

Form 3160-3
(October 2024)FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

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

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

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

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

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

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

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 09/22/2025

Additional Operator Remarks

Location of Well

0. SHL: NENW / 200 FNL / 2390 FWL / TWSP: 25S / RANGE: 33E / SECTION: 35 / LAT: 32.093709 / LONG: -103.543939 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 100 FNL / 330 FWL / TWSP: 25S / RANGE: 33E / SECTION: 35 / LAT: 32.093998 / LONG: -103.550591 (TVD: 10687 feet, MD: 10986 feet)

PPP: SWNW / 1321 FNL / 330 FWL / TWSP: 25S / RANGE: 33E / SECTION: 35 / LAT: 32.090638 / LONG: -103.55059 (TVD: 10820 feet, MD: 13526 feet)

BHL: NWNW / 2590 FNL / 330 FWL / TWSP: 26S / RANGE: 33E / SECTION: 2 / LAT: 32.072622 / LONG: -103.550589 (TVD: 10820 feet, MD: 18642 feet)

BLM Point of Contact

Name: JANET D ESTES

Title: ADJUDICATOR

Phone: (575) 234-6233

Email: JESTES@BLM.GOV

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July 9, 2024	
			Submittal Type:	☒ Initial Submittal
				☐ Amended Report
		☐ As Drilled		

WELL LOCATION INFORMATION

API Number 30-025- 55512	Pool Code 97741	Pool Name WC-025 G-09 S253335K; Lower Bone Spring
Property Code 325776 327008	Property Name VALOR FEDERAL COM	Well Number 501H
OGRID No. 229137	Operator Name COG OPERATING LLC	Ground Level Elevation 3323.2'
Surface Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☒ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	35	25-S	33-E		200 FNL	2390 FWL	32.093709°N	103.543939°W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
E	2	26-S	33-E		2590 FNL	330 FWL	32.072622°N	103.550589°W	LEA

Dedicated Acres 960	Infill or Defining Well Infill	Defining Well API Pending 502H	Overlapping Spacing Unit (Y/N)	Consolidation Code Com
Order Numbers.			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	35	25-S	33-E		200 FNL	2390 FWL	32.093709°N	103.543939°W	LEA

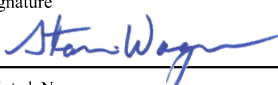
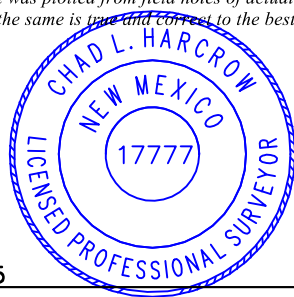
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	35	25-S	33-E		100 FNL	330 FWL	32.093998°N	103.550591°W	LEA

Last Take Point (LTP)

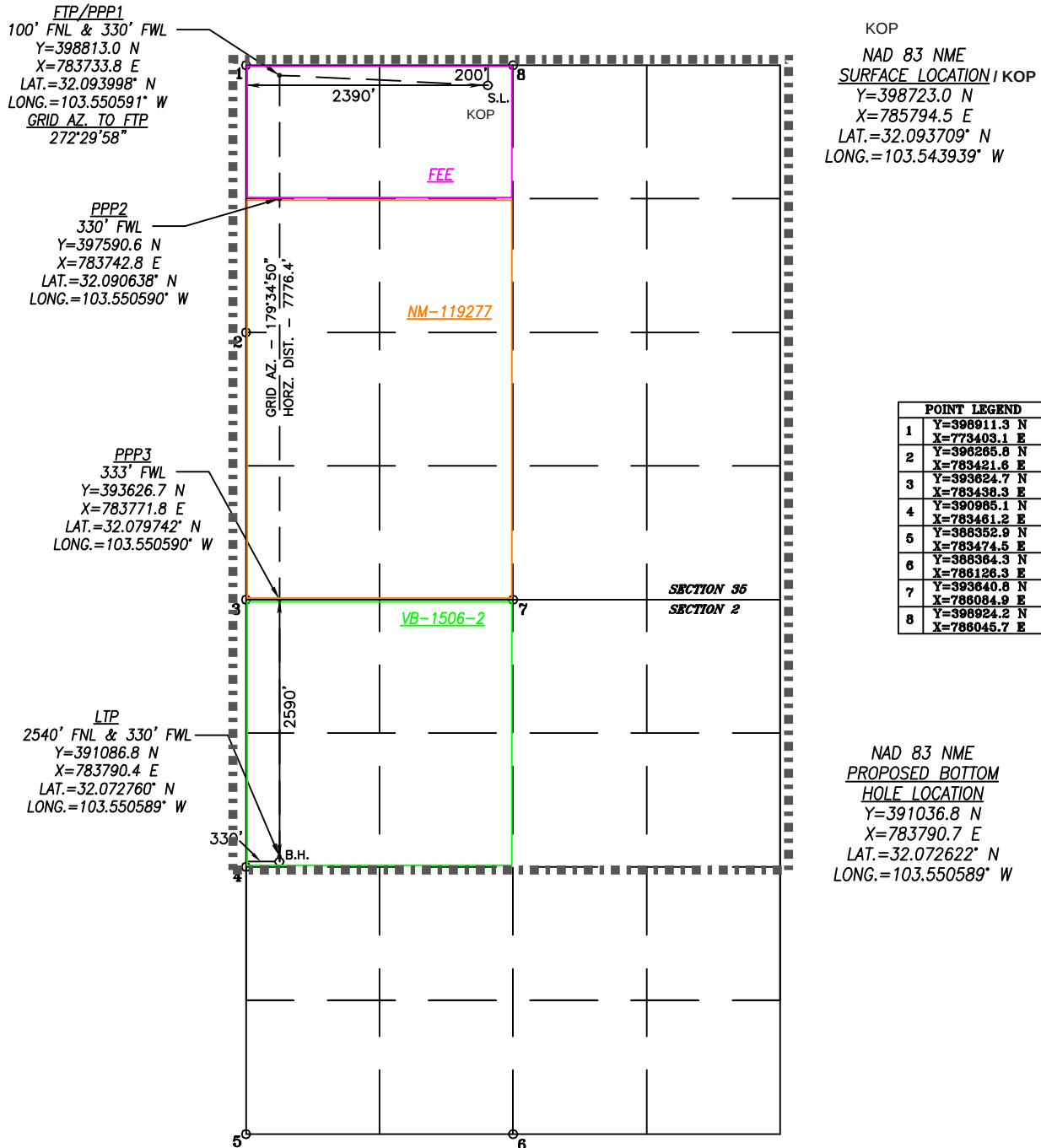
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
E	2	26-S	33-E		2540 FNL	330 FWL	32.072760°N	103.550589°W	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3323.2'
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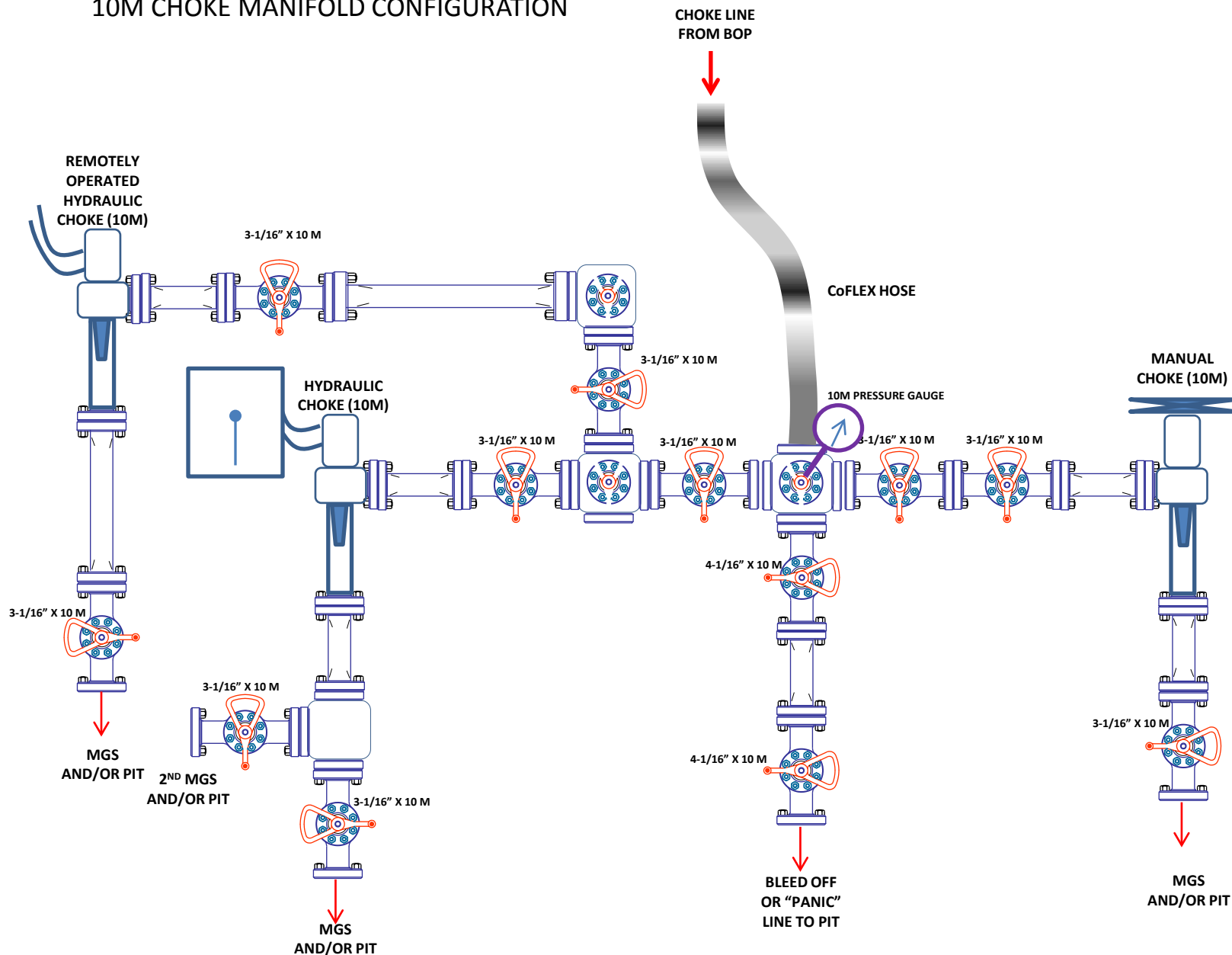
OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i>		SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>	
Signature 	Date 6-18-25	Signature and Seal of Professional Surveyor  Chad Harcrow 6/1/25	
Printed Name Stan Wagner	Certificate Number 17777	Date of Survey MAY 24, 2025	
Email Address		W.O.#25-520	DRAWN BY: WN PAGE 1 OF 2

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

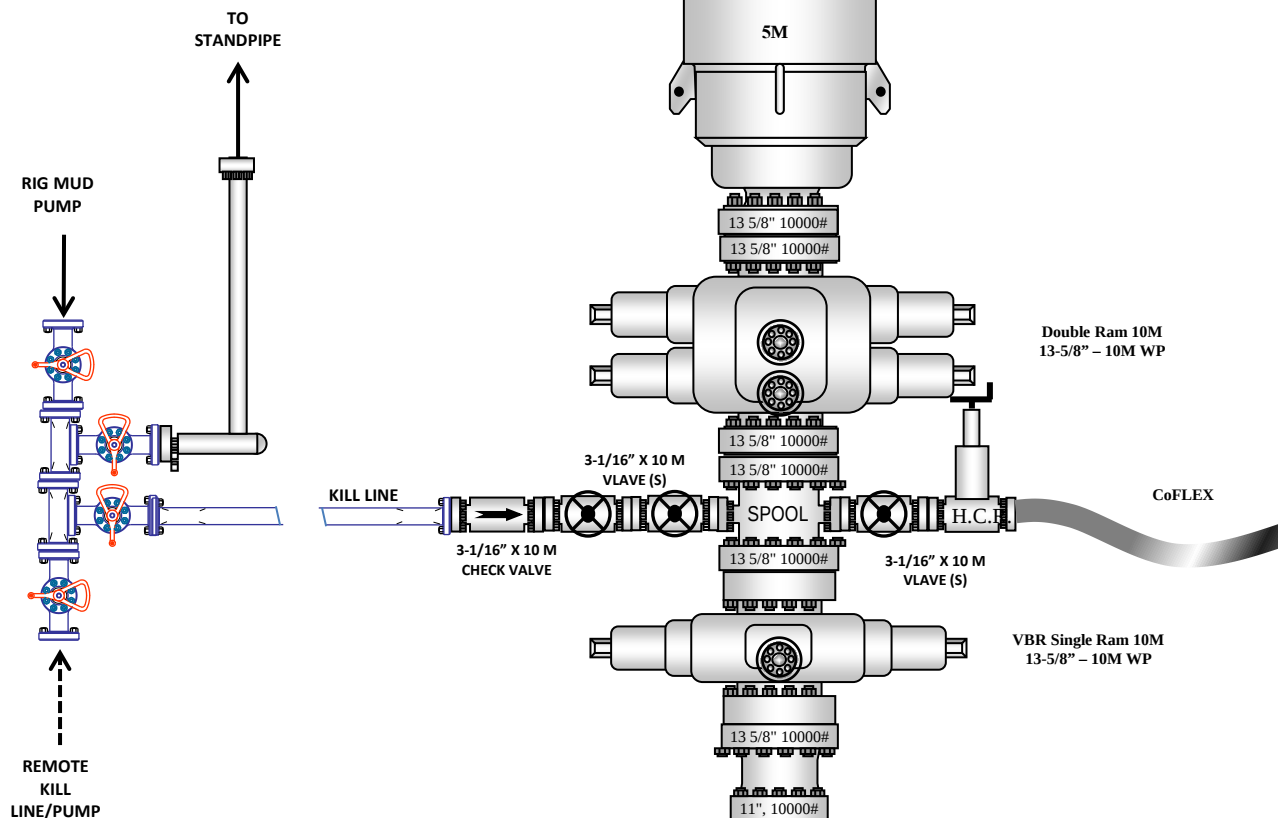
Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



10M CHOKE MANIFOLD CONFIGURATION



10M REMOTE KILL SCHEMATIC



ConocoPhillips Company - Valor Federal Com 501H

1. Geologic Formations

TVD of target	10,820' EOL	Pilot hole depth	NA
MD at TD:	18,643'	Deepest expected fresh water:	207'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	731	Water	
Top of Salt	1107	Salt	
Base of Salt	4785	Salt	
Lamar	4925	Salt Water	
Bell Canyon	5065	Salt Water	
Cherry Canyon	6113	Oil/Gas	
Brushy Canyon	7756	Oil/Gas	
Bone Spring	9164	Oil/Gas	
1st Bone Spring Sand	10171	Oil/Gas	
1st Bone Spring Shale	10358	Oil/Gas	
2nd Bone Spring Sand	10753	Target	
3rd Bone Spring Carbonate	11254	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	960	13.375"	54.5	J55	BTC	2.57	1.31	17.37
12.25"	0	4945	9.625"	40	L80-IC	BTC	1.51	1.27	4.79
8.75"	0	18,643	5.5"	23	P110-CY	TXP BTC	2.58	3.20	2.93
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Intermediate burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface.

All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172

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	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary?	
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?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
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?	

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3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	400	13.5	1.75	9.21	12	Lead: Class C
	179	14.8	1.35	6.8	8	Tail: Class C
Inter.	1010	12.8	1.8	9.21	12	Lead: Class C
	351	14.8	1.34	6.52	8	Tail: Class C
Prod.	1070	10.2	2.98	14.92	72	Lead: Tuned Light
	1870	13.2	1.42	7.45	19	Tail: Class H

Intermediate cement job to be performed offline.

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%
Production	4,445'	20% OH in Lateral (KOP to EOL) – 50% OH in Vertical

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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	2500 psi
			Blind Ram		5M
			Pipe Ram		
			Double Ram		
			Other*		
8-3/4"	13-5/8"	10M	Annular	x	50% testing pressure
			Blind Ram	x	10M
			Pipe Ram	x	
			Double Ram		
			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. 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?
N	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.

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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	9-5/8" Int shoe	Saturated Brine	9 - 10	28-34	N/C
9-5/8" Int shoe	Lateral TD	Cut Brine	8.6 - 10	28-34	N/C

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

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

Logging, Coring and Testing.	
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
Y	Mud log	Intermediate shoe to TD
N	PEX	

ConocoPhillips Company - Valor Federal Com 501H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	5630 psi at 10820' TVD
Abnormal Temperature	NO 165 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 (H ₂ S) monitors will be installed prior to drilling out the surface shoe. If H ₂ S 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	H ₂ S is present
Y	H ₂ S Plan attached

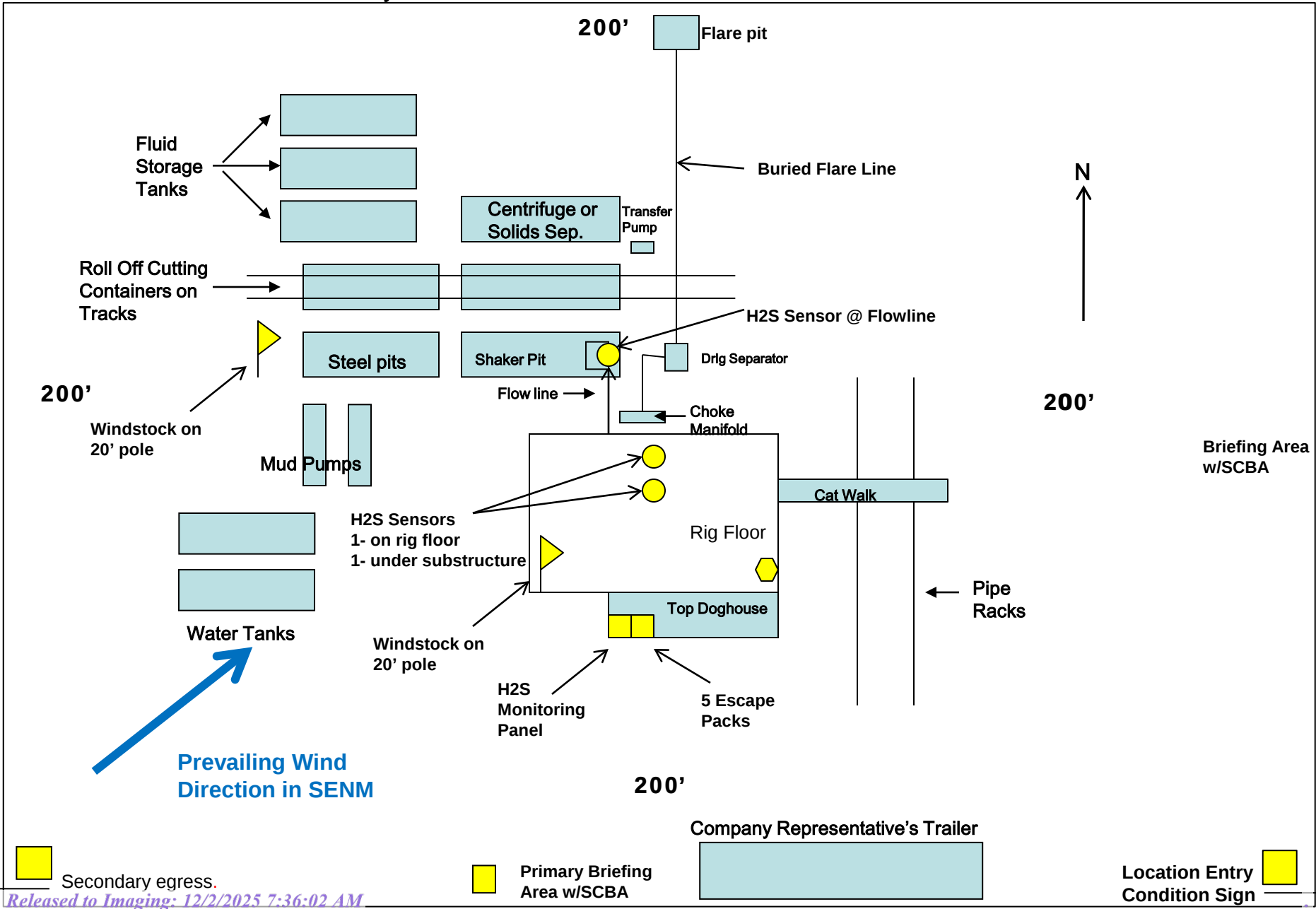
8. Other Facets of Operation

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

x	H ₂ S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

COG Operating LLC
H₂S Equipment Schematic
Terrain: Shinnery sand hills.

Well pad will be 400' x 400'
with cellar in center of pad



COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- a. The hazards and characteristics of hydrogen sulfide (H₂S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- d. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- a. The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- c. The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S. If H₂S greater than 100 ppm is encountered in the gas stream we will shut in and install H₂S equipment.

- a. Well Control Equipment:
 - Flare line.
 - Choke manifold with remotely operated choke.
 - Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
 - Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

- b. Protective equipment for essential personnel:
Mark II Surviveair 30-minute units located in the dog house and at briefing areas.
- c. H2S detection and monitoring equipment:
2 - portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.
- d. Visual warning systems:
Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.
- e. Mud Program:
The mud program has been designed to minimize the volume of H2S circulated to the surface.
- f. Metallurgy:
All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- g. Communication:
Company vehicles equipped with cellular telephone.

COG OPERATING LLC has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore, we do not believe that an H2S contingency plan is necessary.

W A R N I N G

**YOU ARE ENTERING AN H₂S AREA
AUTHORIZED PERSONNEL ONLY**

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED***
- 2. HARD HATS REQUIRED***
- 3. SMOKING IN DESIGNATED AREAS ONLY***
- 4. BE WIND CONSCIOUS AT ALL TIMES***
- 5. CK WITH COG OPERATING LLC FOREMAN AT MAIN OFFICE***

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

EMERGENCY RESPONSE NUMBERS

	<u>OFFICE</u>
STATE POLICE	575-748-9718
EDDY COUNTY SHERIFF	575-746-2701
EMERGENCY MEDICAL SERVICES (AMBULANCE)	911 or 575-746-2701
EDDY COUNTY EMERGENCY MANAGEMENT (HARRY BURGESS)	575-887-9511
STATE EMERGENCY RESPONSE CENTER (SERC)	575-476-9620
CARLSBAD POLICE DEPARTMENT	575-885-2111
CARLSBAD FIRE DEPARTMENT	575-885-3125
NEW MEXICO OIL CONSERVATION DIVISION	575-748-1283
INDIAN FIRE & SAFETY	800-530-8693
HALLIBURTON SERVICES	800-844-8451

DELAWARE BASIN EAST

LEA COUNT SOUTH WEST (NM-E)

VALOR PROJECT

_VALOR FEDERAL COM 501H

OWB

PWP0

Anticollision Report

11 June, 2025

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Max. Cent. Dist. of 1,000.0usft or Max. Ell. Sep. of 500.0usft	Error Surface:	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Added to Error Values

Survey Tool Program	Date	6/11/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	18,642.6	PWP0 (OWB)	r.5 MWD+IFR1+SAG+FDIR	ISCWSA MWD + IFR1 + SAG + FDIR Corri

Summary					
	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Separation Between Ellipses (usft)	Warning
Site Name					
Offset Well - Wellbore - Design					
COLUMBUS FEDERAL PROJECT					
_COLUMBUS FED COM 504H - OWB - PWP0					Out of range
_COLUMBUS FED COM 505H - OWB - PWP0					Out of range
_COLUMBUS FED COM 506H - OWB - PWP0	18,642.7	18,735.8	879.9	741.4	6.354 CC, ES, SF
BATTLE AXE FEDERAL COM #2H - OWB - AWP	9,586.6	16,233.0	256.0	195.5	4.229 CC
BATTLE AXE FEDERAL COM #2H - OWB - AWP	9,600.0	16,233.0	256.4	195.2	4.191 ES
BATTLE AXE FEDERAL COM #2H - OWB - AWP	9,700.0	16,233.0	279.9	211.0	4.061 SF
CALM BREEZE 2 FEDERAL COM #703H - OWB - AWP	18,642.7	10,856.4	684.1	569.8	5.985 CC, ES, SF
CALM BREEZE 2 FEDERAL COM #704H - OWB - AWP	18,642.7	10,823.9	102.2	38.7	1.609 Caution - Monitor Closely, CC, ES, SF
COLUMBUS FEDERAL COM #21H - OWB - AWP	10,866.8	10,595.5	658.3	623.0	18.640 CC, ES
COLUMBUS FEDERAL COM #21H - OWB - AWP	10,900.0	10,623.2	658.6	623.2	18.629 SF
COLUMBUS FEDERAL COM #22H - OWB - AWP					Out of range
COLUMBUS FEE #23H - OWB (PH) - AWP					Out of range
COLUMBUS FEE #23H - ST01 - AWP					Out of range
RED BULL 35 FEDERAL #1H - OWB - AWP					Out of range
ROJO C 7811 JV-P #1H - OWB - AWP	10,059.5	9,751.8	673.3	638.1	19.099 CC, ES
ROJO C 7811 JV-P #1H - OWB - AWP	10,400.0	10,107.0	680.4	644.7	19.024 SF
ROJO C 7811 JV-P #1H - ST01 - AWP	9,376.8	8,994.0	764.3	730.5	22.639 CC, ES
ROJO C 7811 JV-P #1H - ST01 - AWP	9,500.0	9,057.0	771.1	736.8	22.483 SF

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
VALOR PROJECT						
_VALOR FEDERAL COM 502H - OWB - PWP0	1,200.0	1,200.0	20.0	11.3	2.286	Caution - Monitor Closely, CC, ES, SF
_VALOR FEDERAL COM 503H - OWB - PWP0	1,200.0	1,200.0	40.0	31.3	4.572	CC, ES
_VALOR FEDERAL COM 503H - OWB - PWP0	1,300.0	1,300.0	41.7	32.5	4.525	SF
_VALOR FEDERAL COM 504H - OWB - PWP0	1,200.0	1,200.0	60.0	51.3	6.858	CC, ES
_VALOR FEDERAL COM 504H - OWB - PWP0	1,300.0	1,300.0	61.7	52.5	6.694	SF
_VALOR FEDERAL COM 505H - OWB - PWP0	1,200.0	1,200.0	80.0	71.3	9.144	CC, ES
_VALOR FEDERAL COM 505H - OWB - PWP0	1,300.0	1,300.0	81.7	72.5	8.863	SF
_VALOR FEDERAL COM 506H - OWB - PWP0	1,200.0	1,200.0	99.9	91.2	11.423	CC, ES
_VALOR FEDERAL COM 506H - OWB - PWP0	1,300.0	1,296.5	103.3	94.0	11.102	SF
CALM BREEZE 2 FEDERAL COM 701H - OWB - AWP						Out of range
CALM BREEZE 2 FEDERAL COM 702H - OWB - AWP						Out of range
LOMAS ROJAS 26 STATE COM 002H - OWB - AWP	3,955.1	3,861.4	549.7	531.3	29.779	CC
LOMAS ROJAS 26 STATE COM 002H - OWB - AWP	4,000.0	3,903.6	549.9	531.2	29.438	ES
LOMAS ROJAS 26 STATE COM 002H - OWB - AWP	5,000.0	4,862.1	627.6	603.3	25.889	SF
LOMAS ROJAS 26 STATE COM 003H - OWB - AWP	0.0	0.0	821.4			
LOMAS ROJAS 26 STATE COM 003H - OWB - AWP	900.0	892.8	825.6	814.2	72.902	ES
LOMAS ROJAS 26 STATE COM 003H - OWB - AWP	2,100.0	2,083.9	943.6	926.5	54.998	SF
LOMAS ROJAS 26 STATE COM 505H - OWB - AWP	10,892.2	15,717.0	777.9	697.5	9.675	CC, ES, SF
LOMAS ROJAS 26 STATE COM 506H - OWB - AWP	10,800.0	15,673.0	372.3	314.8	6.476	SF
LOMAS ROJAS 26 STATE COM 506H - OWB - AWP	10,875.0	15,673.0	350.9	298.7	6.729	ES
LOMAS ROJAS 26 STATE COM 506H - OWB - AWP	10,897.4	15,673.0	349.6	298.9	6.886	CC
LOMAS ROJAS 26 STATE COM 707H - OWB - AWP						Out of range
LOMAS ROJAS 26 STATE COM 708H - OWB - AWP						Out of range
LOMAS ROJAS STATE COM 26 001H - OWB - AWP	9,400.0	13,690.0	592.2	545.6	12.715	SF
LOMAS ROJAS STATE COM 26 001H - OWB - AWP	9,651.6	13,690.0	536.5	496.1	13.293	CC, ES
VALOR FED COM #704H - OWB - AWP	0.0	0.0	995.5			
VALOR FED COM #704H - OWB - AWP	500.0	485.2	999.4	993.4	165.883	SF
VALOR FED COM #803H - OWB - AWP						Out of range
VALOR FED COM 706H - OWB - AWP	3,071.9	3,027.1	22.8	10.2	1.815	Caution - Monitor Closely, CC, ES, SF
VALOR FED COM 707H - OWB - AWP	3,568.8	3,508.0	39.3	25.7	2.880	Normal Operations, CC, ES, SF
VALOR FEDERAL COM #708H - OWB - AWP	7,684.1	7,487.4	61.2	20.5	1.502	Caution - Monitor Closely, CC, ES
VALOR FEDERAL COM #708H - OWB - AWP	7,700.0	7,502.7	61.3	20.5	1.502	Caution - Monitor Closely, SF
VALOR FEDERAL COM #708H - ST01 - AWP	7,684.1	7,487.4	61.2	20.5	1.502	Caution - Monitor Closely, CC, ES
VALOR FEDERAL COM #708H - ST01 - AWP	7,700.0	7,502.7	61.3	20.5	1.502	Caution - Monitor Closely, SF

Offset Design: COLUMBUS FEDERAL PROJECT - _COLUMBUS FED COM 506H - OWB - PWP0														Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR														Offset Well Error: 0.0 usft
Reference	Vertical	Offset	Vertical	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre		Distance		No-Go	Separation	Warning
Measured Depth (usft)	Depth (usft)	Measured Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (")		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor	
9,700.0	9,444.3	9,919.9	9,569.5	22.7	23.9	0.61		79.2	-2,991.1	984.5	940.1	44.44	22.152	
9,800.0	9,543.6	10,000.0	9,649.0	22.9	24.1	0.63		79.5	-2,981.5	960.4	915.6	44.81	21.435	
9,900.0	9,643.0	10,086.8	9,735.2	23.0	24.2	0.64		79.7	-2,972.3	939.4	894.2	45.16	20.803	
10,000.0	9,742.6	10,171.4	9,819.5	23.2	24.3	0.66		79.9	-2,964.6	921.5	876.0	45.49	20.257	
10,100.0	9,842.3	10,256.7	9,904.6	23.4	24.4	0.67		80.1	-2,958.1	906.8	861.0	45.81	19.796	
10,200.0	9,942.2	10,342.6	9,990.3	23.5	24.5	0.68		80.3	-2,952.9	895.4	849.3	46.11	19.419	
10,300.0	10,042.1	10,428.8	10,076.4	23.7	24.6	0.68		80.4	-2,948.9	887.1	840.7	46.39	19.125	
10,400.0	10,142.1	10,515.3	10,162.9	23.8	24.7	0.69		80.5	-2,946.2	882.1	835.5	46.63	18.916	

