.6	6.22	115.476	
300.0	300.0	371.0	371.0	2.1	4.2	-138.42	-537.6	-476.9	718.6	711.7	6.98	102.900	
400.0	400.0	469.4	469.4	2.4	4.7	-138.33	-537.6	-478.5	719.7	711.9	7.85	91.727	
500.0	500.0	570.5	570.4	2.7	4.9	-138.35	-538.6	-479.1	720.9	712.6	8.25	87.333	
600.0	600.0	674.9	674.8	3.0	5.0	-138.51	-540.5	-478.0	721.6	712.9	8.63	83.612	
700.0	700.0	775.8	775.7	3.2	5.2	-138.67	-542.2	-476.8	722.0	712.9	9.06	79.653	
800.0	800.0	879.6	879.5	3.5	5.6	-138.80	-543.3	-475.6	722.1	712.3	9.75	74.028	
900.0	900.0	981.5	981.4	3.7	6.0	-138.90	-543.8	-474.4	721.6	711.4	10.29	70.162	
1,000.0	1,000.0	1,080.5	1,080.4	3.9	6.1	-139.02	-544.5	-473.0	721.2	710.7	10.55	68.343	
1,100.0	1,100.0	1,180.2	1,180.1	4.1	6.2	-139.13	-545.2	-471.7	721.0	710.1	10.84	66.535	
1,200.0	1,200.0	1,280.7	1,280.5	4.3	6.3	-139.23	-545.8	-470.6	720.6	709.5	11.11	64.886	
1,300.0	1,300.0	1,380.0	1,379.9	4.5	6.5	-139.31	-546.2	-469.6	720.3	708.9	11.37	63.330	
1,400.0	1,400.0	1,480.6	1,480.4	4.7	6.6	-139.39	-546.6	-468.6	720.0	708.4	11.60	62.066	
1,500.0	1,500.0	1,580.9	1,580.7	4.8	6.7	-139.50	-547.2	-467.4	719.7	707.9	11.82	60.872	
1,600.0	1,600.0	1,682.1	1,681.9	5.1	6.9	78.94	-548.1	-465.7	718.9	706.8	12.07	59.567	
1,700.0	1,699.8	1,803.1	1,802.9	5.3	7.1	79.24	-548.3	-461.8	716.0	703.6	12.34	58.025	
1,800.0	1,799.5	1,913.8	1,913.4	5.6	7.3	79.79	-547.3	-455.5	709.9	697.3	12.58	56.428	
1,900.0	1,898.7	2,016.1	2,015.4	5.9	7.5	80.61	-545.9	-448.9	702.5	689.7	12.83	54.750	
1,956.4	1,954.4	2,073.5	2,072.7	6.0	7.6	81.21	-545.0	-445.0	698.0	685.0	12.95	53.916	
2,000.0	1,997.5	2,117.1	2,116.2	6.0	7.7	81.64	-544.3	-442.1	694.3	681.3	13.03	53.275	
2,100.0	2,096.3	2,217.5	2,216.3	6.3	7.9	82.63	-542.6	-435.1	686.1	672.8	13.32	51.510	
2,200.0	2,195.0	2,319.5	2,318.1	6.5	8.1	83.64	-540.9	-427.6	677.7	664.1	13.63	49.728	
2,300.0	2,293.7	2,424.6	2,422.7	6.8	8.4	84.67	-538.8	-419.1	668.9	655.0	13.96	47.908	
2,400.0	2,392.5	2,530.4	2,528.1	7.1	8.6	85.68	-536.5	-409.3	659.3	645.0	14.32	46.034	
2,500.0	2,491.2	2,637.3	2,634.4	7.4	8.9	86.64	-534.1	-397.8	648.7	634.0	14.70	44.117	
2,600.0	2,589.9	2,743.0	2,739.2	7.8	9.2	87.54	-531.6	-384.8	637.1	622.0	15.11	42.158	
2,700.0	2,688.7	2,837.3	2,832.8	8.1	9.5	88.39	-529.2	-373.3	625.5	610.0	15.53	40.280	
2,800.0	2,787.4	2,934.2	2,929.1	8.5	9.8	89.40	-526.1	-362.6	614.6	598.7	15.97	38.486	
2,900.0	2,886.1	3,032.0	3,026.2	8.8	10.1	90.49	-522.8	-352.1	604.0	587.5	16.44	36.748	
3,000.0	2,984.9	3,111.0	3,104.8	9.2	10.3	91.39	-520.7	-344.3	594.9	578.0	16.88	35.242	
3,100.0	3,083.6	3,205.0	3,198.5	9.6	10.7	92.51	-519.7	-337.2	588.6	571.3	17.37	33.894	
3,200.0	3,182.3	3,297.2	3,290.5	9.9	10.9	93.66	-519.3	-331.7	584.3	566.5	17.82	32.793	
3,300.0	3,281.1	3,395.3	3,388.5	10.3	11.2	94.92	-518.7	-326.0	580.3	562.0	18.30	31.712	
3,310.2	3,291.1	3,405.4	3,398.5	10.3	11.2	95.05	-518.7	-325.4	579.9	561.6	18.34	31.616	
3,400.0	3,379.9	3,494.4	3,487.5	10.7	11.5	96.13	-518.0	-320.4	576.6	557.8	18.82	30.640	
3,500.0	3,479.0	3,597.7	3,590.5	11.1	11.8	97.25	-516.9	-314.4	572.6	553.3	19.34	29.610	
3,600.0	3,578.3	3,698.9	3,691.6	11.5	12.1	98.22	-515.1	-308.3	568.2	548.3	19.86	28.602	
3,700.0	3,677.8	3,801.2	3,793.6	11.8	12.4	99.07	-512.9	-302.0	563.2	542.8	20.38	27.635	
3,800.0	3,777.5	3,901.1	3,893.2	12.2	12.7	99.73	-510.6	-295.4	557.6	536.7	20.90	26.677	
3,900.0	3,877.2	3,997.8	3,989.8	12.5	13.0	100.19	-508.7	-289.4	552.3	530.9	21.39	25.817	
4,000.0	3,977.1	4,097.5	4,089.3	12.8	13.3	100.55	-506.4	-283.5	546.9	525.0	21.88	24.993	
4,100.0	4,077.1	4,197.0	4,188.6	13.1	13.7	100.63	-505.0	-277.2	541.2	518.9	22.34	24.225	
4,200.0	4,177.1	4,297.1	4,288.4	13.4	14.0	100.43	-504.3	-270.6	535.3	512.5	22.77	23.509	
4,222.9	4,200.0	4,320.2	4,311.5	13.4	14.1	-118.07	-504.2	-269.0	533.9	511.0	22.85	23.364	
4,300.0	4,277.1	4,397.2	4,388.3	13.4	14.3	-118.31	-503.9	-263.7	529.0	505.9	23.14	22.864	
4,400.0	4,377.1	4,494.3	4,485.2	13.5	14.6	-118.63	-503.6	-257.1	522.9	499.4	23.51	22.242	
4,500.0	4,477.1	4,592.8	4,583.5	13.5	15.0	-118.95	-503.6	-250.9	517.4	493.5	23.88	21.667	
4,600.0	4,577.1	4,693.7	4,684.2	13.6	15.3	-119.29	-503.5	-244.6	511.8	487.6	24.26	21.098	
4,700.0	4,677.1	4,795.0	4,785.2	13.6	15.6	-119.61	-503.1	-238.0	506.0	481.4	24.65	20.529	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well_ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - MINIS 1 FEDERAL COM 3BS 5H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 195-r.5 MWD				Rule Assigned:									Offset Well Error: 3.0 usft	
Measured Depth (usft)	Reference Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Reference (usft)	Major Axis Offset (usft)	Highside Toolface (°)	Offset +N/-S (usft)	Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
4,800.0	4,777.1	4,894.4	4,884.5	13.7	16.0	-119.94	-502.6	-231.5	500.1	475.0	25.03	19.977		
4,900.0	4,877.1	4,995.0	4,984.8	13.7	16.3	-120.30	-502.3	-224.7	494.1	468.7	25.42	19.441		
5,000.0	4,977.1	5,094.0	5,083.6	13.8	16.6	-120.67	-502.1	-218.1	488.2	462.4	25.79	18.926		
5,100.0	5,077.1	5,194.2	5,183.6	13.8	17.0	-121.06	-501.9	-211.3	482.3	456.1	26.17	18.428		
5,200.0	5,177.1	5,295.8	5,284.9	13.9	17.3	-121.49	-501.7	-204.2	476.2	449.6	26.55	17.934		
5,300.0	5,277.1	5,395.2	5,384.0	14.0	17.7	-121.97	-501.9	-196.8	470.0	443.1	26.91	17.462		
5,400.0	5,377.1	5,495.0	5,483.6	14.0	18.0	-122.48	-502.1	-189.5	463.8	436.5	27.27	17.008		
5,500.0	5,477.1	5,594.9	5,583.2	14.1	18.4	-123.00	-502.3	-182.0	457.7	430.1	27.62	16.570		
5,600.0	5,577.1	5,695.7	5,683.7	14.1	18.7	-123.54	-502.4	-174.4	451.5	423.5	27.97	16.138		
5,700.0	5,677.1	5,795.4	5,783.1	14.2	19.1	-124.13	-502.7	-166.6	445.1	416.8	28.32	15.716		
5,800.0	5,777.1	5,893.8	5,881.2	14.2	19.4	-124.80	-503.6	-158.7	438.9	410.3	28.63	15.329		
5,900.0	5,877.1	5,998.5	5,985.6	14.3	19.8	-125.50	-504.2	-150.3	432.7	403.8	28.97	14.936		
6,000.0	5,977.1	6,101.6	6,088.3	14.3	20.2	-126.04	-502.9	-141.6	425.1	395.8	29.36	14.482		
6,100.0	6,077.1	6,200.3	6,186.6	14.4	20.5	-126.49	-501.0	-133.5	417.4	387.6	29.75	14.031		
6,200.0	6,177.1	6,297.6	6,283.6	14.5	20.9	-126.97	-499.6	-125.8	410.1	380.0	30.12	13.618		
6,300.0	6,277.1	6,395.5	6,381.2	14.5	21.2	-127.50	-498.6	-118.3	403.4	373.0	30.47	13.241		
6,400.0	6,377.1	6,495.9	6,481.4	14.6	21.6	-128.04	-497.5	-110.8	396.9	366.1	30.83	12.876		
6,500.0	6,477.1	6,595.8	6,580.9	14.6	22.0	-128.57	-496.3	-103.3	390.3	359.1	31.18	12.516		
6,600.0	6,577.1	6,693.9	6,678.7	14.7	22.3	-129.09	-495.1	-96.2	383.8	352.3	31.52	12.176		
6,700.0	6,677.1	6,791.3	6,775.9	14.8	22.7	-129.67	-494.5	-89.5	378.1	346.3	31.84	11.876		
6,800.0	6,777.1	6,894.5	6,878.8	14.8	23.0	-130.32	-493.7	-82.0	372.0	339.9	32.16	11.567		
6,900.0	6,877.1	6,995.0	6,979.0	14.9	23.4	-131.07	-493.3	-74.0	365.7	333.3	32.46	11.268		
7,000.0	6,977.1	7,100.5	7,084.1	14.9	23.8	-131.71	-491.2	-65.6	358.4	325.6	32.82	10.920		
7,100.0	7,077.1	7,202.1	7,185.4	15.0	24.1	-132.08	-487.0	-57.5	349.8	316.5	33.24	10.523		
7,200.0	7,177.1	7,299.9	7,282.8	15.0	24.5	-132.40	-482.9	-50.2	341.4	307.7	33.65	10.144		
7,300.0	7,277.1	7,397.7	7,380.3	15.1	24.8	-132.72	-479.1	-43.2	333.5	299.4	34.06	9.792		
7,400.0	7,377.1	7,495.0	7,477.3	15.2	25.1	-133.06	-475.8	-36.7	326.3	291.8	34.45	9.471		
7,500.0	7,477.1	7,593.3	7,575.4	15.2	25.4	-133.41	-472.8	-30.8	319.8	285.0	34.83	9.181		
7,600.0	7,577.1	7,691.7	7,673.5	15.3	25.8	-133.75	-470.0	-25.0	313.6	278.4	35.21	8.907		
7,700.0	7,677.1	7,790.7	7,772.4	15.3	26.1	-134.13	-467.6	-19.6	307.9	272.4	35.57	8.657		
7,800.0	7,777.1	7,889.8	7,871.4	15.4	26.4	-134.58	-465.5	-14.0	302.4	266.5	35.91	8.421		
7,900.0	7,877.1	7,989.0	7,970.4	15.5	26.8	-135.01	-463.4	-8.7	297.1	260.9	36.25	8.197		
8,000.0	7,977.1	8,088.1	8,069.3	15.5	27.1	-135.50	-461.6	-3.4	292.1	255.6	36.56	7.990		
8,100.0	8,077.1	8,186.8	8,167.9	15.6	27.4	-136.07	-460.3	1.9	287.5	250.6	36.84	7.803		
8,200.0	8,177.1	8,286.9	8,267.8	15.7	27.8	-136.62	-459.0	6.9	283.0	245.9	37.12	7.624		
8,300.0	8,277.1	8,386.3	8,367.1	15.7	28.1	-137.09	-457.4	11.6	278.6	241.2	37.43	7.444		
8,400.0	8,377.1	8,485.0	8,465.7	15.8	28.4	-137.52	-455.8	15.8	274.5	236.8	37.72	7.277		
8,500.0	8,477.1	8,583.7	8,564.3	15.8	28.7	-138.08	-455.0	20.2	270.9	232.9	37.96	7.137		
8,600.0	8,577.1	8,682.5	8,663.0	15.9	29.0	-138.83	-454.9	25.0	267.7	229.6	38.11	7.024		
8,700.0	8,677.1	8,779.5	8,759.9	16.0	29.3	-139.54	-455.3	29.0	265.3	227.1	38.21	6.944		
8,800.0	8,777.1	8,877.5	8,857.8	16.0	29.6	-140.06	-455.9	31.7	263.9	225.6	38.32	6.888		
8,900.0	8,877.1	8,976.7	8,957.0	16.1	29.9	-140.42	-456.2	33.5	263.0	224.5	38.46	6.839		
9,000.0	8,977.1	9,075.0	9,055.3	16.1	30.0	-140.63	-456.5	34.6	262.5	224.0	38.56	6.808		
9,008.7	8,985.8	9,083.5	9,063.8	16.2	30.0	-140.64	-456.5	34.6	262.5	224.0	38.56	6.808 CC, ES		
9,100.0	9,077.1	9,171.8	9,152.1	16.2	30.0	-140.61	-456.7	34.2	263.0	224.5	38.54	6.823		
9,200.0	9,177.1	9,268.5	9,248.8	16.3	29.8	-140.51	-457.8	32.7	264.8	226.4	38.39	6.899		
9,300.0	9,277.1	9,368.0	9,348.2	16.3	29.7	-140.48	-459.7	31.0	267.4	229.2	38.21	6.999		
9,400.0	9,377.1	9,469.3	9,449.5	16.4	29.6	-140.83	-462.6	30.8	269.7	231.7	38.00	7.099		
9,500.0	9,477.1	9,570.7	9,550.8	16.5	29.7	-141.43	-465.7	31.8	271.5	233.7	37.80	7.183		
9,600.0	9,577.1	9,675.6	9,655.7	16.5	29.9	-142.01	-468.3	33.4	272.5	234.8	37.74	7.220		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

