

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		9. API Well No. 30-025-55514
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

25. Signature	Name (Printed/Typed)	Date
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 / 2450 FWL / TWSP: 25S / RANGE: 33E / SECTION: 35 / LAT: 32.093709 / LONG: -103.543745 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 100 FNL / 2311 FEL / TWSP: 25S / RANGE: 33E / SECTION: 35 / LAT: 32.093982 / LONG: -103.542058 (TVD: 10682 feet, MD: 10759 feet)

PPP: NWSE / 2641 FNL / 2311 FEL / TWSP: 25S / RANGE: 33E / SECTION: 35 / LAT: 32.086996 / LONG: -103.542056 (TVD: 10820 feet, MD: 13299 feet)

BHL: SWNE / 2590 FNL / 2311 FEL / TWSP: 26S / RANGE: 33E / SECTION: 2 / LAT: 32.072615 / LONG: -103.542053 (TVD: 10820 feet, MD: 18424 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- 55514	Pool Code 97741	Pool Name WC-025 G-09 S253335K; Lower Bone Spring
Property Code 325776 327008	Property Name VALOR FEDERAL COM	Well Number 504H
OGRID No. 229137	Operator Name COG OPERATING LLC	Ground Level Elevation 3323.0'
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	2450 FWL	32.093709°N	103.543745°W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	2	26-S	33-E		2590 FNL	2311 FEL	32.072615°N	103.542053°W	LEA

Dedicated Acres 960	Infill or Defining Well Defining	Defining Well API Pending 504H	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	2450 FWL	32.093709°N	103.543745°W	LEA

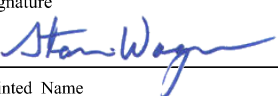
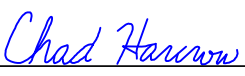
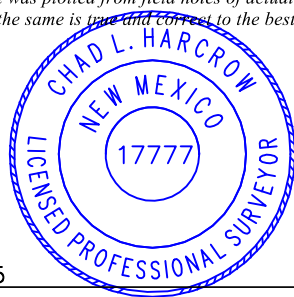
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	35	25-S	33-E		100 FNL	2311 FEL	32.093982°N	103.542058°W	LEA

Last Take Point (LTP)