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 EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: COLUMBUS FEDERAL PROJECT - _COLUMBUS FED COM 506H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR												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)			
10,457.9	10,200.0	10,565.5	10,213.1	23.8	24.7	-90.38	80.5	-2,945.2	880.7	834.0	46.73	18.848	
10,500.0	10,242.1	10,600.0	10,247.6	23.8	24.7	-90.38	80.5	-2,944.8	880.2	833.5	46.77	18.819	
10,600.0	10,342.1	10,694.5	10,342.1	23.9	24.8	-90.38	80.5	-2,944.6	880.0	833.2	46.84	18.786	
10,600.4	10,342.5	10,694.9	10,342.5	23.9	24.8	-90.38	80.5	-2,944.6	880.0	833.2	46.84	18.786	
10,625.0	10,367.1	10,719.6	10,367.1	23.9	24.8	90.03	79.8	-2,944.6	880.0	833.2	46.85	18.785	
10,650.0	10,392.0	10,744.6	10,392.1	23.9	24.8	90.02	77.7	-2,944.6	880.0	833.2	46.85	18.785	
10,675.0	10,416.8	10,769.6	10,416.9	23.8	24.8	90.02	74.4	-2,944.6	880.0	833.2	46.84	18.786	
10,700.0	10,441.4	10,794.6	10,441.4	23.8	24.7	90.01	69.7	-2,944.5	880.0	833.2	46.84	18.787	
10,725.0	10,465.7	10,819.6	10,465.7	23.8	24.7	90.00	63.8	-2,944.5	880.0	833.2	46.84	18.789	
10,750.0	10,489.7	10,844.6	10,489.7	23.8	24.7	90.00	56.6	-2,944.4	880.0	833.2	46.83	18.791	
10,775.0	10,513.3	10,869.6	10,513.2	23.8	24.7	89.99	48.2	-2,944.4	880.0	833.2	46.83	18.793	
10,800.0	10,536.4	10,894.6	10,536.2	23.8	24.7	89.98	38.5	-2,944.3	880.0	833.2	46.82	18.795	
10,825.0	10,558.9	10,919.6	10,558.7	23.8	24.7	89.97	27.7	-2,944.2	880.0	833.2	46.81	18.798	
10,850.0	10,580.9	10,944.6	10,580.7	23.8	24.7	89.97	15.7	-2,944.1	880.0	833.2	46.81	18.800	
10,875.0	10,602.2	10,969.5	10,601.9	23.8	24.7	89.96	2.6	-2,944.0	880.0	833.2	46.80	18.802	
10,900.0	10,622.8	10,994.5	10,622.4	23.8	24.7	89.95	-11.6	-2,943.9	880.0	833.2	46.80	18.805	
10,925.0	10,642.7	11,019.5	10,642.2	23.8	24.7	89.95	-26.9	-2,943.8	880.0	833.2	46.79	18.806	
10,950.0	10,661.7	11,044.4	10,661.1	23.8	24.8	89.94	-43.1	-2,943.7	880.0	833.2	46.79	18.807	
10,975.0	10,679.8	11,069.4	10,679.1	23.9	24.8	89.93	-60.4	-2,943.6	880.0	833.2	46.79	18.808	
11,000.0	10,697.1	11,094.3	10,696.3	23.9	24.8	89.93	-78.5	-2,943.5	880.0	833.2	46.79	18.807	
11,025.0	10,713.3	11,119.3	10,712.4	23.9	24.8	89.92	-97.5	-2,943.3	880.0	833.2	46.79	18.806	
11,050.0	10,728.6	11,144.2	10,727.5	23.9	24.8	89.92	-117.3	-2,943.2	880.0	833.2	46.80	18.804	
11,075.0	10,742.7	11,169.1	10,741.6	23.9	24.9	89.91	-137.9	-2,943.0	880.0	833.2	46.81	18.800	
11,100.0	10,755.8	11,194.1	10,754.6	24.0	24.9	89.91	-159.2	-2,942.9	880.0	833.2	46.82	18.795	
11,125.0	10,767.8	11,219.0	10,766.4	24.0	24.9	89.90	-181.1	-2,942.7	880.0	833.2	46.84	18.789	
11,150.0	10,778.5	11,243.9	10,777.1	24.1	25.0	89.90	-203.6	-2,942.5	880.0	833.1	46.86	18.781	
11,175.0	10,788.1	11,268.8	10,786.6	24.1	25.0	89.89	-226.7	-2,942.4	880.0	833.1	46.88	18.772	
11,200.0	10,796.5	11,293.7	10,794.8	24.1	25.1	89.89	-250.2	-2,942.2	880.0	833.1	46.91	18.761	
11,225.0	10,803.6	11,318.6	10,801.9	24.2	25.1	89.88	-274.0	-2,942.0	880.0	833.1	46.94	18.749	
11,250.0	10,809.5	11,343.5	10,807.7	24.3	25.2	89.88	-298.3	-2,941.8	880.0	833.0	46.97	18.734	
11,275.0	10,814.0	11,368.4	10,812.2	24.3	25.2	89.88	-322.8	-2,941.7	880.0	833.0	47.01	18.719	
11,300.0	10,817.3	11,393.3	10,815.4	24.4	25.3	89.87	-347.4	-2,941.5	880.0	832.9	47.06	18.701	
11,325.0	10,819.3	11,418.2	10,817.3	24.4	25.4	89.87	-372.3	-2,941.3	880.0	832.9	47.10	18.683	
11,350.4	10,820.0	11,443.5	10,818.0	24.5	25.4	89.87	-397.5	-2,941.1	880.0	832.8	47.15	18.662	
11,400.0	10,820.0	11,493.1	10,818.0	24.7	25.6	89.87	-447.2	-2,940.8	880.0	832.7	47.27	18.617	
11,500.0	10,820.0	11,593.1	10,818.0	25.0	25.8	89.87	-547.1	-2,940.0	880.0	832.4	47.56	18.501	
11,600.0	10,820.0	11,693.1	10,818.0	25.3	26.1	89.87	-647.1	-2,939.3	880.0	832.1	47.92	18.365	
11,700.0	10,820.0	11,793.1	10,818.0	25.7	26.4	89.87	-747.1	-2,938.6	880.0	831.7	48.33	18.208	
11,800.0	10,820.0	11,893.1	10,818.0	26.0	26.8	89.87	-847.1	-2,937.8	880.0	831.2	48.80	18.034	
11,900.0	10,820.0	11,993.1	10,818.0	26.4	27.1	89.87	-947.1	-2,937.1	880.0	830.7	49.32	17.843	
12,000.0	10,820.0	12,093.1	10,818.0	26.8	27.5	89.87	-1,047.1	-2,936.4	880.0	830.1	49.89	17.638	
12,100.0	10,820.0	12,193.1	10,818.0	27.2	27.8	89.87	-1,147.1	-2,935.6	880.0	829.5	50.52	17.420	
12,200.0	10,820.0	12,293.1	10,818.0	27.6	28.2	89.87	-1,247.1	-2,934.9	880.0	828.8	51.19	17.190	
12,300.0	10,820.0	12,393.1	10,818.0	28.1	28.6	89.87	-1,347.1	-2,934.2	880.0	828.1	51.91	16.952	
12,400.0	10,820.0	12,493.1	10,818.0	28.5	29.0	89.87	-1,447.1	-2,933.5	880.0	827.3	52.68	16.705	
12,500.0	10,820.0	12,593.1	10,818.0	29.0	29.4	89.87	-1,547.1	-2,932.7	880.0	826.5	53.49	16.452	
12,600.0	10,820.0	12,693.1	10,818.0	29.5	29.9	89.87	-1,647.1	-2,932.0	880.0	825.6	54.34	16.195	
12,700.0	10,820.0	12,793.1	10,818.0	30.0	30.3	89.87	-1,747.1	-2,931.3	880.0	824.8	55.23	15.934	
12,800.0	10,820.0	12,893.1	10,818.0	30.5	30.8	89.87	-1,847.1	-2,930.5	880.0	823.8	56.15	15.671	
12,900.0	10,820.0	12,993.1	10,818.0	31.0	31.3	89.87	-1,947.1	-2,929.8	880.0	822.9	57.12	15.407	
13,000.0	10,820.0	13,093.1	10,818.0	31.5	31.8	89.87	-2,047.1	-2,929.1	880.0	821.9	58.11	15.143	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLOT 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: COLUMBUS FEDERAL PROJECT - _COLUMBUS FED COM 506H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													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)				
13,100.0	10,820.0	13,193.1	10,818.0	32.1	32.3	89.87	-2,147.1	-2,928.3	880.0	820.8	59.14	14.880		
13,200.0	10,820.0	13,293.1	10,818.0	32.6	32.8	89.87	-2,247.1	-2,927.6	880.0	819.8	60.20	14.618		
13,300.0	10,820.0	13,393.1	10,818.0	33.2	33.3	89.87	-2,347.1	-2,926.9	880.0	818.7	61.29	14.358		
13,400.0	10,820.0	13,493.1	10,818.0	33.8	33.8	89.87	-2,447.1	-2,926.1	880.0	817.6	62.40	14.102		
13,500.0	10,820.0	13,593.1	10,818.0	34.3	34.4	89.87	-2,547.1	-2,925.4	880.0	816.4	63.54	13.849		
13,600.0	10,820.0	13,693.1	10,818.0	34.9	35.0	89.87	-2,647.1	-2,924.7	880.0	815.3	64.71	13.600		
13,700.0	10,820.0	13,793.1	10,818.0	35.5	35.5	89.87	-2,747.1	-2,924.0	880.0	814.1	65.89	13.354		
13,800.0	10,820.0	13,893.1	10,818.0	36.1	36.1	89.87	-2,847.1	-2,923.2	880.0	812.9	67.10	13.113		
13,900.0	10,820.0	13,993.1	10,818.0	36.8	36.7	89.87	-2,947.1	-2,922.5	880.0	811.6	68.34	12.877		
14,000.0	10,820.0	14,093.1	10,818.0	37.4	37.3	89.87	-3,047.1	-2,921.8	880.0	810.4	69.59	12.646		
14,100.0	10,820.0	14,193.1	10,818.0	38.0	37.9	89.87	-3,147.1	-2,921.0	880.0	809.1	70.85	12.419		
14,200.0	10,820.0	14,293.1	10,818.0	38.7	38.5	89.87	-3,247.1	-2,920.3	880.0	807.8	72.14	12.198		
14,300.0	10,820.0	14,393.1	10,818.0	39.3	39.1	89.87	-3,347.1	-2,919.6	880.0	806.5	73.44	11.981		
14,400.0	10,820.0	14,493.1	10,818.0	40.0	39.8	89.87	-3,447.1	-2,918.8	880.0	805.2	74.76	11.770		
14,500.0	10,820.0	14,593.1	10,818.0	40.6	40.4	89.87	-3,547.1	-2,918.1	880.0	803.9	76.10	11.564		
14,600.0	10,820.0	14,693.1	10,818.0	41.3	41.0	89.87	-3,647.1	-2,917.4	880.0	802.5	77.45	11.362		
14,700.0	10,820.0	14,793.1	10,818.0	42.0	41.7	89.87	-3,747.1	-2,916.7	880.0	801.2	78.81	11.166		
14,800.0	10,820.0	14,893.1	10,818.0	42.7	42.4	89.87	-3,847.1	-2,915.9	880.0	799.8	80.18	10.975		
14,900.0	10,820.0	14,993.1	10,818.0	43.3	43.0	89.87	-3,947.1	-2,915.2	880.0	798.4	81.57	10.788		
15,000.0	10,820.0	15,093.1	10,818.0	44.0	43.7	89.87	-4,047.1	-2,914.5	880.0	797.0	82.97	10.606		
15,100.0	10,820.0	15,193.1	10,818.0	44.7	44.4	89.87	-4,147.1	-2,913.7	880.0	795.6	84.37	10.429		
15,200.0	10,820.0	15,293.1	10,818.0	45.4	45.1	89.87	-4,247.0	-2,913.0	880.0	794.2	85.79	10.257		
15,300.0	10,820.0	15,393.1	10,818.0	46.2	45.7	89.87	-4,347.0	-2,912.3	880.0	792.7	87.22	10.089		
15,400.0	10,820.0	15,493.1	10,818.0	46.9	46.4	89.87	-4,447.0	-2,911.5	880.0	791.3	88.66	9.925		
15,500.0	10,820.0	15,593.1	10,818.0	47.6	47.1	89.87	-4,547.0	-2,910.8	880.0	789.8	90.11	9.765		
15,600.0	10,820.0	15,693.1	10,818.0	48.3	47.8	89.87	-4,647.0	-2,910.1	880.0	788.4	91.56	9.610		
15,700.0	10,820.0	15,793.1	10,818.0	49.0	48.6	89.87	-4,747.0	-2,909.3	880.0	786.9	93.03	9.459		
15,800.0	10,820.0	15,893.1	10,818.0	49.8	49.3	89.87	-4,847.0	-2,908.6	880.0	785.5	94.50	9.312		
15,900.0	10,820.0	15,993.1	10,818.0	50.5	50.0	89.87	-4,947.0	-2,907.9	880.0	784.0	95.98	9.168		
16,000.0	10,820.0	16,093.1	10,818.0	51.2	50.7	89.87	-5,047.0	-2,907.2	880.0	782.5	97.47	9.028		
16,100.0	10,820.0	16,193.1	10,818.0	52.0	51.4	89.87	-5,147.0	-2,906.4	879.9	781.0	98.96	8.892		
16,200.0	10,820.0	16,293.1	10,818.0	52.7	52.2	89.87	-5,247.0	-2,905.7	879.9	779.5	100.46	8.759		
16,300.0	10,820.0	16,393.1	10,818.0	53.5	52.9	89.87	-5,347.0	-2,905.0	879.9	778.0	101.96	8.630		
16,400.0	10,820.0	16,493.1	10,818.0	54.2	53.6	89.87	-5,447.0	-2,904.2	879.9	776.5	103.48	8.504		
16,500.0	10,820.0	16,593.1	10,818.0	55.0	54.4	89.87	-5,547.0	-2,903.5	879.9	775.0	104.99	8.381		
16,600.0	10,820.0	16,693.1	10,818.0	55.7	55.1	89.87	-5,647.0	-2,902.8	879.9	773.4	106.51	8.261		
16,700.0	10,820.0	16,793.1	10,818.0	56.5	55.9	89.87	-5,747.0	-2,902.0	879.9	771.9	108.04	8.144		
16,800.0	10,820.0	16,893.1	10,818.0	57.2	56.6	89.87	-5,847.0	-2,901.3	879.9	770.4	109.57	8.031		
16,900.0	10,820.0	16,993.1	10,818.0	58.0	57.4	89.87	-5,947.0	-2,900.6	879.9	768.8	111.11	7.919		
17,000.0	10,820.0	17,093.1	10,818.0	58.8	58.1	89.87	-6,047.0	-2,899.8	879.9	767.3	112.65	7.811		
17,100.0	10,820.0	17,193.1	10,818.0	59.5	58.9	89.87	-6,147.0	-2,899.1	879.9	765.7	114.20	7.705		
17,200.0	10,820.0	17,293.1	10,818.0	60.3	59.7	89.87	-6,247.0	-2,898.4	879.9	764.2	115.75	7.602		
17,300.0	10,820.0	17,393.1	10,818.0	61.1	60.4	89.87	-6,347.0	-2,897.7	879.9	762.6	117.30	7.501		
17,400.0	10,820.0	17,493.1	10,818.0	61.9	61.2	89.87	-6,447.0	-2,896.9	879.9	761.1	118.86	7.403		
17,500.0	10,820.0	17,593.1	10,818.0	62.6	62.0	89.87	-6,547.0	-2,896.2	879.9	759.5	120.42	7.307		
17,600.0	10,820.0	17,693.1	10,818.0	63.4	62.7	89.87	-6,647.0	-2,895.5	879.9	757.9	121.99	7.213		
17,700.0	10,820.0	17,793.1	10,818.0	64.2	63.5	89.87	-6,747.0	-2,894.7	879.9	756.4	123.56	7.122		
17,800.0	10,820.0	17,893.1	10,818.0	65.0	64.3	89.87	-6,847.0	-2,894.0	879.9	754.8	125.13	7.032		
17,900.0	10,820.0	17,993.1	10,818.0	65.8	65.1	89.87	-6,947.0	-2,893.3	879.9	753.2	126.71	6.945		
18,000.0	10,820.0	18,093.1	10,818.0	66.5	65.8	89.87	-7,047.0	-2,892.5	879.9	751.6	128.28	6.859		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design:	COLUMBUS FEDERAL PROJECT - _COLUMBUS FED COM 506H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program:	0-r.5 MWD+IFR1+SAG+FDIR											Offset Well Error:	0.0 usft
Reference	Vertical	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)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
18,100.0	10,820.0	18,193.1	10,818.0	67.3	66.6	89.87	-7,147.0	-2,891.8	879.9	750.1	129.86	6.776	
18,200.0	10,820.0	18,293.1	10,818.0	68.1	67.4	89.87	-7,247.0	-2,891.1	879.9	748.5	131.45	6.694	
18,300.0	10,820.0	18,393.1	10,818.0	68.9	68.2	89.87	-7,347.0	-2,890.4	879.9	746.9	133.04	6.614	
18,400.0	10,820.0	18,493.1	10,818.0	69.7	69.0	89.87	-7,447.0	-2,889.6	879.9	745.3	134.62	6.536	
18,500.0	10,820.0	18,593.1	10,818.0	70.5	69.8	89.87	-7,547.0	-2,888.9	879.9	743.7	136.22	6.460	
18,600.0	10,820.0	18,693.1	10,818.0	71.3	70.6	89.87	-7,647.0	-2,888.2	879.9	742.1	137.81	6.385	
18,642.7	10,820.0	18,735.8	10,818.0	71.6	70.9	89.87	-7,689.6	-2,887.8	879.9	741.4	138.49	6.354 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 EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO T 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design:	COLUMBUS FEDERAL PROJECT - BATTLE AXE FEDERAL COM #2H - OWB - AWP										Offset Site Error:	0.0 usft
Survey Program:	100-r.5 GYRO-NS, 8555-MWD - OWSG R1										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
8,700.0	8,467.8	16,233.0	9,336.8	20.5	122.8	-104.12	-165.9	-1,963.1	920.2	834.8	85.32	10.784
8,800.0	8,564.5	16,233.0	9,336.8	20.8	122.8	-104.12	-165.9	-1,963.1	824.8	740.4	84.44	9.768
8,900.0	8,661.1	16,233.0	9,336.8	21.0	122.8	-104.12	-165.9	-1,963.1	730.7	647.4	83.28	8.774
8,970.8	8,729.6	16,233.0	9,336.8	21.1	122.8	-104.12	-165.9	-1,963.1	665.0	582.8	82.21	8.089
9,000.0	8,757.8	16,233.0	9,336.8	21.2	122.8	-103.48	-165.9	-1,963.1	638.3	556.6	81.70	7.813
9,100.0	8,854.8	16,233.0	9,336.8	21.4	122.8	-101.48	-165.9	-1,963.1	548.5	468.9	79.60	6.891
9,200.0	8,952.2	16,233.0	9,336.8	21.7	122.8	-99.83	-165.9	-1,963.1	462.7	386.1	76.65	6.037
9,300.0	9,050.0	16,233.0	9,336.8	21.9	122.8	-98.55	-165.9	-1,963.1	383.7	311.3	72.40	5.299
9,400.0	9,148.1	16,233.0	9,336.8	22.1	122.8	-97.64	-165.9	-1,963.1	316.5	250.0	66.50	4.759
9,500.0	9,246.6	16,233.0	9,336.8	22.3	122.8	-97.11	-165.9	-1,963.1	270.2	209.5	60.66	4.454
9,586.6	9,332.1	16,233.0	9,336.8	22.5	122.8	-96.97	-165.9	-1,963.1	256.0	195.5	60.54	4.229 CC
9,600.0	9,345.3	16,233.0	9,336.8	22.5	122.8	-96.97	-165.9	-1,963.1	256.4	195.2	61.16	4.191 ES
9,700.0	9,444.3	16,233.0	9,336.8	22.7	122.8	-97.22	-165.9	-1,963.1	279.9	211.0	68.92	4.061 SF
9,800.0	9,543.6	16,233.0	9,336.8	22.9	122.8	-97.85	-165.9	-1,963.1	332.9	256.6	76.29	4.364
9,900.0	9,643.0	16,233.0	9,336.8	23.0	122.8	-98.86	-165.9	-1,963.1	404.0	323.3	80.71	5.005
10,000.0	9,742.6	16,233.0	9,336.8	23.2	122.8	-100.24	-165.9	-1,963.1	485.2	402.2	83.08	5.840
10,100.0	9,842.3	16,233.0	9,336.8	23.4	122.8	-101.98	-165.9	-1,963.1	572.3	488.0	84.35	6.785
10,200.0	9,942.2	16,233.0	9,336.8	23.5	122.8	-104.07	-165.9	-1,963.1	662.9	577.8	85.05	7.794
10,300.0	10,042.1	16,233.0	9,336.8	23.7	122.8	-106.48	-165.9	-1,963.1	755.7	670.3	85.44	8.845
10,400.0	10,142.1	16,233.0	9,336.8	23.8	122.8	-109.18	-165.9	-1,963.1	850.0	764.3	85.67	9.921
10,457.9	10,200.0	16,233.0	9,336.8	23.8	122.8	158.07	-165.9	-1,963.1	905.1	819.3	85.77	10.553
10,500.0	10,242.1	16,233.0	9,336.8	23.8	122.8	158.07	-165.9	-1,963.1	945.3	859.5	85.83	11.014