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Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ORE DIGGER PROJECT - MINIS 1 FEDERAL COM 3BS 5H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 195-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,700.0	9,677.1	9,780.9	9,761.1	16.6	30.1	-142.19	-467.6	35.0	271.1	233.1	37.99	7.137	
9,800.0	9,777.1	9,878.2	9,858.2	16.7	30.2	-141.96	-465.4	35.3	269.1	230.8	38.31	7.025	
9,900.0	9,877.1	9,975.9	9,956.0	16.7	30.1	-141.72	-464.2	34.8	268.5	229.9	38.54	6.966	
10,000.0	9,977.1	10,078.3	10,058.3	16.8	30.2	-141.61	-463.4	34.8	267.8	229.0	38.80	6.903	
10,100.0	10,077.1	10,183.2	10,163.3	16.9	30.4	-141.94	-462.6	37.4	265.7	226.6	39.08	6.798	
10,139.4	10,116.5	10,221.5	10,201.5	16.9	30.6	-142.14	-462.3	38.8	264.6	225.4	39.14	6.759	
10,150.0	10,127.1	10,231.7	10,211.7	16.9	30.6	-141.84	-462.2	39.1	264.4	225.2	39.15	6.752	
10,154.4	10,131.5	10,236.0	10,216.0	16.9	30.6	-141.88	-462.2	39.3	264.4	225.2	39.16	6.752 SF	
10,175.0	10,152.0	10,255.9	10,235.9	16.8	30.7	-142.08	-462.1	39.9	264.7	225.6	39.15	6.763	
10,200.0	10,176.9	10,280.0	10,260.0	16.8	30.7	-142.40	-462.0	40.6	266.2	227.1	39.09	6.811	
10,225.0	10,201.6	10,303.8	10,283.8	16.8	30.8	-142.78	-461.9	41.2	268.8	229.9	38.97	6.899	
10,250.0	10,226.1	10,327.3	10,307.3	16.7	30.9	-143.22	-461.9	41.8	272.6	233.8	38.80	7.025	
10,275.0	10,250.3	10,350.6	10,330.5	16.7	30.9	-143.70	-462.0	42.2	277.5	238.9	38.60	7.190	
10,300.0	10,274.1	10,373.0	10,352.9	16.6	31.0	-144.18	-462.1	42.6	283.6	245.3	38.36	7.394	
10,325.0	10,297.4	10,396.4	10,376.3	16.6	31.0	-144.73	-462.2	43.0	290.9	252.8	38.08	7.639	
10,350.0	10,320.3	10,418.8	10,398.8	16.5	31.1	-145.26	-462.4	43.3	299.3	261.6	37.78	7.922	
10,375.0	10,342.6	10,440.7	10,420.7	16.5	31.1	-145.76	-462.5	43.6	308.9	271.4	37.47	8.244	
10,400.0	10,364.3	10,462.0	10,441.9	16.4	31.2	-146.21	-462.7	43.9	319.6	282.5	37.15	8.604	
10,425.0	10,385.3	10,482.5	10,462.5	16.4	31.2	-146.60	-462.9	44.1	331.5	294.7	36.81	9.005	
10,450.0	10,405.6	10,502.3	10,482.2	16.3	31.2	-146.90	-463.0	44.3	344.5	308.0	36.47	9.444	
10,475.0	10,425.1	10,521.3	10,501.2	16.3	31.3	-147.10	-463.2	44.4	358.5	322.4	36.15	9.919	
10,500.0	10,443.8	10,539.4	10,519.4	16.2	31.3	-147.18	-463.4	44.5	373.7	337.8	35.84	10.427	
10,525.0	10,461.5	10,556.7	10,536.6	16.2	31.3	-147.12	-463.5	44.6	389.8	354.3	35.54	10.969	
10,550.0	10,478.3	10,572.7	10,552.6	16.2	31.3	-146.87	-463.7	44.6	406.9	371.7	35.25	11.545	
10,575.0	10,494.1	10,587.6	10,567.5	16.1	31.3	-146.42	-463.8	44.6	425.0	390.0	34.97	12.153	
10,600.0	10,508.9	10,601.5	10,581.4	16.1	31.3	-145.74	-464.0	44.6	444.0	409.3	34.72	12.787	
10,625.0	10,522.6	10,614.3	10,594.2	16.1	31.3	-144.79	-464.2	44.5	463.7	429.3	34.49	13.447	
10,650.0	10,535.2	10,626.0	10,605.9	16.1	31.3	-143.50	-464.3	44.4	484.3	450.0	34.27	14.130	
10,675.0	10,546.6	10,636.6	10,616.5	16.0	31.3	-141.82	-464.4	44.3	505.5	471.4	34.08	14.833	
10,700.0	10,556.9	10,646.0	10,625.9	16.0	31.3	-139.62	-464.6	44.2	527.4	493.5	33.90	15.555	
10,725.0	10,565.9	10,654.3	10,634.2	16.0	31.3	-136.78	-464.7	44.1	549.8	516.1	33.75	16.293	
10,750.0	10,573.8	10,657.0	10,636.9	16.0	31.3	-132.31	-464.7	44.1	572.7	539.1	33.61	17.039	
10,775.0	10,580.3	10,666.5	10,646.4	16.0	31.3	-128.21	-464.9	44.0	596.1	562.6	33.47	17.809	
10,800.0	10,585.6	10,670.8	10,650.7	16.0	31.2	-121.93	-465.0	43.9	619.8	586.4	33.35	18.581	
10,825.0	10,589.6	10,673.9	10,653.8	16.1	31.2	-113.87	-465.0	43.9	643.7	610.5	33.25	19.360	
10,850.0	10,592.3	10,675.9	10,655.8	16.1	31.2	-103.80	-465.1	43.8	667.9	634.7	33.16	20.142	
10,875.0	10,593.7	10,676.7	10,656.6	16.1	31.2	-91.88	-465.1	43.8	692.2	659.1	33.08	20.926	
10,894.9	10,593.9	10,676.5	10,656.4	16.1	31.2	-81.61	-465.1	43.8	711.5	678.5	33.02	21.549	
10,900.0	10,593.9	10,676.4	10,656.3	16.1	31.2	-81.56	-465.1	43.8	716.5	683.5	33.01	21.709	
11,000.0	10,592.7	10,673.8	10,653.8	16.3	31.2	-80.66	-465.0	43.9	814.3	781.5	32.79	24.836	
11,100.0	10,591.6	10,671.4	10,651.3	16.5	31.2	-79.79	-465.0	43.9	912.5	879.9	32.64	27.957	