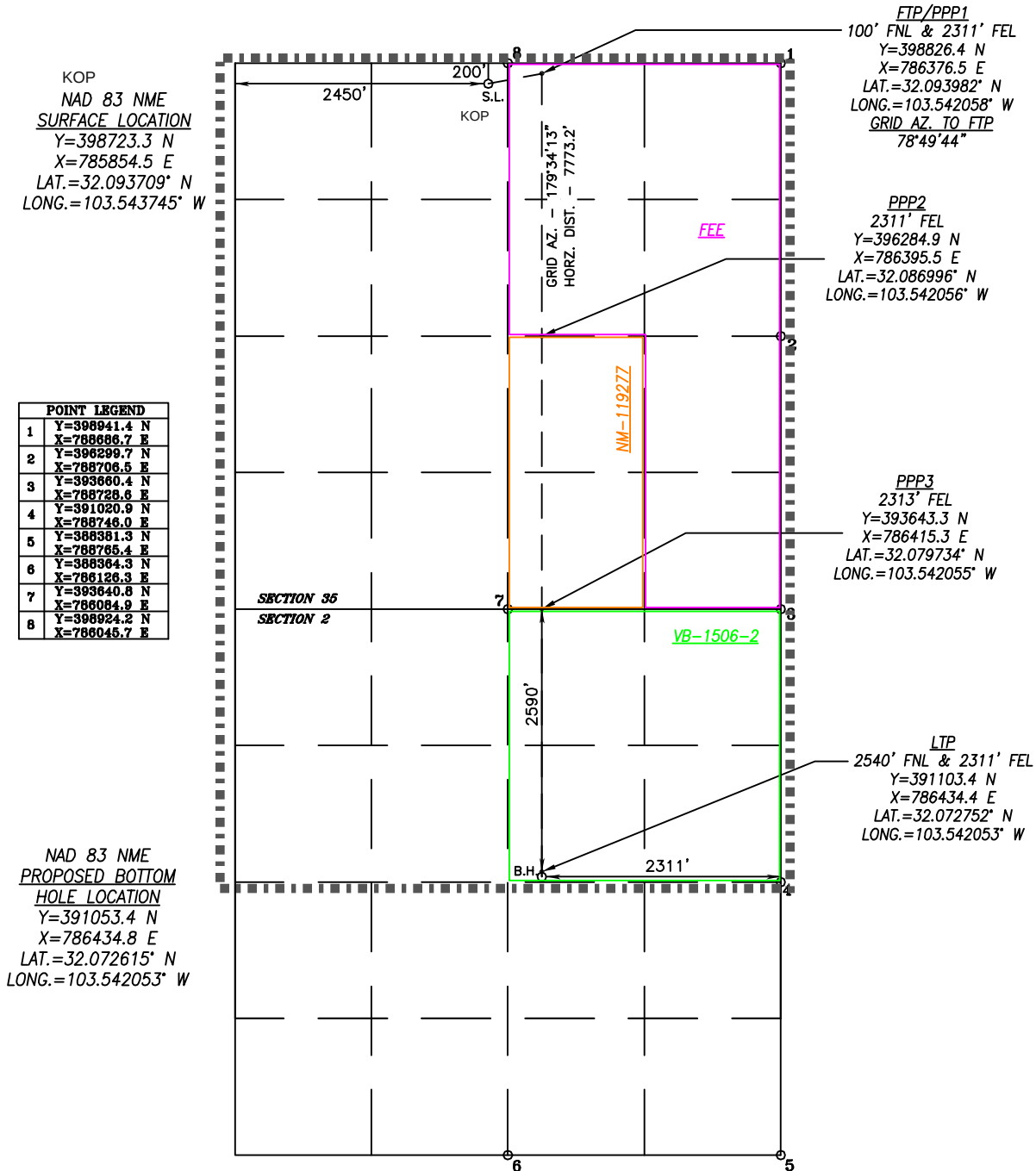
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
G	2	26-S	33-E		2540 FNL	2311 FEL	32.072752°N	103.542053°W	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3323.0'
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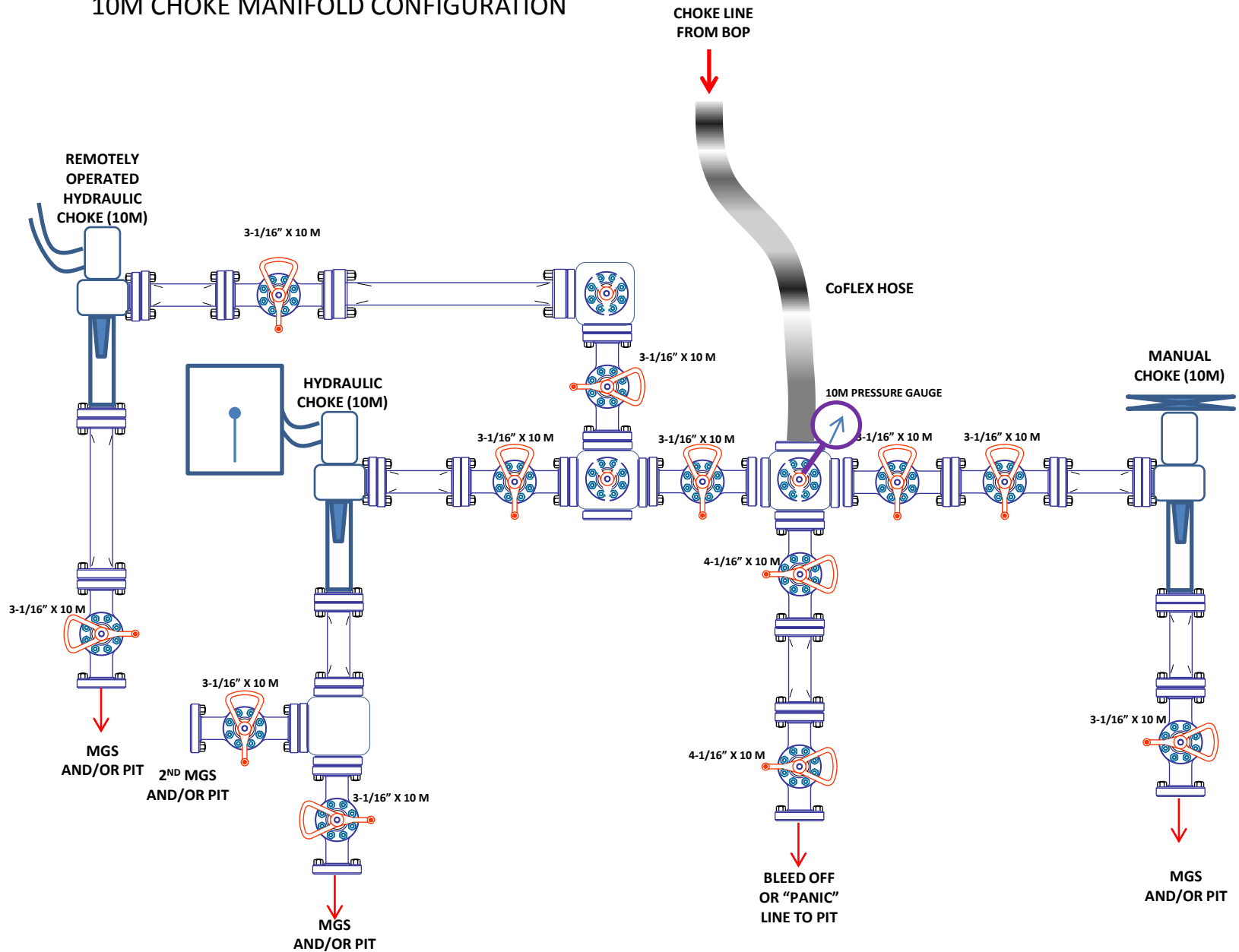
OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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 6/20/25	Signature and Seal of Professional Surveyor  6/1/25 	
Printed Name Stan Wagner		Certificate Number 17777	Date of Survey MAY 24, 2025
Email Address		W.O.#25-523	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.