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design:	COLUMBUS FEDERAL PROJECT - CALM BREEZE 2 FEDERAL COM #703H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	131-MWD - OWSG R1											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)	Between Centres (usft)	Between Ellipses (usft)					
18,000.0	10,820.0	10,836.5	10,810.9	66.5	39.7	-89.24	-7,754.7	-1,327.4	989.8	893.3	96.48	10.259	
18,100.0	10,820.0	10,839.9	10,814.4	67.3	39.7	-89.53	-7,754.8	-1,327.4	919.7	819.9	99.83	9.213	
18,200.0	10,820.0	10,843.2	10,817.7	68.1	39.8	-89.81	-7,754.9	-1,327.5	855.6	752.2	103.37	8.277	
18,300.0	10,820.0	10,846.4	10,820.9	68.9	39.8	-90.08	-7,754.9	-1,327.5	798.8	691.9	106.92	7.471	
18,400.0	10,820.0	10,849.5	10,824.0	69.7	39.8	-90.33	-7,755.0	-1,327.6	751.2	641.0	110.18	6.818	
18,500.0	10,820.0	10,852.4	10,826.9	70.5	39.8	-90.58	-7,755.1	-1,327.6	714.4	601.6	112.75	6.336	
18,600.0	10,820.0	10,855.2	10,829.7	71.3	39.8	-90.82	-7,755.1	-1,327.7	690.2	576.1	114.16	6.046	
18,642.7	10,820.0	10,856.4	10,830.9	71.6	39.8	-90.92	-7,755.2	-1,327.7	684.1	569.8	114.32	5.985 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 EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design:	COLUMBUS FEDERAL PROJECT - CALM BREEZE 2 FEDERAL COM #704H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	131-MWD - OWSG R1											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)	Between Centres (usft)	Between Ellipses (usft)					
17,800.0	10,820.0	10,807.9	10,801.7	65.0	38.6	49.00	-7,783.0	-2,028.2	942.7	878.2	64.52	14.610	
17,900.0	10,820.0	10,809.8	10,803.7	65.8	38.6	52.21	-7,783.0	-2,028.3	842.8	778.2	64.56	13.055	
18,000.0	10,820.0	10,811.8	10,805.6	66.5	38.6	55.69	-7,783.1	-2,028.3	742.8	678.2	64.57	11.504	
18,100.0	10,820.0	10,813.7	10,807.5	67.3	38.6	59.45	-7,783.1	-2,028.3	642.9	578.3	64.57	9.957	
18,200.0	10,820.0	10,815.6	10,809.5	68.1	38.6	63.48	-7,783.1	-2,028.4	543.0	478.4	64.54	8.413	
18,300.0	10,820.0	10,817.5	10,811.3	68.9	38.6	67.78	-7,783.2	-2,028.4	443.1	378.6	64.46	6.874	
18,400.0	10,820.0	10,819.4	10,813.2	69.7	38.6	72.31	-7,783.2	-2,028.4	343.2	279.0	64.30	5.339	
18,500.0	10,820.0	10,821.2	10,815.1	70.5	38.6	77.03	-7,783.2	-2,028.5	243.5	179.5	64.00	3.805	
18,600.0	10,820.0	10,823.1	10,817.0	71.3	38.6	81.89	-7,783.3	-2,028.5	144.2	80.7	63.52	2.270	Caution - Monitor Closely
18,642.7	10,820.0	10,823.9	10,817.8	71.6	38.6	83.99	-7,783.3	-2,028.5	102.2	38.7	63.52	1.609	Caution - Monitor Closely, 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 EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: COLUMBUS FEDERAL PROJECT - COLUMBUS FEDERAL COM #21H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100- VES GyroFlex, 11710-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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)			
8,500.0	8,274.5	8,260.5	8,268.5	20.1	7.2	-2.81	27.6	-2,726.5	976.7	947.1	29.55	33.048	
8,600.0	8,371.2	8,355.6	8,363.6	20.3	7.3	-2.89	27.4	-2,727.2	951.7	921.9	29.88	31.849	
8,700.0	8,467.8	8,456.2	8,464.2	20.5	7.3	-2.98	27.3	-2,727.9	926.8	896.6	30.20	30.691	
8,800.0	8,564.5	8,557.0	8,565.0	20.8	7.3	-3.09	27.0	-2,727.9	901.3	870.7	30.51	29.538	
8,900.0	8,661.1	8,654.1	8,662.1	21.0	7.3	-3.20	26.7	-2,727.8	875.5	844.7	30.83	28.394	
8,970.8	8,729.6	8,722.2	8,730.2	21.1	7.3	-3.29	26.5	-2,727.7	857.3	826.3	31.05	27.607	
9,000.0	8,757.8	8,750.2	8,758.2	21.2	7.3	-3.32	26.3	-2,727.7	849.9	818.8	31.14	27.293	
9,100.0	8,854.8	8,846.9	8,854.9	21.4	7.3	-3.43	25.9	-2,727.6	825.6	794.1	31.46	26.241	
9,200.0	8,952.2	8,943.4	8,951.4	21.7	7.4	-3.54	25.6	-2,727.6	803.0	771.2	31.78	25.267	
9,300.0	9,050.0	9,040.2	9,048.2	21.9	7.4	-3.63	25.4	-2,727.8	782.3	750.2	32.10	24.374	
9,400.0	9,148.1	9,138.9	9,146.9	22.1	7.5	-3.69	25.6	-2,728.0	763.3	730.9	32.40	23.558	
9,500.0	9,246.6	9,240.2	9,248.2	22.3	7.6	-3.75	25.8	-2,728.1	745.9	713.2	32.69	22.816	
9,600.0	9,345.3	9,342.2	9,350.1	22.5	7.6	-3.82	25.9	-2,727.5	729.6	696.7	32.98	22.127	
9,700.0	9,444.3	9,439.3	9,447.3	22.7	7.7	-3.90	25.7	-2,727.0	715.0	681.8	33.26	21.496	
9,800.0	9,543.6	9,534.5	9,542.5	22.9	7.8	-3.96	25.8	-2,726.8	702.6	669.0	33.55	20.939	
9,900.0	9,643.0	9,630.3	9,638.2	23.0	7.8	-4.01	25.8	-2,727.3	692.5	658.7	33.84	20.467	
10,000.0	9,742.6	9,730.3	9,738.2	23.2	7.9	-4.05	25.7	-2,728.0	684.3	650.2	34.10	20.071	
10,100.0	9,842.3	9,832.4	9,840.4	23.4	7.9	-4.12	25.3	-2,728.5	677.8	643.5	34.34	19.741	
10,200.0	9,942.2	9,936.0	9,943.9	23.5	8.0	-4.12	25.6	-2,728.4	672.3	637.7	34.56	19.452	
10,300.0	10,042.1	10,033.2	10,041.2	23.7	8.1	-4.07	26.5	-2,728.5	668.7	633.9	34.79	19.219	
10,400.0	10,142.1	10,137.0	10,145.0	23.8	8.2	-4.01	27.3	-2,728.6	666.8	631.9	34.98	19.063	
10,457.9	10,200.0	10,201.1	10,209.1	23.8	8.3	-95.11	27.0	-2,728.0	666.0	631.0	35.03	19.014	
10,500.0	10,242.1	10,242.7	10,250.6	23.8	8.3	-95.15	26.6	-2,727.4	665.5	630.4	35.05	18.988	
10,600.0	10,342.1	10,342.9	10,350.9	23.9	8.3	-95.27	25.3	-2,726.0	664.2	629.1	35.12	18.914	
10,600.4	10,342.5	10,343.4	10,351.3	23.9	8.3	-95.27	25.3	-2,726.0	664.2	629.1	35.12	18.913	
10,625.0	10,367.1	10,368.5	10,376.4	23.9	8.3	85.22	25.0	-2,725.6	663.8	628.7	35.13	18.897	
10,650.0	10,392.0	10,394.0	10,401.9	23.9	8.3	85.42	24.6	-2,725.2	663.3	628.2	35.14	18.876	
10,675.0	10,416.8	10,418.8	10,426.7	23.8	8.3	85.73	24.3	-2,724.8	662.7	627.5	35.16	18.850	
10,700.0	10,441.4	10,443.1	10,451.0	23.8	8.3	86.17	23.9	-2,724.4	662.0	626.8	35.17	18.822	
10,725.0	10,465.7	10,467.2	10,475.1	23.8	8.3	86.71	23.6	-2,724.1	661.2	626.1	35.19	18.791	
10,750.0	10,489.7	10,491.0	10,498.9	23.8	8.3	87.36	23.3	-2,723.7	660.5	625.3	35.21	18.759	
10,775.0	10,513.3	10,514.3	10,522.2	23.8	8.3	88.09	23.0	-2,723.4	659.8	624.6	35.23	18.728	
10,800.0	10,536.4	10,537.1	10,545.0	23.8	8.3	88.90	22.7	-2,723.0	659.1	623.9	35.25	18.698	
10,825.0	10,558.9	10,559.4	10,567.3	23.8	8.3	89.77	22.4	-2,722.7	658.7	623.4	35.27	18.672	
10,850.0	10,580.9	10,581.2	10,589.1	23.8	8.4	90.69	22.2	-2,722.5	658.3	623.1	35.30	18.651	
10,866.8	10,595.3	10,595.5	10,603.4	23.8	8.4	91.32	22.0	-2,722.3	658.3	623.0	35.32	18.640 CC, ES	
10,875.0	10,602.2	10,602.3	10,610.2	23.8	8.4	91.63	21.9	-2,722.2	658.3	623.0	35.32	18.636	
10,900.0	10,622.8	10,623.2	10,631.0	23.8	8.4	92.60	21.6	-2,722.0	658.6	623.2	35.35	18.629 SF	
10,925.0	10,642.7	10,643.2	10,651.1	23.8	8.4	93.57	21.3	-2,721.7	659.2	623.8	35.38	18.632	
10,950.0	10,661.7	10,662.5	10,670.3	23.8	8.4	94.51	21.1	-2,721.5	660.3	624.9	35.41	18.646	
10,975.0	10,679.8	10,680.8	10,688.7	23.9	8.4	95.40	20.9	-2,721.3	661.9	626.4	35.45	18.672	
11,000.0	10,697.1	10,698.2	10,706.1	23.9	8.4	96.22	20.7	-2,721.1	664.0	628.6	35.48	18.713	
11,025.0	10,713.3	10,714.7	10,722.6	23.9	8.4	96.95	20.5	-2,720.9	666.9	631.3	35.53	18.770	
11,050.0	10,728.6	10,730.2	10,738.0	23.9	8.4	97.57	20.3	-2,720.7	670.4	634.8	35.57	18.844	
11,075.0	10,742.7	10,744.6	10,752.5	23.9	8.4	98.07	20.1	-2,720.5	674.6	639.0	35.62	18.937	
11,100.0	10,755.8	10,758.0	10,765.8	24.0	8.4	98.42	20.0	-2,720.3	679.6	644.0	35.68	19.048	
11,125.0	10,767.8	10,770.2	10,778.0	24.0	8.4	98.62	19.8	-2,720.2	685.5	649.8	35.74	19.179	
11,150.0	10,778.5	10,781.2	10,789.1	24.1	8.4	98.64	19.7	-2,720.1	692.2	656.4	35.81	19.331	
11,175.0	10,788.1	10,791.1	10,799.0	24.1	8.4	98.48	19.6	-2,719.9	699.8	663.9	35.88	19.504	
11,200.0	10,796.5	10,799.8	10,807.6	24.1	8.4	98.11	19.5	-2,719.8	708.2	672.3	35.96	19.697	
11,225.0	10,803.6	10,807.3	10,815.2	24.2	8.4	97.54	19.4	-2,719.7	717.5	681.5	36.04	19.911	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO T 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design:	COLUMBUS FEDERAL PROJECT - COLUMBUS FEDERAL COM #21H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	100- VES GyroFlex, 11710-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:									
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance				Warning
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	No-Go	Separation	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Distance	Factor	
									(usft)	(usft)	(usft)		
11,250.0	10,809.5	10,813.6	10,821.4	24.3	8.4	96.75	19.3	-2,719.7	727.6	691.5	36.12	20.144	
11,275.0	10,814.0	10,818.6	10,826.4	24.3	8.4	95.72	19.2	-2,719.6	738.5	702.3	36.21	20.397	
11,300.0	10,817.3	10,822.2	10,830.1	24.4	8.4	94.46	19.2	-2,719.6	750.2	713.9	36.30	20.668	
11,325.0	10,819.3	10,824.5	10,832.4	24.4	8.4	92.95	19.2	-2,719.5	762.6	726.2	36.39	20.957	
11,350.4	10,820.0	10,825.5	10,833.4	24.5	8.4	91.17	19.2	-2,719.5	775.8	739.4	36.48	21.266	
11,400.0	10,820.0	10,826.2	10,834.0	24.7	8.4	91.23	19.1	-2,719.5	803.5	766.8	36.67	21.913	
11,500.0	10,820.0	10,827.4	10,835.3	25.0	8.4	91.34	19.1	-2,719.5	865.2	828.1	37.02	23.371	
11,600.0	10,820.0	10,828.7	10,836.5	25.3	8.4	91.45	19.1	-2,719.5	933.5	896.2	37.33	25.008	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: COLUMBUS FEDERAL PROJECT - ROJO C 7811 JV-P #1H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100- VES GyroFlex												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset		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)			
8,300.0	8,081.2	8,090.9	8,099.0	19.6	7.6	17.60	366.1	-2,659.4	997.0	967.4	29.65	33.631	
8,400.0	8,177.9	8,190.3	8,198.3	19.8	7.7	18.00	364.4	-2,657.9	970.6	940.6	30.00	32.359	
8,500.0	8,274.5	8,285.0	8,292.9	20.1	7.8	18.40	362.9	-2,656.3	944.2	913.8	30.36	31.103	
8,600.0	8,371.2	8,383.0	8,391.0	20.3	7.9	18.84	361.2	-2,654.8	917.8	887.1	30.71	29.885	
8,700.0	8,467.8	8,473.9	8,481.8	20.5	8.0	19.27	359.7	-2,653.4	891.6	860.5	31.08	28.685	
8,800.0	8,564.5	8,568.7	8,576.7	20.8	8.1	19.75	358.2	-2,652.5	866.0	834.5	31.45	27.539	
8,900.0	8,661.1	8,663.8	8,671.7	21.0	8.2	20.27	357.0	-2,651.5	840.4	808.6	31.81	26.421	
8,970.8	8,729.6	8,729.5	8,737.5	21.1	8.3	20.65	356.3	-2,651.0	822.5	790.5	32.06	25.657	
9,000.0	8,757.8	8,756.2	8,764.1	21.2	8.3	20.78	356.0	-2,650.8	815.3	783.2	32.16	25.355	
9,100.0	8,854.8	8,850.6	8,858.5	21.4	8.4	21.23	354.9	-2,650.7	792.0	759.5	32.51	24.363	
9,200.0	8,952.2	8,944.5	8,952.4	21.7	8.4	21.64	353.6	-2,650.8	770.5	737.7	32.85	23.459	
9,300.0	9,050.0	9,038.4	9,046.3	21.9	8.4	22.04	352.7	-2,651.4	751.4	718.2	33.16	22.657	
9,400.0	9,148.1	9,134.6	9,142.5	22.1	8.5	22.45	352.0	-2,652.3	734.1	700.6	33.46	21.939	
9,500.0	9,246.6	9,228.2	9,236.0	22.3	8.5	22.82	351.5	-2,653.6	719.0	685.3	33.75	21.303	
9,600.0	9,345.3	9,325.6	9,333.4	22.5	8.4	23.21	351.6	-2,655.2	706.0	672.0	34.02	20.757	
9,700.0	9,444.3	9,422.6	9,430.5	22.7	8.4	23.63	352.4	-2,656.8	695.0	660.7	34.27	20.278	
9,800.0	9,543.6	9,519.9	9,527.7	22.9	8.4	23.98	353.1	-2,658.8	685.8	651.3	34.52	19.868	
9,900.0	9,643.0	9,616.9	9,624.6	23.0	8.4	24.32	354.1	-2,660.9	678.5	643.8	34.76	19.520	
10,000.0	9,742.6	9,700.0	9,707.7	23.2	8.4	24.58	355.5	-2,663.6	674.1	639.0	35.08	19.217	
10,059.5	9,801.9	9,751.8	9,759.4	23.3	8.4	24.72	356.7	-2,666.1	673.3	638.1	35.26	19.099 CC, ES	
10,100.0	9,842.3	9,784.7	9,792.2	23.4	8.4	24.79	357.6	-2,668.2	673.7	638.3	35.40	19.032	
10,200.0	9,942.2	9,894.8	9,902.1	23.5	8.4	25.01	360.7	-2,675.3	675.9	640.4	35.51	19.034	
10,300.0	10,042.1	10,004.9	10,012.0	23.7	8.4	25.21	363.5	-2,680.3	677.8	642.2	35.62	19.028	
10,400.0	10,142.1	10,107.0	10,114.0	23.8	8.4	25.40	366.5	-2,683.8	680.4	644.7	35.77	19.024 SF	
10,457.9	10,200.0	10,169.1	10,176.1	23.8	8.4	-65.60	368.1	-2,685.7	682.4	646.6	35.79	19.068	
10,500.0	10,242.1	10,213.9	10,220.8	23.8	8.4	-65.58	368.9	-2,686.9	683.8	648.0	35.78	19.110	
10,600.0	10,342.1	10,315.9	10,322.8	23.9	8.4	-65.56	370.3	-2,689.5	686.6	650.8	35.82	19.170	
10,600.4	10,342.5	10,316.3	10,323.2	23.9	8.4	-65.56	370.3	-2,689.5	686.7	650.8	35.82	19.170	
10,625.0	10,367.1	10,339.6	10,346.5	23.9	8.4	114.80	370.6	-2,690.1	687.6	651.8	35.82	19.195	
10,650.0	10,392.0	10,363.2	10,370.1	23.9	8.4	114.77	371.0	-2,690.8	689.2	653.4	35.82	19.241	
10,675.0	10,416.8	10,386.6	10,393.5	23.8	8.4	114.77	371.4	-2,691.4	691.4	655.6	35.82	19.304	
10,700.0	10,441.4	10,410.0	10,416.9	23.8	8.4	114.79	371.8	-2,692.1	694.2	658.4	35.81	19.385	
10,725.0	10,465.7	10,433.3	10,440.2	23.8	8.4	114.83	372.3	-2,692.8	697.6	661.8	35.81	19.483	
10,750.0	10,489.7	10,456.2	10,463.1	23.8	8.4	114.88	372.7	-2,693.6	701.7	665.9	35.80	19.598	
10,775.0	10,513.3	10,478.8	10,485.6	23.8	8.4	114.93	373.1	-2,694.3	706.3	670.5	35.80	19.731	
10,800.0	10,536.4	10,500.9	10,507.7	23.8	8.4	114.97	373.5	-2,695.1	711.7	675.9	35.80	19.882	
10,825.0	10,558.9	10,523.9	10,530.7	23.8	8.4	115.04	374.0	-2,695.9	717.7	681.9	35.78	20.055	
10,850.0	10,580.9	10,546.3	10,553.1	23.8	8.4	115.08	374.3	-2,696.7	724.3	688.5	35.78	20.245	
10,875.0	10,602.2	10,568.0	10,574.8	23.8	8.4	115.09	374.6	-2,697.5	731.6	695.8	35.77	20.453	
10,900.0	10,622.8	10,589.1	10,595.9	23.8	8.4	115.05	374.9	-2,698.2	739.6	703.9	35.77	20.680	
10,925.0	10,642.7	10,609.4	10,616.1	23.8	8.4	114.94	375.1	-2,699.0	748.3	712.6	35.76	20.924	
10,950.0	10,661.7	10,628.8	10,635.5	23.8	8.4	114.75	375.3	-2,699.7	757.8	722.0	35.77	21.187	
10,975.0	10,679.8	10,647.3	10,654.0	23.9	8.4	114.47	375.4	-2,700.3	768.0	732.2	35.77	21.468	
11,000.0	10,697.1	10,664.8	10,671.5	23.9	8.4	114.08	375.6	-2,700.9	778.9	743.1	35.78	21.767	
11,025.0	10,713.3	10,681.3	10,688.0	23.9	8.4	113.57	375.7	-2,701.5	790.6	754.8	35.80	22.085	
11,050.0	10,728.6	10,696.8	10,703.5	23.9	8.4	112.91	375.9	-2,702.0	803.0	767.2	35.82	22.421	
11,075.0	10,742.7	10,711.2	10,717.9	23.9	8.4	112.09	376.0	-2,702.4	816.2	780.4	35.84	22.774	
11,100.0	10,755.8	10,724.4	10,731.1	24.0	8.4	111.09	376.1	-2,702.9	830.1	794.3	35.87	23.143	
11,125.0	10,767.8	10,736.4	10,743.1	24.0	8.4	109.89	376.2	-2,703.3	844.7	808.8	35.90	23.529	
11,150.0	10,778.5	10,747.3	10,753.9	24.1	8.4	108.48	376.3	-2,703.6	860.0	824.1	35.94	23.930	
11,175.0	10,788.1	10,756.9	10,763.6	24.1	8.4	106.83	376.3	-2,703.9	876.0	840.0	35.98	24.346	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO T 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design:	COLUMBUS FEDERAL PROJECT - ROJO C 7811 JV-P #1H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	100- VES GyroFlex											Offset Well Error:	3.0 usft
Reference	Vertical	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)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
11,200.0	10,796.5	10,765.3	10,771.9	24.1	8.4	104.94	376.4	-2,704.2	892.5	856.5	36.02	24.775	
11,225.0	10,803.6	10,772.4	10,779.0	24.2	8.5	102.77	376.5	-2,704.4	909.6	873.6	36.07	25.217	
11,250.0	10,809.5	10,778.2	10,784.8	24.3	8.5	100.33	376.5	-2,704.5	927.3	891.1	36.12	25.670	
11,275.0	10,814.0	10,782.6	10,789.3	24.3	8.5	97.61	376.5	-2,704.7	945.4	909.2	36.18	26.132	
11,300.0	10,817.3	10,785.8	10,792.4	24.4	8.5	94.60	376.6	-2,704.8	963.9	927.6	36.23	26.603	
11,325.0	10,819.3	10,787.6	10,794.2	24.4	8.5	91.32	376.6	-2,704.8	982.7	946.4	36.29	27.081	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design:	COLUMBUS FEDERAL PROJECT - ROJO C 7811 JV-P #1H - ST01 - AWP											Offset Site Error:	0.0 usft
Survey Program:	100- VES GyroFlex, 8819-MWD - OWSG R1											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	
8,300.0	8,081.2	8,090.9	8,099.0	19.6	7.6	17.60	366.1	-2,659.4	997.0	967.4	29.65	33.631	
8,400.0	8,177.9	8,190.3	8,198.3	19.8	7.7	18.00	364.4	-2,657.9	970.6	940.6	30.00	32.359	
8,500.0	8,274.5	8,285.0	8,292.9	20.1	7.8	18.40	362.9	-2,656.3	944.2	913.8	30.36	31.103	
8,600.0	8,371.2	8,383.0	8,391.0	20.3	7.9	18.84	361.2	-2,654.8	917.8	887.1	30.71	29.885	
8,700.0	8,467.8	8,473.9	8,481.8	20.5	8.0	19.27	359.7	-2,653.4	891.6	860.5	31.08	28.685	
8,800.0	8,564.5	8,568.7	8,576.7	20.8	8.1	19.75	358.2	-2,652.5	866.0	834.5	31.45	27.539	
8,900.0	8,661.1	8,663.8	8,671.7	21.0	8.2	20.27	357.0	-2,651.5	840.4	808.6	31.81	26.421	
8,970.8	8,729.6	8,729.5	8,737.5	21.1	8.3	20.65	356.3	-2,651.0	822.5	790.5	32.06	25.657	
9,000.0	8,757.8	8,756.2	8,764.1	21.2	8.3	20.78	356.0	-2,650.8	815.3	783.2	32.16	25.355	
9,100.0	8,854.8	8,828.8	8,836.7	21.4	8.3	21.13	355.4	-2,650.7	792.4	759.9	32.57	24.332	
9,200.0	8,952.2	8,884.9	8,892.1	21.7	8.3	21.95	363.4	-2,651.2	776.6	743.6	33.01	23.527	
9,300.0	9,050.0	8,953.0	8,957.2	21.9	8.4	23.70	383.2	-2,650.1	767.0	733.6	33.42	22.952	
9,376.8	9,125.4	8,994.0	8,995.4	22.0	8.4	24.98	398.2	-2,649.4	764.3	730.5	33.76	22.639 CC, ES	
9,400.0	9,148.1	9,008.2	9,008.5	22.1	8.4	25.43	403.7	-2,649.4	764.4	730.6	33.86	22.577	
9,500.0	9,246.6	9,057.0	9,052.4	22.3	8.5	27.12	424.9	-2,650.5	771.1	736.8	34.30	22.483 SF	
9,600.0	9,345.3	9,088.0	9,079.1	22.5	8.5	28.33	440.6	-2,652.1	787.4	752.7	34.74	22.666	
9,700.0	9,444.3	9,120.0	9,105.4	22.7	8.6	29.71	458.7	-2,654.1	813.5	778.4	35.14	23.150	
9,800.0	9,543.6	9,160.5	9,136.8	22.9	8.7	31.59	484.2	-2,656.8	848.5	813.0	35.49	23.907	
9,900.0	9,643.0	9,194.1	9,161.0	23.0	8.8	33.31	507.3	-2,658.9	891.7	855.9	35.82	24.896	
10,000.0	9,742.6	9,231.4	9,186.5	23.2	8.9	35.28	534.4	-2,661.3	942.3	906.2	36.12	26.090	
10,100.0	9,842.3	9,267.4	9,210.3	23.4	9.1	37.23	561.4	-2,664.0	998.8	962.4	36.40	27.441	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - _VALOR FEDERAL COM 502H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 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 +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	89.63	0.1	20.0	20.0				
100.0	100.0	100.0	100.0	0.8	0.8	89.63	0.1	20.0	20.0	18.0	2.04	9.795	
200.0	200.0	200.0	200.0	1.4	1.4	89.63	0.1	20.0	20.0	16.7	3.34	5.990	
300.0	300.0	300.0	300.0	1.9	1.9	89.63	0.1	20.0	20.0	15.8	4.22	4.743	
400.0	400.0	400.0	400.0	2.3	2.3	89.63	0.1	20.0	20.0	15.1	4.93	4.057	
500.0	500.0	500.0	500.0	2.6	2.6	89.63	0.1	20.0	20.0	14.5	5.55	3.604	
600.0	600.0	600.0	600.0	2.9	2.9	89.63	0.1	20.0	20.0	13.9	6.10	3.276	
700.0	700.0	700.0	700.0	3.1	3.1	89.63	0.1	20.0	20.0	13.4	6.61	3.024	
800.0	800.0	800.0	800.0	3.4	3.4	89.63	0.1	20.0	20.0	12.9	7.09	2.821 Normal Operations	
900.0	900.0	900.0	900.0	3.6	3.6	89.63	0.1	20.0	20.0	12.5	7.54	2.654 Normal Operations	
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	89.63	0.1	20.0	20.0	12.0	7.96	2.513 Normal Operations	
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	89.63	0.1	20.0	20.0	11.6	8.36	2.392 Caution - Monitor Closely	
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	89.63	0.1	20.0	20.0	11.3	8.75	2.286 Caution - Monitor Closely, CC, ES, SF	
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.4	-172.98	0.1	20.0	21.7	12.5	9.22	2.356 Caution - Monitor Closely	
1,400.0	1,399.8	1,399.8	1,399.8	4.8	4.6	-174.33	0.1	20.0	26.9	17.3	9.67	2.786 Normal Operations	
1,500.0	1,499.5	1,499.5	1,499.5	5.0	4.7	-175.70	0.1	20.0	35.6	25.5	10.10	3.526	
1,600.0	1,598.7	1,598.7	1,598.7	5.3	4.9	-176.78	0.1	20.0	47.8	37.3	10.52	4.540	
1,700.0	1,697.5	1,697.5	1,697.5	5.5	5.1	-177.56	0.1	20.0	63.4	52.5	10.93	5.799	
1,800.0	1,795.6	1,795.6	1,795.6	5.8	5.2	-178.11	0.1	20.0	82.5	71.1	11.34	7.275	
1,900.0	1,893.1	1,893.1	1,893.1	6.0	5.4	-178.51	0.1	20.0	105.0	93.2	11.73	8.948	
2,000.0	1,990.1	1,990.1	1,990.1	6.2	5.5	-178.79	0.1	20.0	129.1	117.1	12.04	10.730	
2,100.0	2,087.1	2,091.9	2,091.9	6.3	5.8	-179.10	0.2	18.5	152.0	139.5	12.41	12.240	
2,200.0	2,184.1	2,195.7	2,195.6	6.5	6.0	-179.58	0.6	13.3	171.4	158.6	12.80	13.387	
2,300.0	2,281.2	2,300.9	2,300.3	6.6	6.3	179.78	1.3	4.3	187.3	174.1	13.20	14.187	
2,400.0	2,378.2	2,407.1	2,405.7	6.8	6.5	178.98	2.3	-8.8	199.6	186.0	13.62	14.661	
2,500.0	2,475.2	2,514.1	2,511.3	7.0	6.9	178.02	3.6	-25.9	208.4	194.4	14.05	14.834	
2,600.0	2,572.3	2,621.5	2,616.6	7.2	7.2	176.85	5.2	-47.0	213.7	199.2	14.49	14.745	
2,700.0	2,669.3	2,725.8	2,718.1	7.3	7.5	175.51	7.1	-70.9	215.7	200.8	14.91	14.470	
2,800.0	2,766.3	2,825.7	2,815.2	7.5	7.8	174.21	8.9	-94.4	217.3	201.9	15.38	14.126	
2,900.0	2,863.4	2,925.5	2,912.2	7.7	8.1	172.92	10.7	-117.9	219.0	203.1	15.85	13.812	
3,000.0	2,960.3	3,025.5	3,009.3	7.9	8.4	164.18	12.5	-141.4	220.6	204.3	16.35	13.492	
3,100.0	3,057.2	3,125.4	3,106.5	8.1	8.7	156.76	14.3	-165.0	222.0	205.1	16.88	13.147	
3,135.9	3,091.8	3,161.3	3,141.3	8.1	8.8	154.46	14.9	-173.4	222.4	205.3	17.06	13.037	
3,200.0	3,153.8	3,225.4	3,203.6	8.2	9.1	155.01	16.1	-188.5	223.1	205.8	17.39	12.830	
3,300.0	3,250.4	3,325.3	3,300.7	8.4	9.4	155.86	17.9	-212.1	224.3	206.4	17.96	12.488	
3,400.0	3,347.0	3,425.3	3,397.8	8.6	9.8	156.70	19.7	-235.6	225.6	207.0	18.55	12.158	
3,500.0	3,443.6	3,525.2	3,494.9	8.8	10.2	157.53	21.5	-259.1	226.9	207.7	19.16	11.843	
3,600.0	3,540.1	3,625.1	3,592.0	9.0	10.6	158.35	23.3	-282.7	228.2	208.4	19.77	11.541	
3,700.0	3,636.7	3,725.1	3,689.1	9.2	11.0	159.16	25.1	-306.2	229.6	209.2	20.40	11.252	
3,800.0	3,733.3	3,825.0	3,786.3	9.4	11.4	159.97	26.9	-329.7	231.0	210.0	21.05	10.977	
3,900.0	3,829.9	3,925.0	3,883.4	9.6	11.8	160.76	28.7	-353.3	232.5	210.8	21.70	10.715	
4,000.0	3,926.5	4,024.9	3,980.5	9.8	12.2	161.54	30.4	-376.8	234.0	211.7	22.36	10.466	
4,100.0	4,023.1	4,124.8	4,077.6	10.0	12.6	162.31	32.2	-400.4	235.6	212.6	23.03	10.229	
4,200.0	4,119.7	4,224.8	4,174.7	10.2	13.1	163.07	34.0	-423.9	237.2	213.5	23.71	10.004	
4,300.0	4,216.3	4,324.7	4,271.8	10.4	13.5	163.82	35.8	-447.4	238.8	214.4	24.40	9.790	
4,400.0	4,312.9	4,424.6	4,368.9	10.6	13.9	164.56	37.6	-471.0	240.5	215.4	25.09	9.587	
4,500.0	4,409.5	4,524.6	4,466.0	10.8	14.4	165.29	39.4	-494.5	242.2	216.5	25.79	9.395	
4,600.0	4,506.1	4,624.5	4,563.1	11.1	14.8	166.01	41.2	-518.0	244.0	217.5	26.49	9.212	
4,700.0	4,602.7	4,724.5	4,660.2	11.3	15.3	166.72	43.0	-541.6	245.8	218.6	27.20	9.039	
4,800.0	4,699.3	4,824.4	4,757.4	11.5	15.7	167.42	44.8	-565.1	247.7	219.7	27.91	8.874	
4,900.0	4,795.8	4,924.3	4,854.5	11.7	16.2	168.11	46.6	-588.6	249.5	220.9	28.62	8.717	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - _VALOR FEDERAL COM 502H - OWB - PWP0													Offset Site Error:	3.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Rule Assigned:								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
5,000.0	4,892.4	5,024.3	4,951.6	11.9	16.6	168.79	48.4	-612.2	251.4	222.1	29.34	8.569		
5,100.0	4,989.0	5,124.2	5,048.7	12.1	17.1	169.46	50.2	-635.7	253.4	223.3	30.07	8.428		
5,200.0	5,085.6	5,224.1	5,145.8	12.4	17.5	170.11	52.0	-659.2	255.4	224.6	30.79	8.294		
5,300.0	5,182.2	5,324.1	5,242.9	12.6	18.0	170.76	53.8	-682.8	257.4	225.9	31.52	8.167		
5,400.0	5,278.8	5,424.0	5,340.0	12.8	18.4	171.40	55.6	-706.3	259.4	227.2	32.25	8.045		
5,500.0	5,375.4	5,524.0	5,437.1	13.0	18.9	172.02	57.4	-729.9	261.5	228.5	32.98	7.930		
5,600.0	5,472.0	5,623.9	5,534.2	13.2	19.4	172.64	59.2	-753.4	263.6	229.9	33.71	7.821		
5,700.0	5,568.6	5,723.8	5,631.4	13.5	19.8	173.25	61.0	-776.9	265.8	231.3	34.44	7.717		
5,800.0	5,665.2	5,823.8	5,728.5	13.7	20.3	173.85	62.8	-800.5	267.9	232.7	35.17	7.617		
5,900.0	5,761.8	5,923.7	5,825.6	13.9	20.8	174.43	64.6	-824.0	270.1	234.2	35.91	7.523		
6,000.0	5,858.4	6,023.7	5,922.7	14.1	21.2	175.01	66.4	-847.5	272.3	235.7	36.64	7.433		
6,100.0	5,955.0	6,123.6	6,019.8	14.3	21.7	175.58	68.2	-871.1	274.6	237.2	37.37	7.347		
6,175.9	6,028.3	6,199.4	6,093.5	14.5	22.0	176.01	69.6	-888.9	276.3	238.4	37.92	7.286		
6,200.0	6,051.6	6,223.5	6,116.9	14.6	22.2	177.92	70.0	-894.6	276.9	238.8	38.09	7.268		
6,300.0	6,148.2	6,323.5	6,214.0	14.8	22.6	-174.50	71.8	-918.2	279.0	240.1	38.83	7.184		
6,324.9	6,172.3	6,348.4	6,238.2	14.8	22.7	-172.72	72.3	-924.0	279.4	240.4	39.01	7.163		
6,400.0	6,244.9	6,423.5	6,311.2	15.0	23.1	-173.10	73.6	-941.7	280.9	241.3	39.56	7.101		
6,500.0	6,341.5	6,523.4	6,408.3	15.2	23.6	-173.61	75.4	-965.2	282.8	242.5	40.30	7.019		
6,600.0	6,438.2	6,623.4	6,505.4	15.4	24.0	-174.10	77.2	-988.8	284.8	243.8	41.03	6.940		
6,700.0	6,534.8	6,723.3	6,602.5	15.7	24.5	-174.59	79.0	-1,012.3	286.8	245.0	41.77	6.866		
6,800.0	6,631.5	6,820.6	6,697.2	15.9	25.0	-175.07	80.7	-1,035.0	289.0	246.5	42.48	6.804		
6,900.0	6,728.1	6,915.7	6,789.9	16.1	25.4	-175.51	82.3	-1,055.8	292.8	249.6	43.18	6.781		
7,000.0	6,824.8	7,010.6	6,882.9	16.4	25.8	-175.94	83.8	-1,075.0	298.2	254.4	43.85	6.800		
7,100.0	6,921.4	7,105.4	6,976.0	16.6	26.3	-176.35	85.1	-1,092.7	305.3	260.8	44.51	6.859		
7,200.0	7,018.1	7,200.0	7,069.2	16.8	26.7	-176.73	86.4	-1,108.8	314.1	268.9	45.14	6.957		
7,300.0	7,114.7	7,294.1	7,162.1	17.1	27.1	-177.07	87.5	-1,123.2	324.5	278.7	45.75	7.092		
7,400.0	7,211.4	7,387.9	7,255.1	17.3	27.5	-177.38	88.5	-1,136.2	336.5	290.2	46.34	7.262		
7,500.0	7,308.0	7,481.4	7,347.8	17.5	27.9	-177.66	89.3	-1,147.5	350.2	303.3	46.90	7.467		
7,600.0	7,404.7	7,574.4	7,440.3	17.7	28.3	-177.90	90.1	-1,157.3	365.5	318.1	47.44	7.705		
7,700.0	7,501.3	7,666.9	7,532.5	18.0	28.6	-178.11	90.7	-1,165.6	382.4	334.5	47.95	7.976		
7,800.0	7,598.0	7,758.9	7,624.2	18.2	29.0	-178.28	91.2	-1,172.4	400.9	352.5	48.42	8.278		
7,900.0	7,694.6	7,850.3	7,715.5	18.4	29.3	-178.43	91.6	-1,177.6	420.9	372.1	48.87	8.613		
8,000.0	7,791.3	7,941.1	7,806.2	18.7	29.6	-178.55	91.9	-1,181.4	442.5	393.3	49.28	8.980		
8,100.0	7,887.9	8,031.3	7,896.3	18.9	29.8	-178.64	92.1	-1,183.7	465.7	416.0	49.64	9.381		
8,200.0	7,984.6	8,120.7	7,985.8	19.1	30.0	-178.72	92.2	-1,184.6	490.4	440.4	49.92	9.822		
8,300.0	8,081.2	8,216.2	8,081.2	19.4	30.1	-178.78	92.2	-1,184.7	516.0	465.9	50.11	10.297		
8,400.0	8,177.9	8,312.8	8,177.9	19.6	30.1	-178.84	92.2	-1,184.7	541.7	491.3	50.32	10.765		
8,500.0	8,274.5	8,409.5	8,274.5	19.8	30.1	-178.89	92.2	-1,184.7	567.3	516.8	50.52	11.229		
8,600.0	8,371.2	8,506.1	8,371.2	20.1	30.1	-178.94	92.2	-1,184.7	593.0	542.2	50.73	11.689		
8,700.0	8,467.8	8,602.8	8,467.8	20.3	30.2	-178.98	92.2	-1,184.7	618.6	567.7	50.94	12.144		
8,800.0	8,564.5	8,699.4	8,564.5	20.5	30.2	-179.02	92.2	-1,184.7	644.3	593.1	51.15	12.596		
8,900.0	8,661.1	8,796.1	8,661.1	20.8	30.2	-179.06	92.2	-1,184.7	669.9	618.6	51.36	13.043		
8,970.8	8,729.6	8,864.6	8,729.6	20.9	30.3	-179.08	92.2	-1,184.7	688.1	636.6	51.51	13.359		
9,000.0	8,757.8	8,892.8	8,757.8	21.0	30.3	-179.10	92.2	-1,184.7	695.5	644.0	51.57	13.488		
9,100.0	8,854.8	8,989.8	8,854.8	21.2	30.3	-179.13	92.2	-1,184.7	719.9	668.1	51.78	13.902		
9,200.0	8,952.2	9,087.2	8,952.2	21.5	30.3	-179.16	92.2	-1,184.7	742.5	690.5	51.99	14.281		
9,300.0	9,050.0	9,184.9	9,050.0	21.7	30.4	-179.19	92.2	-1,184.7	763.4	711.2	52.20	14.624		
9,400.0	9,148.1	9,283.1	9,148.1	21.9	30.4	-179.21	92.2	-1,184.7	782.6	730.2	52.41	14.932		
9,500.0	9,246.6	9,381.5	9,246.6	22.1	30.4	-179.23	92.2	-1,184.7	800.1	747.5	52.62	15.206		
9,600.0	9,345.3	9,480.3	9,345.3	22.3	30.4	-179.25	92.2	-1,184.7	815.9	763.1	52.82	15.447		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - _VALOR FEDERAL COM 502H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 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 +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,700.0	9,444.3	9,579.3	9,444.3	22.5	30.5	-179.26	92.2	-1,184.7	830.0	776.9	53.02	15.654	
9,800.0	9,543.6	9,678.5	9,543.6	22.7	30.5	-179.27	92.2	-1,184.7	842.3	789.1	53.21	15.828	
9,900.0	9,643.0	9,778.0	9,643.0	22.8	30.5	-179.28	92.2	-1,184.7	852.9	799.5	53.41	15.970	
10,000.0	9,742.6	9,877.6	9,742.6	23.0	30.6	-179.29	92.2	-1,184.7	861.7	808.1	53.59	16.080	
10,100.0	9,842.3	9,977.3	9,842.3	23.2	30.6	-179.30	92.2	-1,184.7	868.8	815.1	53.77	16.158	
10,200.0	9,942.2	10,077.2	9,942.2	23.3	30.6	-179.30	92.2	-1,184.7	874.2	820.3	53.94	16.206	
10,300.0	10,042.1	10,177.1	10,042.1	23.5	30.7	-179.31	92.2	-1,184.7	877.8	823.7	54.10	16.225	
10,400.0	10,142.1	10,277.1	10,142.1	23.6	30.7	-179.31	92.2	-1,184.7	879.7	825.5	54.25	16.215	
10,457.9	10,200.0	10,335.0	10,200.0	23.6	30.7	89.62	92.2	-1,184.7	880.0	825.7	54.30	16.205	
10,500.0	10,242.1	10,377.1	10,242.1	23.6	30.7	89.62	92.2	-1,184.7	880.0	825.7	54.32	16.199	
10,600.0	10,342.1	10,477.1	10,342.1	23.7	30.8	89.62	92.2	-1,184.7	880.0	825.6	54.39	16.180	
10,600.4	10,342.5	10,477.5	10,342.5	23.7	30.8	89.62	92.2	-1,184.7	880.0	825.6	54.39	16.180	
10,625.0	10,367.1	10,502.0	10,367.1	23.7	30.8	-89.96	91.5	-1,184.6	880.0	825.6	54.39	16.180	
10,650.0	10,392.0	10,527.0	10,392.0	23.7	30.8	-89.96	89.6	-1,184.6	880.0	825.6	54.39	16.181	
10,675.0	10,416.8	10,552.0	10,416.7	23.7	30.8	-89.96	86.4	-1,184.6	880.0	825.6	54.38	16.182	
10,700.0	10,441.4	10,577.0	10,441.3	23.6	30.7	-89.96	81.8	-1,184.6	880.0	825.6	54.38	16.183	
10,725.0	10,465.7	10,601.9	10,465.6	23.6	30.7	-89.96	76.0	-1,184.5	880.0	825.6	54.37	16.184	
10,750.0	10,489.7	10,626.9	10,489.5	23.6	30.7	-89.96	69.0	-1,184.5	880.0	825.6	54.37	16.185	
10,775.0	10,513.3	10,651.9	10,513.1	23.6	30.7	-89.96	60.7	-1,184.4	880.0	825.6	54.37	16.187	
10,800.0	10,536.4	10,676.8	10,536.1	23.6	30.7	-89.96	51.1	-1,184.4	880.0	825.6	54.36	16.188	
10,825.0	10,558.9	10,701.8	10,558.7	23.6	30.7	-89.97	40.4	-1,184.3	880.0	825.6	54.36	16.190	
10,850.0	10,580.9	10,726.8	10,580.6	23.6	30.7	-89.97	28.5	-1,184.2	880.0	825.6	54.35	16.191	
10,875.0	10,602.2	10,751.8	10,602.0	23.6	30.7	-89.97	15.5	-1,184.1	880.0	825.7	54.35	16.192	
10,900.0	10,622.8	10,776.7	10,622.6	23.6	30.7	-89.97	1.4	-1,184.0	880.0	825.7	54.34	16.193	
10,925.0	10,642.7	10,801.7	10,642.4	23.6	30.7	-89.97	-13.8	-1,183.9	880.0	825.7	54.34	16.193	
10,950.0	10,661.7	10,826.7	10,661.4	23.7	30.7	-89.97	-29.9	-1,183.8	880.0	825.7	54.34	16.193	
10,975.0	10,679.8	10,851.7	10,679.6	23.7	30.7	-89.97	-47.1	-1,183.6	880.0	825.7	54.35	16.192	
11,000.0	10,697.1	10,876.6	10,696.8	23.7	30.7	-89.97	-65.2	-1,183.5	880.0	825.6	54.35	16.191	
11,025.0	10,713.3	10,901.6	10,713.0	23.7	30.7	-89.98	-84.2	-1,183.4	880.0	825.6	54.36	16.189	
11,050.0	10,728.6	10,926.6	10,728.3	23.7	30.7	-89.98	-103.9	-1,183.2	880.0	825.6	54.37	16.186	
11,075.0	10,742.7	10,951.6	10,742.5	23.8	30.7	-89.98	-124.5	-1,183.1	880.0	825.6	54.38	16.182	
11,100.0	10,755.8	10,976.6	10,755.5	23.8	30.7	-89.98	-145.8	-1,182.9	880.0	825.6	54.40	16.176	
11,125.0	10,767.8	11,001.5	10,767.5	23.8	30.7	-89.98	-167.7	-1,182.8	880.0	825.6	54.42	16.170	
11,150.0	10,778.5	11,026.5	10,778.3	23.9	30.7	-89.98	-190.2	-1,182.6	880.0	825.6	54.45	16.163	
11,175.0	10,788.1	11,051.5	10,787.9	23.9	30.7	-89.99	-213.3	-1,182.4	880.0	825.5	54.47	16.154	
11,200.0	10,796.5	11,076.5	10,796.3	24.0	30.7	-89.99	-236.8	-1,182.3	880.0	825.5	54.51	16.145	
11,225.0	10,803.6	11,101.5	10,803.4	24.0	30.7	-89.99	-260.8	-1,182.1	880.0	825.5	54.54	16.134	
11,250.0	10,809.5	11,126.5	10,809.3	24.1	30.8	-89.99	-285.1	-1,181.9	880.0	825.4	54.59	16.121	
11,275.0	10,814.0	11,151.5	10,813.9	24.1	30.8	-89.99	-309.6	-1,181.7	880.0	825.4	54.63	16.108	
11,300.0	10,817.3	11,176.5	10,817.2	24.2	30.8	-90.00	-334.4	-1,181.5	880.0	825.3	54.68	16.093	
11,325.0	10,819.3	11,201.5	10,819.3	24.3	30.8	-90.00	-359.3	-1,181.4	880.0	825.3	54.73	16.078	
11,346.9	10,820.0	11,223.4	10,819.9	24.3	30.9	-90.00	-381.2	-1,181.2	880.0	825.2	54.78	16.063	
11,350.4	10,820.0	11,226.9	10,820.0	24.3	30.9	-90.00	-384.7	-1,181.2	880.0	825.2	54.79	16.061	
11,400.0	10,820.0	11,276.5	10,820.0	24.5	30.9	-90.00	-434.3	-1,180.8	880.0	825.1	54.92	16.023	
11,500.0	10,820.0	11,376.5	10,820.0	24.8	31.1	-90.00	-534.3	-1,180.1	880.0	824.8	55.24	15.931	
11,600.0	10,820.0	11,476.5	10,820.0	25.1	31.3	-90.00	-634.3	-1,179.4	880.0	824.4	55.61	15.825	
11,700.0	10,820.0	11,576.5	10,820.0	25.5	31.5	-90.00	-734.3	-1,178.6	880.0	824.0	56.04	15.704	
11,800.0	10,820.0	11,676.5	10,820.0	25.9	31.7	-90.00	-834.3	-1,177.9	880.0	823.5	56.52	15.570	
11,900.0	10,820.0	11,776.5	10,820.0	26.2	32.0	-90.00	-934.3	-1,177.2	880.0	822.9	57.05	15.424	
12,000.0	10,820.0	11,876.5	10,820.0	26.6	32.3	-90.00	-1,034.3	-1,176.4	880.0	822.4	57.64	15.267	
12,100.0	10,820.0	11,976.5	10,820.0	27.1	32.6	-90.00	-1,134.3	-1,175.7	880.0	821.7	58.28	15.100	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - _VALOR FEDERAL COM 502H - OWB - PWP0													Offset Site Error:	3.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 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 Between Centres (usft)		Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
12,200.0	10,820.0	12,076.5	10,820.0	27.5	33.0	-90.00	-1,234.3	-1,175.0	880.0	821.0	58.97	14.924		
12,300.0	10,820.0	12,176.5	10,820.0	27.9	33.4	-90.00	-1,334.3	-1,174.2	880.0	820.3	59.70	14.740		
12,400.0	10,820.0	12,276.5	10,820.0	28.4	33.8	-90.00	-1,434.3	-1,173.5	880.0	819.5	60.48	14.551		
12,500.0	10,820.0	12,376.5	10,820.0	28.8	34.2	-90.00	-1,534.3	-1,172.8	880.0	818.7	61.30	14.356		
12,600.0	10,820.0	12,476.5	10,820.0	29.3	34.6	-90.00	-1,634.3	-1,172.1	880.0	817.8	62.16	14.156		
12,700.0	10,820.0	12,576.5	10,820.0	29.8	35.1	-90.00	-1,734.3	-1,171.3	880.0	816.9	63.07	13.954		
12,800.0	10,820.0	12,676.5	10,820.0	30.3	35.6	-90.00	-1,834.3	-1,170.6	880.0	816.0	64.01	13.748		
12,900.0	10,820.0	12,776.5	10,820.0	30.9	36.1	-90.00	-1,934.3	-1,169.9	880.0	815.0	64.99	13.541		
13,000.0	10,820.0	12,876.5	10,820.0	31.4	36.6	-90.00	-2,034.3	-1,169.1	880.0	814.0	66.00	13.333		
13,100.0	10,820.0	12,976.5	10,820.0	31.9	37.1	-90.00	-2,134.3	-1,168.4	880.0	813.0	67.05	13.125		
13,200.0	10,820.0	13,076.5	10,820.0	32.5	37.7	-90.00	-2,234.3	-1,167.7	880.0	811.9	68.12	12.917		
13,300.0	10,820.0	13,176.5	10,820.0	33.1	38.3	-90.00	-2,334.3	-1,167.0	880.0	810.8	69.23	12.711		
13,400.0	10,820.0	13,276.5	10,820.0	33.6	38.9	-90.00	-2,434.2	-1,166.2	880.0	809.6	70.37	12.505		
13,500.0	10,820.0	13,376.5	10,820.0	34.2	39.5	-90.00	-2,534.2	-1,165.5	880.0	808.5	71.54	12.302		
13,600.0	10,820.0	13,476.5	10,820.0	34.8	40.1	-90.00	-2,634.2	-1,164.8	880.0	807.3	72.73	12.100		
13,700.0	10,820.0	13,576.5	10,820.0	35.4	40.7	-90.00	-2,734.2	-1,164.0	880.0	806.1	73.94	11.901		
13,800.0	10,820.0	13,676.5	10,820.0	36.0	41.4	-90.00	-2,834.2	-1,163.3	880.0	804.8	75.18	11.705		
13,900.0	10,820.0	13,776.5	10,820.0	36.6	42.0	-90.00	-2,934.2	-1,162.6	880.0	803.6	76.44	11.512		
14,000.0	10,820.0	13,876.5	10,820.0	37.3	42.7	-90.00	-3,034.2	-1,161.8	880.0	802.3	77.73	11.321		
14,100.0	10,820.0	13,976.5	10,820.0	37.9	43.4	-90.00	-3,134.2	-1,161.1	880.0	801.0	79.03	11.135		
14,200.0	10,820.0	14,076.5	10,820.0	38.6	44.0	-90.00	-3,234.2	-1,160.4	880.0	799.6	80.36	10.951		
14,300.0	10,820.0	14,176.5	10,820.0	39.2	44.7	-90.00	-3,334.2	-1,159.7	880.0	798.3	81.70	10.771		
14,400.0	10,820.0	14,276.5	10,820.0	39.9	45.5	-90.00	-3,434.2	-1,158.9	880.0	796.9	83.06	10.595		
14,500.0	10,820.0	14,376.5	10,820.0	40.5	46.2	-90.00	-3,534.2	-1,158.2	880.0	795.6	84.43	10.423		
14,600.0	10,820.0	14,476.5	10,820.0	41.2	46.9	-90.00	-3,634.2	-1,157.5	880.0	794.2	85.82	10.253		
14,700.0	10,820.0	14,576.5	10,820.0	41.9	47.6	-90.00	-3,734.2	-1,156.7	880.0	792.8	87.23	10.088		
14,800.0	10,820.0	14,676.5	10,820.0	42.6	48.4	-90.00	-3,834.2	-1,156.0	880.0	791.3	88.65	9.926		
14,900.0	10,820.0	14,776.5	10,820.0	43.2	49.1	-90.00	-3,934.2	-1,155.3	880.0	789.9	90.09	9.768		
15,000.0	10,820.0	14,876.5	10,820.0	43.9	49.9	-90.00	-4,034.2	-1,154.5	880.0	788.5	91.54	9.614		
15,100.0	10,820.0	14,976.5	10,820.0	44.6	50.6	-90.00	-4,134.2	-1,153.8	880.0	787.0	93.00	9.463		
15,200.0	10,820.0	15,076.5	10,820.0	45.3	51.4	-90.00	-4,234.2	-1,153.1	880.0	785.5	94.47	9.315		
15,300.0	10,820.0	15,176.5	10,820.0	46.1	52.2	-90.00	-4,334.2	-1,152.4	880.0	784.0	95.95	9.171		
15,400.0	10,820.0	15,276.5	10,820.0	46.8	53.0	-90.00	-4,434.2	-1,151.6	880.0	782.6	97.45	9.031		
15,500.0	10,820.0	15,376.5	10,820.0	47.5	53.8	-90.00	-4,534.2	-1,150.9	880.0	781.0	98.95	8.893		
15,600.0	10,820.0	15,476.5	10,820.0	48.2	54.6	-90.00	-4,634.2	-1,150.2	880.0	779.5	100.46	8.759		
15,700.0	10,820.0	15,576.5	10,820.0	48.9	55.4	-90.00	-4,734.2	-1,149.4	880.0	778.0	101.99	8.628		
15,800.0	10,820.0	15,676.5	10,820.0	49.7	56.2	-90.00	-4,834.2	-1,148.7	880.0	776.5	103.52	8.501		
15,900.0	10,820.0	15,776.5	10,820.0	50.4	57.0	-90.00	-4,934.2	-1,148.0	880.0	774.9	105.06	8.376		
16,000.0	10,820.0	15,876.5	10,820.0	51.1	57.8	-90.00	-5,034.2	-1,147.3	880.0	773.4	106.61	8.254		
16,100.0	10,820.0	15,976.5	10,820.0	51.9	58.6	-90.00	-5,134.2	-1,146.5	880.0	771.8	108.17	8.135		
16,200.0	10,820.0	16,076.5	10,820.0	52.6	59.4	-90.00	-5,234.2	-1,145.8	880.0	770.3	109.73	8.019		
16,300.0	10,820.0	16,176.5	10,820.0	53.4	60.3	-90.00	-5,334.2	-1,145.1	880.0	768.7	111.31	7.906		
16,400.0	10,820.0	16,276.5	10,820.0	54.1	61.1	-90.00	-5,434.2	-1,144.3	880.0	767.1	112.89	7.796		
16,500.0	10,820.0	16,376.5	10,820.0	54.9	61.9	-90.00	-5,534.2	-1,143.6	880.0	765.5	114.47	7.688		
16,600.0	10,820.0	16,476.5	10,820.0	55.6	62.8	-90.00	-5,634.2	-1,142.9	880.0	763.9	116.06	7.582		
16,700.0	10,820.0	16,576.5	10,820.0	56.4	63.6	-90.00	-5,734.2	-1,142.1	880.0	762.3	117.66	7.479		
16,800.0	10,820.0	16,676.5	10,820.0	57.2	64.5	-90.00	-5,834.2	-1,141.4	880.0	760.7	119.26	7.379		
16,900.0	10,820.0	16,776.5	10,820.0	57.9	65.3	-90.00	-5,934.2	-1,140.7	880.0	759.1	120.87	7.280		
17,000.0	10,820.0	16,876.5	10,820.0	58.7	66.2	-90.00	-6,034.2	-1,140.0	880.0	757.5	122.49	7.184		
17,100.0	10,820.0	16,976.5	10,820.0	59.5	67.0	-90.00	-6,134.2	-1,139.2	880.0	755.9	124.11	7.091		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - _VALOR FEDERAL COM 502H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 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	
17,200.0	10,820.0	17,076.5	10,820.0	60.2	67.9	-90.00	-6,234.1	-1,138.5	880.0	754.3	125.73	6.999	
17,300.0	10,820.0	17,176.5	10,820.0	61.0	68.7	-90.00	-6,334.1	-1,137.8	880.0	752.6	127.36	6.909	
17,400.0	10,820.0	17,276.5	10,820.0	61.8	69.6	-90.00	-6,434.1	-1,137.0	880.0	751.0	129.00	6.822	
17,500.0	10,820.0	17,376.5	10,820.0	62.6	70.5	-90.00	-6,534.1	-1,136.3	880.0	749.4	130.64	6.736	