ConocoPhillips

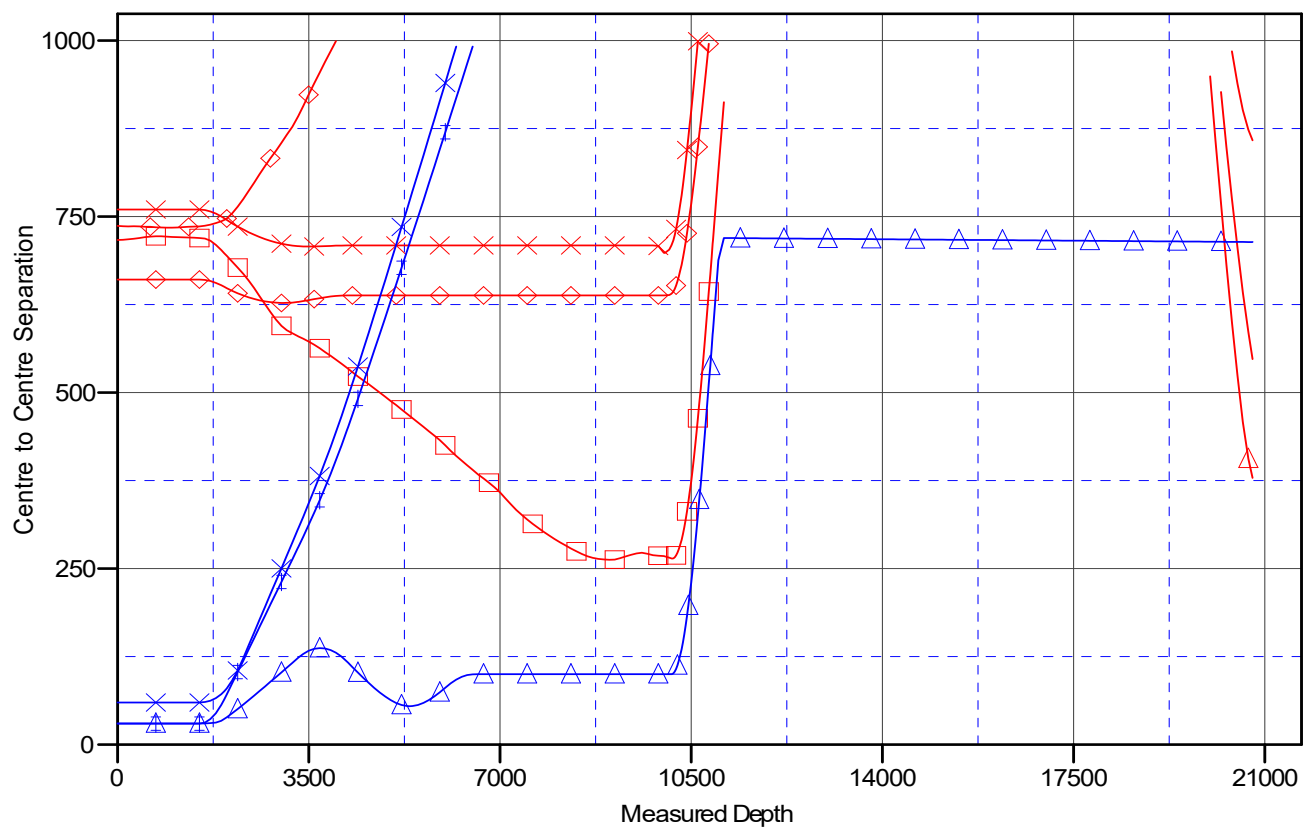
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3650.0usft (Original Well Ele
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.38°