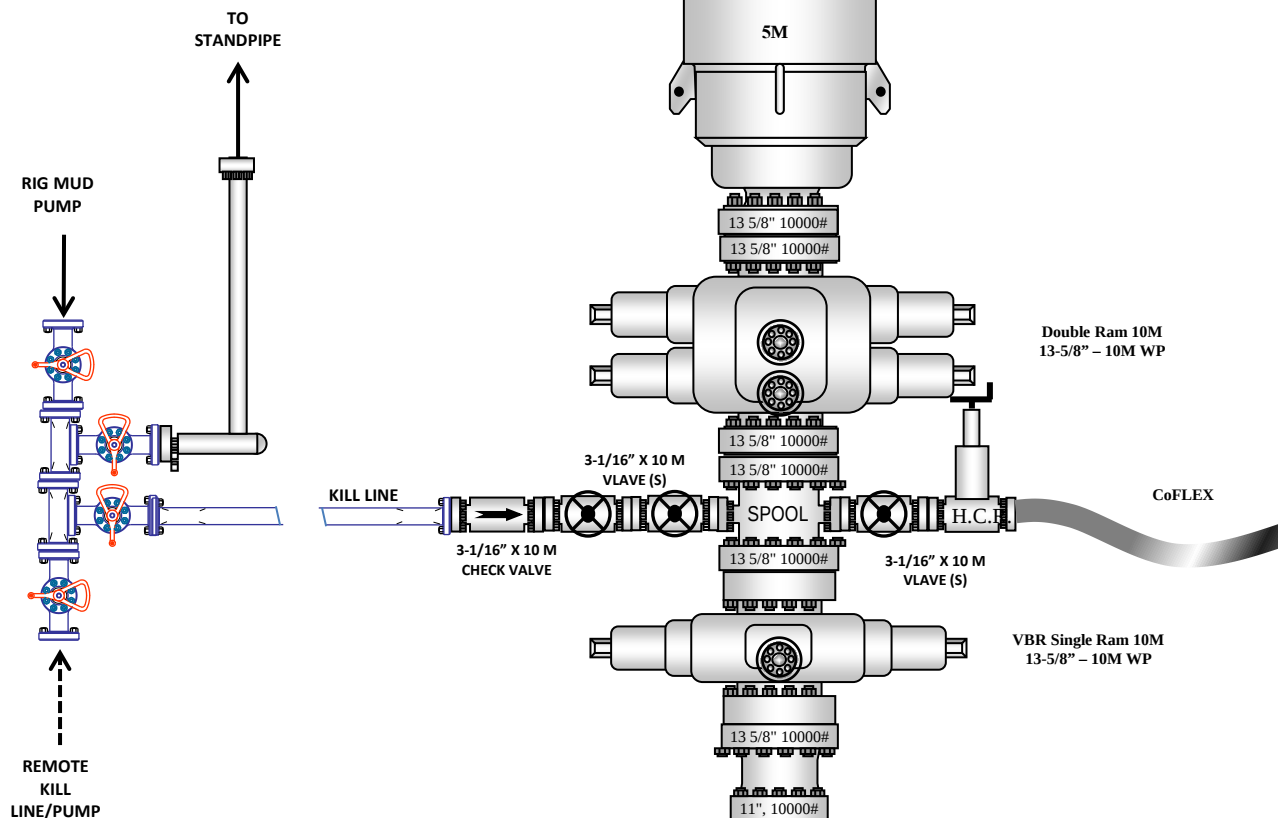
Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