17,600.0	10,820.0	17,476.5	10,820.0	63.3	71.3	-90.00	-6,634.1	-1,135.6	880.0	747.7	132.28	6.653	
17,700.0	10,820.0	17,576.5	10,820.0	64.1	72.2	-90.00	-6,734.1	-1,134.8	880.0	746.1	133.93	6.571	
17,800.0	10,820.0	17,676.5	10,820.0	64.9	73.1	-90.00	-6,834.1	-1,134.1	880.0	744.4	135.58	6.491	
17,900.0	10,820.0	17,776.5	10,820.0	65.7	74.0	-90.00	-6,934.1	-1,133.4	880.0	742.8	137.23	6.413	
18,000.0	10,820.0	17,876.5	10,820.0	66.5	74.8	-90.00	-7,034.1	-1,132.7	880.0	741.1	138.89	6.336	
18,100.0	10,820.0	17,976.5	10,820.0	67.3	75.7	-90.00	-7,134.1	-1,131.9	880.0	739.4	140.55	6.261	
18,200.0	10,820.0	18,076.5	10,820.0	68.1	76.6	-90.00	-7,234.1	-1,131.2	880.0	737.8	142.22	6.188	
18,300.0	10,820.0	18,176.5	10,820.0	68.9	77.5	-90.00	-7,334.1	-1,130.5	880.0	736.1	143.89	6.116	
18,400.0	10,820.0	18,276.5	10,820.0	69.6	78.4	-90.00	-7,434.1	-1,129.7	880.0	734.4	145.56	6.046	
18,500.0	10,820.0	18,376.5	10,820.0	70.4	79.3	-90.00	-7,534.1	-1,129.0	880.0	732.8	147.23	5.977	
18,600.0	10,820.0	18,476.5	10,820.0	71.2	80.2	-90.00	-7,634.1	-1,128.3	880.0	731.1	148.91	5.910	
18,642.7	10,820.0	18,519.2	10,820.0	71.6	80.5	-90.00	-7,676.8	-1,128.0	880.0	730.4	149.63	5.881	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - _VALOR FEDERAL COM 503H - OWB - PWP0													Offset Site Error:	3.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	No-Go	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Distance (usft)	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.61	0.3	40.0	40.0					
100.0	100.0	100.0	100.0	0.8	0.8	89.61	0.3	40.0	40.0	38.0	2.04	19.591		
200.0	200.0	200.0	200.0	1.4	1.4	89.61	0.3	40.0	40.0	36.7	3.34	11.980		
300.0	300.0	300.0	300.0	1.9	1.9	89.61	0.3	40.0	40.0	35.8	4.22	9.487		
400.0	400.0	400.0	400.0	2.3	2.3	89.61	0.3	40.0	40.0	35.1	4.93	8.114		
500.0	500.0	500.0	500.0	2.6	2.6	89.61	0.3	40.0	40.0	34.5	5.55	7.209		
600.0	600.0	600.0	600.0	2.9	2.9	89.61	0.3	40.0	40.0	33.9	6.10	6.553		
700.0	700.0	700.0	700.0	3.1	3.1	89.61	0.3	40.0	40.0	33.4	6.61	6.048		
800.0	800.0	800.0	800.0	3.4	3.4	89.61	0.3	40.0	40.0	32.9	7.09	5.643		
900.0	900.0	900.0	900.0	3.6	3.6	89.61	0.3	40.0	40.0	32.5	7.54	5.308		
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	89.61	0.3	40.0	40.0	32.0	7.96	5.026		
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	89.61	0.3	40.0	40.0	31.6	8.36	4.784		
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	89.61	0.3	40.0	40.0	31.3	8.75	4.572 CC, ES		
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.4	-172.70	0.3	40.0	41.7	32.5	9.22	4.525 SF		
1,400.0	1,399.8	1,399.8	1,399.8	4.8	4.6	-173.50	0.3	40.0	46.9	37.3	9.67	4.854		
1,500.0	1,499.5	1,499.5	1,499.5	5.0	4.7	-174.50	0.3	40.0	55.6	45.5	10.10	5.504		
1,600.0	1,598.7	1,598.7	1,598.7	5.3	4.9	-175.47	0.3	40.0	67.7	57.2	10.52	6.438		
1,700.0	1,697.5	1,697.5	1,697.5	5.5	5.1	-176.30	0.3	40.0	83.3	72.4	10.93	7.623		
1,800.0	1,795.6	1,795.6	1,795.6	5.8	5.2	-176.97	0.3	40.0	102.4	91.1	11.33	9.033		
1,900.0	1,893.1	1,893.1	1,893.1	6.0	5.4	-177.49	0.3	40.0	124.9	113.1	11.73	10.646		
2,000.0	1,990.1	1,990.1	1,990.1	6.2	5.5	-177.90	0.3	40.0	149.0	137.0	12.03	12.384		
2,100.0	2,087.1	2,092.3	2,092.2	6.3	5.8	-178.40	0.7	38.6	171.9	159.5	12.41	13.854		
2,200.0	2,184.1	2,196.4	2,196.2	6.5	6.0	-179.22	2.1	33.5	191.6	178.8	12.78	14.993		
2,300.0	2,281.2	2,301.7	2,301.1	6.6	6.2	179.69	4.6	24.7	208.0	194.8	13.14	15.827		
2,400.0	2,378.2	2,408.0	2,406.6	6.8	6.4	178.33	8.2	12.1	221.1	207.6	13.48	16.398		
2,500.0	2,475.2	2,509.0	2,506.5	7.0	6.5	176.89	12.3	-2.5	232.0	218.3	13.74	16.890		
2,600.0	2,572.3	2,608.3	2,604.6	7.2	6.7	175.59	16.4	-16.9	242.9	228.9	14.05	17.295		
2,700.0	2,669.3	2,707.5	2,702.7	7.3	6.8	174.40	20.5	-31.3	253.9	239.6	14.36	17.684		
2,800.0	2,766.3	2,806.8	2,800.9	7.5	7.0	173.31	24.6	-45.7	265.1	250.4	14.68	18.059		
2,900.0	2,863.4	2,906.0	2,899.0	7.7	7.1	172.31	28.6	-60.1	276.3	261.3	15.00	18.420		
3,000.0	2,960.3	3,005.4	2,997.2	7.9	7.2	163.62	32.7	-74.5	287.4	272.1	15.33	18.745		
3,100.0	3,057.2	3,104.8	3,095.4	8.1	7.4	156.06	36.8	-88.9	298.3	282.6	15.68	19.021		
3,135.9	3,091.8	3,140.4	3,130.7	8.1	7.5	153.65	38.3	-94.1	302.1	286.3	15.78	19.142		
3,200.0	3,153.8	3,204.2	3,193.7	8.2	7.6	154.09	40.9	-103.3	308.9	292.9	15.98	19.333		
3,300.0	3,250.4	3,303.5	3,291.9	8.4	7.7	154.73	45.0	-117.7	319.5	303.1	16.32	19.571		
3,400.0	3,347.0	3,402.9	3,390.2	8.6	7.9	155.33	49.1	-132.2	330.1	313.4	16.67	19.798		
3,500.0	3,443.6	3,502.3	3,488.4	8.8	8.0	155.89	53.2	-146.6	340.8	323.7	17.03	20.015		
3,600.0	3,540.1	3,601.7	3,586.6	9.0	8.2	156.42	57.3	-161.0	351.5	334.1	17.38	20.220		
3,700.0	3,636.7	3,701.0	3,684.9	9.2	8.3	156.92	61.3	-175.4	362.2	344.5	17.74	20.416		
3,800.0	3,733.3	3,800.4	3,783.1	9.4	8.5	157.39	65.4	-189.8	373.0	354.9	18.10	20.602		
3,900.0	3,829.9	3,899.8	3,881.4	9.6	8.7	157.83	69.5	-204.3	383.8	365.3	18.47	20.780		
4,000.0	3,926.5	3,999.2	3,979.6	9.8	8.8	158.25	73.6	-218.7	394.6	375.7	18.83	20.949		
4,100.0	4,023.1	4,098.5	4,077.8	10.0	9.0	158.65	77.7	-233.1	405.4	386.2	19.20	21.110		
4,200.0	4,119.7	4,195.4	4,173.6	10.2	9.1	159.02	81.7	-247.0	416.4	396.8	19.53	21.318		
4,300.0	4,216.3	4,288.4	4,265.8	10.4	9.3	159.44	85.1	-259.2	428.5	408.6	19.89	21.546		
4,400.0	4,312.9	4,381.1	4,357.7	10.6	9.4	159.91	88.1	-269.9	442.2	421.9	20.25	21.841		
4,500.0	4,409.5	4,473.3	4,449.4	10.8	9.6	160.44	90.8	-279.2	457.3	436.7	20.60	22.201		
4,600.0	4,506.1	4,565.0	4,540.8	11.1	9.8	161.00	93.0	-286.9	474.0	453.0	20.95	22.626		
4,700.0	4,602.7	4,656.1	4,631.7	11.3	9.9	161.60	94.8	-293.3	492.1	470.8	21.29	23.112		
4,800.0	4,699.3	4,746.7	4,722.1	11.5	10.0	162.21	96.2	-298.2	511.7	490.1	21.63	23.659		
4,900.0	4,795.8	4,836.7	4,812.0	11.7	10.2	162.84	97.2	-301.7	532.8	510.8	21.96	24.265		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - _VALOR FEDERAL COM 503H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR												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)			
5,000.0	4,892.4	4,926.0	4,901.3	11.9	10.3	163.48	97.8	-303.9	555.4	533.1	22.28	24.930	
5,100.0	4,989.0	5,014.7	4,990.0	12.1	10.4	164.11	98.0	-304.7	579.4	556.8	22.58	25.665	
5,200.0	5,085.6	5,110.3	5,085.6	12.4	10.5	164.78	98.0	-304.7	604.4	581.5	22.87	26.429	
5,300.0	5,182.2	5,206.9	5,182.2	12.6	10.6	165.39	98.0	-304.7	629.5	606.3	23.18	27.152	
5,400.0	5,278.8	5,303.5	5,278.8	12.8	10.6	165.96	98.0	-304.7	654.6	631.1	23.50	27.857	
5,500.0	5,375.4	5,400.1	5,375.4	13.0	10.7	166.49	98.0	-304.7	679.8	656.0	23.81	28.547	
5,600.0	5,472.0	5,496.7	5,472.0	13.2	10.8	166.98	98.0	-304.7	705.0	680.9	24.13	29.220	
5,700.0	5,568.6	5,593.3	5,568.6	13.5	10.9	167.44	98.0	-304.7	730.3	705.9	24.44	29.876	
5,800.0	5,665.2	5,689.9	5,665.2	13.7	11.0	167.87	98.0	-304.7	755.6	730.9	24.76	30.518	
5,900.0	5,761.8	5,786.5	5,761.8	13.9	11.1	168.26	98.0	-304.7	781.0	755.9	25.08	31.143	
6,000.0	5,858.4	5,883.0	5,858.4	14.1	11.2	168.64	98.0	-304.7	806.4	781.0	25.39	31.754	
6,100.0	5,955.0	5,979.6	5,955.0	14.3	11.2	168.99	98.0	-304.7	831.8	806.1	25.71	32.350	
6,175.9	6,028.3	6,052.9	6,028.3	14.5	11.3	169.24	98.0	-304.7	851.1	825.2	25.94	32.808	
6,200.0	6,051.6	6,076.2	6,051.6	14.6	11.3	171.23	98.0	-304.7	857.2	831.2	26.01	32.960	
6,300.0	6,148.2	6,172.9	6,148.2	14.8	11.4	179.41	98.0	-304.7	882.8	856.5	26.33	33.528	
6,324.9	6,172.3	6,196.9	6,172.3	14.8	11.4	-178.58	98.0	-304.7	889.2	862.8	26.40	33.682	
6,400.0	6,244.9	6,269.5	6,244.9	15.0	11.5	-178.61	98.0	-304.7	908.5	881.8	26.63	34.118	
6,500.0	6,341.5	6,366.2	6,341.5	15.2	11.6	-178.65	98.0	-304.7	934.1	907.2	26.94	34.669	
6,600.0	6,438.2	6,462.8	6,438.2	15.4	11.7	-178.69	98.0	-304.7	959.8	932.5	27.26	35.206	
6,700.0	6,534.8	6,559.5	6,534.8	15.7	11.7	-178.72	98.0	-304.7	985.4	957.9	27.58	35.730	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - _VALOR FEDERAL COM 504H - OWB - PWP0													Offset Site Error:	3.0 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)				
0.0	0.0	0.0	0.0	0.0	0.0	89.63	0.4	60.0	60.0					
100.0	100.0	100.0	100.0	0.8	0.8	89.63	0.4	60.0	60.0	58.0	2.04	29.386		
200.0	200.0	200.0	200.0	1.4	1.4	89.63	0.4	60.0	60.0	56.7	3.34	17.970		
300.0	300.0	300.0	300.0	1.9	1.9	89.63	0.4	60.0	60.0	55.8	4.22	14.230		
400.0	400.0	400.0	400.0	2.3	2.3	89.63	0.4	60.0	60.0	55.1	4.93	12.171		
500.0	500.0	500.0	500.0	2.6	2.6	89.63	0.4	60.0	60.0	54.5	5.55	10.813		
600.0	600.0	600.0	600.0	2.9	2.9	89.63	0.4	60.0	60.0	53.9	6.10	9.829		
700.0	700.0	700.0	700.0	3.1	3.1	89.63	0.4	60.0	60.0	53.4	6.61	9.071		
800.0	800.0	800.0	800.0	3.4	3.4	89.63	0.4	60.0	60.0	52.9	7.09	8.464		
900.0	900.0	900.0	900.0	3.6	3.6	89.63	0.4	60.0	60.0	52.5	7.54	7.963		
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	89.63	0.4	60.0	60.0	52.0	7.96	7.539		
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	89.63	0.4	60.0	60.0	51.6	8.36	7.175		
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	89.63	0.4	60.0	60.0	51.3	8.75	6.858 CC, ES		
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.4	-172.58	0.4	60.0	61.7	52.5	9.22	6.694 SF		
1,400.0	1,399.8	1,399.8	1,399.8	4.8	4.6	-173.15	0.4	60.0	66.9	57.3	9.67	6.922		
1,500.0	1,499.5	1,499.5	1,499.5	5.0	4.7	-173.92	0.4	60.0	75.6	65.5	10.10	7.484		
1,600.0	1,598.7	1,598.7	1,598.7	5.3	4.9	-174.74	0.4	60.0	87.7	77.2	10.52	8.337		
1,700.0	1,697.5	1,697.5	1,697.5	5.5	5.1	-175.51	0.4	60.0	103.3	92.4	10.93	9.450		
1,800.0	1,795.6	1,795.6	1,795.6	5.8	5.2	-176.18	0.4	60.0	122.3	111.0	11.33	10.794		
1,900.0	1,893.1	1,893.1	1,893.1	6.0	5.4	-176.75	0.4	60.0	144.8	133.1	11.73	12.346		
2,000.0	1,990.1	1,990.1	1,990.1	6.2	5.5	-177.22	0.4	60.0	168.9	156.9	12.03	14.039		
2,100.0	2,087.1	2,081.6	2,081.6	6.3	5.7	-177.58	0.6	61.1	194.4	182.0	12.38	15.700		
2,200.0	2,184.1	2,171.0	2,170.9	6.5	6.0	-177.93	1.4	65.0	222.8	210.0	12.72	17.515		
2,300.0	2,281.2	2,258.7	2,258.3	6.6	6.2	-178.26	2.7	71.4	254.1	241.1	13.06	19.465		
2,400.0	2,378.2	2,344.5	2,343.7	6.8	6.4	-178.56	4.4	80.3	288.3	274.9	13.39	21.530		
2,500.0	2,475.2	2,428.5	2,426.9	7.0	6.6	-178.83	6.6	91.4	325.3	311.6	13.70	23.750		
2,600.0	2,572.3	2,517.7	2,515.0	7.2	6.7	-179.09	9.4	105.1	364.3	350.3	14.00	26.027		
2,700.0	2,669.3	2,609.7	2,605.8	7.3	7.0	-179.30	12.2	119.3	403.5	389.1	14.39	28.049		
2,800.0	2,766.3	2,701.7	2,696.7	7.5	7.2	-179.48	15.0	133.5	442.7	427.9	14.79	29.926		
2,900.0	2,863.4	2,793.7	2,787.5	7.7	7.4	-179.63	17.9	147.7	481.8	466.6	15.22	31.664		
3,000.0	2,960.3	2,885.6	2,878.3	7.9	7.7	171.71	20.7	162.0	521.1	505.4	15.66	33.276		
3,100.0	3,057.2	2,977.5	2,969.0	8.1	8.0	163.82	23.5	176.2	560.5	544.4	16.12	34.777		
3,135.9	3,091.8	3,010.3	3,001.5	8.1	8.1	161.21	24.5	181.2	574.7	558.4	16.26	35.337		
3,200.0	3,153.8	3,069.1	3,059.5	8.2	8.3	161.66	26.3	190.3	600.1	583.5	16.54	36.277		
3,300.0	3,250.4	3,160.7	3,149.9	8.4	8.6	162.28	29.2	204.5	639.7	622.7	17.02	37.592		
3,400.0	3,347.0	3,252.3	3,240.4	8.6	8.9	162.82	32.0	218.7	679.4	661.9	17.50	38.815		
3,500.0	3,443.6	3,343.8	3,330.8	8.8	9.2	163.31	34.8	232.8	719.2	701.2	18.00	39.951		
3,600.0	3,540.1	3,435.4	3,421.3	9.0	9.5	163.75	37.6	247.0	759.0	740.5	18.51	41.008		
3,700.0	3,636.7	3,527.0	3,511.7	9.2	9.8	164.14	40.4	261.1	798.8	779.8	19.02	41.991		
3,800.0	3,733.3	3,618.6	3,602.2	9.4	10.2	164.50	43.3	275.3	838.7	819.1	19.55	42.907		
3,900.0	3,829.9	3,710.2	3,692.6	9.6	10.5	164.82	46.1	289.5	878.5	858.5	20.08	43.761		
4,000.0	3,926.5	3,801.8	3,783.1	9.8	10.8	165.12	48.9	303.6	918.4	897.8	20.61	44.557		
4,100.0	4,023.1	3,893.4	3,873.5	10.0	11.2	165.39	51.7	317.8	958.4	937.2	21.16	45.300		
4,200.0	4,119.7	3,985.0	3,964.0	10.2	11.5	165.64	54.5	332.0	998.3	976.6	21.70	45.994		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - _VALOR FEDERAL COM 505H - OWB - PWP0													Offset Site Error:	3.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Rule Assigned:								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	89.62	0.5	80.0	80.0					
100.0	100.0	100.0	100.0	0.8	0.8	89.62	0.5	80.0	80.0	78.0	2.04	39.182		
200.0	200.0	200.0	200.0	1.4	1.4	89.62	0.5	80.0	80.0	76.7	3.34	23.960		
300.0	300.0	300.0	300.0	1.9	1.9	89.62	0.5	80.0	80.0	75.8	4.22	18.973		
400.0	400.0	400.0	400.0	2.3	2.3	89.62	0.5	80.0	80.0	75.1	4.93	16.228		
500.0	500.0	500.0	500.0	2.6	2.6	89.62	0.5	80.0	80.0	74.5	5.55	14.418		
600.0	600.0	600.0	600.0	2.9	2.9	89.62	0.5	80.0	80.0	73.9	6.10	13.105		
700.0	700.0	700.0	700.0	3.1	3.1	89.62	0.5	80.0	80.0	73.4	6.61	12.095		
800.0	800.0	800.0	800.0	3.4	3.4	89.62	0.5	80.0	80.0	72.9	7.09	11.285		
900.0	900.0	900.0	900.0	3.6	3.6	89.62	0.5	80.0	80.0	72.5	7.54	10.617		
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	89.62	0.5	80.0	80.0	72.0	7.96	10.052		
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	89.62	0.5	80.0	80.0	71.6	8.36	9.567		
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	89.62	0.5	80.0	80.0	71.3	8.75	9.144 CC, ES		
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.4	-172.54	0.5	80.0	81.7	72.5	9.22	8.863 SF		
1,400.0	1,399.8	1,399.8	1,399.8	4.8	4.6	-172.97	0.5	80.0	86.9	77.3	9.67	8.991		
1,500.0	1,499.5	1,499.5	1,499.5	5.0	4.7	-173.59	0.5	80.0	95.6	85.5	10.10	9.464		
1,600.0	1,598.7	1,598.7	1,598.7	5.3	4.9	-174.29	0.5	80.0	107.7	97.2	10.52	10.237		
1,700.0	1,697.5	1,697.5	1,697.5	5.5	5.1	-174.99	0.5	80.0	123.3	112.3	10.93	11.277		
1,800.0	1,795.6	1,795.6	1,795.6	5.8	5.2	-175.63	0.5	80.0	142.3	131.0	11.33	12.556		
1,900.0	1,893.1	1,893.1	1,893.1	6.0	5.4	-176.19	0.5	80.0	164.7	153.0	11.73	14.048		
2,000.0	1,990.1	1,990.1	1,990.1	6.2	5.5	-176.68	0.5	80.0	188.9	176.8	12.03	15.696		
2,100.0	2,087.1	2,081.1	2,081.1	6.3	5.7	-177.01	0.5	81.1	214.3	201.9	12.38	17.314		
2,200.0	2,184.1	2,169.9	2,169.8	6.5	5.9	-177.20	0.5	85.0	242.6	229.9	12.70	19.106		
2,300.0	2,281.2	2,257.1	2,256.7	6.6	6.1	-177.30	0.5	91.5	273.9	260.9	13.01	21.056		
2,400.0	2,378.2	2,342.4	2,341.6	6.8	6.3	-177.32	0.5	100.4	308.1	294.8	13.31	23.150		
2,500.0	2,475.2	2,425.9	2,424.4	7.0	6.5	-177.30	0.5	111.6	344.9	331.3	13.59	25.374		
2,600.0	2,572.3	2,508.5	2,505.8	7.2	6.6	-177.25	0.5	125.0	384.5	370.6	13.87	27.714		
2,700.0	2,669.3	2,599.9	2,595.8	7.3	6.8	-177.18	0.5	140.9	425.0	410.9	14.16	30.011		
2,800.0	2,766.3	2,691.2	2,685.8	7.5	6.9	-177.13	0.5	156.7	465.6	451.2	14.46	32.203		
2,900.0	2,863.4	2,782.6	2,775.8	7.7	7.0	-177.09	0.5	172.6	506.2	491.4	14.76	34.295		
3,000.0	2,960.3	2,873.9	2,865.7	7.9	7.1	174.36	0.5	188.5	546.9	531.9	15.07	36.299		
3,100.0	3,057.2	2,965.0	2,955.4	8.1	7.3	166.56	0.5	204.3	588.0	572.6	15.38	38.229		
3,135.9	3,091.8	2,997.5	2,987.4	8.1	7.3	163.96	0.5	209.9	602.8	587.4	15.47	38.959		
3,200.0	3,153.8	3,055.7	3,044.7	8.2	7.4	164.46	0.5	220.0	629.4	613.7	15.65	40.209		
3,300.0	3,250.4	3,146.4	3,134.0	8.4	7.5	165.16	0.5	235.8	670.9	654.9	15.97	42.009		
3,400.0	3,347.0	3,237.1	3,223.4	8.6	7.7	165.78	0.5	251.5	712.4	696.1	16.29	43.732		
3,500.0	3,443.6	3,327.8	3,312.7	8.8	7.8	166.33	0.5	267.3	754.0	737.4	16.61	45.382		
3,600.0	3,540.1	3,418.5	3,402.0	9.0	8.0	166.82	0.5	283.0	795.7	778.7	16.94	46.962		
3,700.0	3,636.7	3,509.2	3,491.4	9.2	8.1	167.26	0.5	298.8	837.4	820.1	17.27	48.475		
3,800.0	3,733.3	3,599.9	3,580.7	9.4	8.2	167.66	0.5	314.5	879.1	861.5	17.61	49.923		
3,900.0	3,829.9	3,690.6	3,670.0	9.6	8.4	168.03	0.5	330.3	920.9	902.9	17.95	51.309		
4,000.0	3,926.5	3,781.3	3,759.3	9.8	8.5	168.36	0.5	346.0	962.7	944.4	18.29	52.637		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - _VALOR FEDERAL COM 506H - OWB - PWP0													Offset Site Error:	3.0 usft	
Survey Program:		0-r.5 MWD+IFR1+SAG+FDIR					Rule Assigned:							Offset Well Error:	0.0 usft
Measured Depth	Reference Depth	Offset Depth	Vertical Depth	Semi Major Axis	Offset	Highside Toolface	Offset Wellbore Centre		Distance		No-Go Distance	Separation Factor	Warning		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)				
0.0	0.0	0.0	0.0	0.0	0.0	89.63	0.6	99.9	99.9						
100.0	100.0	100.0	100.0	0.8	0.8	89.63	0.6	99.9	99.9	97.9	2.04	48.948			
200.0	200.0	200.0	200.0	1.4	1.4	89.63	0.6	99.9	99.9	96.6	3.34	29.931			
300.0	300.0	300.0	300.0	1.9	1.9	89.63	0.6	99.9	99.9	95.7	4.22	23.703			
400.0	400.0	400.0	400.0	2.3	2.3	89.63	0.6	99.9	99.9	95.0	4.93	20.273			
500.0	500.0	500.0	500.0	2.6	2.6	89.63	0.6	99.9	99.9	94.4	5.55	18.012			
600.0	600.0	600.0	600.0	2.9	2.9	89.63	0.6	99.9	99.9	93.8	6.10	16.372			
700.0	700.0	700.0	700.0	3.1	3.1	89.63	0.6	99.9	99.9	93.3	6.61	15.110			
800.0	800.0	800.0	800.0	3.4	3.4	89.63	0.6	99.9	99.9	92.9	7.09	14.098			
900.0	900.0	900.0	900.0	3.6	3.6	89.63	0.6	99.9	99.9	92.4	7.54	13.263			
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	89.63	0.6	99.9	99.9	92.0	7.96	12.558			
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	89.63	0.6	99.9	99.9	91.6	8.36	11.952			
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	89.63	0.6	99.9	99.9	91.2	8.75	11.423 CC, ES			
1,300.0	1,300.0	1,296.5	1,296.5	4.5	4.5	-172.40	0.5	101.6	103.3	94.0	9.31	11.102 SF			
1,400.0	1,399.8	1,392.4	1,392.3	4.8	4.7	-172.48	0.1	106.4	113.5	103.7	9.82	11.565			
1,500.0	1,499.5	1,487.0	1,486.5	5.0	5.0	-172.58	-0.6	114.2	130.4	120.1	10.30	12.668			
1,600.0	1,598.7	1,579.6	1,578.5	5.3	5.2	-172.67	-1.5	125.0	153.9	143.2	10.75	14.320			
1,700.0	1,697.5	1,669.7	1,667.6	5.5	5.4	-172.75	-2.7	138.2	183.8	172.6	11.17	16.448			
1,800.0	1,795.6	1,761.2	1,757.8	5.8	5.6	-172.82	-4.1	153.9	219.2	207.7	11.56	18.964			
1,900.0	1,893.1	1,853.4	1,848.5	6.0	5.8	-172.93	-5.5	169.8	258.1	246.1	11.93	21.629			
2,000.0	1,990.1	1,944.8	1,938.6	6.2	5.9	-173.14	-6.8	185.7	298.5	286.2	12.23	24.408			
2,100.0	2,087.1	2,036.3	2,028.7	6.3	6.1	-173.29	-8.2	201.5	338.9	326.4	12.53	27.054			
2,200.0	2,184.1	2,127.8	2,118.7	6.5	6.2	-173.42	-9.6	217.3	379.3	366.5	12.83	29.564			
2,300.0	2,281.2	2,216.8	2,206.4	6.6	6.4	-173.52	-11.0	232.7	419.8	406.7	13.14	31.952			
2,400.0	2,378.2	2,300.0	2,288.0	6.8	6.6	-173.62	-12.0	248.8	462.0	448.6	13.47	34.311			
2,500.0	2,475.2	2,372.0	2,358.3	7.0	6.7	-173.72	-12.6	264.6	506.6	492.9	13.72	36.917			
2,600.0	2,572.3	2,446.6	2,430.6	7.2	6.9	-173.84	-12.9	282.7	553.6	539.6	14.00	39.533			
2,700.0	2,669.3	2,519.1	2,500.5	7.3	7.1	-173.96	-12.9	302.2	602.8	588.6	14.25	42.309			
2,800.0	2,766.3	2,602.7	2,580.6	7.5	7.2	-174.09	-12.8	325.9	653.4	638.9	14.51	45.020			
2,900.0	2,863.4	2,688.9	2,663.2	7.7	7.3	-174.21	-12.6	350.4	704.1	689.3	14.84	47.445			
3,000.0	2,960.3	2,774.9	2,745.8	7.9	7.5	176.78	-12.4	374.9	755.0	739.8	15.17	49.763			
3,100.0	3,057.2	2,860.7	2,828.0	8.1	7.6	168.44	-12.3	399.3	806.3	790.8	15.51	51.992			
3,135.9	3,091.8	2,891.3	2,857.4	8.1	7.7	165.64	-12.2	408.0	824.8	809.2	15.61	52.833			
3,200.0	3,153.8	2,946.1	2,909.8	8.2	7.8	165.97	-12.1	423.6	858.0	842.2	15.81	54.272			
3,300.0	3,250.4	3,031.5	2,991.7	8.4	8.0	166.43	-12.0	447.9	909.7	893.5	16.15	56.335			
3,400.0	3,347.0	3,116.8	3,073.5	8.6	8.1	166.84	-11.8	472.2	961.4	944.9	16.49	58.303			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - LOMAS ROJAS 26 STATE COM 002H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 100-r.5 MWD+IFR1													Offset Well Error:	0.0 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 +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	0.0	15.0	0.0	0.0	-46.03	526.1	-545.4	758.0					
100.0	100.0	81.9	96.9	0.8	0.5	-46.02	526.3	-545.5	758.0	756.2	1.76	429.736		
200.0	200.0	182.6	197.6	1.4	1.2	-46.00	526.8	-545.6	758.4	755.3	3.12	242.980		
300.0	300.0	283.7	298.7	1.9	1.8	-45.97	527.3	-545.4	758.7	754.6	4.08	185.917		
400.0	400.0	385.8	400.8	2.3	2.2	-45.93	527.7	-545.1	758.7	753.9	4.83	157.239		
500.0	500.0	486.4	501.4	2.6	2.6	-45.89	528.0	-544.6	758.5	753.1	5.45	139.162		
600.0	600.0	585.4	600.4	2.9	2.9	-45.84	528.4	-544.0	758.4	752.4	6.01	126.243		
661.3	661.3	646.3	661.3	3.0	3.1	-45.81	528.7	-543.8	758.4	752.1	6.32	119.937		
700.0	700.0	684.8	699.8	3.1	3.2	-45.79	528.8	-543.6	758.4	751.9	6.52	116.298		
800.0	800.0	784.7	799.7	3.4	3.5	-45.75	529.2	-543.3	758.4	751.4	7.00	108.339		
900.0	900.0	885.5	900.5	3.6	3.8	-45.71	529.6	-542.9	758.4	751.0	7.45	101.781		
1,000.0	1,000.0	985.2	1,000.2	3.8	4.0	-45.68	529.9	-542.6	758.4	750.5	7.88	96.294		
1,100.0	1,100.0	1,085.3	1,100.3	4.0	4.3	-45.65	530.1	-542.3	758.4	750.1	8.28	91.581		
1,200.0	1,200.0	1,185.7	1,200.7	4.2	4.5	-45.63	530.2	-542.1	758.3	749.6	8.67	87.480		
1,300.0	1,300.0	1,286.9	1,301.9	4.5	4.8	52.52	530.4	-541.7	757.1	748.0	9.07	83.445		
1,400.0	1,399.8	1,386.7	1,401.7	4.8	5.0	52.92	530.4	-541.3	753.6	744.2	9.45	79.748		
1,500.0	1,499.5	1,486.0	1,501.0	5.0	5.2	53.56	530.5	-540.9	748.2	738.4	9.82	76.224		
1,600.0	1,598.7	1,585.4	1,600.4	5.3	5.4	54.45	530.5	-540.6	740.8	730.6	10.17	72.834		
1,700.0	1,697.5	1,685.1	1,700.1	5.5	5.6	55.63	530.5	-540.2	731.4	720.9	10.52	69.558		
1,800.0	1,795.6	1,782.9	1,797.8	5.8	5.8	57.07	530.4	-539.7	720.4	709.5	10.85	66.403		
1,900.0	1,893.1	1,879.6	1,894.6	6.0	6.0	58.79	530.4	-539.4	707.9	696.8	11.17	63.364		
2,000.0	1,990.1	1,976.9	1,991.9	6.2	6.2	60.49	530.4	-539.0	695.2	683.7	11.47	60.613		
2,100.0	2,087.1	2,073.3	2,088.3	6.3	6.4	62.22	530.4	-538.7	683.1	671.3	11.77	58.061		
2,200.0	2,184.1	2,170.2	2,185.1	6.5	6.6	64.01	530.4	-538.5	671.7	659.7	12.06	55.690		
2,300.0	2,281.2	2,266.8	2,281.7	6.6	6.8	65.86	530.4	-538.3	661.1	648.7	12.36	53.489		
2,400.0	2,378.2	2,363.4	2,378.4	6.8	7.0	67.76	530.4	-538.1	651.3	638.6	12.66	51.452		
2,500.0	2,475.2	2,460.1	2,475.1	7.0	7.2	69.73	530.6	-537.8	642.3	629.3	12.96	49.562		
2,600.0	2,572.3	2,557.2	2,572.1	7.2	7.4	71.77	530.8	-537.4	634.1	620.9	13.26	47.808		
2,700.0	2,669.3	2,653.9	2,668.9	7.3	7.6	73.86	531.1	-536.9	626.8	613.2	13.57	46.179		
2,800.0	2,766.3	2,750.7	2,765.6	7.5	7.8	76.00	531.5	-536.2	620.4	606.5	13.89	44.672		
2,900.0	2,863.4	2,847.7	2,862.6	7.7	8.0	78.21	531.9	-535.4	615.0	600.8	14.21	43.276		
3,000.0	2,960.3	2,943.8	2,958.8	7.9	8.3	72.51	532.4	-534.5	608.8	594.2	14.60	41.685		
3,100.0	3,057.2	3,040.1	3,055.0	8.1	8.5	67.28	533.1	-533.5	600.3	585.3	15.00	40.014		
3,135.9	3,091.8	3,075.2	3,090.2	8.1	8.6	65.58	533.3	-533.0	596.6	581.5	15.11	39.494		
3,200.0	3,153.8	3,137.2	3,152.2	8.2	8.7	67.11	533.7	-531.9	589.9	574.6	15.31	38.539		
3,300.0	3,250.4	3,233.2	3,248.1	8.4	9.0	69.56	534.4	-530.1	580.4	564.8	15.67	37.040		
3,400.0	3,347.0	3,329.1	3,344.0	8.6	9.3	72.09	535.2	-528.2	572.1	556.1	16.05	35.651		
3,500.0	3,443.6	3,425.1	3,439.9	8.8	9.5	74.70	536.0	-526.2	565.1	548.6	16.44	34.368		
3,600.0	3,540.1	3,521.2	3,536.0	9.0	9.8	77.37	536.8	-524.1	559.4	542.5	16.85	33.187		
3,700.0	3,636.7	3,617.8	3,632.7	9.2	10.0	80.10	537.5	-522.1	554.9	537.6	17.28	32.102		
3,800.0	3,733.3	3,713.9	3,728.7	9.4	10.3	82.85	538.2	-520.0	551.7	534.0	17.73	31.117		
3,900.0	3,829.9	3,809.5	3,824.3	9.6	10.5	85.63	538.9	-517.8	550.0	531.8	18.20	30.227		
3,955.1	3,883.2	3,861.4	3,876.1	9.7	10.7	87.16	539.4	-516.4	549.7	531.3	18.46	29.779 CC		
4,000.0	3,926.5	3,903.6	3,918.3	9.8	10.8	88.41	539.8	-515.2	549.9	531.2	18.68	29.438 ES		
4,100.0	4,023.1	3,998.5	4,013.2	10.0	11.1	91.23	540.8	-512.4	551.5	532.3	19.19	28.737		
4,200.0	4,119.7	4,094.5	4,109.1	10.2	11.4	94.07	541.9	-509.3	554.7	535.0	19.73	28.120		
4,300.0	4,216.3	4,190.6	4,205.2	10.4	11.6	96.87	543.0	-506.5	559.2	539.0	20.28	27.580		
4,400.0	4,312.9	4,286.1	4,300.7	10.6	11.9	99.58	544.2	-503.8	565.2	544.4	20.84	27.119		
4,500.0	4,409.5	4,382.8	4,397.2	10.8	12.2	102.28	545.2	-500.8	572.5	551.1	21.42	26.732		
4,600.0	4,506.1	4,478.5	4,492.9	11.1	12.5	104.94	546.0	-497.5	581.1	559.1	21.99	26.425		
4,700.0	4,602.7	4,574.4	4,588.7	11.3	12.7	107.57	546.6	-493.8	590.9	568.4	22.56	26.190		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - LOMAS ROJAS 26 STATE COM 002H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-r.5 MWD+IFR1												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)			
4,800.0	4,699.3	4,671.0	4,685.2	11.5	13.0	110.19	546.8	-489.6	602.0	578.9	23.13	26.024	
4,900.0	4,795.8	4,767.0	4,781.1	11.7	13.3	112.80	546.2	-484.6	614.2	590.5	23.69	25.925	
5,000.0	4,892.4	4,862.1	4,876.1	11.9	13.6	115.34	545.2	-479.1	627.6	603.3	24.24	25.889 SF	
5,100.0	4,989.0	4,958.2	4,972.0	12.1	13.9	117.81	544.1	-473.7	642.2	617.4	24.79	25.901	
5,200.0	5,085.6	5,054.9	5,068.6	12.4	14.1	120.17	543.0	-468.5	657.7	632.4	25.35	25.951	
5,300.0	5,182.2	5,150.8	5,164.4	12.6	14.4	122.38	541.9	-463.7	674.2	648.3	25.89	26.039	
5,400.0	5,278.8	5,245.5	5,258.9	12.8	14.7	124.45	540.9	-459.0	691.5	665.1	26.43	26.164	
5,500.0	5,375.4	5,339.6	5,352.9	13.0	15.0	126.42	540.0	-454.3	709.9	683.0	26.97	26.322	
5,600.0	5,472.0	5,434.4	5,447.5	13.2	15.2	128.30	539.2	-449.5	729.3	701.8	27.52	26.501	
5,700.0	5,568.6	5,530.4	5,543.5	13.5	15.5	130.10	538.5	-444.8	749.4	721.3	28.07	26.692	
5,800.0	5,665.2	5,627.1	5,640.1	13.7	15.8	131.79	537.9	-440.3	770.0	741.4	28.63	26.895	
5,900.0	5,761.8	5,723.8	5,736.6	13.9	16.1	133.38	537.4	-436.2	791.0	761.8	29.18	27.105	
6,000.0	5,858.4	5,818.6	5,831.4	14.1	16.4	134.85	537.1	-432.2	812.6	782.9	29.73	27.335	
6,100.0	5,955.0	5,914.3	5,927.0	14.3	16.7	136.25	536.9	-428.3	834.7	804.4	30.28	27.570	
6,175.9	6,028.3	5,988.3	6,000.9	14.5	16.9	137.28	536.7	-425.3	851.7	821.0	30.69	27.755	
6,200.0	6,051.6	6,011.4	6,024.0	14.6	17.0	139.47	536.7	-424.5	857.2	826.4	30.81	27.822	
6,300.0	6,148.2	6,105.8	6,118.4	14.8	17.3	148.50	536.5	-420.8	881.5	850.1	31.35	28.113	
6,324.9	6,172.3	6,129.8	6,142.3	14.8	17.3	150.73	536.4	-419.8	887.8	856.4	31.48	28.204	
6,400.0	6,244.9	6,202.2	6,214.7	15.0	17.5	151.42	536.4	-417.0	907.3	875.4	31.87	28.469	
6,500.0	6,341.5	6,297.2	6,309.6	15.2	17.8	152.28	536.2	-413.3	933.4	901.0	32.39	28.813	
6,600.0	6,438.2	6,391.7	6,404.0	15.4	18.1	153.09	536.2	-409.5	959.8	926.8	32.92	29.156	
6,700.0	6,534.8	6,486.8	6,499.0	15.7	18.4	153.87	536.1	-405.7	986.4	952.9	33.45	29.492	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO T 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - LOMAS ROJAS 26 STATE COM 003H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program:		219-r.5 MWD+IFR1						Rule Assigned:					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)				
0.0	0.0	0.0	3.0	0.0	0.0	49.46	533.8	624.2	821.4					
100.0	100.0	94.5	97.5	0.8	1.0	49.45	534.1	624.2	821.5	819.2	2.28	359.739		
200.0	200.0	191.9	194.9	1.4	2.1	49.42	534.8	624.2	822.0	818.0	4.01	204.859		
300.0	300.0	291.2	294.2	1.9	2.9	49.36	535.8	624.2	822.7	817.4	5.29	155.492		
400.0	400.0	391.3	394.3	2.3	3.6	49.30	536.9	624.2	823.4	817.0	6.40	128.721		
500.0	500.0	492.4	495.4	2.6	4.6	49.25	537.9	624.2	824.0	816.2	7.78	105.898		
600.0	600.0	593.7	596.7	2.9	5.6	49.21	538.6	624.2	824.5	815.3	9.19	89.708		
700.0	700.0	694.5	697.5	3.1	6.4	49.18	539.1	624.2	824.8	814.5	10.32	79.926		
800.0	800.0	794.2	797.2	3.4	6.7	49.14	539.8	624.1	825.2	814.4	10.78	76.542		
900.0	900.0	892.8	895.8	3.6	7.0	49.09	540.6	623.9	825.6	814.2	11.32	72.902 ES		
1,000.0	1,000.0	991.0	994.0	3.8	7.4	49.08	541.2	624.3	826.2	814.3	11.89	69.506		
1,100.0	1,100.0	1,090.7	1,093.7	4.0	7.7	49.08	541.6	624.9	826.9	814.5	12.44	66.489		
1,200.0	1,200.0	1,190.7	1,193.6	4.2	8.0	49.08	542.1	625.5	827.7	814.7	12.99	63.713		
1,300.0	1,300.0	1,294.0	1,296.9	4.5	8.3	147.13	542.5	625.9	829.8	816.2	13.53	61.309		
1,400.0	1,399.8	1,396.8	1,399.8	4.8	8.6	147.28	542.6	626.0	834.3	820.3	14.06	59.359		
1,500.0	1,499.5	1,496.1	1,499.1	5.0	8.9	147.52	542.7	626.0	841.7	827.2	14.54	57.896		
1,600.0	1,598.7	1,595.0	1,598.0	5.3	9.2	147.83	542.8	626.0	852.1	837.1	15.02	56.748		
1,700.0	1,697.5	1,693.6	1,696.5	5.5	9.5	148.22	543.1	625.9	865.5	850.0	15.48	55.903		
1,800.0	1,795.6	1,791.8	1,794.7	5.8	9.7	148.66	543.6	625.6	881.9	866.0	15.94	55.332		
1,900.0	1,893.1	1,889.8	1,892.7	6.0	10.0	149.17	544.0	625.4	901.4	885.0	16.38	55.033		
2,000.0	1,990.1	1,987.1	1,990.1	6.2	10.3	149.92	544.2	625.2	922.4	905.7	16.77	55.000		
2,100.0	2,087.1	2,083.9	2,086.9	6.3	10.5	150.63	544.4	625.1	943.6	926.5	17.16	54.998 SF		
2,200.0	2,184.1	2,179.9	2,182.9	6.5	10.7	151.32	544.6	625.0	965.0	947.4	17.52	55.063		
2,300.0	2,281.2	2,274.7	2,277.7	6.6	10.9	151.97	544.7	625.2	986.6	968.8	17.86	55.241		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - LOMAS ROJAS 26 STATE COM 505H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 195-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)			
10,400.0	10,142.1	15,717.0	10,823.7	23.6	57.9	163.89	300.7	-1,377.2	991.3	915.1	76.25	13.001	
10,457.9	10,200.0	15,717.0	10,823.7	23.6	57.9	72.68	300.7	-1,377.2	952.6	875.8	76.82	12.401	
10,500.0	10,242.1	15,717.0	10,823.7	23.6	57.9	72.68	300.7	-1,377.2	925.6	848.4	77.27	11.980	
10,600.0	10,342.1	15,717.0	10,823.7	23.7	57.9	72.68	300.7	-1,377.2	866.3	787.8	78.48	11.039	
10,600.4	10,342.5	15,717.0	10,823.7	23.7	57.9	72.68	300.7	-1,377.2	866.1	787.6	78.48	11.035	
10,625.0	10,367.1	15,717.0	10,823.7	23.7	57.9	-108.70	300.7	-1,377.2	852.8	774.0	78.79	10.824	
10,650.0	10,392.0	15,717.0	10,823.7	23.7	57.9	-110.35	300.7	-1,377.2	840.2	761.1	79.08	10.624	
10,675.0	10,416.8	15,717.0	10,823.7	23.7	57.9	-111.82	300.7	-1,377.2	828.6	749.2	79.35	10.442	
10,700.0	10,441.4	15,717.0	10,823.7	23.6	57.9	-113.12	300.7	-1,377.2	818.0	738.4	79.59	10.277	
10,725.0	10,465.7	15,717.0	10,823.7	23.6	57.9	-114.24	300.7	-1,377.2	808.5	728.7	79.81	10.131	
10,750.0	10,489.7	15,717.0	10,823.7	23.6	57.9	-115.20	300.7	-1,377.2	800.2	720.2	79.99	10.004	
10,775.0	10,513.3	15,717.0	10,823.7	23.6	57.9	-116.00	300.7	-1,377.2	793.2	713.0	80.14	9.897	
10,800.0	10,536.4	15,717.0	10,823.7	23.6	57.9	-116.64	300.7	-1,377.2	787.4	707.1	80.26	9.810	
10,825.0	10,558.9	15,717.0	10,823.7	23.6	57.9	-117.12	300.7	-1,377.2	783.0	702.6	80.35	9.744	
10,850.0	10,580.9	15,717.0	10,823.7	23.6	57.9	-117.45	300.7	-1,377.2	779.9	699.5	80.40	9.700	
10,875.0	10,602.2	15,717.0	10,823.7	23.6	57.9	-117.63	300.7	-1,377.2	778.2	697.8	80.42	9.677	
10,892.2	10,616.5	15,717.0	10,823.7	23.6	57.9	-117.66	300.7	-1,377.2	777.9	697.5	80.41	9.675 CC, ES, SF	
10,900.0	10,622.8	15,717.0	10,823.7	23.6	57.9	-117.66	300.7	-1,377.2	778.0	697.6	80.39	9.677	
10,925.0	10,642.7	15,717.0	10,823.7	23.6	57.9	-117.53	300.7	-1,377.2	779.1	698.8	80.34	9.698	
10,950.0	10,661.7	15,717.0	10,823.7	23.7	57.9	-117.26	300.7	-1,377.2	781.7	701.4	80.24	9.742	
10,975.0	10,679.8	15,717.0	10,823.7	23.7	57.9	-116.84	300.7	-1,377.2	785.6	705.5	80.11	9.807	
11,000.0	10,697.1	15,717.0	10,823.7	23.7	57.9	-116.26	300.7	-1,377.2	790.9	710.9	79.94	9.894	
11,025.0	10,713.3	15,717.0	10,823.7	23.7	57.9	-115.52	300.7	-1,377.2	797.4	717.7	79.73	10.002	
11,050.0	10,728.6	15,717.0	10,823.7	23.7	57.9	-114.62	300.7	-1,377.2	805.3	725.8	79.49	10.131	
11,075.0	10,742.7	15,717.0	10,823.7	23.8	57.9	-113.56	300.7	-1,377.2	814.3	735.1	79.21	10.280	
11,100.0	10,755.8	15,717.0	10,823.7	23.8	57.9	-112.33	300.7	-1,377.2	824.5	745.6	78.91	10.449	
11,125.0	10,767.8	15,717.0	10,823.7	23.8	57.9	-110.92	300.7	-1,377.2	835.7	757.2	78.57	10.637	
11,150.0	10,778.5	15,717.0	10,823.7	23.9	57.9	-109.34	300.7	-1,377.2	848.0	769.8	78.21	10.843	
11,175.0	10,788.1	15,717.0	10,823.7	23.9	57.9	-107.58	300.7	-1,377.2	861.1	783.3	77.82	11.066	
11,200.0	10,796.5	15,717.0	10,823.7	24.0	57.9	-105.64	300.7	-1,377.2	875.1	797.7	77.40	11.307	
11,225.0	10,803.6	15,717.0	10,823.7	24.0	57.9	-103.51	300.7	-1,377.2	889.9	812.9	76.96	11.563	
11,250.0	10,809.5	15,717.0	10,823.7	24.1	57.9	-101.21	300.7	-1,377.2	905.4	828.9	76.50	11.835	
11,275.0	10,814.0	15,717.0	10,823.7	24.1	57.9	-98.73	300.7	-1,377.2	921.4	845.4	76.02	12.121	
11,300.0	10,817.3	15,717.0	10,823.7	24.2	57.9	-96.08	300.7	-1,377.2	938.0	862.5	75.52	12.422	
11,325.0	10,819.3	15,717.0	10,823.7	24.3	57.9	-93.29	300.7	-1,377.2	955.1	880.1	75.00	12.735	
11,350.4	10,820.0	15,717.0	10,823.7	24.3	57.9	-90.31	300.7	-1,377.2	972.8	898.4	74.46	13.066	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - LOMAS ROJAS 26 STATE COM 506H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 166-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	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)			
10,200.0	9,942.2	15,673.0	10,824.4	23.3	57.8	96.77	280.7	-2,079.1	903.5	833.0	70.55	12.807	
10,300.0	10,042.1	15,673.0	10,824.4	23.5	57.8	92.52	280.7	-2,079.1	806.2	736.1	70.07	11.505	
10,400.0	10,142.1	15,673.0	10,824.4	23.6	57.8	88.76	280.7	-2,079.1	709.6	640.2	69.34	10.232	
10,457.9	10,200.0	15,673.0	10,824.4	23.6	57.8	-4.25	280.7	-2,079.1	654.1	585.3	68.76	9.513	
10,500.0	10,242.1	15,673.0	10,824.4	23.6	57.8	-4.25	280.7	-2,079.1	614.0	545.8	68.24	8.998	
10,600.0	10,342.1	15,673.0	10,824.4	23.7	57.8	-4.25	280.7	-2,079.1	520.2	453.6	66.59	7.812	
10,600.4	10,342.5	15,673.0	10,824.4	23.7	57.8	-4.25	280.7	-2,079.1	519.8	453.2	66.58	7.807	
10,625.0	10,367.1	15,673.0	10,824.4	23.7	57.8	176.59	280.7	-2,079.1	497.3	431.3	66.02	7.533	
10,650.0	10,392.0	15,673.0	10,824.4	23.7	57.8	176.90	280.7	-2,079.1	475.3	410.0	65.31	7.277	
10,675.0	10,416.8	15,673.0	10,824.4	23.7	57.8	177.15	280.7	-2,079.1	454.3	389.8	64.45	7.049	
10,700.0	10,441.4	15,673.0	10,824.4	23.6	57.8	177.33	280.7	-2,079.1	434.5	371.1	63.42	6.851	
10,725.0	10,465.7	15,673.0	10,824.4	23.6	57.8	177.48	280.7	-2,079.1	416.1	353.9	62.20	6.690	
10,750.0	10,489.7	15,673.0	10,824.4	23.6	57.8	177.60	280.7	-2,079.1	399.5	338.7	60.80	6.571	
10,775.0	10,513.3	15,673.0	10,824.4	23.6	57.8	177.69	280.7	-2,079.1	384.8	325.6	59.22	6.498	
10,800.0	10,536.4	15,673.0	10,824.4	23.6	57.8	177.76	280.7	-2,079.1	372.3	314.8	57.50	6.476 SF	
10,825.0	10,558.9	15,673.0	10,824.4	23.6	57.8	177.81	280.7	-2,079.1	362.4	306.7	55.68	6.508	
10,850.0	10,580.9	15,673.0	10,824.4	23.6	57.8	177.84	280.7	-2,079.1	355.2	301.3	53.86	6.594	
10,875.0	10,602.2	15,673.0	10,824.4	23.6	57.8	177.86	280.7	-2,079.1	350.9	298.7	52.14	6.729 ES	
10,897.4	10,620.8	15,673.0	10,824.4	23.6	57.8	177.87	280.7	-2,079.1	349.6	298.9	50.78	6.886 CC	
10,900.0	10,622.8	15,673.0	10,824.4	23.6	57.8	177.87	280.7	-2,079.1	349.6	299.0	50.64	6.905	
10,925.0	10,642.7	15,673.0	10,824.4	23.6	57.8	177.86	280.7	-2,079.1	351.5	302.1	49.44	7.110	
10,950.0	10,661.7	15,673.0	10,824.4	23.7	57.8	177.83	280.7	-2,079.1	356.4	307.8	48.61	7.331	
10,975.0	10,679.8	15,673.0	10,824.4	23.7	57.8	177.80	280.7	-2,079.1	364.2	316.0	48.17	7.560	
11,000.0	10,697.1	15,673.0	10,824.4	23.7	57.8	177.74	280.7	-2,079.1	374.7	326.6	48.08	7.793	
11,025.0	10,713.3	15,673.0	10,824.4	23.7	57.8	177.67	280.7	-2,079.1	387.6	339.4	48.27	8.030	
11,050.0	10,728.6	15,673.0	10,824.4	23.7	57.8	177.57	280.7	-2,079.1	402.8	354.1	48.66	8.277	
11,075.0	10,742.7	15,673.0	10,824.4	23.8	57.8	177.45	280.7	-2,079.1	419.8	370.6	49.16	8.538	
11,100.0	10,755.8	15,673.0	10,824.4	23.8	57.8	177.30	280.7	-2,079.1	438.5	388.7	49.72	8.818	
11,125.0	10,767.8	15,673.0	10,824.4	23.8	57.8	177.10	280.7	-2,079.1	458.5	408.2	50.28	9.118	
11,150.0	10,778.5	15,673.0	10,824.4	23.9	57.8	176.85	280.7	-2,079.1	479.7	428.9	50.82	9.441	
11,175.0	10,788.1	15,673.0	10,824.4	23.9	57.8	176.51	280.7	-2,079.1	501.9	450.6	51.29	9.786	
11,200.0	10,796.5	15,673.0	10,824.4	24.0	57.8	176.05	280.7	-2,079.1	524.9	473.2	51.71	10.152	
11,225.0	10,803.6	15,673.0	10,824.4	24.0	57.8	175.41	280.7	-2,079.1	548.5	496.5	52.05	10.539	
11,250.0	10,809.5	15,673.0	10,824.4	24.1	57.8	174.45	280.7	-2,079.1	572.6	520.3	52.32	10.944	
11,275.0	10,814.0	15,673.0	10,824.4	24.1	57.8	172.87	280.7	-2,079.1	597.1	544.6	52.52	11.368	
11,300.0	10,817.3	15,673.0	10,824.4	24.2	57.8	169.82	280.7	-2,079.1	621.8	569.1	52.66	11.807	
11,325.0	10,819.3	15,673.0	10,824.4	24.3	57.8	161.72	280.7	-2,079.1	646.7	594.0	52.74	12.261	
11,350.4	10,820.0	15,673.0	10,824.4	24.3	57.8	108.72	280.7	-2,079.1	672.1	619.3	52.77	12.736	
11,400.0	10,820.0	15,673.0	10,824.4	24.5	57.8	108.72	280.7	-2,079.1	721.7	668.9	52.76	13.678	
11,500.0	10,820.0	15,673.0	10,824.4	24.8	57.8	108.72	280.7	-2,079.1	821.7	768.9	52.76	15.573	
11,600.0	10,820.0	15,673.0	10,824.4	25.1	57.8	108.72	280.7	-2,079.1	921.6	868.9	52.76	17.468	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - LOMAS ROJAS STATE COM 26 001H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-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)			
8,900.0	8,661.1	13,690.0	9,402.0	20.8	46.3	98.48	623.0	-1,978.7	920.9	864.3	56.64	16.259	
8,970.8	8,729.6	13,690.0	9,402.0	20.9	46.3	98.48	623.0	-1,978.7	864.6	808.7	55.86	15.477	
9,000.0	8,757.8	13,690.0	9,402.0	21.0	46.3	98.13	623.0	-1,978.7	842.0	786.5	55.49	15.173	
9,100.0	8,854.8	13,690.0	9,402.0	21.2	46.3	97.04	623.0	-1,978.7	767.9	714.0	53.99	14.225	
9,200.0	8,952.2	13,690.0	9,402.0	21.5	46.3	96.12	623.0	-1,978.7	700.2	648.2	52.02	13.461	
9,300.0	9,050.0	13,690.0	9,402.0	21.7	46.3	95.38	623.0	-1,978.7	640.7	591.2	49.52	12.938	
9,400.0	9,148.1	13,690.0	9,402.0	21.9	46.3	94.83	623.0	-1,978.7	592.2	545.6	46.57	12.715 SF	
9,500.0	9,246.6	13,690.0	9,402.0	22.1	46.3	94.45	623.0	-1,978.7	557.3	513.8	43.51	12.809	
9,600.0	9,345.3	13,690.0	9,402.0	22.3	46.3	94.27	623.0	-1,978.7	538.9	497.8	41.07	13.121	
9,651.6	9,396.4	13,690.0	9,402.0	22.4	46.3	94.24	623.0	-1,978.7	536.5	496.1	40.36	13.293 CC, ES	
9,700.0	9,444.3	13,690.0	9,402.0	22.5	46.3	94.26	623.0	-1,978.7	538.6	498.5	40.12	13.424	
9,800.0	9,543.6	13,690.0	9,402.0	22.7	46.3	94.44	623.0	-1,978.7	556.5	515.5	40.98	13.578	
9,900.0	9,643.0	13,690.0	9,402.0	22.8	46.3	94.81	623.0	-1,978.7	590.8	547.6	43.14	13.693	
10,000.0	9,742.6	13,690.0	9,402.0	23.0	46.3	95.36	623.0	-1,978.7	639.0	593.1	45.81	13.947	
10,100.0	9,842.3	13,690.0	9,402.0	23.2	46.3	96.09	623.0	-1,978.7	698.1	649.7	48.42	14.418	
10,200.0	9,942.2	13,690.0	9,402.0	23.3	46.3	97.00	623.0	-1,978.7	765.6	714.9	50.71	15.099	