Ladder Plot



LEGEND

SANDRA JEAN 23 FED COM502H, OWB, AWP V0	MINIS 1 FED HKY COM 9H, OWB, PLANNED SURVEY UNAVAILABLE V0	_ORE DIGGER FEDERAL 603H, OWB, PWP0 V0
SANDRA JEAN 23 FED COM651H, OWB, AWP V0	MINIS 1 FED HKY COM 8H, OWB, PLANNED V0	_ORE DIGGER FEDERAL 604H, OWB, PWP0 V0
SANDRA JEAN 23 FED COM602H, OWB, AWP V0	_ORE DIGGER FEDERAL 504H, OWB, PWP0 V0	
MINIS 1 FEDERAL COM 3BS 5H, OWB, AWP V0	MINIS 1 FEDERAL COM 3BS 4H, OWB, AWP V0	

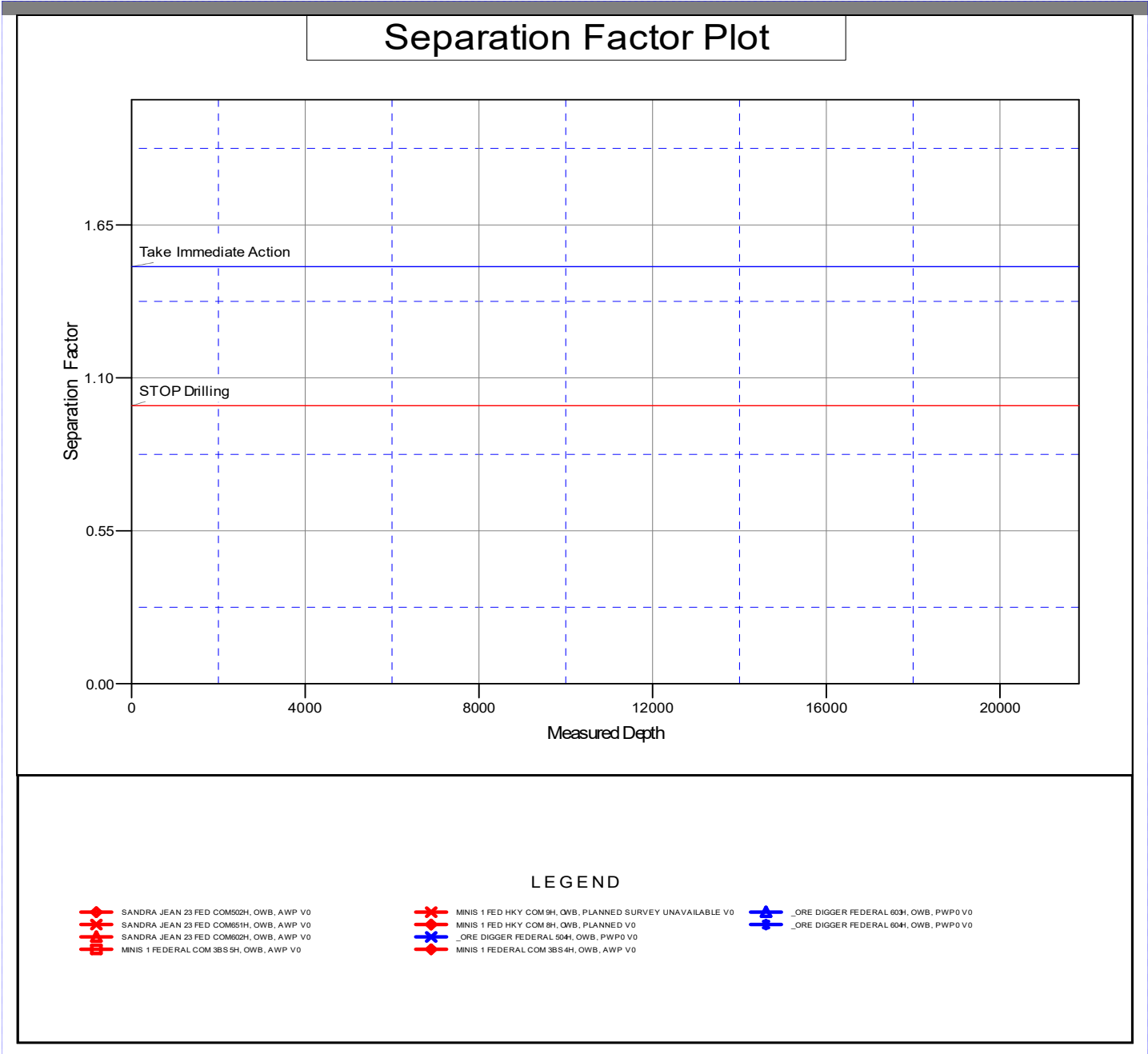
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Project:	ZEUS WEST__NM_E	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Reference Site:	ORE DIGGER PROJECT	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 3650.0usft (Original Well Ele
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.38°



DELAWARE BASIN WEST

ZEUS WEST__NM_E

ORE DIGGER PROJECT

**_ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL
503H**

OWB

Plan: PWP0

Standard Planning Report

18 July, 2024

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Company:	DELAWARE BASIN WEST	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Project:	ZEUS WEST__NM_E	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site:	ORE DIGGER PROJECT	North Reference:	Grid
Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	ZEUS WEST__NM_E		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	ORE DIGGER PROJECT		
Site Position:		Northing:	559,726.46 usft
From:	Map	Easting:	715,724.26 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 32' 12.654 N
		Longitude:	103° 38' 0.006 W

Well	_ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty		0.0 usft	Wellhead Elevation:
Grid Convergence:		0.38 °	
			Latitude:
			Longitude:
			Ground Level:

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	BGGM2022	10/11/2023	6.52	60.30	47,636.71532244

Design	PWP0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	0.00

Plan Survey Tool Program	Date	7/18/2024		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.0	20,777.3 PWP0 (OWB)	r.5 MWD+IFR1	
			OWSG MWD + IFR1 rev.5	

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Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Company:	DELAWARE BASIN WEST	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Project:	ZEUS WEST__NM_E	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site:	ORE DIGGER PROJECT	North Reference:	Grid
Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,956.4	9.13	141.58	1,954.4	-28.4	22.5	2.00	2.00	0.00	141.58	
3,310.2	9.13	141.58	3,291.1	-196.7	156.0	0.00	0.00	0.00	0.00	
4,222.9	0.00	0.00	4,200.0	-253.5	201.1	1.00	-1.00	0.00	180.00	
10,139.4	0.00	0.00	10,116.5	-253.5	201.1	0.00	0.00	0.00	0.00	
10,894.9	90.65	359.62	10,593.9	229.4	197.9	12.00	12.00	-0.05	359.62	
20,777.3	90.65	359.62	10,481.0	10,110.9	132.6	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Company:	DELAWARE BASIN WEST	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Project:	ZEUS WEST__NM_E	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site:	ORE DIGGER PROJECT	North Reference:	Grid
Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,600.0	2.00	141.58	1,600.0	-1.4	1.1	-1.4	2.00	2.00	0.00	
1,700.0	4.00	141.58	1,699.8	-5.5	4.3	-5.5	2.00	2.00	0.00	
1,800.0	6.00	141.58	1,799.5	-12.3	9.8	-12.3	2.00	2.00	0.00	
1,900.0	8.00	141.58	1,898.7	-21.8	17.3	-21.8	2.00	2.00	0.00	
1,956.4	9.13	141.58	1,954.4	-28.4	22.5	-28.4	2.00	2.00	0.00	
2,000.0	9.13	141.58	1,997.5	-33.8	26.8	-33.8	0.00	0.00	0.00	
2,100.0	9.13	141.58	2,096.3	-46.3	36.7	-46.3	0.00	0.00	0.00	
2,200.0	9.13	141.58	2,195.0	-58.7	46.6	-58.7	0.00	0.00	0.00	
2,300.0	9.13	141.58	2,293.7	-71.1	56.4	-71.1	0.00	0.00	0.00	
2,400.0	9.13	141.58	2,392.5	-83.6	66.3	-83.6	0.00	0.00	0.00	
2,500.0	9.13	141.58	2,491.2	-96.0	76.1	-96.0	0.00	0.00	0.00	
2,600.0	9.13	141.58	2,589.9	-108.4	86.0	-108.4	0.00	0.00	0.00	
2,700.0	9.13	141.58	2,688.7	-120.8	95.9	-120.8	0.00	0.00	0.00	
2,800.0	9.13	141.58	2,787.4	-133.3	105.7	-133.3	0.00	0.00	0.00	
2,900.0	9.13	141.58	2,886.1	-145.7	115.6	-145.7	0.00	0.00	0.00	
3,000.0	9.13	141.58	2,984.9	-158.1	125.4	-158.1	0.00	0.00	0.00	
3,100.0	9.13	141.58	3,083.6	-170.5	135.3	-170.5	0.00	0.00	0.00	
3,200.0	9.13	141.58	3,182.3	-183.0	145.1	-183.0	0.00	0.00	0.00	
3,300.0	9.13	141.58	3,281.1	-195.4	155.0	-195.4	0.00	0.00	0.00	
3,310.2	9.13	141.58	3,291.1	-196.7	156.0	-196.7	0.00	0.00	0.00	
3,400.0	8.23	141.58	3,379.9	-207.3	164.4	-207.3	1.00	-1.00	0.00	
3,500.0	7.23	141.58	3,479.0	-217.8	172.8	-217.8	1.00	-1.00	0.00	
3,600.0	6.23	141.58	3,578.3	-227.0	180.1	-227.0	1.00	-1.00	0.00	
3,700.0	5.23	141.58	3,677.8	-234.8	186.3	-234.8	1.00	-1.00	0.00	
3,800.0	4.23	141.58	3,777.5	-241.3	191.4	-241.3	1.00	-1.00	0.00	
3,900.0	3.23	141.58	3,877.2	-246.4	195.4	-246.4	1.00	-1.00	0.00	
4,000.0	2.23	141.58	3,977.1	-250.1	198.4	-250.1	1.00	-1.00	0.00	
4,100.0	1.23	141.58	4,077.1	-252.5	200.3	-252.5	1.00	-1.00	0.00	
4,200.0	0.23	141.58	4,177.1	-253.5	201.1	-253.5	1.00	-1.00	0.00	
4,222.9	0.00	0.00	4,200.0	-253.5	201.1	-253.5	1.00	-1.00	0.00	
4,300.0	0.00	0.00	4,277.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
4,400.0	0.00	0.00	4,377.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,477.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,577.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,677.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,777.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,877.1	-253.5	201.1	-253.5	0.00	0.00	0.00	