10M CHOKE MANIFOLD CONFIGURATION



10M REMOTE KILL SCHEMATIC



ConocoPhillips Company - Valor Federal Com 504H

1. Geologic Formations

TVD of target	10,820' EOL	Pilot hole depth	NA
MD at TD:	18,425'	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	4786	Salt	
Lamar	4925	Salt Water	
Bell Canyon	5066	Salt Water	
Cherry Canyon	6114	Oil/Gas	
Brushy Canyon	7756	Oil/Gas	
Bone Spring	9166	Oil/Gas	
1st Bone Spring Sand	10172	Oil/Gas	
1st Bone Spring Shale	10359	Oil/Gas	
2nd Bone Spring Sand	10755	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	18,425	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

ConocoPhillips Company - Valor Federal Com 504H

	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
	1820	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.
Y	On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR Part 3170 Subpart 3172.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
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 504H**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 (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR Part 3170 Subpart 3176. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

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

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

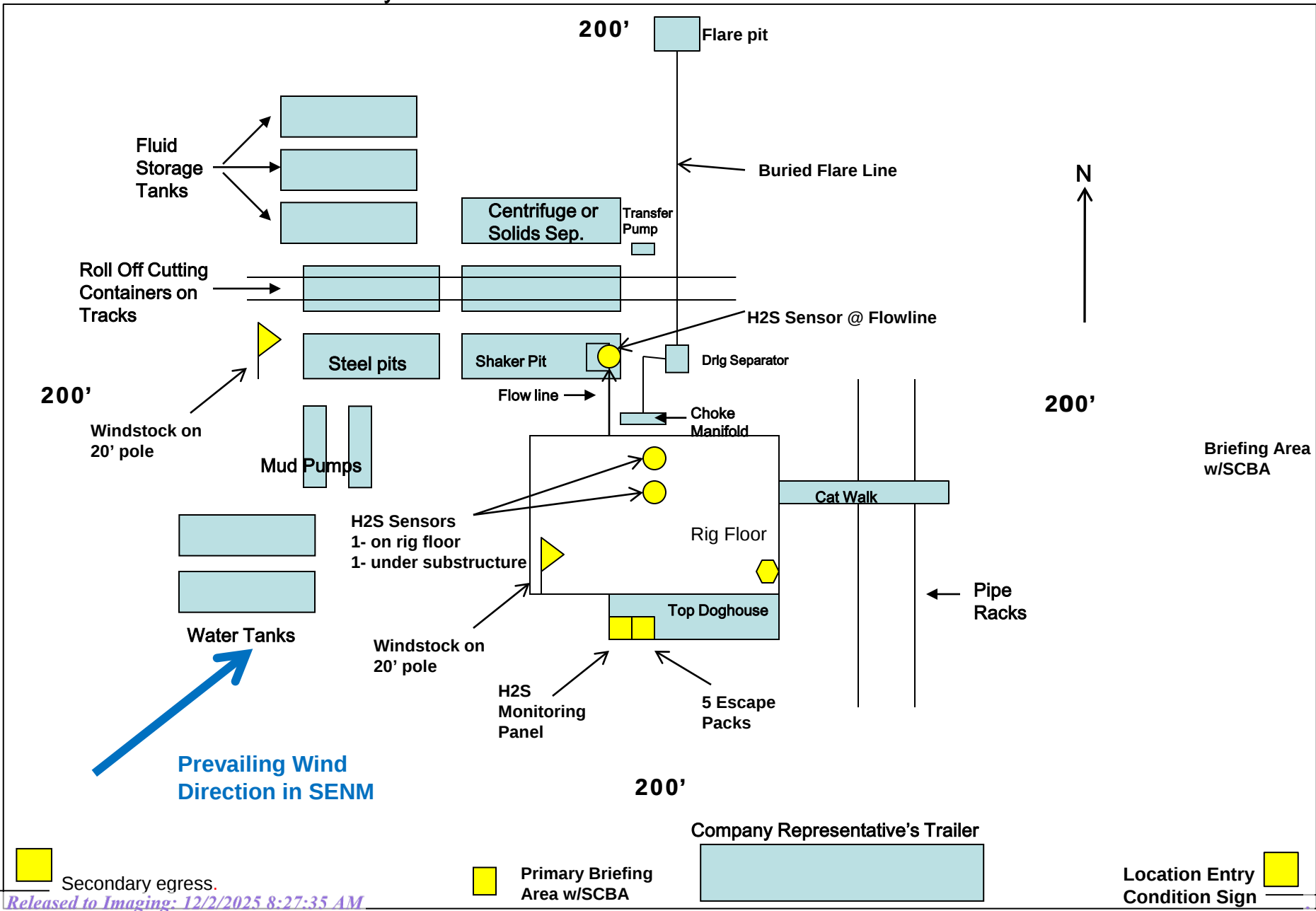
	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