10,300.0	10,042.1	13,690.0	9,402.0	23.5	46.3	98.09	623.0	-1,978.7	839.5	786.9	52.63	15.951	
10,400.0	10,142.1	13,690.0	9,402.0	23.6	46.3	99.36	623.0	-1,978.7	918.2	864.0	54.22	16.935	
10,457.9	10,200.0	13,690.0	9,402.0	23.6	46.3	9.09	623.0	-1,978.7	965.5	910.5	55.01	17.552	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO T 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design:	VALOR PROJECT - VALOR FED COM #704H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program:	100-Standard Keeper 104, 11729-MWD+IFR1+FDIR												Offset Well Error:	3.0 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)			
0.0	0.0	0.0	6.4	0.0	3.0	90.21	-3.7	995.5	995.5					
100.0	100.0	85.3	91.7	0.8	3.0	90.22	-3.9	995.9	995.9	991.1	4.81	207.145		
200.0	200.0	185.0	191.4	1.4	3.0	90.26	-4.5	996.8	996.9	991.7	5.13	194.269		
300.0	300.0	282.2	288.6	1.9	3.0	90.32	-5.5	997.7	997.8	992.4	5.44	183.422		
400.0	400.0	384.8	391.1	2.3	3.0	90.37	-6.5	998.6	998.7	992.9	5.74	174.064		
500.0	500.0	485.2	491.6	2.6	3.0	90.42	-7.3	999.4	999.4	993.4	6.02	165.883 SF		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - VALOR FED COM 706H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 11863-MWD+IFR1+FDIR													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	0.0	4.0	0.0	3.0	-91.84	-13.1	-406.6	406.8					
100.0	100.0	94.5	98.5	0.8	3.0	-91.89	-13.4	-406.7	407.0	402.2	4.81	84.648		
200.0	200.0	194.2	198.2	1.4	3.0	-91.99	-14.2	-407.2	407.4	402.3	5.13	79.420		
300.0	300.0	294.8	298.8	1.9	3.0	-92.09	-14.9	-407.4	407.7	402.2	5.44	74.994		
400.0	400.0	396.9	400.9	2.3	3.0	-92.17	-15.5	-407.4	407.7	402.0	5.73	71.180		
486.6	486.6	482.6	486.6	2.5	3.0	-92.23	-15.9	-407.3	407.6	401.6	5.97	68.296		
500.0	500.0	495.2	499.2	2.6	3.0	-92.24	-15.9	-407.3	407.6	401.6	6.01	67.858		
594.9	594.9	591.0	594.9	2.8	3.1	-92.32	-16.5	-407.2	407.6	401.3	6.26	65.071		
600.0	600.0	595.7	599.7	2.9	3.1	-92.32	-16.5	-407.2	407.6	401.3	6.28	64.926		
700.0	700.0	696.0	700.0	3.1	3.1	-92.39	-17.0	-407.2	407.5	401.0	6.54	62.324		
730.9	730.9	726.9	730.9	3.2	3.1	-92.41	-17.1	-407.2	407.5	400.9	6.62	61.591		
800.0	800.0	794.8	798.8	3.4	3.1	-92.46	-17.5	-407.2	407.6	400.8	6.79	59.996		
900.0	900.0	893.8	897.8	3.6	3.2	-92.62	-18.6	-407.7	408.1	401.1	7.04	57.937		
1,000.0	1,000.0	992.3	996.2	3.8	3.2	-92.80	-20.0	-408.4	408.9	401.6	7.29	56.096		
1,100.0	1,100.0	1,092.8	1,096.7	4.0	3.3	-93.01	-21.5	-409.2	409.8	402.2	7.53	54.420		
1,200.0	1,200.0	1,192.3	1,196.3	4.2	3.3	-93.22	-23.1	-410.0	410.6	402.9	7.77	52.872		
1,300.0	1,300.0	1,294.3	1,298.2	4.5	3.4	4.60	-24.5	-410.7	409.7	401.6	8.12	50.478		
1,400.0	1,399.8	1,394.1	1,398.0	4.8	3.4	4.51	-25.7	-411.0	404.8	396.4	8.44	47.942		
1,500.0	1,499.5	1,493.7	1,497.6	5.0	3.5	4.47	-26.7	-411.4	396.7	387.9	8.77	45.232		
1,600.0	1,598.7	1,593.2	1,597.1	5.3	3.6	4.47	-27.9	-411.8	384.9	375.8	9.09	42.346		
1,700.0	1,697.5	1,691.5	1,695.4	5.5	3.6	4.52	-28.9	-412.2	369.8	360.4	9.41	39.308		
1,800.0	1,795.6	1,790.4	1,794.3	5.8	3.7	4.62	-30.0	-412.5	351.1	341.4	9.72	36.120		
1,900.0	1,893.1	1,887.7	1,891.6	6.0	3.8	4.80	-31.0	-412.8	329.1	319.1	10.03	32.801		
2,000.0	1,990.1	1,991.0	1,994.9	6.2	3.9	4.99	-32.1	-413.0	305.3	295.0	10.24	29.802		
2,100.0	2,087.1	2,094.3	2,098.1	6.3	3.9	5.31	-32.6	-409.3	277.7	267.3	10.43	26.623		
2,200.0	2,184.1	2,190.9	2,194.7	6.5	3.9	5.78	-32.6	-405.4	249.7	239.0	10.64	23.471		
2,300.0	2,281.2	2,287.1	2,290.7	6.6	3.9	6.42	-32.4	-401.2	221.5	210.6	10.85	20.408		
2,400.0	2,378.2	2,383.4	2,387.0	6.8	4.0	7.28	-32.1	-397.0	193.2	182.1	11.07	17.447		
2,500.0	2,475.2	2,479.7	2,483.1	7.0	4.0	8.51	-31.6	-392.5	164.7	153.4	11.30	14.571		
2,600.0	2,572.3	2,575.6	2,578.9	7.2	4.0	10.41	-30.7	-387.8	136.1	124.6	11.54	11.796		
2,700.0	2,669.3	2,671.2	2,674.4	7.3	4.0	13.59	-29.3	-383.1	107.7	95.9	11.78	9.141		
2,800.0	2,766.3	2,767.1	2,770.1	7.5	4.0	19.34	-27.5	-378.2	79.7	67.7	12.03	6.629		
2,900.0	2,863.4	2,862.7	2,865.6	7.7	4.1	31.05	-25.6	-373.1	53.2	40.9	12.26	4.337		
3,000.0	2,960.3	2,958.4	2,961.1	7.9	4.1	50.26	-24.0	-368.1	30.5	18.1	12.45	2.453 Caution - Monitor Closely		
3,071.9	3,030.0	3,027.1	3,029.7	8.0	4.1	87.61	-23.5	-364.6	22.8	10.2	12.54	1.815 Caution - Monitor Closely, CC, ES, SF		
3,100.0	3,057.2	3,053.9	3,056.5	8.1	4.1	105.16	-23.3	-363.3	24.2	11.5	12.63	1.912 Caution - Monitor Closely		
3,135.9	3,091.8	3,088.0	3,090.6	8.1	4.1	122.84	-23.1	-361.5	29.4	16.6	12.74	2.307 Caution - Monitor Closely		
3,200.0	3,153.8	3,148.7	3,151.2	8.2	4.2	144.01	-22.8	-357.9	44.5	31.5	12.94	3.437		
3,300.0	3,250.4	3,243.9	3,246.2	8.4	4.2	158.05	-22.9	-352.0	73.2	60.0	13.27	5.519		
3,400.0	3,347.0	3,338.7	3,340.8	8.6	4.3	164.57	-23.9	-346.4	103.5	89.9	13.56	7.627		
3,500.0	3,443.6	3,434.2	3,436.2	8.8	4.4	168.11	-24.8	-340.8	134.3	120.4	13.87	9.683		
3,600.0	3,540.1	3,529.5	3,531.3	9.0	4.4	170.21	-25.4	-335.6	164.9	150.8	14.16	11.644		
3,700.0	3,636.7	3,624.6	3,626.2	9.2	4.5	171.61	-25.8	-330.6	195.6	181.1	14.46	13.528		
3,800.0	3,733.3	3,719.4	3,720.9	9.4	4.6	172.61	-26.2	-325.4	226.5	211.7	14.76	15.346		
3,900.0	3,829.9	3,813.9	3,815.3	9.6	4.6	173.42	-26.9	-320.2	257.5	242.4	15.06	17.103		
4,000.0	3,926.5	3,908.4	3,909.6	9.8	4.7	174.05	-27.5	-314.8	288.7	273.4	15.36	18.802		
4,100.0	4,023.1	4,004.7	4,005.7	10.0	4.8	174.55	-28.0	-309.3	320.1	304.4	15.67	20.422		
4,200.0	4,119.7	4,101.7	4,102.6	10.2	4.9	174.94	-28.4	-304.4	350.7	334.7	15.99	21.924		
4,300.0	4,216.3	4,197.9	4,198.7	10.4	5.0	175.26	-28.7	-299.9	381.0	364.7	16.31	23.357		
4,400.0	4,312.9	4,293.7	4,294.4	10.6	5.0	175.52	-28.8	-295.5	411.1	394.5	16.63	24.721		
4,500.0	4,409.5	4,387.1	4,387.8	10.8	5.1	175.73	-29.0	-291.2	441.4	424.4	16.94	26.061		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - VALOR FED COM 706H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 11863-MWD+IFR1+FDIR												Offset Well Error:	3.0 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
4,600.0	4,506.1	4,477.7	4,478.2	11.1	5.2	175.96	-29.5	-286.4	472.3	455.1	17.23	27.414	
4,700.0	4,602.7	4,572.7	4,573.1	11.3	5.3	176.23	-30.7	-280.8	503.9	486.3	17.55	28.710	
4,800.0	4,699.3	4,666.2	4,666.4	11.5	5.4	176.48	-32.0	-275.4	535.4	517.5	17.87	29.966	
4,900.0	4,795.8	4,757.8	4,757.8	11.7	5.5	176.73	-33.6	-269.8	567.3	549.1	18.17	31.215	
5,000.0	4,892.4	4,849.6	4,849.4	11.9	5.6	176.96	-35.3	-263.5	599.8	581.3	18.48	32.450	
5,100.0	4,989.0	4,952.7	4,952.2	12.1	5.7	177.10	-36.3	-256.5	632.3	613.4	18.85	33.541	
5,200.0	5,085.6	5,056.7	5,056.0	12.4	5.7	176.95	-34.0	-250.8	663.1	643.8	19.21	34.513	
5,300.0	5,182.2	5,158.0	5,157.2	12.6	5.8	176.74	-30.8	-246.3	692.8	673.2	19.56	35.428	
5,400.0	5,278.8	5,252.6	5,251.6	12.8	5.9	176.56	-27.7	-242.4	722.1	702.3	19.87	36.344	
5,500.0	5,375.4	5,349.9	5,348.8	13.0	5.9	176.38	-24.4	-238.4	751.5	731.3	20.20	37.211	
5,600.0	5,472.0	5,447.1	5,445.8	13.2	6.0	176.21	-21.1	-234.4	780.9	760.4	20.52	38.049	
5,700.0	5,568.6	5,547.9	5,546.5	13.5	6.0	176.05	-17.6	-230.9	809.6	788.7	20.86	38.808	
5,800.0	5,665.2	5,645.1	5,643.6	13.7	6.1	175.89	-14.0	-227.9	837.9	816.7	21.18	39.554	
5,900.0	5,761.8	5,741.7	5,740.1	13.9	6.2	175.74	-10.3	-225.1	866.2	844.7	21.51	40.276	
6,000.0	5,858.4	5,837.4	5,835.7	14.1	6.2	175.59	-6.5	-222.2	894.4	872.6	21.82	40.982	
6,100.0	5,955.0	5,933.5	5,931.7	14.3	6.3	175.45	-2.7	-219.3	922.7	900.6	22.15	41.665	
6,175.9	6,028.3	6,010.5	6,008.5	14.5	6.3	175.35	0.3	-217.2	944.0	921.6	22.39	42.164	
6,200.0	6,051.6	6,034.3	6,032.3	14.6	6.3	177.24	1.2	-216.6	950.7	928.2	22.46	42.333	
6,300.0	6,148.2	6,135.4	6,133.4	14.8	6.4	-174.92	4.6	-214.5	978.1	955.3	22.80	42.899	
6,324.9	6,172.3	6,161.0	6,158.9	14.8	6.4	-173.00	5.3	-214.0	984.7	961.9	22.87	43.054	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - VALOR FED COM 707H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 11870-MWD+IFR1+FDIR													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	0.0	4.0	0.0	3.0	-91.74	-13.3	-436.6	436.8					
100.0	100.0	87.8	91.8	0.8	3.0	-91.78	-13.6	-437.4	437.7	432.9	4.81	91.041		
200.0	200.0	185.5	189.5	1.4	3.0	-91.88	-14.4	-439.6	440.0	434.8	5.13	85.741		
300.0	300.0	300.4	304.3	1.9	3.0	-91.95	-15.0	-440.7	441.0	435.6	5.44	81.080		
400.0	400.0	401.9	405.8	2.3	3.0	-91.92	-14.8	-439.4	439.7	433.9	5.73	76.785		
500.0	500.0	498.7	502.6	2.6	3.0	-91.92	-14.7	-438.3	438.5	432.5	6.01	73.014		
524.0	524.0	520.1	524.0	2.6	3.0	-91.92	-14.7	-438.2	438.5	432.4	6.07	72.239		
600.0	600.0	589.5	593.5	2.9	3.0	-91.96	-15.0	-438.9	439.2	432.9	6.28	69.986		
700.0	700.0	695.5	699.4	3.1	3.0	-92.00	-15.4	-440.1	440.3	433.8	6.54	67.331		
800.0	800.0	797.7	801.6	3.4	3.0	-91.96	-15.1	-439.9	440.1	433.3	6.79	64.784		
900.0	900.0	896.4	900.4	3.6	3.1	-91.94	-14.9	-439.5	439.8	432.7	7.04	62.454		
989.5	989.5	985.5	989.4	3.8	3.1	-92.00	-15.3	-439.5	439.8	432.5	7.26	60.584		
1,000.0	1,000.0	995.8	999.8	3.8	3.1	-92.01	-15.4	-439.5	439.8	432.5	7.28	60.370		
1,100.0	1,100.0	1,096.5	1,100.4	4.0	3.1	-92.12	-16.2	-439.5	439.8	432.2	7.52	58.463		
1,200.0	1,200.0	1,197.4	1,201.4	4.2	3.1	-92.24	-17.2	-439.2	439.6	431.8	7.76	56.682		
1,300.0	1,300.0	1,297.3	1,301.2	4.5	3.2	5.65	-18.2	-438.9	437.6	429.5	8.10	54.021		
1,400.0	1,399.8	1,396.4	1,400.3	4.8	3.2	5.59	-19.3	-438.6	432.1	423.7	8.43	51.286		
1,500.0	1,499.5	1,493.9	1,497.8	5.0	3.2	5.63	-19.9	-438.6	423.5	414.7	8.75	48.424		
1,600.0	1,598.7	1,583.0	1,586.8	5.3	3.2	5.95	-18.9	-440.6	413.4	404.4	9.06	45.651		
1,700.0	1,697.5	1,681.8	1,685.6	5.5	3.3	6.49	-17.0	-443.5	400.7	391.3	9.37	42.769		
1,800.0	1,795.6	1,780.3	1,784.1	5.8	3.3	7.14	-15.2	-446.5	384.8	375.1	9.68	39.742		
1,900.0	1,893.1	1,878.1	1,881.8	6.0	3.3	7.96	-13.2	-449.5	365.4	355.4	9.99	36.571		
2,000.0	1,990.1	1,975.7	1,979.3	6.2	3.3	8.92	-10.9	-452.6	344.6	334.3	10.21	33.753		
2,100.0	2,087.1	2,073.2	2,076.7	6.3	3.3	10.03	-8.3	-455.5	323.6	313.2	10.43	31.037		
2,200.0	2,184.1	2,171.7	2,175.1	6.5	3.4	11.30	-5.8	-458.3	302.7	292.1	10.65	28.420		
2,300.0	2,281.2	2,269.7	2,273.1	6.6	3.4	12.78	-3.2	-461.1	282.0	271.1	10.88	25.915		
2,400.0	2,378.2	2,367.6	2,370.9	6.8	3.5	14.51	-0.5	-463.7	261.2	250.1	11.12	23.501		
2,500.0	2,475.2	2,466.5	2,469.7	7.0	3.5	16.56	2.2	-465.8	240.3	229.0	11.35	21.169		
2,600.0	2,572.3	2,565.3	2,568.5	7.2	3.6	19.06	5.0	-467.4	219.2	207.7	11.59	18.919		
2,700.0	2,669.3	2,663.4	2,666.5	7.3	3.6	22.12	7.8	-468.4	198.0	186.2	11.82	16.750		
2,800.0	2,766.3	2,760.0	2,763.1	7.5	3.6	25.80	10.4	-469.2	177.3	165.3	12.06	14.702		
2,900.0	2,863.4	2,857.1	2,860.2	7.7	3.7	30.23	12.6	-470.4	157.7	145.4	12.30	12.826		
3,000.0	2,960.3	2,953.9	2,957.0	7.9	3.8	26.92	14.5	-471.8	138.3	125.7	12.55	11.019		
3,100.0	3,057.2	3,051.3	3,054.4	8.1	3.8	23.73	15.4	-474.1	117.9	105.1	12.81	9.207		
3,135.9	3,091.8	3,086.6	3,089.6	8.1	3.9	22.81	15.6	-474.8	110.2	97.3	12.87	8.561		
3,200.0	3,153.8	3,149.4	3,152.4	8.2	3.9	26.56	16.1	-475.9	96.1	83.2	12.99	7.401		
3,300.0	3,250.4	3,247.3	3,250.3	8.4	4.0	35.74	16.6	-476.1	74.2	61.0	13.18	5.627		
3,400.0	3,347.0	3,343.7	3,346.7	8.6	4.0	50.92	16.5	-476.5	55.1	41.8	13.33	4.136		
3,500.0	3,443.6	3,441.0	3,443.9	8.8	4.1	73.72	15.3	-479.5	42.3	28.8	13.45	3.143		
3,568.8	3,510.0	3,508.0	3,510.9	8.9	4.1	95.27	14.3	-481.7	39.3	25.7	13.64	2.880 Normal Operations, CC, ES, SF		
3,600.0	3,540.1	3,538.4	3,541.3	9.0	4.1	105.40	13.9	-482.8	39.9	26.2	13.79	2.897 Normal Operations		
3,700.0	3,636.7	3,635.7	3,638.5	9.2	4.2	132.27	12.3	-485.9	49.6	35.3	14.34	3.461		
3,800.0	3,733.3	3,733.3	3,736.0	9.4	4.2	148.55	10.5	-489.1	66.2	51.4	14.79	4.475		
3,900.0	3,829.9	3,831.5	3,834.1	9.6	4.3	157.92	8.6	-493.2	85.1	69.9	15.17	5.607		
4,000.0	3,926.5	3,928.5	3,931.0	9.8	4.4	163.56	7.0	-497.8	104.9	89.4	15.50	6.765		
4,100.0	4,023.1	4,025.0	4,027.4	10.0	4.5	166.91	6.6	-501.4	126.3	110.5	15.81	7.988		
4,200.0	4,119.7	4,122.4	4,124.8	10.2	4.6	168.98	6.9	-504.7	148.3	132.2	16.13	9.194		
4,300.0	4,216.3	4,219.8	4,222.1	10.4	4.7	170.48	7.4	-508.0	170.5	154.1	16.45	10.366		
4,400.0	4,312.9	4,316.7	4,318.9	10.6	4.7	171.63	7.8	-511.3	192.8	176.1	16.76	11.502		
4,500.0	4,409.5	4,410.5	4,412.8	10.8	4.8	172.58	8.0	-513.5	216.1	199.1	17.06	12.670		
4,600.0	4,506.1	4,504.8	4,507.0	11.1	4.9	173.55	7.2	-514.3	241.1	223.8	17.35	13.898		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - VALOR FED COM 707H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 11870-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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)			
4,700.0	4,602.7	4,601.6	4,603.9	11.3	5.0	174.33	6.6	-514.8	266.4	248.8	17.66	15.087	
4,800.0	4,699.3	4,694.4	4,696.6	11.5	5.0	175.01	5.6	-514.8	292.3	274.4	17.93	16.303	
4,900.0	4,795.8	4,786.4	4,788.6	11.7	5.0	175.86	3.0	-513.6	319.7	301.5	18.19	17.578	
5,000.0	4,892.4	4,881.4	4,883.5	11.9	5.0	176.79	-0.9	-511.6	347.9	329.4	18.46	18.845	
5,100.0	4,989.0	4,989.0	4,991.0	12.1	5.1	177.41	-3.4	-511.1	374.5	355.6	18.83	19.888	
5,200.0	5,085.6	5,087.2	5,089.2	12.4	5.2	177.62	-3.5	-512.0	399.6	380.4	19.16	20.850	
5,300.0	5,182.2	5,185.5	5,187.5	12.6	5.3	177.72	-3.0	-513.0	424.3	404.8	19.50	21.759	
5,400.0	5,278.8	5,282.1	5,284.1	12.8	5.4	177.80	-2.5	-514.1	449.0	429.2	19.83	22.645	
5,500.0	5,375.4	5,380.2	5,382.2	13.0	5.5	177.85	-1.8	-515.3	473.6	453.4	20.16	23.487	
5,600.0	5,472.0	5,477.5	5,479.5	13.2	5.6	177.90	-1.0	-516.7	498.0	477.5	20.50	24.294	
5,700.0	5,568.6	5,575.0	5,577.0	13.5	5.7	177.94	-0.1	-518.2	522.3	501.5	20.83	25.069	
5,800.0	5,665.2	5,672.1	5,674.0	13.7	5.7	177.96	0.7	-519.6	546.7	525.5	21.17	25.824	
5,900.0	5,761.8	5,769.7	5,771.7	13.9	5.8	177.99	1.6	-521.1	570.9	549.4	21.51	26.544	
6,000.0	5,858.4	5,867.3	5,869.2	14.1	5.9	178.03	2.3	-522.7	595.0	573.2	21.85	27.235	
6,100.0	5,955.0	5,964.8	5,966.7	14.3	6.0	178.06	3.2	-524.4	619.1	596.9	22.19	27.903	
6,175.9	6,028.3	6,039.7	6,041.6	14.5	6.1	178.06	4.0	-525.9	637.2	614.8	22.44	28.401	
6,200.0	6,051.6	6,063.6	6,065.4	14.6	6.1	179.96	4.3	-526.3	643.0	620.5	22.51	28.565	
6,300.0	6,148.2	6,162.5	6,164.4	14.8	6.3	-172.25	5.2	-528.5	666.3	643.5	22.86	29.143	
6,324.9	6,172.3	6,187.6	6,189.5	14.8	6.3	-170.36	5.4	-529.1	672.0	649.1	22.94	29.295	
6,400.0	6,244.9	6,259.7	6,261.5	15.0	6.4	-170.64	5.9	-530.9	689.2	666.0	23.18	29.730	
6,500.0	6,341.5	6,359.4	6,361.2	15.2	6.5	-171.00	6.4	-533.5	712.0	688.4	23.53	30.252	
6,600.0	6,438.2	6,456.9	6,458.6	15.4	6.6	-171.31	6.8	-536.2	734.7	710.8	23.88	30.765	
6,700.0	6,534.8	6,554.7	6,556.4	15.7	6.7	-171.61	7.2	-538.9	757.4	733.1	24.23	31.262	
6,800.0	6,631.5	6,650.4	6,652.1	15.9	6.8	-171.87	7.4	-541.6	780.0	755.5	24.57	31.752	
6,900.0	6,728.1	6,748.9	6,750.6	16.1	6.9	-172.11	7.5	-544.4	802.7	777.8	24.92	32.213	
7,000.0	6,824.8	6,845.6	6,847.2	16.4	7.0	-172.34	7.6	-547.1	825.4	800.1	25.26	32.671	
7,100.0	6,921.4	6,942.5	6,944.0	16.6	7.1	-172.57	7.9	-549.8	848.1	822.5	25.61	33.118	
7,200.0	7,018.1	7,041.0	7,042.6	16.8	7.2	-172.81	8.4	-552.4	871.0	845.0	25.96	33.548	
7,300.0	7,114.7	7,137.7	7,139.2	17.1	7.3	-173.02	8.8	-555.0	893.8	867.5	26.31	33.972	
7,400.0	7,211.4	7,236.6	7,238.0	17.3	7.5	-173.22	9.1	-557.8	916.6	889.9	26.67	34.373	
7,500.0	7,308.0	7,336.9	7,338.3	17.5	7.6	-173.39	9.1	-560.8	939.1	912.1	27.03	34.749	
7,600.0	7,404.7	7,441.9	7,443.2	17.7	7.7	-173.57	9.3	-564.6	961.2	933.8	27.40	35.077	
7,700.0	7,501.3	7,539.9	7,541.2	18.0	7.8	-173.76	10.0	-568.5	982.7	955.0	27.76	35.406	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - VALOR FEDERAL COM #708H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 122-MWD+IFR1+FDIR, 1244-MWD+IFR1+FDIR, 11654-MWD+IFR1+FDIR													Offset Well Error:	3.0 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		
4,200.0	4,119.7	4,177.0	4,179.1	10.2	11.7	-12.99	-25.8	-1,641.2	990.5	968.5	22.04	44.944		
4,300.0	4,216.3	4,274.0	4,275.8	10.4	12.0	-13.19	-23.2	-1,635.4	959.5	937.0	22.55	42.547		
4,400.0	4,312.9	4,382.5	4,384.0	10.6	12.4	-13.42	-20.0	-1,627.9	927.5	904.4	23.08	40.184		
4,500.0	4,409.5	4,471.7	4,472.9	10.8	12.7	-13.67	-18.0	-1,621.0	894.8	871.3	23.59	37.934		
4,600.0	4,506.1	4,545.0	4,546.1	11.1	12.9	-13.86	-16.1	-1,617.1	864.2	840.2	24.08	35.892		
4,700.0	4,602.7	4,632.1	4,633.1	11.3	13.2	-14.09	-13.8	-1,613.9	835.4	810.8	24.59	33.975		
4,800.0	4,699.3	4,741.2	4,742.1	11.5	13.5	-14.50	-12.1	-1,609.0	805.9	780.8	25.13	32.070		
4,900.0	4,795.8	4,832.9	4,833.6	11.7	13.9	-14.91	-11.2	-1,604.4	775.9	750.2	25.65	30.248		
5,000.0	4,892.4	4,922.0	4,922.7	11.9	14.1	-15.32	-10.2	-1,600.5	746.5	720.4	26.17	28.524		
5,100.0	4,989.0	5,014.0	5,014.6	12.1	14.5	-15.78	-9.1	-1,597.0	717.8	691.1	26.70	26.887		
5,200.0	5,085.6	5,106.1	5,106.6	12.4	14.8	-16.28	-8.2	-1,594.1	689.7	662.5	27.23	25.333		
5,300.0	5,182.2	5,198.5	5,199.0	12.6	15.1	-16.84	-7.5	-1,591.5	662.1	634.4	27.75	23.857		
5,400.0	5,278.8	5,292.7	5,293.1	12.8	15.4	-17.48	-7.0	-1,589.3	635.0	606.7	28.29	22.448		
5,500.0	5,375.4	5,391.1	5,391.6	13.0	15.7	-18.21	-6.5	-1,587.0	607.9	579.1	28.83	21.089		
5,600.0	5,472.0	5,484.9	5,485.3	13.2	16.1	-18.98	-6.2	-1,584.7	580.9	551.6	29.36	19.785		
5,700.0	5,568.6	5,579.3	5,579.7	13.5	16.4	-19.83	-5.9	-1,582.6	554.3	524.4	29.90	18.540		
5,800.0	5,665.2	5,678.1	5,678.5	13.7	16.7	-20.78	-5.3	-1,580.5	527.8	497.3	30.44	17.338		
5,900.0	5,761.8	5,774.8	5,775.2	13.9	17.0	-21.81	-4.7	-1,578.0	501.0	470.0	30.98	16.173		
6,000.0	5,858.4	5,869.9	5,870.2	14.1	17.4	-22.94	-4.2	-1,575.6	474.5	442.9	31.52	15.054		
6,100.0	5,955.0	5,969.2	5,969.5	14.3	17.7	-24.12	-2.4	-1,573.1	447.8	415.7	32.05	13.970		
6,175.9	6,028.3	6,043.1	6,043.3	14.5	18.0	-24.97	-0.2	-1,571.0	427.3	394.9	32.45	13.168		
6,200.0	6,051.6	6,065.9	6,066.0	14.6	18.0	-23.31	0.5	-1,570.4	420.8	388.2	32.57	12.918		
6,300.0	6,148.2	6,159.1	6,159.2	14.8	18.4	-16.15	3.1	-1,568.1	393.6	360.5	33.12	11.883		
6,324.9	6,172.3	6,182.9	6,183.0	14.8	18.4	-14.31	3.8	-1,567.6	386.7	353.5	33.25	11.632		
6,400.0	6,244.9	6,255.1	6,255.1	15.0	18.7	-14.79	5.9	-1,566.1	366.0	332.4	33.65	10.878		
6,500.0	6,341.5	6,351.5	6,351.5	15.2	19.0	-15.51	8.7	-1,564.0	338.4	304.2	34.19	9.898		
6,600.0	6,438.2	6,447.5	6,447.4	15.4	19.3	-16.35	11.6	-1,561.9	310.8	276.1	34.73	8.949		
6,700.0	6,534.8	6,544.6	6,544.4	15.7	19.7	-17.41	14.4	-1,559.5	283.1	247.8	35.27	8.026		
6,800.0	6,631.5	6,640.8	6,640.6	15.9	20.0	-18.69	17.3	-1,556.9	255.2	219.4	35.81	7.126		
6,900.0	6,728.1	6,736.1	6,735.8	16.1	20.3	-20.28	20.0	-1,554.4	227.5	191.2	36.35	6.260		
7,000.0	6,824.8	6,831.8	6,831.4	16.4	20.7	-22.33	22.7	-1,551.9	200.2	163.3	36.89	5.428		
7,100.0	6,921.4	6,927.3	6,926.8	16.6	21.0	-25.09	25.0	-1,549.7	173.5	136.1	37.43	4.637		
7,200.0	7,018.1	7,023.3	7,022.8	16.8	21.3	-28.89	27.2	-1,547.3	147.3	109.4	37.95	3.882		
7,300.0	7,114.7	7,118.8	7,118.2	17.1	21.7	-34.32	29.2	-1,545.1	122.3	83.8	38.48	3.178		
7,400.0	7,211.4	7,214.5	7,213.9	17.3	22.0	-42.48	30.7	-1,543.0	99.1	60.1	38.99	2.542 Normal Operations		
7,500.0	7,308.0	7,310.5	7,309.9	17.5	22.3	-54.80	32.4	-1,541.2	79.3	39.7	39.52	2.005 Caution - Monitor Closely		
7,600.0	7,404.7	7,406.5	7,405.9	17.7	22.7	-73.21	33.9	-1,539.6	65.4	25.3	40.11	1.630 Caution - Monitor Closely		
7,684.1	7,485.9	7,487.4	7,486.8	17.9	23.0	-93.08	35.1	-1,538.3	61.2	20.5	40.72	1.502 Caution - Monitor Closely, CC, ES		
7,700.0	7,501.3	7,502.7	7,502.1	18.0	23.0	-97.00	35.3	-1,538.0	61.3	20.5	40.85	1.502 Caution - Monitor Closely, SF		
7,800.0	7,598.0	7,598.9	7,598.2	18.2	23.3	-119.50	36.7	-1,536.5	68.9	27.3	41.61	1.655 Caution - Monitor Closely		
7,900.0	7,694.6	7,694.9	7,694.2	18.4	23.7	-135.68	37.8	-1,534.9	85.2	42.9	42.26	2.016 Caution - Monitor Closely		
8,000.0	7,791.3	7,791.0	7,790.3	18.7	24.0	-146.10	38.6	-1,533.5	106.1	63.3	42.84	2.477 Caution - Monitor Closely		
8,100.0	7,887.9	7,887.2	7,886.5	18.9	24.4	-153.04	39.3	-1,532.0	129.5	86.1	43.40	2.984 Normal Operations		
8,200.0	7,984.6	7,983.6	7,982.9	19.1	24.7	-157.83	40.0	-1,530.6	154.1	110.1	43.96	3.505		
8,300.0	8,081.2	8,079.7	8,079.0	19.4	25.0	-161.28	40.7	-1,529.2	179.3	134.8	44.51	4.028		
8,400.0	8,177.9	8,177.8	8,177.0	19.6	25.4	-164.09	42.0	-1,527.7	204.9	159.9	45.08	4.546		
8,500.0	8,274.5	8,275.9	8,275.0	19.8	25.7	-167.20	47.1	-1,526.7	229.7	184.1	45.65	5.033		
8,600.0	8,371.2	8,372.5	8,371.4	20.1	26.0	-169.86	53.0	-1,525.8	254.8	208.6	46.19	5.516		
8,700.0	8,467.8	8,469.7	8,468.5	20.3	26.4	-171.99	58.6	-1,525.2	280.0	233.3	46.74	5.991		
8,800.0	8,564.5	8,561.6	8,560.2	20.5	26.7	-173.48	63.0	-1,524.5	305.7	258.5	47.25	6.470		
8,900.0	8,661.1	8,653.4	8,652.0	20.8	27.0	-174.58	66.2	-1,522.1	333.5	285.7	47.77	6.982		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well_VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - VALOR FEDERAL COM #708H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 122-MWD+IFR1+FDIR, 1244-MWD+IFR1+FDIR, 11654-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Rule Assigned:	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)	No-Go Distance (usft)	Factor	
8,970.8	8,729.6	8,721.1	8,719.6	20.9	27.3	-175.21	68.2	-1,520.0	353.6	305.4	48.15	7.342	
9,000.0	8,757.8	8,749.6	8,748.1	21.0	27.4	-175.46	69.0	-1,519.2	361.7	313.4	48.32	7.487	
9,100.0	8,854.8	8,846.3	8,844.7	21.2	27.7	-176.17	71.5	-1,516.6	388.5	339.6	48.88	7.947	
9,200.0	8,952.2	8,938.9	8,937.3	21.5	28.0	-176.65	73.3	-1,513.7	414.0	364.5	49.41	8.378	
9,300.0	9,050.0	9,034.1	9,032.3	21.7	28.4	-176.94	74.0	-1,509.9	438.7	388.8	49.96	8.783	
9,400.0	9,148.1	9,133.6	9,131.8	21.9	28.7	-177.14	74.3	-1,506.1	461.7	411.1	50.54	9.135	
9,500.0	9,246.6	9,236.9	9,235.0	22.1	29.1	-177.34	74.8	-1,502.9	482.1	431.0	51.14	9.428	
9,600.0	9,345.3	9,341.3	9,339.4	22.3	29.4	-177.47	75.1	-1,501.1	499.7	447.9	51.74	9.657	
9,700.0	9,444.3	9,445.6	9,443.7	22.5	29.8	-177.62	75.7	-1,500.4	514.3	462.0	52.33	9.829	
9,800.0	9,543.6	9,548.9	9,547.0	22.7	30.2	-177.80	76.8	-1,500.6	526.4	473.5	52.89	9.953	
9,900.0	9,643.0	9,649.5	9,647.6	22.8	30.5	-178.01	78.3	-1,501.4	536.2	482.7	53.42	10.036	
10,000.0	9,742.6	9,745.3	9,743.3	23.0	30.8	-178.28	80.5	-1,502.0	544.4	490.5	53.93	10.096	
10,100.0	9,842.3	9,836.8	9,834.8	23.2	31.1	-178.61	83.5	-1,501.2	552.3	497.9	54.40	10.152	
10,200.0	9,942.2	9,943.3	9,941.2	23.3	31.5	-179.00	87.2	-1,500.3	558.5	503.5	54.96	10.162	
10,300.0	10,042.1	10,049.4	10,047.3	23.5	31.9	-179.34	90.4	-1,501.0	561.5	506.0	55.50	10.119	
10,400.0	10,142.1	10,150.5	10,148.4	23.6	32.2	-179.66	93.6	-1,501.9	562.5	506.5	55.99	10.047	
10,457.9	10,200.0	10,209.8	10,207.6	23.6	32.4	-89.07	95.5	-1,502.7	562.0	505.8	56.24	9.993	
10,500.0	10,242.1	10,250.3	10,248.1	23.6	32.6	-88.94	96.7	-1,503.2	561.5	505.1	56.40	9.956	
10,600.0	10,342.1	10,350.1	10,347.8	23.7	32.9	-88.69	99.2	-1,504.2	560.7	503.8	56.81	9.868	
10,600.4	10,342.5	10,350.5	10,348.2	23.7	32.9	-88.69	99.2	-1,504.2	560.6	503.8	56.81	9.868	
10,625.0	10,367.1	10,375.8	10,373.5	23.7	33.0	-91.05	99.8	-1,504.4	560.4	503.5	56.91	9.847	
10,650.0	10,392.0	10,401.1	10,398.8	23.7	33.1	-91.34	100.3	-1,504.8	560.1	503.1	57.01	9.826	
10,675.0	10,416.8	10,425.8	10,423.5	23.7	33.2	-91.74	100.8	-1,505.1	559.9	502.8	57.10	9.806	
10,700.0	10,441.4	10,450.4	10,448.1	23.6	33.3	-92.25	101.2	-1,505.4	559.8	502.6	57.19	9.789	
10,720.1	10,461.0	10,469.9	10,467.6	23.6	33.3	-92.74	101.4	-1,505.6	559.7	502.5	57.26	9.776	
10,725.0	10,465.7	10,474.6	10,472.3	23.6	33.3	-92.87	101.5	-1,505.7	559.7	502.5	57.27	9.773	
10,750.0	10,489.7	10,498.7	10,496.4	23.6	33.4	-93.58	101.8	-1,506.0	559.8	502.5	57.35	9.761	
10,775.0	10,513.3	10,522.4	10,520.1	23.6	33.5	-94.38	102.0	-1,506.3	560.1	502.7	57.43	9.753	
10,800.0	10,536.4	10,545.7	10,543.4	23.6	33.6	-95.24	102.1	-1,506.6	560.7	503.2	57.51	9.749	
10,825.0	10,558.9	10,568.5	10,566.2	23.6	33.6	-96.14	102.2	-1,506.9	561.5	503.9	57.58	9.751	
10,850.0	10,580.9	10,589.5	10,587.2	23.6	33.7	-97.02	102.2	-1,507.2	562.7	505.0	57.64	9.762	
10,875.0	10,602.2	10,609.0	10,606.7	23.6	33.8	-97.85	102.3	-1,507.4	564.4	506.7	57.70	9.782	
10,900.0	10,622.8	10,627.8	10,625.5	23.6	33.8	-98.66	102.3	-1,507.5	566.7	508.9	57.75	9.812	
10,925.0	10,642.7	10,645.9	10,643.6	23.6	33.9	-99.42	102.4	-1,507.6	569.5	511.8	57.79	9.855	
10,950.0	10,661.7	10,663.2	10,660.9	23.7	34.0	-100.12	102.5	-1,507.6	573.1	515.3	57.83	9.910	
10,975.0	10,679.8	10,680.1	10,677.8	23.7	34.0	-100.77	102.5	-1,507.6	577.5	519.6	57.87	9.979	
11,000.0	10,697.1	10,696.9	10,694.6	23.7	34.1	-101.36	102.6	-1,507.5	582.5	524.6	57.90	10.061	
11,025.0	10,713.3	10,712.8	10,710.5	23.7	34.1	-101.84	102.7	-1,507.5	588.4	530.5	57.93	10.158	
11,050.0	10,728.6	10,727.6	10,725.3	23.7	34.2	-102.18	102.8	-1,507.4	595.2	537.2	57.95	10.271	
11,075.0	10,742.7	10,741.4	10,739.1	23.8	34.2	-102.36	102.8	-1,507.4	602.8	544.8	57.96	10.400	
11,100.0	10,755.8	10,754.2	10,751.9	23.8	34.3	-102.36	102.9	-1,507.3	611.3	553.3	57.97	10.545	
11,125.0	10,767.8	10,765.8	10,763.5	23.8	34.3	-102.17	102.9	-1,507.2	620.7	562.8	57.97	10.708	
11,150.0	10,778.5	10,776.5	10,774.2	23.9	34.4	-101.80	103.0	-1,507.2	631.0	573.1	57.96	10.887	
11,175.0	10,788.1	10,786.2	10,783.9	23.9	34.4	-101.20	103.0	-1,507.1	642.2	584.3	57.95	11.082	
11,200.0	10,796.5	10,794.6	10,792.3	24.0	34.4	-100.37	103.0	-1,507.1	654.3	596.4	57.93	11.294	
11,225.0	10,803.6	10,801.8	10,799.5	24.0	34.5	-99.27	103.1	-1,507.0	667.2	609.3	57.91	11.522	
11,250.0	10,809.5	10,807.7	10,805.4	24.1	34.5	-97.91	103.1	-1,507.0	680.9	623.0	57.88	11.764	
11,275.0	10,814.0	10,812.3	10,810.0	24.1	34.5	-96.27	103.1	-1,507.0	695.3	637.4	57.84	12.021	
11,300.0	10,817.3	10,815.7	10,813.3	24.2	34.5	-94.34	103.1	-1,506.9	710.4	652.6	57.80	12.291	
11,325.0	10,819.3	10,817.7	10,815.4	24.3	34.5	-92.13	103.1	-1,506.9	726.1	668.3	57.75	12.573	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO T 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design:	VALOR PROJECT - VALOR FEDERAL COM #708H - OWB - AWP											Offset Site Error:	3.0 usft
Survey Program:	122-MWD+IFR1+FDIR, 1244-MWD+IFR1+FDIR, 11654-MWD+IFR1+FDIR											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	
11,350.4	10,820.0	10,818.3	10,816.0	24.3	34.5	-89.60	103.1	-1,506.9	742.6	684.9	57.69	12.871	
11,400.0	10,820.0	10,818.3	10,816.0	24.5	34.5	-89.59	103.1	-1,506.9	776.2	718.6	57.58	13.480	
11,500.0	10,820.0	10,818.3	10,815.9	24.8	34.5	-89.59	103.1	-1,506.9	848.8	791.4	57.39	14.789	
11,600.0	10,820.0	10,818.2	10,815.9	25.1	34.5	-89.58	103.1	-1,506.9	926.5	869.3	57.24	16.186	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - VALOR FEDERAL COM #708H - ST01 - AWP													Offset Site Error: 3.0 usft	
Survey Program: Reference		Offset		Semi Major Axis		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)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
4,200.0	4,119.7	4,177.0	4,179.1	10.2	11.7	-12.99	-25.8	-1,641.2	990.5	968.5	22.04	44.944		
4,300.0	4,216.3	4,274.0	4,275.8	10.4	12.0	-13.19	-23.2	-1,635.4	959.5	937.0	22.55	42.547		
4,400.0	4,312.9	4,382.5	4,384.0	10.6	12.4	-13.42	-20.0	-1,627.9	927.5	904.4	23.08	40.184		
4,500.0	4,409.5	4,471.7	4,472.9	10.8	12.7	-13.67	-18.0	-1,621.0	894.8	871.3	23.59	37.934		
4,600.0	4,506.1	4,545.0	4,546.1	11.1	12.9	-13.86	-16.1	-1,617.1	864.2	840.2	24.08	35.892		
4,700.0	4,602.7	4,632.1	4,633.1	11.3	13.2	-14.09	-13.8	-1,613.9	835.4	810.8	24.59	33.975		
4,800.0	4,699.3	4,741.2	4,742.1	11.5	13.5	-14.50	-12.1	-1,609.0	805.9	780.8	25.13	32.070		
4,900.0	4,795.8	4,832.9	4,833.6	11.7	13.9	-14.91	-11.2	-1,604.4	775.9	750.2	25.65	30.247		
5,000.0	4,892.4	4,922.0	4,922.7	11.9	14.1	-15.32	-10.2	-1,600.5	746.5	720.4	26.17	28.524		
5,100.0	4,989.0	5,014.0	5,014.6	12.1	14.5	-15.78	-9.1	-1,597.0	717.8	691.1	26.70	26.887		
5,200.0	5,085.6	5,106.1	5,106.6	12.4	14.8	-16.28	-8.2	-1,594.1	689.7	662.5	27.23	25.333		
5,300.0	5,182.2	5,198.5	5,199.0	12.6	15.1	-16.84	-7.5	-1,591.5	662.1	634.4	27.75	23.856		
5,400.0	5,278.8	5,292.7	5,293.1	12.8	15.4	-17.48	-7.0	-1,589.3	635.0	606.7	28.29	22.448		
5,500.0	5,375.4	5,391.1	5,391.6	13.0	15.7	-18.21	-6.5	-1,587.0	607.9	579.1	28.83	21.089		
5,600.0	5,472.0	5,484.9	5,485.3	13.2	16.1	-18.98	-6.2	-1,584.7	580.9	551.6	29.36	19.785		
5,700.0	5,568.6	5,579.3	5,579.7	13.5	16.4	-19.83	-5.9	-1,582.6	554.3	524.4	29.90	18.540		
5,800.0	5,665.2	5,678.1	5,678.5	13.7	16.7	-20.78	-5.3	-1,580.5	527.8	497.3	30.44	17.338		
5,900.0	5,761.8	5,774.8	5,775.2	13.9	17.0	-21.81	-4.7	-1,578.0	501.0	470.0	30.98	16.173		
6,000.0	5,858.4	5,869.9	5,870.2	14.1	17.4	-22.94	-4.2	-1,575.6	474.5	442.9	31.52	15.054		
6,100.0	5,955.0	5,969.2	5,969.5	14.3	17.7	-24.12	-2.4	-1,573.1	447.8	415.7	32.05	13.970		
6,175.9	6,028.3	6,043.1	6,043.3	14.5	18.0	-24.97	-0.2	-1,571.0	427.3	394.9	32.45	13.168		
6,200.0	6,051.6	6,065.9	6,066.0	14.6	18.0	-23.31	0.5	-1,570.4	420.8	388.2	32.57	12.918		
6,300.0	6,148.2	6,159.1	6,159.2	14.8	18.4	-16.15	3.1	-1,568.1	393.6	360.5	33.12	11.883		
6,324.9	6,172.3	6,182.9	6,183.0	14.8	18.4	-14.31	3.8	-1,567.6	386.7	353.5	33.25	11.632		
6,400.0	6,244.9	6,255.1	6,255.1	15.0	18.7	-14.79	5.9	-1,566.1	366.0	332.4	33.65	10.878		
6,500.0	6,341.5	6,351.5	6,351.5	15.2	19.0	-15.51	8.7	-1,564.0	338.4	304.2	34.19	9.898		
6,600.0	6,438.2	6,447.5	6,447.4	15.4	19.3	-16.35	11.6	-1,561.9	310.8	276.1	34.73	8.949		
6,700.0	6,534.8	6,544.6	6,544.4	15.7	19.7	-17.41	14.4	-1,559.5	283.1	247.8	35.27	8.026		
6,800.0	6,631.5	6,640.8	6,640.6	15.9	20.0	-18.69	17.3	-1,556.9	255.2	219.4	35.81	7.126		
6,900.0	6,728.1	6,736.1	6,735.8	16.1	20.3	-20.28	20.0	-1,554.4	227.5	191.2	36.35	6.260		
7,000.0	6,824.8	6,831.8	6,831.4	16.4	20.7	-22.33	22.7	-1,551.9	200.2	163.3	36.89	5.428		
7,100.0	6,921.4	6,927.3	6,926.8	16.6	21.0	-25.09	25.0	-1,549.7	173.5	136.1	37.42	4.637		
7,200.0	7,018.1	7,023.3	7,022.8	16.8	21.3	-28.89	27.2	-1,547.3	147.3	109.4	37.95	3.882		
7,300.0	7,114.7	7,118.8	7,118.2	17.1	21.7	-34.32	29.2	-1,545.1	122.3	83.8	38.48	3.178		
7,400.0	7,211.4	7,214.5	7,213.9	17.3	22.0	-42.48	30.7	-1,543.0	99.1	60.1	38.99	2.542 Normal Operations		
7,500.0	7,308.0	7,310.5	7,309.9	17.5	22.3	-54.80	32.4	-1,541.2	79.3	39.7	39.52	2.005 Caution - Monitor Closely		
7,600.0	7,404.7	7,406.5	7,405.9	17.7	22.7	-73.21	33.9	-1,539.6	65.4	25.3	40.11	1.630 Caution - Monitor Closely		
7,684.1	7,485.9	7,487.4	7,486.8	17.9	23.0	-93.08	35.1	-1,538.3	61.2	20.5	40.72	1.502 Caution - Monitor Closely, CC, ES		
7,700.0	7,501.3	7,502.7	7,502.1	18.0	23.0	-97.00	35.3	-1,538.0	61.3	20.5	40.85	1.502 Caution - Monitor Closely, SF		
7,800.0	7,598.0	7,598.9	7,598.2	18.2	23.3	-119.50	36.7	-1,536.5	68.9	27.3	41.61	1.655 Caution - Monitor Closely		
7,900.0	7,694.6	7,694.9	7,694.2	18.4	23.7	-135.68	37.8	-1,534.9	85.2	42.9	42.26	2.016 Caution - Monitor Closely		
8,000.0	7,791.3	7,791.0	7,790.3	18.7	24.0	-146.10	38.6	-1,533.5	106.1	63.3	42.84	2.477 Caution - Monitor Closely		
8,100.0	7,887.9	7,887.2	7,886.5	18.9	24.4	-153.04	39.3	-1,532.0	129.5	86.1	43.40	2.984 Normal Operations		
8,200.0	7,984.6	7,983.6	7,982.9	19.1	24.7	-157.83	40.0	-1,530.6	154.1	110.1	43.96	3.505		
8,300.0	8,081.2	8,079.7	8,079.0	19.4	25.0	-161.28	40.7	-1,529.2	179.3	134.8	44.51	4.028		
8,400.0	8,177.9	8,177.8	8,177.0	19.6	25.4	-164.09	42.0	-1,527.7	204.9	159.9	45.08	4.546		
8,500.0	8,274.5	8,275.9	8,275.0	19.8	25.7	-167.20	47.1	-1,526.7	229.7	184.1	45.65	5.033		
8,600.0	8,371.2	8,372.5	8,371.4	20.1	26.0	-169.86	53.0	-1,525.8	254.8	208.6	46.19	5.516		
8,700.0	8,467.8	8,469.7	8,468.5	20.3	26.4	-171.99	58.6	-1,525.2	280.0	233.3	46.74	5.991		
8,800.0	8,564.5	8,561.6	8,560.2	20.5	26.7	-173.48	63.0	-1,524.5	305.7	258.5	47.25	6.470		
8,900.0	8,661.1	8,653.4	8,652.0	20.8	27.0	-174.58	66.2	-1,522.1	333.5	285.7	47.77	6.982		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design: VALOR PROJECT - VALOR FEDERAL COM #708H - ST01 - AWP													Offset Site Error:	3.0 usft
Survey Program:		122-MWD+IFR1+FDIR, 1244-MWD+IFR1+FDIR, 11654-MWD+IFR1+FDIR, 12268-MWD+IFR1+FDIR							Rule Assigned:			Offset Well Error:	3.0 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	
8,970.8	8,729.6	8,721.1	8,719.6	20.9	27.3	-175.21	68.2	-1,520.0	353.6	305.4	48.15	7.342		
9,000.0	8,757.8	8,749.6	8,748.1	21.0	27.4	-175.46	69.0	-1,519.2	361.7	313.4	48.32	7.487		
9,100.0	8,854.8	8,846.3	8,844.7	21.2	27.7	-176.17	71.5	-1,516.6	388.5	339.6	48.88	7.947		
9,200.0	8,952.2	8,938.9	8,937.3	21.5	28.0	-176.65	73.3	-1,513.7	414.0	364.5	49.41	8.378		
9,300.0	9,050.0	9,034.1	9,032.3	21.7	28.4	-176.94	74.0	-1,509.9	438.7	388.8	49.96	8.783		
9,400.0	9,148.1	9,133.6	9,131.8	21.9	28.7	-177.14	74.3	-1,506.1	461.7	411.1	50.54	9.135		
9,500.0	9,246.6	9,236.9	9,235.0	22.1	29.1	-177.34	74.8	-1,502.9	482.1	431.0	51.14	9.428		
9,600.0	9,345.3	9,341.3	9,339.4	22.3	29.4	-177.47	75.1	-1,501.1	499.7	447.9	51.74	9.657		
9,700.0	9,444.3	9,445.6	9,443.7	22.5	29.8	-177.62	75.7	-1,500.4	514.3	462.0	52.33	9.829		
9,800.0	9,543.6	9,548.9	9,547.0	22.7	30.2	-177.80	76.8	-1,500.6	526.4	473.5	52.89	9.953		
9,900.0	9,643.0	9,649.5	9,647.6	22.8	30.5	-178.01	78.3	-1,501.4	536.2	482.7	53.42	10.036		
10,000.0	9,742.6	9,745.3	9,743.3	23.0	30.8	-178.28	80.5	-1,502.0	544.4	490.5	53.93	10.096		
10,100.0	9,842.3	9,836.8	9,834.8	23.2	31.1	-178.61	83.5	-1,501.2	552.3	497.9	54.40	10.152		
10,200.0	9,942.2	9,943.3	9,941.2	23.3	31.5	-179.00	87.2	-1,500.3	558.5	503.5	54.96	10.162		
10,300.0	10,042.1	10,049.4	10,047.3	23.5	31.9	-179.34	90.4	-1,501.0	561.5	506.0	55.50	10.119		
10,400.0	10,142.1	10,150.5	10,148.4	23.6	32.2	-179.66	93.6	-1,501.9	562.5	506.5	55.99	10.047		
10,457.9	10,200.0	10,209.8	10,207.6	23.6	32.4	-89.07	95.5	-1,502.7	562.0	505.8	56.24	9.993		
10,500.0	10,242.1	10,250.3	10,248.1	23.6	32.6	-88.94	96.7	-1,503.2	561.5	505.1	56.40	9.956		
10,600.0	10,342.1	10,350.1	10,347.8	23.7	32.9	-88.69	99.2	-1,504.2	560.7	503.8	56.81	9.868		
10,600.4	10,342.5	10,350.5	10,348.2	23.7	32.9	-88.69	99.2	-1,504.2	560.6	503.8	56.81	9.868		
10,625.0	10,367.1	10,375.8	10,373.5	23.7	33.0	-91.05	99.8	-1,504.4	560.4	503.5	56.91	9.847		
10,650.0	10,392.0	10,401.1	10,398.8	23.7	33.1	-91.34	100.3	-1,504.8	560.1	503.1	57.01	9.826		
10,675.0	10,416.8	10,425.8	10,423.5	23.7	33.2	-91.74	100.8	-1,505.1	559.9	502.8	57.10	9.806		
10,700.0	10,441.4	10,450.4	10,448.1	23.6	33.3	-92.25	101.2	-1,505.4	559.8	502.6	57.19	9.789		
10,720.1	10,461.0	10,469.9	10,467.6	23.6	33.3	-92.74	101.4	-1,505.6	559.7	502.5	57.26	9.776		
10,725.0	10,465.7	10,474.6	10,472.3	23.6	33.3	-92.87	101.5	-1,505.7	559.7	502.5	57.27	9.773		
10,750.0	10,489.7	10,498.7	10,496.4	23.6	33.4	-93.58	101.8	-1,506.0	559.8	502.5	57.35	9.761		
10,775.0	10,513.3	10,522.4	10,520.1	23.6	33.5	-94.38	102.0	-1,506.3	560.1	502.7	57.43	9.753		
10,800.0	10,536.4	10,545.7	10,543.4	23.6	33.6	-95.24	102.1	-1,506.6	560.7	503.2	57.51	9.749		
10,825.0	10,558.9	10,568.5	10,566.2	23.6	33.6	-96.14	102.2	-1,506.9	561.5	503.9	57.58	9.751		
10,850.0	10,580.9	10,589.5	10,587.2	23.6	33.7	-97.02	102.2	-1,507.2	562.7	505.0	57.64	9.762		
10,875.0	10,602.2	10,609.0	10,606.7	23.6	33.8	-97.85	102.3	-1,507.4	564.4	506.7	57.70	9.782		
10,900.0	10,622.8	10,627.8	10,625.5	23.6	33.8	-98.66	102.3	-1,507.5	566.7	508.9	57.75	9.812		
10,925.0	10,642.7	10,645.9	10,643.6	23.6	33.9	-99.42	102.4	-1,507.6	569.5	511.8	57.79	9.855		
10,950.0	10,661.7	10,663.2	10,660.9	23.7	34.0	-100.12	102.5	-1,507.6	573.1	515.3	57.83	9.910		
10,975.0	10,679.8	10,680.1	10,677.8	23.7	34.0	-100.77	102.5	-1,507.6	577.5	519.6	57.87	9.979		
11,000.0	10,697.1	10,696.9	10,694.6	23.7	34.1	-101.36	102.6	-1,507.5	582.5	524.6	57.90	10.061		
11,025.0	10,713.3	10,712.8	10,710.5	23.7	34.1	-101.84	102.7	-1,507.5	588.4	530.5	57.93	10.158		
11,050.0	10,728.6	10,727.6	10,725.3	23.7	34.2	-102.18	102.8	-1,507.4	595.2	537.2	57.95	10.271		
11,075.0	10,742.7	10,741.4	10,739.1	23.8	34.2	-102.36	102.8	-1,507.4	602.8	544.8	57.96	10.400		
11,100.0	10,755.8	10,754.2	10,751.9	23.8	34.3	-102.36	102.9	-1,507.3	611.3	553.3	57.97	10.545		
11,125.0	10,767.8	10,765.8	10,763.5	23.8	34.3	-102.17	102.9	-1,507.2	620.7	562.8	57.97	10.708		
11,150.0	10,778.5	10,776.5	10,774.2	23.9	34.4	-101.80	103.0	-1,507.2	631.0	573.1	57.96	10.887		
11,175.0	10,788.1	10,786.2	10,783.9	23.9	34.4	-101.20	103.0	-1,507.1	642.2	584.3	57.95	11.082		
11,200.0	10,796.5	10,794.6	10,792.3	24.0	34.4	-100.37	103.0	-1,507.1	654.3	596.4	57.93	11.294		
11,225.0	10,803.6	10,801.8	10,799.5	24.0	34.5	-99.27	103.1	-1,507.0	667.2	609.3	57.91	11.522		
11,250.0	10,809.5	10,807.7	10,805.4	24.1	34.5	-97.91	103.1	-1,507.0	680.9	623.0	57.88	11.764		
11,275.0	10,814.0	10,812.3	10,810.0	24.1	34.5	-96.27	103.1	-1,507.0	695.3	637.4	57.84	12.021		
11,300.0	10,817.3	10,815.7	10,813.3	24.2	34.5	-94.34	103.1	-1,506.9	710.4	652.6	57.80	12.291		
11,325.0	10,819.3	10,817.7	10,815.4	24.3	34.5	-92.13	103.1	-1,506.9	726.1	668.3	57.75	12.573		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLOT 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Offset Design:	VALOR PROJECT - VALOR FEDERAL COM #708H - ST01 - AWP											Offset Site Error:	3.0 usft
Survey Program:	122-MWD+IFR1+FDIR, 1244-MWD+IFR1+FDIR, 11654-MWD+IFR1+FDIR, 12268-MWD+IFR1+FDIR											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	
11,350.4	10,820.0	10,818.3	10,816.0	24.3	34.5	-89.60	103.1	-1,506.9	742.6	684.9	57.69	12.871	
11,400.0	10,820.0	10,818.3	10,816.0	24.5	34.5	-89.59	103.1	-1,506.9	776.2	718.6	57.58	13.480	
11,500.0	10,820.0	10,818.3	10,815.9	24.8	34.5	-89.59	103.1	-1,506.9	848.8	791.4	57.39	14.789	
11,600.0	10,820.0	10,818.2	10,815.9	25.1	34.5	-89.58	103.1	-1,506.9	926.5	869.3	57.24	16.186	