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Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Company:	DELAWARE BASIN WEST	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Project:	ZEUS WEST__NM_E	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site:	ORE DIGGER PROJECT	North Reference:	Grid
Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,000.0	0.00	0.00	4,977.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
5,100.0	0.00	0.00	5,077.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,177.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,277.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,377.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,477.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,577.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,677.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,777.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,877.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,977.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,077.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,177.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,277.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,377.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,477.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,577.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,677.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,777.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,877.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,977.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,077.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,177.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,277.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,377.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,477.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,577.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,677.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,777.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,877.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,977.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,077.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,177.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,277.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,377.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,477.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,577.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,677.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,777.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,877.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,977.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,077.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,177.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,277.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,377.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,477.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,577.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,677.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,777.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,877.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,977.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,077.1	-253.5	201.1	-253.5	0.00	0.00	0.00	
10,139.4	0.00	0.00	10,116.5	-253.5	201.1	-253.5	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Company:	DELAWARE BASIN WEST	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Project:	ZEUS WEST__NM_E	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site:	ORE DIGGER PROJECT	North Reference:	Grid
Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,150.0	1.27	359.62	10,127.1	-253.4	201.1	-253.4	12.00	12.00	0.00	
10,175.0	4.27	359.62	10,152.0	-252.2	201.1	-252.2	12.00	12.00	0.00	
10,200.0	7.27	359.62	10,176.9	-249.7	201.1	-249.7	12.00	12.00	0.00	
10,225.0	10.27	359.62	10,201.6	-245.9	201.0	-245.9	12.00	12.00	0.00	
10,250.0	13.27	359.62	10,226.1	-240.8	201.0	-240.8	12.00	12.00	0.00	
10,275.0	16.27	359.62	10,250.3	-234.4	201.0	-234.4	12.00	12.00	0.00	
10,300.0	19.27	359.62	10,274.1	-226.8	200.9	-226.8	12.00	12.00	0.00	
10,325.0	22.27	359.62	10,297.4	-217.9	200.9	-217.9	12.00	12.00	0.00	
10,350.0	25.27	359.62	10,320.3	-207.8	200.8	-207.8	12.00	12.00	0.00	
10,375.0	28.27	359.62	10,342.6	-196.6	200.7	-196.6	12.00	12.00	0.00	
10,400.0	31.27	359.62	10,364.3	-184.1	200.6	-184.1	12.00	12.00	0.00	
10,425.0	34.27	359.62	10,385.3	-170.6	200.6	-170.6	12.00	12.00	0.00	
10,450.0	37.27	359.62	10,405.6	-156.0	200.5	-156.0	12.00	12.00	0.00	
10,475.0	40.27	359.62	10,425.1	-140.4	200.4	-140.4	12.00	12.00	0.00	
10,500.0	43.27	359.62	10,443.8	-123.7	200.2	-123.7	12.00	12.00	0.00	
10,525.0	46.27	359.62	10,461.5	-106.1	200.1	-106.1	12.00	12.00	0.00	
10,550.0	49.27	359.62	10,478.3	-87.6	200.0	-87.6	12.00	12.00	0.00	
10,575.0	52.27	359.62	10,494.1	-68.2	199.9	-68.2	12.00	12.00	0.00	
10,600.0	55.27	359.62	10,508.9	-48.1	199.7	-48.1	12.00	12.00	0.00	
10,625.0	58.27	359.62	10,522.6	-27.2	199.6	-27.2	12.00	12.00	0.00	
10,650.0	61.27	359.62	10,535.2	-5.6	199.5	-5.6	12.00	12.00	0.00	
10,675.0	64.27	359.62	10,546.6	16.7	199.3	16.7	12.00	12.00	0.00	
10,700.0	67.27	359.62	10,556.9	39.5	199.2	39.5	12.00	12.00	0.00	
10,725.0	70.27	359.62	10,565.9	62.8	199.0	62.8	12.00	12.00	0.00	
10,750.0	73.27	359.62	10,573.8	86.5	198.9	86.5	12.00	12.00	0.00	
10,775.0	76.27	359.62	10,580.3	110.6	198.7	110.6	12.00	12.00	0.00	
10,800.0	79.27	359.62	10,585.6	135.1	198.5	135.1	12.00	12.00	0.00	
10,825.0	82.27	359.62	10,589.6	159.7	198.4	159.7	12.00	12.00	0.00	
10,850.0	85.27	359.62	10,592.3	184.6	198.2	184.6	12.00	12.00	0.00	
10,875.0	88.27	359.62	10,593.7	209.5	198.0	209.5	12.00	12.00	0.00	
10,894.9	90.65	359.62	10,593.9	229.4	197.9	229.4	12.00	12.00	0.00	
10,900.0	90.65	359.62	10,593.9	234.5	197.9	234.5	0.00	0.00	0.00	
11,000.0	90.65	359.62	10,592.7	334.5	197.2	334.5	0.00	0.00	0.00	
11,100.0	90.65	359.62	10,591.6	434.5	196.5	434.5	0.00	0.00	0.00	
11,200.0	90.65	359.62	10,590.4	534.5	195.9	534.5	0.00	0.00	0.00	
11,300.0	90.65	359.62	10,589.3	634.5	195.2	634.5	0.00	0.00	0.00	
11,400.0	90.65	359.62	10,588.2	734.5	194.6	734.5	0.00	0.00	0.00	
11,500.0	90.65	359.62	10,587.0	834.5	193.9	834.5	0.00	0.00	0.00	
11,600.0	90.65	359.62	10,585.9	934.5	193.2	934.5	0.00	0.00	0.00	
11,700.0	90.65	359.62	10,584.7	1,034.5	192.6	1,034.5	0.00	0.00	0.00	
11,800.0	90.65	359.62	10,583.6	1,134.4	191.9	1,134.4	0.00	0.00	0.00	
11,900.0	90.65	359.62	10,582.4	1,234.4	191.3	1,234.4	0.00	0.00	0.00	
12,000.0	90.65	359.62	10,581.3	1,334.4	190.6	1,334.4	0.00	0.00	0.00	
12,100.0	90.65	359.62	10,580.2	1,434.4	189.9	1,434.4	0.00	0.00	0.00	
12,200.0	90.65	359.62	10,579.0	1,534.4	189.3	1,534.4	0.00	0.00	0.00	
12,300.0	90.65	359.62	10,577.9	1,634.4	188.6	1,634.4	0.00	0.00	0.00	
12,400.0	90.65	359.62	10,576.7	1,734.4	188.0	1,734.4	0.00	0.00	0.00	
12,500.0	90.65	359.62	10,575.6	1,834.4	187.3	1,834.4	0.00	0.00	0.00	
12,600.0	90.65	359.62	10,574.4	1,934.4	186.6	1,934.4	0.00	0.00	0.00	