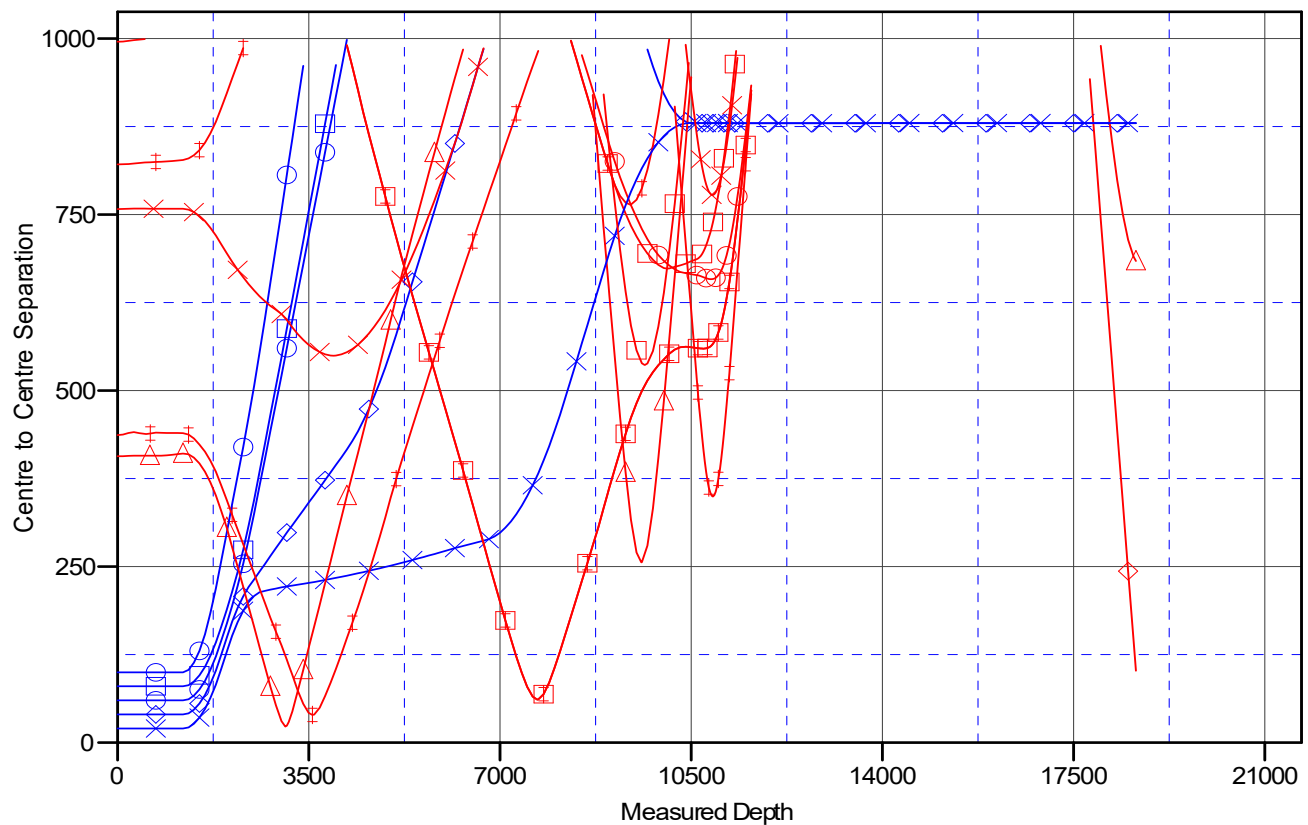
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLOT 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Reference Depths are relative to KB @ 3360.0usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _VALOR FEDERAL COM 501H - Slot SLOT 1
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.42°