12,700.0	90.65	359.62	10,573.3	2,034.4	186.0	2,034.4	0.00	0.00	0.00	
12,800.0	90.65	359.62	10,572.2	2,134.4	185.3	2,134.4	0.00	0.00	0.00	
12,900.0	90.65	359.62	10,571.0	2,234.4	184.6	2,234.4	0.00	0.00	0.00	
13,000.0	90.65	359.62	10,569.9	2,334.3	184.0	2,334.3	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Company:	DELAWARE BASIN WEST	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Project:	ZEUS WEST__NM_E	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site:	ORE DIGGER PROJECT	North Reference:	Grid
Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,100.0	90.65	359.62	10,568.7	2,434.3	183.3	2,434.3	0.00	0.00	0.00	
13,200.0	90.65	359.62	10,567.6	2,534.3	182.7	2,534.3	0.00	0.00	0.00	
13,300.0	90.65	359.62	10,566.4	2,634.3	182.0	2,634.3	0.00	0.00	0.00	
13,400.0	90.65	359.62	10,565.3	2,734.3	181.3	2,734.3	0.00	0.00	0.00	
13,500.0	90.65	359.62	10,564.2	2,834.3	180.7	2,834.3	0.00	0.00	0.00	
13,600.0	90.65	359.62	10,563.0	2,934.3	180.0	2,934.3	0.00	0.00	0.00	
13,700.0	90.65	359.62	10,561.9	3,034.3	179.4	3,034.3	0.00	0.00	0.00	
13,800.0	90.65	359.62	10,560.7	3,134.3	178.7	3,134.3	0.00	0.00	0.00	
13,900.0	90.65	359.62	10,559.6	3,234.3	178.0	3,234.3	0.00	0.00	0.00	
14,000.0	90.65	359.62	10,558.4	3,334.3	177.4	3,334.3	0.00	0.00	0.00	
14,100.0	90.65	359.62	10,557.3	3,434.2	176.7	3,434.2	0.00	0.00	0.00	
14,200.0	90.65	359.62	10,556.2	3,534.2	176.1	3,534.2	0.00	0.00	0.00	
14,300.0	90.65	359.62	10,555.0	3,634.2	175.4	3,634.2	0.00	0.00	0.00	
14,400.0	90.65	359.62	10,553.9	3,734.2	174.7	3,734.2	0.00	0.00	0.00	
14,500.0	90.65	359.62	10,552.7	3,834.2	174.1	3,834.2	0.00	0.00	0.00	
14,600.0	90.65	359.62	10,551.6	3,934.2	173.4	3,934.2	0.00	0.00	0.00	
14,700.0	90.65	359.62	10,550.4	4,034.2	172.7	4,034.2	0.00	0.00	0.00	
14,800.0	90.65	359.62	10,549.3	4,134.2	172.1	4,134.2	0.00	0.00	0.00	
14,900.0	90.65	359.62	10,548.2	4,234.2	171.4	4,234.2	0.00	0.00	0.00	
15,000.0	90.65	359.62	10,547.0	4,334.2	170.8	4,334.2	0.00	0.00	0.00	
15,100.0	90.65	359.62	10,545.9	4,434.2	170.1	4,434.2	0.00	0.00	0.00	
15,200.0	90.65	359.62	10,544.7	4,534.2	169.4	4,534.2	0.00	0.00	0.00	
15,300.0	90.65	359.62	10,543.6	4,634.1	168.8	4,634.1	0.00	0.00	0.00	
15,400.0	90.65	359.62	10,542.5	4,734.1	168.1	4,734.1	0.00	0.00	0.00	
15,500.0	90.65	359.62	10,541.3	4,834.1	167.5	4,834.1	0.00	0.00	0.00	
15,600.0	90.65	359.62	10,540.2	4,934.1	166.8	4,934.1	0.00	0.00	0.00	
15,700.0	90.65	359.62	10,539.0	5,034.1	166.1	5,034.1	0.00	0.00	0.00	
15,800.0	90.65	359.62	10,537.9	5,134.1	165.5	5,134.1	0.00	0.00	0.00	
15,900.0	90.65	359.62	10,536.7	5,234.1	164.8	5,234.1	0.00	0.00	0.00	
16,000.0	90.65	359.62	10,535.6	5,334.1	164.1	5,334.1	0.00	0.00	0.00	
16,100.0	90.65	359.62	10,534.5	5,434.1	163.5	5,434.1	0.00	0.00	0.00	
16,200.0	90.65	359.62	10,533.3	5,534.1	162.8	5,534.1	0.00	0.00	0.00	
16,300.0	90.65	359.62	10,532.2	5,634.1	162.2	5,634.1	0.00	0.00	0.00	
16,400.0	90.65	359.62	10,531.0	5,734.0	161.5	5,734.0	0.00	0.00	0.00	
16,500.0	90.65	359.62	10,529.9	5,834.0	160.8	5,834.0	0.00	0.00	0.00	
16,600.0	90.65	359.62	10,528.7	5,934.0	160.2	5,934.0	0.00	0.00	0.00	
16,700.0	90.65	359.62	10,527.6	6,034.0	159.5	6,034.0	0.00	0.00	0.00	
16,800.0	90.65	359.62	10,526.5	6,134.0	158.9	6,134.0	0.00	0.00	0.00	
16,900.0	90.65	359.62	10,525.3	6,234.0	158.2	6,234.0	0.00	0.00	0.00	
17,000.0	90.65	359.62	10,524.2	6,334.0	157.5	6,334.0	0.00	0.00	0.00	
17,100.0	90.65	359.62	10,523.0	6,434.0	156.9	6,434.0	0.00	0.00	0.00	
17,200.0	90.65	359.62	10,521.9	6,534.0	156.2	6,534.0	0.00	0.00	0.00	
17,300.0	90.65	359.62	10,520.7	6,634.0	155.6	6,634.0	0.00	0.00	0.00	
17,400.0	90.65	359.62	10,519.6	6,734.0	154.9	6,734.0	0.00	0.00	0.00	
17,500.0	90.65	359.62	10,518.5	6,834.0	154.2	6,834.0	0.00	0.00	0.00	
17,600.0	90.65	359.62	10,517.3	6,933.9	153.6	6,933.9	0.00	0.00	0.00	
17,700.0	90.65	359.62	10,516.2	7,033.9	152.9	7,033.9	0.00	0.00	0.00	
17,800.0	90.65	359.62	10,515.0	7,133.9	152.2	7,133.9	0.00	0.00	0.00	
17,900.0	90.65	359.62	10,513.9	7,233.9	151.6	7,233.9	0.00	0.00	0.00	
18,000.0	90.65	359.62	10,512.7	7,333.9	150.9	7,333.9	0.00	0.00	0.00	
18,100.0	90.65	359.62	10,511.6	7,433.9	150.3	7,433.9	0.00	0.00	0.00	
18,200.0	90.65	359.62	10,510.5	7,533.9	149.6	7,533.9	0.00	0.00	0.00	
18,300.0	90.65	359.62	10,509.3	7,633.9	148.9	7,633.9	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ORE DIGGER FEDERAL 503H - Slot ORE DIGGER FEDERAL 503H
Company:	DELAWARE BASIN WEST	TVD Reference:	WELL @ 3650.0usft (Original Well Elev)
Project:	ZEUS WEST__NM_E	MD Reference:	WELL @ 3650.0usft (Original Well Elev)
Site:	ORE DIGGER PROJECT	North Reference:	Grid
Well:	_ORE DIGGER FEDERAL 503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
18,400.0	90.65	359.62	10,508.2	7,733.9	148.3	7,733.9	0.00	0.00	0.00	
18,500.0	90.65	359.62	10,507.0	7,833.9	147.6	7,833.9	0.00	0.00	0.00	
18,600.0	90.65	359.62	10,505.9	7,933.9	147.0	7,933.9	0.00	0.00	0.00	
18,700.0	90.65	359.62	10,504.7	8,033.8	146.3	8,033.8	0.00	0.00	0.00	
18,800.0	90.65	359.62	10,503.6	8,133.8	145.6	8,133.8	0.00	0.00	0.00	
18,900.0	90.65	359.62	10,502.5	8,233.8	145.0	8,233.8	0.00	0.00	0.00	
19,000.0	90.65	359.62	10,501.3	8,333.8	144.3	8,333.8	0.00	0.00	0.00	
19,100.0	90.65	359.62	10,500.2	8,433.8	143.6	8,433.8	0.00	0.00	0.00	
19,200.0	90.65	359.62	10,499.0	8,533.8	143.0	8,533.8	0.00	0.00	0.00	
19,300.0	90.65	359.62	10,497.9	8,633.8	142.3	8,633.8	0.00	0.00	0.00	
19,400.0	90.65	359.62	10,496.7	8,733.8	141.7	8,733.8	0.00	0.00	0.00	
19,500.0	90.65	359.62	10,495.6	8,833.8	141.0	8,833.8	0.00	0.00	0.00	
19,600.0	90.65	359.62	10,494.5	8,933.8	140.3	8,933.8	0.00	0.00	0.00	
19,700.0	90.65	359.62	10,493.3	9,033.8	139.7	9,033.8	0.00	0.00	0.00	
19,800.0	90.65	359.62	10,492.2	9,133.8	139.0	9,133.8	0.00	0.00	0.00	
19,900.0	90.65	359.62	10,491.0	9,233.7	138.4	9,233.7	0.00	0.00	0.00	
20,000.0	90.65	359.62	10,489.9	9,333.7	137.7	9,333.7	0.00	0.00	0.00	
20,100.0	90.65	359.62	10,488.7	9,433.7	137.0	9,433.7	0.00	0.00	0.00	
20,200.0	90.65	359.62	10,487.6	9,533.7	136.4	9,533.7	0.00	0.00	0.00	
20,300.0	90.65	359.62	10,486.5	9,633.7	135.7	9,633.7	0.00	0.00	0.00	
20,400.0	90.65	359.62	10,485.3	9,733.7	135.1	9,733.7	0.00	0.00	0.00	
20,500.0	90.65	359.62	10,484.2	9,833.7	134.4	9,833.7	0.00	0.00	0.00	
20,600.0	90.65	359.62	10,483.0	9,933.7	133.7	9,933.7	0.00	0.00	0.00	
20,700.0	90.65	359.62	10,481.9	10,033.7	133.1	10,033.7	0.00	0.00	0.00	
20,777.3	90.65	359.62	10,481.0	10,110.9	132.6	10,110.9	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
PBHL_ORE DIGGER FE - hit/miss target - Shape	0.00	179.63	10,481.0	10,110.9	132.6	564,925.49	716,664.16	32° 33' 4.038 N	103° 37' 48.626 W	
- plan hits target center - Rectangle (sides W100.0 H10,414.5 D20.0)										
LTP (ORE DIGGER FE - plan misses target center by 27.3usft at 20700.0usft MD (10481.9 TVD, 10033.7 N, 133.1 E) - Circle (radius 50.0)	90.00	0.00	10,481.0	10,060.9	132.9	564,875.49	716,664.49	32° 33' 3.543 N	103° 37' 48.626 W	
FTP (ORE DIGGER FE - plan misses target center by 234.0usft at 10492.3usft MD (10438.1 TVD, -128.9 N, 200.3 E) - Circle (radius 50.0)	0.00	0.00	10,594.0	-303.5	201.1	554,511.05	716,732.71	32° 31' 20.981 N	103° 37' 48.628 W	