Ladder Plot**LEGEND**

● _COLUMBUS FED COM 506H, OWB, PWP0 V0	● _VALOR FEDERAL COM 503H OWB, PWP0 V0	■ LOMAS ROJAS STATE COM 26 001H, OWB, AWP V0
▲ BATTLE AXE FEDERAL COM #2H, OWB, AWP V0	● _VALOR FEDERAL COM 504H OWB, PWP0 V0	▲ VALOR FED COM #704H, OWB, AWP V0
● CALM BREEZE 2 FEDERAL COM #703H, OWB, AWP V0	● _VALOR FEDERAL COM 505H OWB, PWP0 V0	▲ VALOR FED COM 706H, OWB, AWP V0
● CALM BREEZE 2 FEDERAL COM #704H, OWB, AWP V0	● _VALOR FEDERAL COM 506H OWB, PWP0 V0	▲ VALOR FED COM 707H, OWB, AWP V0
● COLUMBUS FEDERAL COM #21H, OWB, AWP V0	● LOMAS ROJAS 26 STATE COM 002H, OWB, AWP V0	▲ VALOR FEDERAL COM #708H OWB, AWP V0
● ROJO C 7811 JV-P #1H, OWB, AWP V0	● LOMAS ROJAS 26 STATE COM 003H, OWB, AWP V0	● VALOR FEDERAL COM #708H ST01, AWP V0
● ROJO C 7811 JV-P #1H, ST01, AWP V0	● LOMAS ROJAS 26 STATE COM 505H, OWB, AWP V0	
● _VALOR FEDERAL COM 502H OWB, PWP0 V0	● LOMAS ROJAS 26 STATE COM 506H, 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 EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLO 1
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB @ 3360.0usft
Reference Site:	VALOR PROJECT	MD Reference:	KB @ 3360.0usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	_VALOR FEDERAL COM 501H	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:	Reference Datum

Reference Depths are relative to KB @ 3360.0usft

Offset Depths are relative to Offset Datum

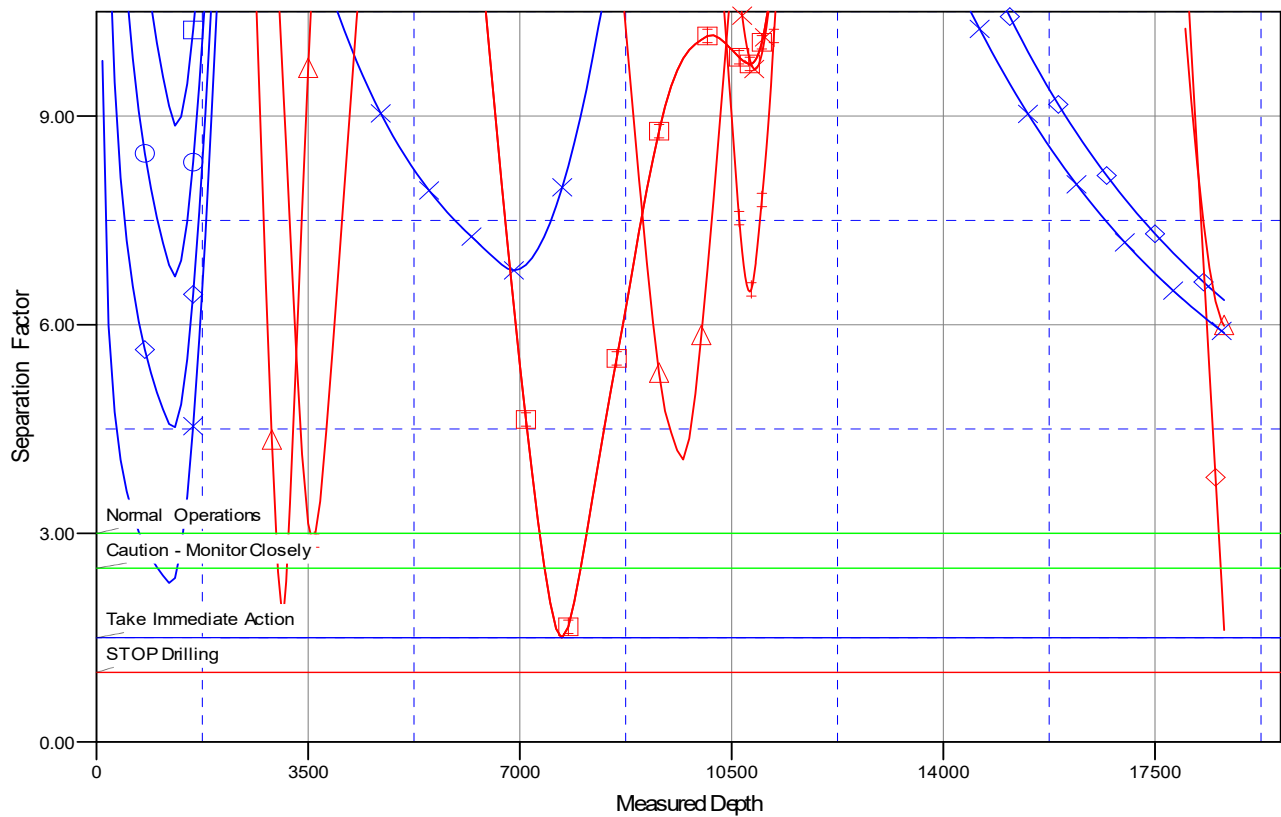
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _VALOR FEDERAL COM 501H - Slot SLO 1

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.42°

Separation Factor Plot



LEGEND

● _COLUMBUS FED COM 506H, OWB, PWP0 V0	● _VALOR FEDERAL COM 503H, OWB, PWP0 V0	● LOMAS ROJAS STATE COM 26001H, OWB, AWP V0
● BATTLE AXE FEDERAL COM #2H, OWB, AWP V0	● _VALOR FEDERAL COM 504H, OWB, PWP0 V0	● VALOR FED COM #704H, OWB, AWP V0
● CALM BREEZE 2 FEDERAL COM #703H, OWB, AWP V0	● _VALOR FEDERAL COM 505H, OWB, PWP0 V0	● VALOR FED COM 706H, OWB, AWP V0
● CALM BREEZE 2 FEDERAL COM #704H, OWB, AWP V0	● _VALOR FEDERAL COM 506H, OWB, PWP0 V0	● VALOR FED COM 707H, OWB, AWP V0
● COLUMBUS FEDERAL COM #21H, OWB, AWP V0	● LOMAS ROJAS 26 STATE COM002H, OWB, AWP V0	● VALOR FEDERAL COM #708H, OWB, AWP V0
● ROJO C 7811 JV-P #1H, OWB, AWP V0	● LOMAS ROJAS 26 STATE COM003H, OWB, AWP V0	● VALOR FEDERAL COM #708H ST01, AWP V0
● ROJO C 7811 JV-P #1H, ST01, AWP V0	● LOMAS ROJAS 26 STATE COM505H, OWB, AWP V0	
● _VALOR FEDERAL COM 502H, OWB, PWP0 V0	● LOMAS ROJAS 26 STATE COM506H, OWB, AWP V0	

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

DELAWARE BASIN EAST

LEA COUNT SOUTH WEST (NM-E)

VALOR PROJECT

_VALOR FEDERAL COM 501H - Slot SLOT 1

OWB

Plan: PWP0

Standard Planning Report

11 June, 2025

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLOT 1
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3360.0usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB @ 3360.0usft
Site:	VALOR PROJECT	North Reference:	Grid
Well:	_VALOR FEDERAL COM 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	LEA COUNT SOUTH 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		VALOR PROJECT			
Site Position:		Northing:	398,857.60 usft	Latitude:	32° 5' 38.884 N
From:	Map	Easting:	743,536.00 usft	Longitude:	103° 32' 48.934 W
Position Uncertainty:	3.0 usft	Slot Radius:	13-3/16 "		

Well	_ VALOR FEDERAL COM 501H - Slot SLOT 1					
Well Position	+N/-S	0.0 usft	Northing:	398,665.06 usft	Latitude:	32° 5' 36.900 N
	+E/-W	0.0 usft	Easting:	744,611.18 usft	Longitude:	103° 32' 36.453 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,330.0 usft
Grid Convergence:		0.42 °				

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2024	5/19/2025	6.18	59.60	47,131.43034379

Design	PWP0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	194.65

Plan Survey Tool Program	Date	6/11/2025			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	18,642.6 PWP0 (OWB)	r.5 MWD+IFR1+SAG+FDIR ISCWSA MWD + IFR1 + SAG		

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLOT 1
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3360.0usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB @ 3360.0usft
Site:	VALOR PROJECT	North Reference:	Grid
Well:	_VALOR FEDERAL COM 501H	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	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,900.0	14.00	262.00	1,893.1	-11.8	-84.3	2.00	2.00	0.00	262.00	
2,900.0	14.00	262.00	2,863.4	-45.5	-323.8	0.00	0.00	0.00	0.00	
3,135.9	15.00	280.50	3,091.8	-43.9	-382.1	2.00	0.42	7.84	86.88	
6,175.9	15.00	280.50	6,028.3	99.5	-1,155.8	0.00	0.00	0.00	0.00	
6,324.9	14.87	268.93	6,172.3	102.6	-1,193.9	2.00	-0.09	-7.77	-98.07	
8,970.8	14.87	268.93	8,729.6	89.9	-1,872.8	0.00	0.00	0.00	0.00	
10,457.9	0.00	0.01	10,200.0	86.3	-2,064.6	1.00	-1.00	0.00	180.00	
10,600.4	0.00	0.01	10,342.5	86.3	-2,064.6	0.00	0.00	0.00	0.01	
11,350.4	90.00	179.58	10,820.0	-391.1	-2,061.2	12.00	12.00	23.94	179.58	
18,642.7	90.00	179.58	10,820.0	-7,683.2	-2,007.9	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ VALOR FEDERAL COM 501H - Slot SLOT 1
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3360.0usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB @ 3360.0usft
Site:	VALOR PROJECT	North Reference:	Grid
Well:	_ VALOR FEDERAL COM 501H	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	2.00	262.00	1,300.0	-0.2	-1.7	0.7	2.00	2.00	0.00	
1,400.0	4.00	262.00	1,399.8	-1.0	-6.9	2.7	2.00	2.00	0.00	
1,500.0	6.00	262.00	1,499.5	-2.2	-15.5	6.0	2.00	2.00	0.00	
1,600.0	8.00	262.00	1,598.7	-3.9	-27.6	10.7	2.00	2.00	0.00	
1,700.0	10.00	262.00	1,697.5	-6.1	-43.1	16.8	2.00	2.00	0.00	
1,800.0	12.00	262.00	1,795.6	-8.7	-62.0	24.1	2.00	2.00	0.00	
1,900.0	14.00	262.00	1,893.1	-11.8	-84.3	32.8	2.00	2.00	0.00	
2,000.0	14.00	262.00	1,990.1	-15.2	-108.2	42.1	0.00	0.00	0.00	
2,100.0	14.00	262.00	2,087.1	-18.6	-132.2	51.4	0.00	0.00	0.00	
2,200.0	14.00	262.00	2,184.1	-21.9	-156.1	60.7	0.00	0.00	0.00	
2,300.0	14.00	262.00	2,281.2	-25.3	-180.1	70.0	0.00	0.00	0.00	
2,400.0	14.00	262.00	2,378.2	-28.7	-204.1	79.3	0.00	0.00	0.00	
2,500.0	14.00	262.00	2,475.2	-32.0	-228.0	88.7	0.00	0.00	0.00	
2,600.0	14.00	262.00	2,572.3	-35.4	-252.0	98.0	0.00	0.00	0.00	
2,700.0	14.00	262.00	2,669.3	-38.8	-275.9	107.3	0.00	0.00	0.00	
2,800.0	14.00	262.00	2,766.3	-42.1	-299.9	116.6	0.00	0.00	0.00	
2,900.0	14.00	262.00	2,863.4	-45.5	-323.8	125.9	0.00	0.00	0.00	
3,000.0	14.25	270.14	2,960.3	-47.2	-348.1	133.7	2.00	0.25	8.14	
3,100.0	14.76	277.87	3,057.2	-45.4	-373.0	138.2	2.00	0.51	7.73	
3,135.9	15.00	280.50	3,091.8	-43.9	-382.1	139.1	2.00	0.68	7.33	
3,200.0	15.00	280.50	3,153.8	-40.9	-398.5	140.3	0.00	0.00	0.00	
3,300.0	15.00	280.50	3,250.4	-36.2	-423.9	142.2	0.00	0.00	0.00	
3,400.0	15.00	280.50	3,347.0	-31.5	-449.4	144.1	0.00	0.00	0.00	
3,500.0	15.00	280.50	3,443.6	-26.7	-474.8	145.9	0.00	0.00	0.00	
3,600.0	15.00	280.50	3,540.1	-22.0	-500.2	147.8	0.00	0.00	0.00	
3,700.0	15.00	280.50	3,636.7	-17.3	-525.7	149.7	0.00	0.00	0.00	
3,800.0	15.00	280.50	3,733.3	-12.6	-551.1	151.5	0.00	0.00	0.00	
3,900.0	15.00	280.50	3,829.9	-7.9	-576.6	153.4	0.00	0.00	0.00	
4,000.0	15.00	280.50	3,926.5	-3.2	-602.0	155.3	0.00	0.00	0.00	
4,100.0	15.00	280.50	4,023.1	1.6	-627.5	157.2	0.00	0.00	0.00	
4,200.0	15.00	280.50	4,119.7	6.3	-652.9	159.0	0.00	0.00	0.00	
4,300.0	15.00	280.50	4,216.3	11.0	-678.4	160.9	0.00	0.00	0.00	
4,400.0	15.00	280.50	4,312.9	15.7	-703.8	162.8	0.00	0.00	0.00	
4,500.0	15.00	280.50	4,409.5	20.4	-729.3	164.6	0.00	0.00	0.00	
4,600.0	15.00	280.50	4,506.1	25.1	-754.7	166.5	0.00	0.00	0.00	
4,700.0	15.00	280.50	4,602.7	29.9	-780.2	168.4	0.00	0.00	0.00	
4,800.0	15.00	280.50	4,699.3	34.6	-805.6	170.3	0.00	0.00	0.00	
4,900.0	15.00	280.50	4,795.8	39.3	-831.1	172.1	0.00	0.00	0.00	
5,000.0	15.00	280.50	4,892.4	44.0	-856.5	174.0	0.00	0.00	0.00	
5,100.0	15.00	280.50	4,989.0	48.7	-882.0	175.9	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ VALOR FEDERAL COM 501H - Slot SLOT 1
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3360.0usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB @ 3360.0usft
Site:	VALOR PROJECT	North Reference:	Grid
Well:	_ VALOR FEDERAL COM 501H	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)	
5,200.0	15.00	280.50	5,085.6	53.4	-907.4	177.7	0.00	0.00	0.00	
5,300.0	15.00	280.50	5,182.2	58.2	-932.9	179.6	0.00	0.00	0.00	
5,400.0	15.00	280.50	5,278.8	62.9	-958.3	181.5	0.00	0.00	0.00	
5,500.0	15.00	280.50	5,375.4	67.6	-983.8	183.4	0.00	0.00	0.00	
5,600.0	15.00	280.50	5,472.0	72.3	-1,009.2	185.2	0.00	0.00	0.00	
5,700.0	15.00	280.50	5,568.6	77.0	-1,034.7	187.1	0.00	0.00	0.00	
5,800.0	15.00	280.50	5,665.2	81.7	-1,060.1	189.0	0.00	0.00	0.00	
5,900.0	15.00	280.50	5,761.8	86.5	-1,085.6	190.8	0.00	0.00	0.00	
6,000.0	15.00	280.50	5,858.4	91.2	-1,111.0	192.7	0.00	0.00	0.00	
6,100.0	15.00	280.50	5,955.0	95.9	-1,136.5	194.6	0.00	0.00	0.00	
6,175.9	15.00	280.50	6,028.3	99.5	-1,155.8	196.0	0.00	0.00	0.00	
6,200.0	14.94	278.65	6,051.6	100.5	-1,161.9	196.6	2.00	-0.25	-7.68	
6,300.0	14.85	270.87	6,148.2	102.6	-1,187.5	201.0	2.00	-0.09	-7.78	
6,324.9	14.87	268.93	6,172.3	102.6	-1,193.9	202.6	2.00	0.08	-7.79	
6,400.0	14.87	268.93	6,244.9	102.3	-1,213.1	207.8	0.00	0.00	0.00	
6,500.0	14.87	268.93	6,341.5	101.8	-1,238.8	214.8	0.00	0.00	0.00	
6,600.0	14.87	268.93	6,438.2	101.3	-1,264.4	221.7	0.00	0.00	0.00	
6,700.0	14.87	268.93	6,534.8	100.8	-1,290.1	228.7	0.00	0.00	0.00	
6,800.0	14.87	268.93	6,631.5	100.3	-1,315.8	235.6	0.00	0.00	0.00	
6,900.0	14.87	268.93	6,728.1	99.9	-1,341.4	242.6	0.00	0.00	0.00	
7,000.0	14.87	268.93	6,824.8	99.4	-1,367.1	249.5	0.00	0.00	0.00	
7,100.0	14.87	268.93	6,921.4	98.9	-1,392.7	256.5	0.00	0.00	0.00	
7,200.0	14.87	268.93	7,018.1	98.4	-1,418.4	263.4	0.00	0.00	0.00	
7,300.0	14.87	268.93	7,114.7	97.9	-1,444.1	270.4	0.00	0.00	0.00	
7,400.0	14.87	268.93	7,211.4	97.5	-1,469.7	277.3	0.00	0.00	0.00	
7,500.0	14.87	268.93	7,308.0	97.0	-1,495.4	284.3	0.00	0.00	0.00	
7,600.0	14.87	268.93	7,404.7	96.5	-1,521.0	291.2	0.00	0.00	0.00	
7,700.0	14.87	268.93	7,501.3	96.0	-1,546.7	298.2	0.00	0.00	0.00	
7,800.0	14.87	268.93	7,598.0	95.5	-1,572.4	305.1	0.00	0.00	0.00	
7,900.0	14.87	268.93	7,694.6	95.1	-1,598.0	312.1	0.00	0.00	0.00	
8,000.0	14.87	268.93	7,791.3	94.6	-1,623.7	319.0	0.00	0.00	0.00	
8,100.0	14.87	268.93	7,887.9	94.1	-1,649.3	326.0	0.00	0.00	0.00	
8,200.0	14.87	268.93	7,984.6	93.6	-1,675.0	332.9	0.00	0.00	0.00	
8,300.0	14.87	268.93	8,081.2	93.1	-1,700.6	339.9	0.00	0.00	0.00	
8,400.0	14.87	268.93	8,177.9	92.7	-1,726.3	346.8	0.00	0.00	0.00	
8,500.0	14.87	268.93	8,274.5	92.2	-1,752.0	353.8	0.00	0.00	0.00	
8,600.0	14.87	268.93	8,371.2	91.7	-1,777.6	360.7	0.00	0.00	0.00	
8,700.0	14.87	268.93	8,467.8	91.2	-1,803.3	367.7	0.00	0.00	0.00	
8,800.0	14.87	268.93	8,564.5	90.8	-1,828.9	374.6	0.00	0.00	0.00	
8,900.0	14.87	268.93	8,661.1	90.3	-1,854.6	381.6	0.00	0.00	0.00	
8,970.8	14.87	268.93	8,729.6	89.9	-1,872.8	386.5	0.00	0.00	0.00	
9,000.0	14.58	268.93	8,757.8	89.8	-1,880.2	388.5	1.00	-1.00	0.00	
9,100.0	13.58	268.93	8,854.8	89.3	-1,904.5	395.1	1.00	-1.00	0.00	
9,200.0	12.58	268.93	8,952.2	88.9	-1,927.1	401.2	1.00	-1.00	0.00	
9,300.0	11.58	268.93	9,050.0	88.5	-1,948.1	406.9	1.00	-1.00	0.00	
9,400.0	10.58	268.93	9,148.1	88.2	-1,967.3	412.1	1.00	-1.00	0.00	
9,500.0	9.58	268.93	9,246.6	87.8	-1,984.8	416.9	1.00	-1.00	0.00	
9,600.0	8.58	268.93	9,345.3	87.5	-2,000.5	421.1	1.00	-1.00	0.00	
9,700.0	7.58	268.93	9,444.3	87.3	-2,014.6	424.9	1.00	-1.00	0.00	
9,800.0	6.58	268.93	9,543.6	87.1	-2,026.9	428.3	1.00	-1.00	0.00	
9,900.0	5.58	268.93	9,643.0	86.9	-2,037.5	431.2	1.00	-1.00	0.00	
10,000.0	4.58	268.93	9,742.6	86.7	-2,046.4	433.6	1.00	-1.00	0.00	
10,100.0	3.58	268.93	9,842.3	86.6	-2,053.5	435.5	1.00	-1.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLOT 1
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3360.0usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB @ 3360.0usft
Site:	VALOR PROJECT	North Reference:	Grid
Well:	_VALOR FEDERAL COM 501H	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)	
10,200.0	2.58	268.93	9,942.2	86.5	-2,058.8	436.9	1.00	-1.00	0.00	
10,300.0	1.58	268.93	10,042.1	86.4	-2,062.5	437.9	1.00	-1.00	0.00	
10,400.0	0.58	268.93	10,142.1	86.4	-2,064.3	438.4	1.00	-1.00	0.00	
10,457.9	0.00	0.01	10,200.0	86.3	-2,064.6	438.5	1.00	-1.00	0.00	
10,500.0	0.00	0.00	10,242.1	86.3	-2,064.6	438.5	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,342.1	86.3	-2,064.6	438.5	0.00	0.00	0.00	
10,600.4	0.00	0.01	10,342.5	86.3	-2,064.6	438.5	0.00	0.00	0.00	
10,700.0	11.95	179.58	10,441.4	76.0	-2,064.6	448.5	12.00	12.00	0.00	
10,800.0	23.95	179.58	10,536.4	45.2	-2,064.3	478.2	12.00	12.00	0.00	
10,900.0	35.95	179.58	10,622.8	-4.6	-2,064.0	526.3	12.00	12.00	0.00	
11,000.0	47.95	179.58	10,697.1	-71.3	-2,063.5	590.8	12.00	12.00	0.00	
11,100.0	59.95	179.58	10,755.8	-152.0	-2,062.9	668.7	12.00	12.00	0.00	
11,200.0	71.95	179.58	10,796.5	-243.2	-2,062.2	756.7	12.00	12.00	0.00	
11,300.0	83.95	179.58	10,817.3	-340.8	-2,061.5	851.0	12.00	12.00	0.00	
11,350.4	90.00	179.58	10,820.0	-391.1	-2,061.2	899.6	12.00	12.00	0.00	
11,400.0	90.00	179.58	10,820.0	-440.7	-2,060.8	947.5	0.00	0.00	0.00	
11,500.0	90.00	179.58	10,820.0	-540.7	-2,060.1	1,044.0	0.00	0.00	0.00	
11,600.0	90.00	179.58	10,820.0	-640.7	-2,059.3	1,140.6	0.00	0.00	0.00	
11,700.0	90.00	179.58	10,820.0	-740.7	-2,058.6	1,237.2	0.00	0.00	0.00	
11,800.0	90.00	179.58	10,820.0	-840.7	-2,057.9	1,333.7	0.00	0.00	0.00	
11,900.0	90.00	179.58	10,820.0	-940.7	-2,057.1	1,430.3	0.00	0.00	0.00	
12,000.0	90.00	179.58	10,820.0	-1,040.7	-2,056.4	1,526.9	0.00	0.00	0.00	
12,100.0	90.00	179.58	10,820.0	-1,140.7	-2,055.7	1,623.4	0.00	0.00	0.00	
12,200.0	90.00	179.58	10,820.0	-1,240.7	-2,055.0	1,720.0	0.00	0.00	0.00	
12,300.0	90.00	179.58	10,820.0	-1,340.7	-2,054.2	1,816.5	0.00	0.00	0.00	
12,400.0	90.00	179.58	10,820.0	-1,440.7	-2,053.5	1,913.1	0.00	0.00	0.00	
12,500.0	90.00	179.58	10,820.0	-1,540.7	-2,052.8	2,009.7	0.00	0.00	0.00	
12,600.0	90.00	179.58	10,820.0	-1,640.7	-2,052.0	2,106.2	0.00	0.00	0.00	
12,700.0	90.00	179.58	10,820.0	-1,740.7	-2,051.3	2,202.8	0.00	0.00	0.00	
12,800.0	90.00	179.58	10,820.0	-1,840.7	-2,050.6	2,299.4	0.00	0.00	0.00	
12,900.0	90.00	179.58	10,820.0	-1,940.7	-2,049.8	2,395.9	0.00	0.00	0.00	
13,000.0	90.00	179.58	10,820.0	-2,040.7	-2,049.1	2,492.5	0.00	0.00	0.00	
13,100.0	90.00	179.58	10,820.0	-2,140.7	-2,048.4	2,589.1	0.00	0.00	0.00	
13,200.0	90.00	179.58	10,820.0	-2,240.7	-2,047.7	2,685.6	0.00	0.00	0.00	
13,300.0	90.00	179.58	10,820.0	-2,340.7	-2,046.9	2,782.2	0.00	0.00	0.00	
13,400.0	90.00	179.58	10,820.0	-2,440.7	-2,046.2	2,878.7	0.00	0.00	0.00	
13,500.0	90.00	179.58	10,820.0	-2,540.7	-2,045.5	2,975.3	0.00	0.00	0.00	
13,600.0	90.00	179.58	10,820.0	-2,640.7	-2,044.7	3,071.9	0.00	0.00	0.00	
13,700.0	90.00	179.58	10,820.0	-2,740.7	-2,044.0	3,168.4	0.00	0.00	0.00	
13,800.0	90.00	179.58	10,820.0	-2,840.7	-2,043.3	3,265.0	0.00	0.00	0.00	
13,900.0	90.00	179.58	10,820.0	-2,940.7	-2,042.5	3,361.6	0.00	0.00	0.00	
14,000.0	90.00	179.58	10,820.0	-3,040.7	-2,041.8	3,458.1	0.00	0.00	0.00	
14,100.0	90.00	179.58	10,820.0	-3,140.6	-2,041.1	3,554.7	0.00	0.00	0.00	
14,200.0	90.00	179.58	10,820.0	-3,240.6	-2,040.4	3,651.3	0.00	0.00	0.00	
14,300.0	90.00	179.58	10,820.0	-3,340.6	-2,039.6	3,747.8	0.00	0.00	0.00	
14,400.0	90.00	179.58	10,820.0	-3,440.6	-2,038.9	3,844.4	0.00	0.00	0.00	
14,500.0	90.00	179.58	10,820.0	-3,540.6	-2,038.2	3,940.9	0.00	0.00	0.00	
14,600.0	90.00	179.58	10,820.0	-3,640.6	-2,037.4	4,037.5	0.00	0.00	0.00	
14,700.0	90.00	179.58	10,820.0	-3,740.6	-2,036.7	4,134.1	0.00	0.00	0.00	
14,800.0	90.00	179.58	10,820.0	-3,840.6	-2,036.0	4,230.6	0.00	0.00	0.00	
14,900.0	90.00	179.58	10,820.0	-3,940.6	-2,035.3	4,327.2	0.00	0.00	0.00	
15,000.0	90.00	179.58	10,820.0	-4,040.6	-2,034.5	4,423.8	0.00	0.00	0.00	
15,100.0	90.00	179.58	10,820.0	-4,140.6	-2,033.8	4,520.3	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ VALOR FEDERAL COM 501H - Slot SLOT 1
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3360.0usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB @ 3360.0usft
Site:	VALOR PROJECT	North Reference:	Grid
Well:	_ VALOR FEDERAL COM 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