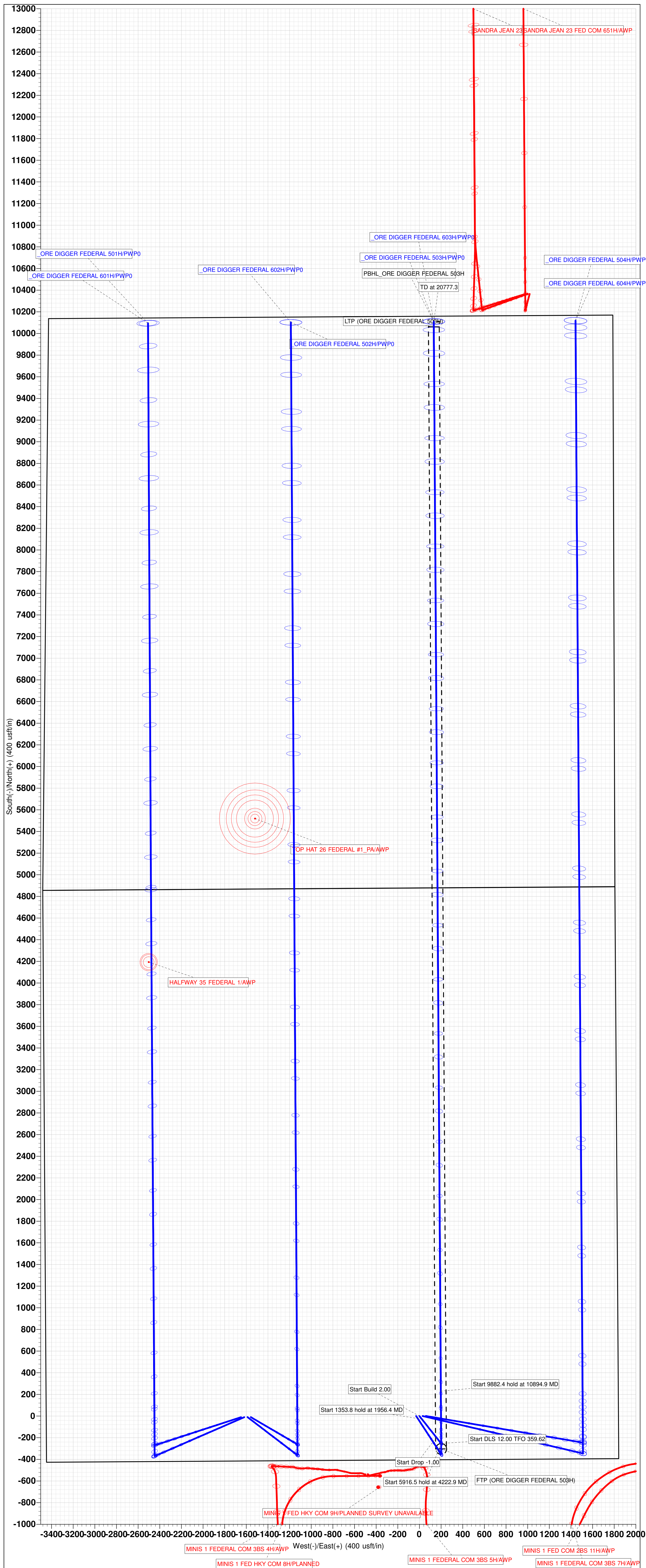
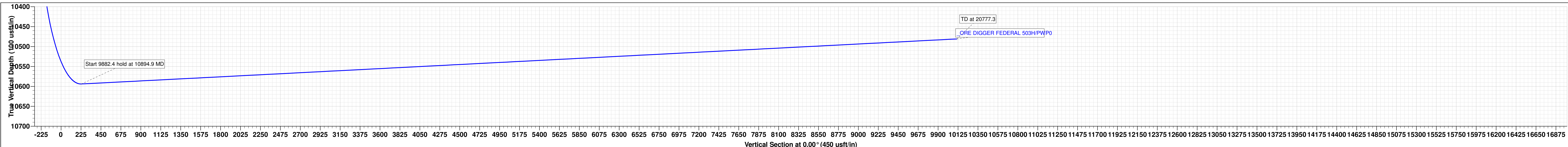
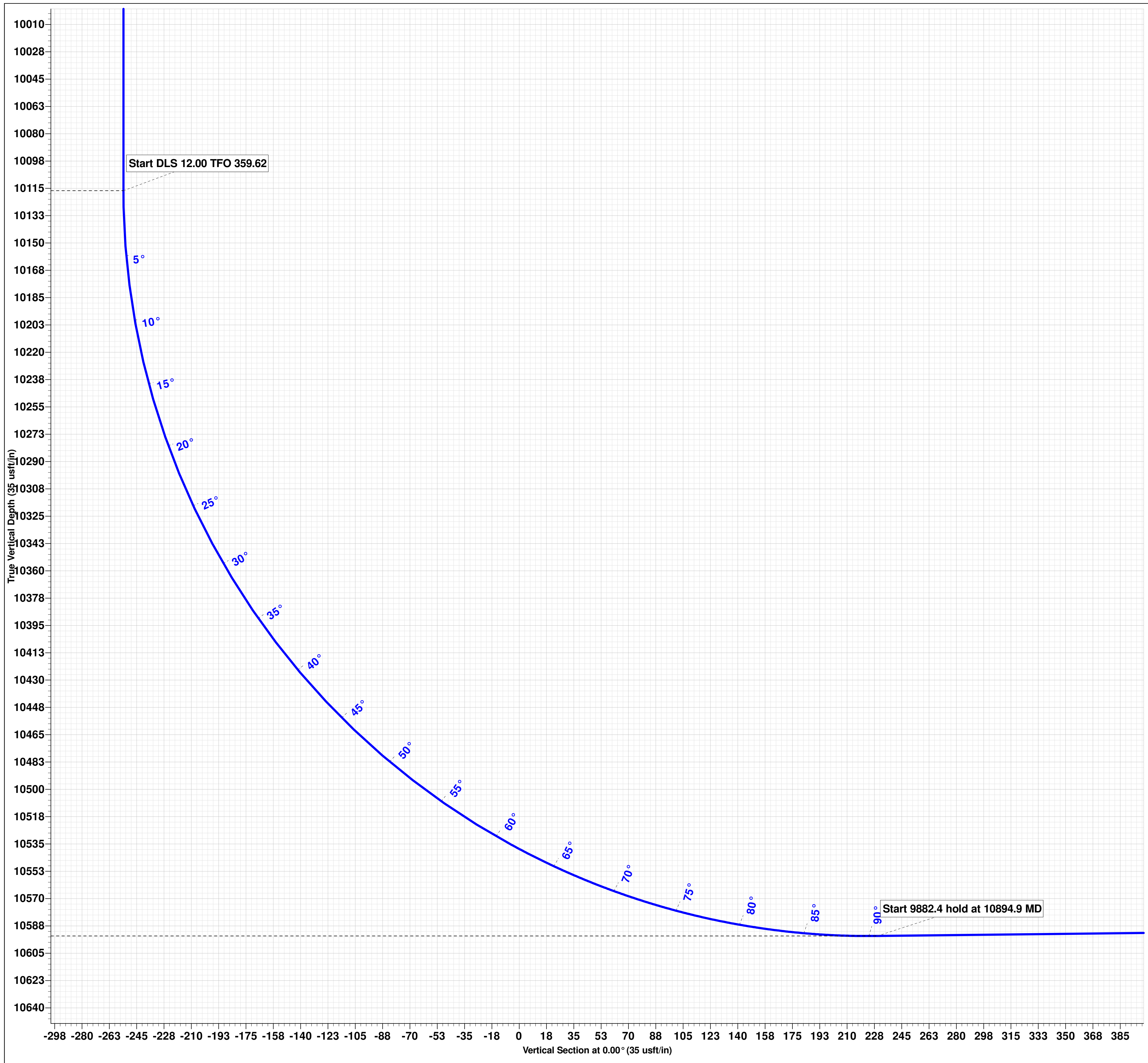
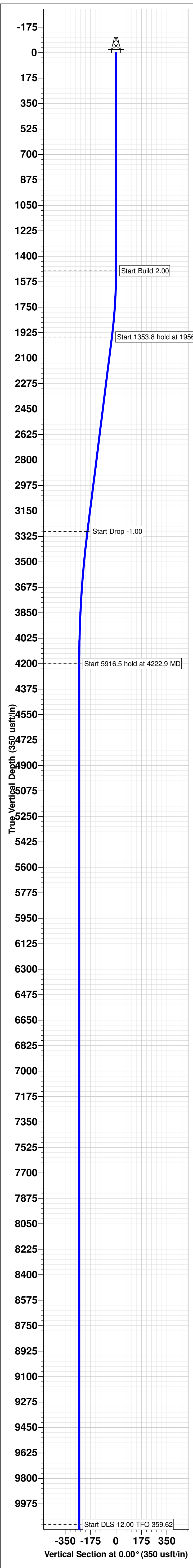
Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
20,777.3	10,481.0	5-1/2" Production Casing		5-1/2	6-3/4