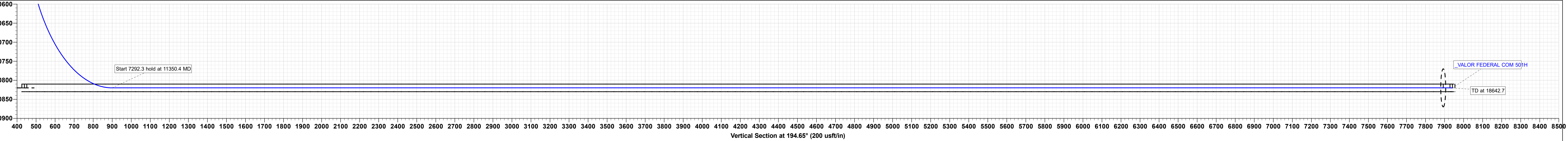
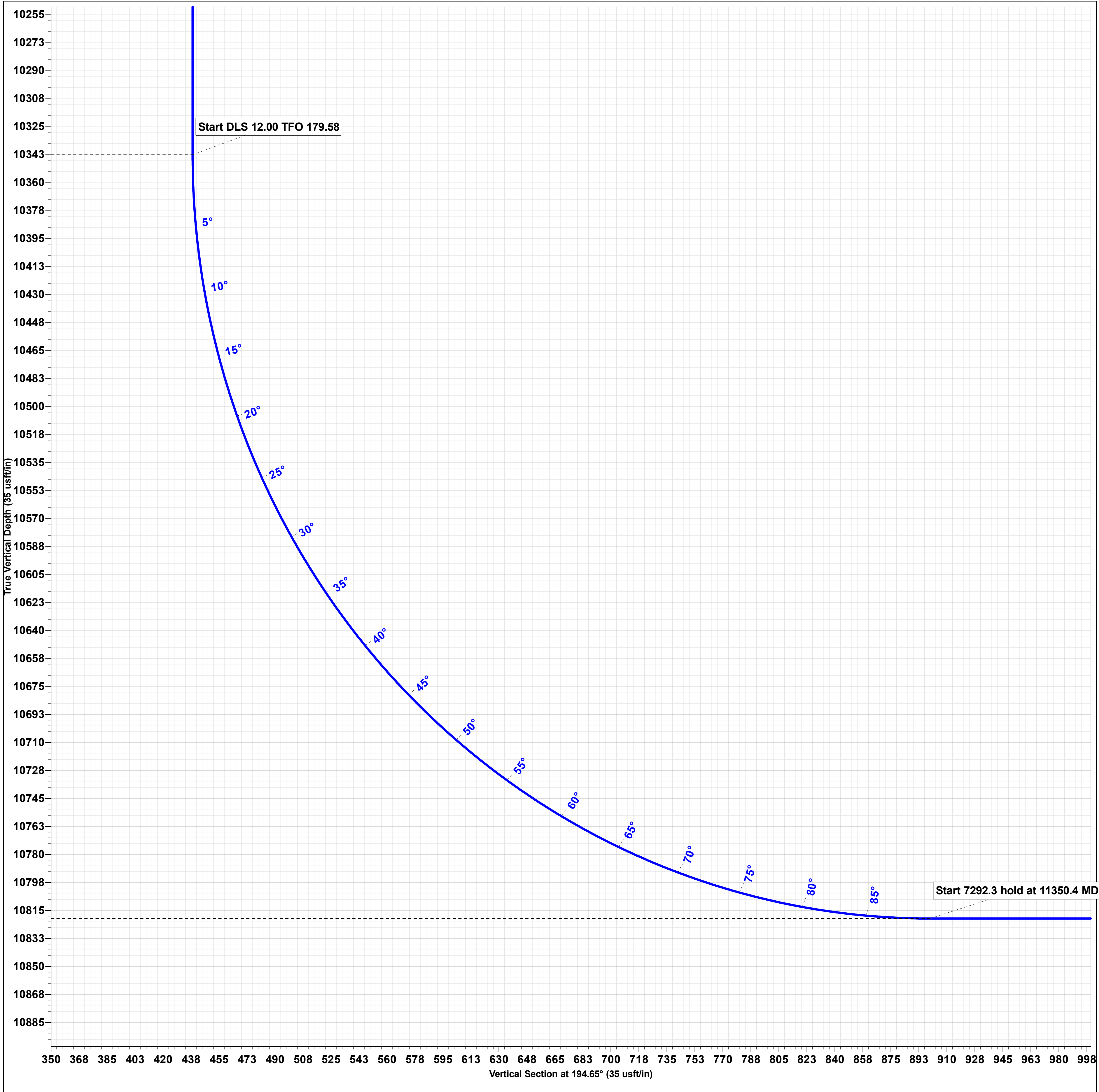
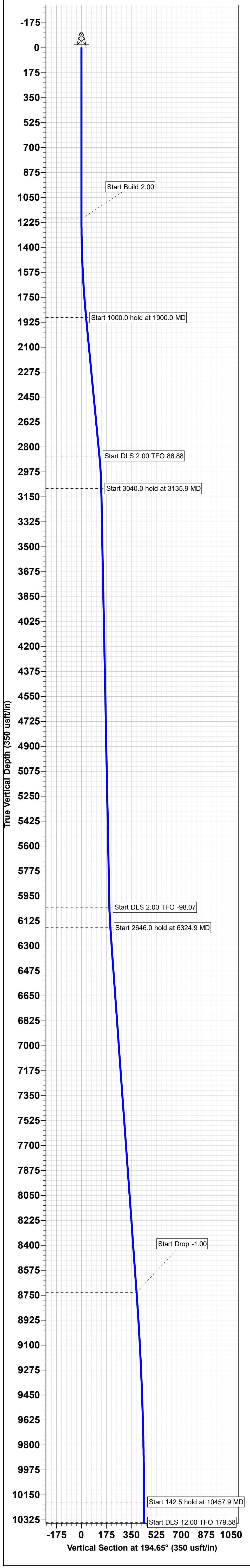
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
15,200.0	90.00	179.58	10,820.0	-4,240.6	-2,033.1	4,616.9	0.00	0.00	0.00	
15,300.0	90.00	179.58	10,820.0	-4,340.6	-2,032.3	4,713.4	0.00	0.00	0.00	
15,400.0	90.00	179.58	10,820.0	-4,440.6	-2,031.6	4,810.0	0.00	0.00	0.00	
15,500.0	90.00	179.58	10,820.0	-4,540.6	-2,030.9	4,906.6	0.00	0.00	0.00	
15,600.0	90.00	179.58	10,820.0	-4,640.6	-2,030.1	5,003.1	0.00	0.00	0.00	
15,700.0	90.00	179.58	10,820.0	-4,740.6	-2,029.4	5,099.7	0.00	0.00	0.00	
15,800.0	90.00	179.58	10,820.0	-4,840.6	-2,028.7	5,196.3	0.00	0.00	0.00	
15,900.0	90.00	179.58	10,820.0	-4,940.6	-2,028.0	5,292.8	0.00	0.00	0.00	
16,000.0	90.00	179.58	10,820.0	-5,040.6	-2,027.2	5,389.4	0.00	0.00	0.00	
16,100.0	90.00	179.58	10,820.0	-5,140.6	-2,026.5	5,486.0	0.00	0.00	0.00	
16,200.0	90.00	179.58	10,820.0	-5,240.6	-2,025.8	5,582.5	0.00	0.00	0.00	
16,300.0	90.00	179.58	10,820.0	-5,340.6	-2,025.0	5,679.1	0.00	0.00	0.00	
16,400.0	90.00	179.58	10,820.0	-5,440.6	-2,024.3	5,775.6	0.00	0.00	0.00	
16,500.0	90.00	179.58	10,820.0	-5,540.6	-2,023.6	5,872.2	0.00	0.00	0.00	
16,600.0	90.00	179.58	10,820.0	-5,640.6	-2,022.9	5,968.8	0.00	0.00	0.00	
16,700.0	90.00	179.58	10,820.0	-5,740.6	-2,022.1	6,065.3	0.00	0.00	0.00	
16,800.0	90.00	179.58	10,820.0	-5,840.6	-2,021.4	6,161.9	0.00	0.00	0.00	
16,900.0	90.00	179.58	10,820.0	-5,940.6	-2,020.7	6,258.5	0.00	0.00	0.00	
17,000.0	90.00	179.58	10,820.0	-6,040.6	-2,019.9	6,355.0	0.00	0.00	0.00	
17,100.0	90.00	179.58	10,820.0	-6,140.6	-2,019.2	6,451.6	0.00	0.00	0.00	
17,200.0	90.00	179.58	10,820.0	-6,240.6	-2,018.5	6,548.2	0.00	0.00	0.00	
17,300.0	90.00	179.58	10,820.0	-6,340.6	-2,017.7	6,644.7	0.00	0.00	0.00	
17,400.0	90.00	179.58	10,820.0	-6,440.6	-2,017.0	6,741.3	0.00	0.00	0.00	
17,500.0	90.00	179.58	10,820.0	-6,540.6	-2,016.3	6,837.8	0.00	0.00	0.00	
17,600.0	90.00	179.58	10,820.0	-6,640.6	-2,015.6	6,934.4	0.00	0.00	0.00	
17,700.0	90.00	179.58	10,820.0	-6,740.6	-2,014.8	7,031.0	0.00	0.00	0.00	
17,800.0	90.00	179.58	10,820.0	-6,840.6	-2,014.1	7,127.5	0.00	0.00	0.00	
17,900.0	90.00	179.58	10,820.0	-6,940.5	-2,013.4	7,224.1	0.00	0.00	0.00	
18,000.0	90.00	179.58	10,820.0	-7,040.5	-2,012.6	7,320.7	0.00	0.00	0.00	
18,100.0	90.00	179.58	10,820.0	-7,140.5	-2,011.9	7,417.2	0.00	0.00	0.00	
18,200.0	90.00	179.58	10,820.0	-7,240.5	-2,011.2	7,513.8	0.00	0.00	0.00	
18,300.0	90.00	179.58	10,820.0	-7,340.5	-2,010.4	7,610.4	0.00	0.00	0.00	
18,400.0	90.00	179.58	10,820.0	-7,440.5	-2,009.7	7,706.9	0.00	0.00	0.00	
18,500.0	90.00	179.58	10,820.0	-7,540.5	-2,009.0	7,803.5	0.00	0.00	0.00	
18,600.0	90.00	179.58	10,820.0	-7,640.5	-2,008.3	7,900.0	0.00	0.00	0.00	
18,642.7	90.00	179.58	10,820.0	-7,683.2	-2,007.9	7,941.2	0.00	0.00	0.00	

Design Targets										
Target Name										
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting			
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude	
FTP_VALOR FEDERAL	0.00	0.00	10,820.0	86.3	-2,064.6	398,751.41	742,546.54	32° 5' 37.904 N	103° 33' 0.445 W	
- plan misses target center by 198.2usft at 10986.0usft MD (10687.5 TVD, -61.1 N, -2063.6 E)										
- Circle (radius 50.0)										
LTP_VALOR FEDERAL	90.00	179.58	10,820.0	-7,633.2	-2,008.3	391,031.86	742,602.86	32° 4' 21.510 N	103° 33' 0.442 W	
- plan hits target center										
- Circle (radius 50.0)										
PBHL_VALOR FEDERA	0.00	359.58	10,820.0	-7,683.2	-2,007.9	390,981.86	742,603.23	32° 4' 21.015 N	103° 33' 0.441 W	
- plan hits target center										
- Rectangle (sides W100.0 H7,770.0 D20.0)										

ConocoPhillips
Planning Report

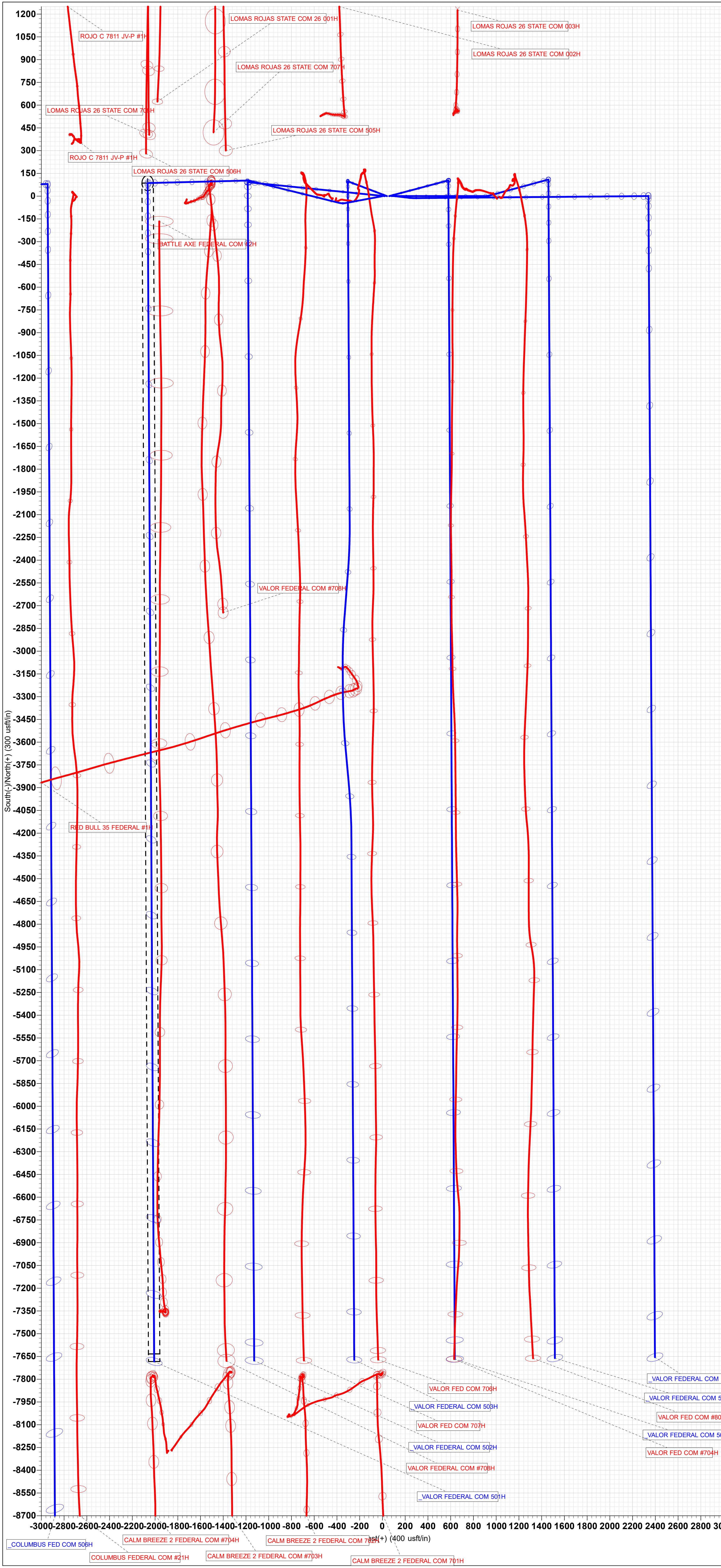
Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 501H - Slot SLOT 1
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3360.0usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB @ 3360.0usft
Site:	VALOR PROJECT	North Reference:	Grid
Well:	_VALOR FEDERAL COM 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Casing Points					
	Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
	18,642.7	10,820.0	5-1/2" Production Casing	5-1/2	6



Project: LEA COUNT SOUTH WEST (NM-E)
Site: VALOR PROJECT
Well: VALOR FEDERAL COM 501H
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	
1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
1900.0	14.00	262.00	1893.1	-11.8	-84.3	2.00	262.00	32.8	
2900.0	14.00	262.00	2863.4	-45.5	-323.8	0.00	0.00	125.9	
3135.9	15.00	280.50	3091.8	-43.9	-382.1	2.00	86.88	139.1	
6175.9	15.00	280.50	6028.3	99.5	-1155.8	0.00	0.00	196.0	
6324.9	14.87	268.93	6172.3	102.6	-1193.9	2.00	-98.07	202.6	
8970.8	14.87	268.93	8729.6	89.9	-1872.8	0.00	0.00	386.5	
10457.9	0.00	0.00	10200.0	86.3	-2064.6	1.00	180.00	438.5	
10600.4	0.00	0.00	10342.5	86.3	-2064.6	0.00	0.00	438.5	
11350.4	90.00	179.58	10820.0	-391.1	-2061.2	12.00	179.58	899.6	
18642.7	90.00	179.58	10820.0	-7683.2	-2007.9	0.00	0.00	7941.2	



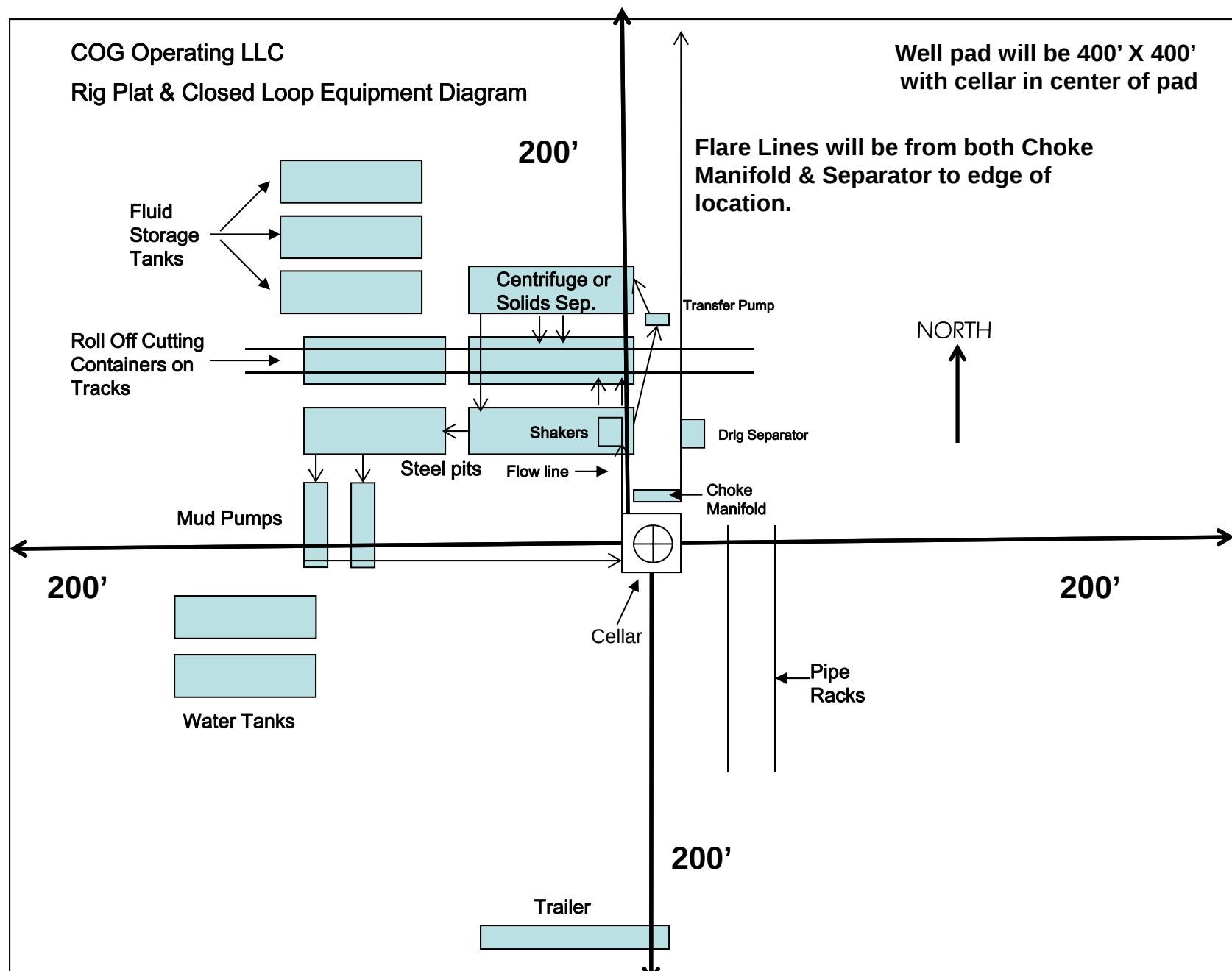


Exhibit 1

"I further certify that COG will comply with Rule 19.15.17 NMAC by using a Closed Loop System."

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: COG Operating LLC

OGRID: 229137

Date: 06/24/2025

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Valor Federal Com 501H	30-025-	C-35-25S-33E	200 FNL & 2390 FWL	± 399	± 1255	± 1083
Valor Federal Com 502H	30-025-	C-35-25S-33E	200 FNL & 2410 FWL	± 520	± 1630	± 1417
Valor Federal Com 503H	30-025-	C-35-25S-33E	200 FNL & 2430 FWL	± 534	± 1682	± 1450
Valor Federal Com 504H	30-025-	C-35-25S-33E	200 FNL & 2450 FWL	± 366	± 1148	± 996
Valor Federal Com 505H	30-025-	C-35-25S-33E	200 FNL & 2470 FWL	± 536	± 1691	± 1455
Valor Federal Com 506H	30-025-	C-35-25S-33E	200 FNL & 2490 FWL	± 525	± 1649	± 1429

IV. Central Delivery Point Name: 35 B CTB 35-25S-33E [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Valor Federal Com	Pending	± 08/13/2026	± 25 days from spud	TBD	TBD	TBD
501H, 502H, 503H, 504H, 505H, 506H						

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

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

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

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

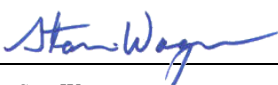
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

Signature: 
Printed Name: Stan Wagner
Title: Regulatory Advisor
E-mail Address: stan.s.wagner@conocophillips.com
Date: 06/24/2025
Phone: 432-253-9685
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

All ConocoPhillips production facility equipment will be sized per industry standards (API 12J) with adequate retention time to effectively separate all phases of production. Each project will take into consideration the number of wells and type curves for each formation pool to ensure adequate facility capacity. Design considerations will also include review of all piping, tanks, VRU's and associated equipment to ensure optimized gas capture minimized risk of release.

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

- During drilling, flare stacks will be located a minimum of 100 feet from the nearest surface hole location. All gas is captured or combusted. If an emergency or malfunction occurs, gas will be flared or vented for public health, safety, and the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.

C. Completion Operations

- During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.
- Individual well test separators will be set to properly separate gas and liquids. A temporary test separator will be utilized initially to process volumes. In addition, separators will be tied into flowback tanks which will be tied into the gas processing equipment for sales down a pipeline.

D. Venting and flaring during production operations

- During each phase of well life (drilling, completion and production) of a ConocoPhillips well, COP personnel will follow all necessary procedures to ensure both the operation and the equipment are within the NMAC 19.15.27.8 Subsection D guidelines.
- During well operations that require unloading of the well to atmospheric pressure, all reasonable actions will be taken to minimize vented gas
- Through the life of the well all flaring shall be measured, and venting events quantified using the data available and industry best practice.

E. Performance standards for separation, storage tank and flare equipment

- All storage tanks and separation equipment are designed minimize risk of liquid or vapor release and optimize gas capture. This includes automation for automatic gauging and pressure monitoring.

- All flare stacks are equipped with auto ignition devices and/or continuous pilots and are designed to operate at maximum combustion efficiency pursuant NMAC 19.15.27.8 Subsection E. Flares will follow COP spacing guidelines to ensure they are a safe distance from combustibles and operations equipment.
- COP personnel will conduct routine AVO inspections on a regular basis per NMAC 19.15.27.8 Subsection E guidelines.

F. Measurement of vented and flared natural gas.

- Measurement equipment will be installed to quantify gas flared during drilling, completion and production of the well.
- All measurement devices installed will meet accuracy ratings per AGA and API standards.
- Measurement devices will be installed without manifolds that allow diversion of gas around the metering element, except for the sole purpose of inspection of servicing the measurement device.

VIII. Best Management Practices

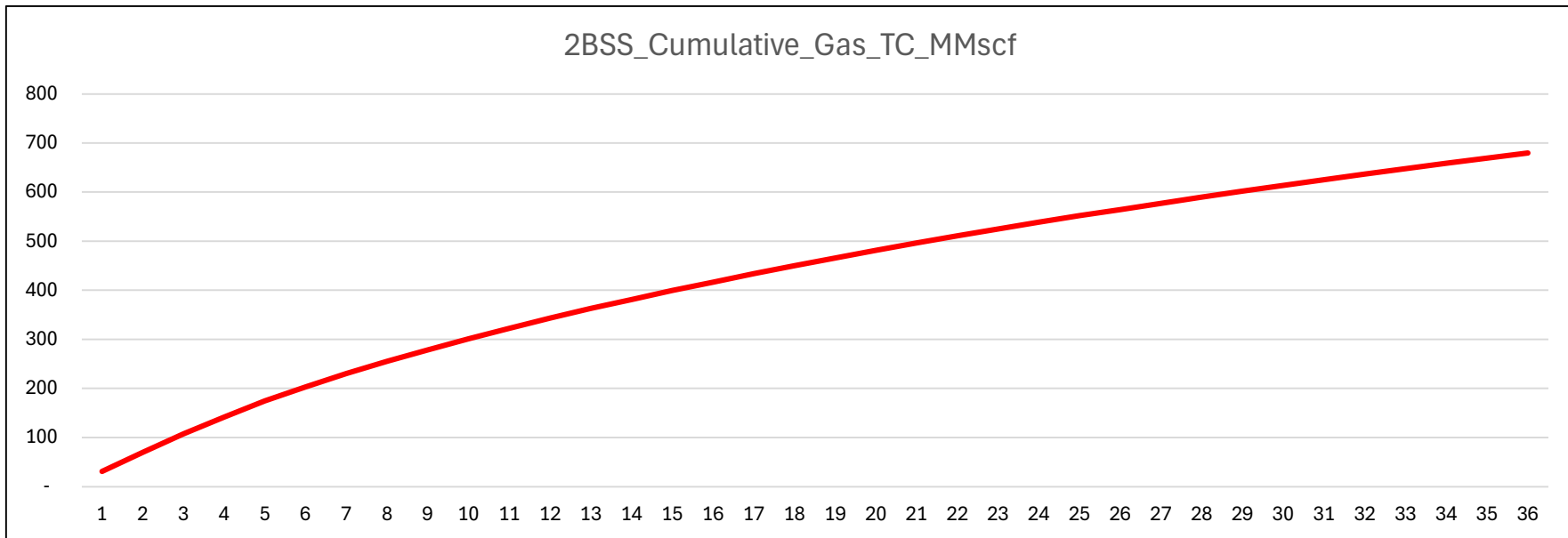
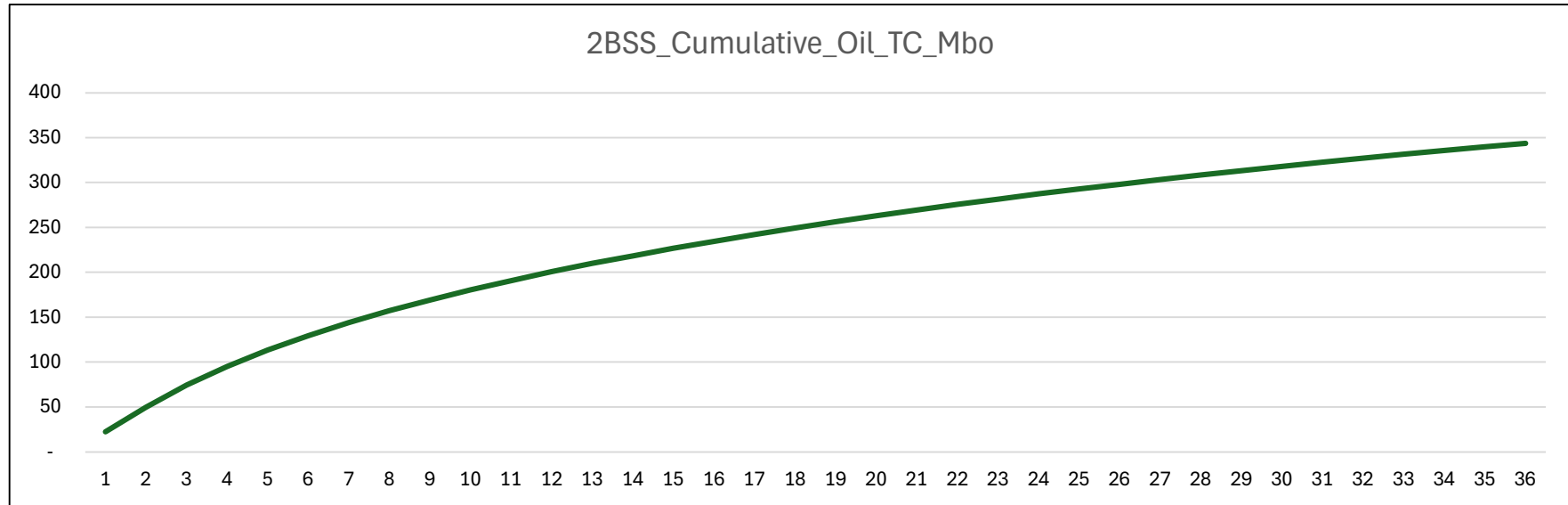
- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize blowdowns to atmosphere
- When feasible, Operator will use electric or air actuated equipment to reduce bleed emissions

Waste Minimization Plan

Per § 3162.3-1 Drilling applications and plans. Part J:

- (1) The anticipated initial oil production rate from the oil well and the anticipated production decline over the first 3 years of production.
 - a. See attached Anticipated Production & Decline Curve
- (2) The anticipated initial oil-well gas production rate from the oil well and the anticipated production decline over the first 3 years of production.
 - a. See attached Anticipated Production & Decline Curve
- (3) Certification that the operator has a valid, executed gas sales contract to sell to a purchaser 100 percent of the produced oil-well gas, less gas anticipated for use on-lease pursuant to 43 CFR subpart 3178.
 - a. See attached NMOCD – Natural Gas Management Plan
- (4) Any other information demonstrating the operator's plans to avoid the waste of gas production from any source, including, as appropriate, from pneumatic equipment, storage tanks, and leaks.
 - a. This location will comply with NSPS OOOOb which will include reduced associated gas flaring, non-emitting pneumatic equipment, storage tanks that are controlled and a rigorous leak detection and repair program. In addition, this facility complies with 20.2.50 NMAC (Ozone Precursor Pollutants) which also imposes standards on pneumatic equipment, tank controls, and leak detection and repair. Finally, this facility must comply with 19.15.27 NMAC (Venting and Flaring of Natural Gas) which significantly reduces instances of flaring.

Anticipated Production Decline Curve



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG OPERATING LLC
WELL NAME & NO.:	VALOR FED COM 501H
LOCATION:	Section 35, T.25 S., R.33 E.
COUNTY:	Lea County, New Mexico

COA

H2S	☒ Yes	☐ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☒ Low	☐ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☒ Conventional	☐ Multibowl	☐ Both
Wellhead Variance	☐ Diverter		
Other	☐ 4 String	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	☐ Contingency Cement Squeeze	☐ EchoMeter	☐ Primary Cement Squeeze
Special Requirements	☐ Water Disposal	☒ COM	☐ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements Variance	☐ Break Testing	☒ Offline Cementing	☐ Casing Clearance

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.

B. CASING

Primary Casing Design:

1. The 13-3/8 inch surface casing shall be set at approximately **1300 feet per BLM Geologist** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be **17 1/2 inch** in diameter.

- 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.

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.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Contingency Squeeze:

Operator has proposed to pump down 13-3/8" X 9-5/8" annulus. Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator can also check TOC with Echo-meter. CBL must be run from TD of the 9-5/8" casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

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 **13-3/8** 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)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 2.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

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)

☒ 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 7/29/2025

Sante Fe Main Office
Phone: (505) 476-3441

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

ACKNOWLEDGMENTS

Action 508644

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 508644
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☒	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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COMMENTS

Action 508644

COMMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 508644
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

COMMENTS

Created By	Comment	Comment Date
jeffrey.harrison	Submitted as infill to 30-025-55511.	12/2/2025

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CONDITIONS

Action 508644

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	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
stanwagner	Cement is required to circulate on both surface and intermediate1 strings of casing.	9/23/2025
stanwagner	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	9/23/2025
jeffrey.harrison	NSP required if not included in an existing order or not an infill to an appropriate defining well in the same pool and spacing unit.	12/1/2025
jeffrey.harrison	Surface casing shall be set a minimum of 25' into the Rustler Anhydrite, above the salt, and below usable fresh water and cemented to the surface. If salt is encountered set casing at least 25 ft. above the salt.	12/1/2025
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/1/2025
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	12/1/2025
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	12/1/2025
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	12/1/2025