Project: ZEUS WEST_NM_E
Site: ORE DIGGER PROJECT
Well: ORE DIGGER FEDERAL 503H
Wellbore: OWB
Design: PWP0

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0
1956.4	9.13	141.58	1954.4	-28.4	22.5	2.00	141.58	-28.4
3310.2	9.13	141.58	3291.1	-196.7	156.0	0.00	0.00	-196.7
4222.9	0.00	0.00	4200.0	-253.5	201.1	1.00	180.00	-253.5
10139.4	0.00	0.00	10116.5	-253.5	201.1	0.00	0.00	-253.5
10894.9	90.65	359.62	10593.9	229.4	197.9	12.00	359.62	229.4
20777.3	90.65	359.62	10481.0	10110.9	132.6	0.00	0.00	10110.9



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG OPERATING LLC
WELL NAME & NO.:	ORE DIGGER FED 503H
LOCATION:	Section 35, T.20 S., R.33 E., NMP
COUNTY:	Lea County, New Mexico

COA

H₂S	☐ No	☒ Yes	
Potash / WIPP	☐ None	☐ Secretary	☒ R-111-Q ☐ Open Annulus
	4-String Design: Open 2nd Int x Production Casing (ICP 2 above Relief Zone)		☐ WIPP
Cave / Karst	☒ Low	☐ Medium	☐ High ☐ Critical
Wellhead	☐ Conventional	☒ Multibowl	☐ Both ☐ Diverter
Cementing	☐ Primary Squeeze	☒ Cont. Squeeze	☒ EchoMeter ☐ DV Tool
Special Req	☒ Capitan Reef	☐ Water Disposal	☐ COM ☐ Unit
Waste Prev.	☐ Self-Certification	☒ Waste Min. Plan	☐ APD Submitted prior to 06/10/2024
Additional Language	☒ Flex Hose	☒ Casing Clearance	☐ Pilot Hole ☒ Break Testing
	☒ Four-String	☒ Offline Cementing	☐ Fluid-Filled

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

APD is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the updated order.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **1730 feet** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **10-3/4 inch** intermediate 1 casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**
3. Intermediate 2 should be set prior to entering Delaware group to facilitate monitoring during hydraulic fracturing, and post-frac bradenhead cementing. The **8-5/8 inch** intermediate 2 casing shall be set at approximately **5500 feet per BLM Geologist**. The minimum required fill of cement behind the **8-5/8 inch** intermediate 2 casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**
4. The minimum required fill of cement behind the **5-1/2 inch** production casing is:
 - Cement should tie-back **500 feet** into the previous casing but not higher than USGS Marker Bed No. 126. **Operator must verify top of cement per R-111-Q requirements.** Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**
 - **Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**

(Primary + Post Frac Bradenhead):

- **A monitored open annulus will be incorporated during completion by leaving the Intermediate 2 x Production annulus un-cemented and monitored inside the Intermediate String.** Operator must follow monitoring requirements listed within R-111-Q. Tieback requirements shall be met within **180 days**.

Operator has proposed to pump down **intermediate 2 x Production** annulus post completion. **Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the intermediate 2/Production casing to surface after the second stage BH to verify TOC.** Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry during

second stage bradenhead when running Echo-meter if cement is required to surface. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Operator has proposed an open annulus completion in R-111-Q. Operator shall provide a method of verification pre-completion top of cement. **Submit results to the BLM. Pressure monitoring device and Pressure Safety Valves must be installed at surface on both the intermediate annulus and the production annulus for the life of the well.**

In the event of a casing failure during completion, the operator must contact the BLM at (575-706-2779) and (575-361-2822 Eddy County).

- After bradenhead mentioned above Cement should tie-back **500 feet or 50 feet on top of the Capitan Reef, whichever is closer to surface** into the previous casing but not higher than USGS Marker Bed No. 126. **Operator must verify top of cement per R-111-Q requirements.** Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **20 inch** surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Casing Clearance

- **The W441 connection should tie back 500'+ into the W513 intermediate casing for clearance overlap.**

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure.

GENERAL REQUIREMENTS

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

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

Contact Petroleum Engineering Inspection Staff:

☒ Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
BLM_NM_CFO_DrillingNotifications@BLM.GOV
(575) 361-2822

☒ Lea County

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

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

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be

recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

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

B. PRESSURE CONTROL

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

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an

independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

JS 9/23/2025

Sante Fe Main Office
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General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 509040

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 509040
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	All previous COA's still apply.	10/16/2025