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

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

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



DELAWARE BASIN EAST

LEA COUNT SOUTH WEST (NM-E)

VALOR PROJECT

_VALOR FEDERAL COM 504H

OWB

PWP0

Anticollision Report

11 June, 2025

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 504H - Slot SLOT 4
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 504H	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	18,424.5	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5

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						
COLUMBUS FEDERAL PROJECT						
CALM BREEZE 2 FEDERAL COM #703H - OWB - AWP						Out of range
CALM BREEZE 2 FEDERAL COM #704H - OWB - AWP						Out of range
RED BULL 35 FEDERAL #1H - OWB - AWP	14,000.0	10,771.5	841.6	762.9	10.694 CC	
RED BULL 35 FEDERAL #1H - OWB - AWP	14,004.4	10,771.6	841.6	762.9	10.691 ES, SF	
VALOR PROJECT						
_VALOR FEDERAL COM 501H - OWB - PWP0	1,200.0	1,200.0	60.0	51.3	6.858 CC, ES	
_VALOR FEDERAL COM 501H - OWB - PWP0	1,300.0	1,297.9	61.7	52.5	6.697 SF	
_VALOR FEDERAL COM 502H - OWB - PWP0	2,000.0	2,000.0	40.0	28.6	3.494 CC, ES, SF	
_VALOR FEDERAL COM 503H - OWB - PWP0	2,000.0	2,000.0	20.0	8.6	1.747 Caution - Monitor Closely, CC, ES, SF	
_VALOR FEDERAL COM 505H - OWB - PWP0	2,000.0	2,000.0	20.0	8.6	1.747 Caution - Monitor Closely, CC	
_VALOR FEDERAL COM 505H - OWB - PWP0	2,300.0	2,297.9	20.4	7.7	1.606 Caution - Monitor Closely, ES, SF	
_VALOR FEDERAL COM 506H - OWB - PWP0	1,200.0	1,200.0	39.9	31.2	4.565 CC, ES	
_VALOR FEDERAL COM 506H - OWB - PWP0	1,300.0	1,298.6	41.7	32.4	4.520 SF	
BURTON 35 #1_PA - OWB - AWP						Out of range
CALM BREEZE 2 FEDERAL COM 701H - OWB - AWP	18,424.5	10,864.3	663.4	546.3	5.665 CC, ES, SF	
CALM BREEZE 2 FEDERAL COM 702H - OWB - AWP						Out of range
LOMAS ROJAS 26 STATE COM 002H - OWB - AWP	2,014.9	2,002.5	799.8	788.3	69.726 CC, ES	
LOMAS ROJAS 26 STATE COM 002H - OWB - AWP	4,200.0	4,181.0	996.4	975.6	47.838 SF	
LOMAS ROJAS 26 STATE COM 003H - OWB - AWP	8,946.1	8,904.8	463.9	429.1	13.306 CC, ES	
LOMAS ROJAS 26 STATE COM 003H - OWB - AWP	9,000.0	8,944.0	464.7	429.8	13.300 SF	
LOMAS ROJAS 26 STATE COM 004H - OWB - AWP						Out of range
LOMAS ROJAS 26 STATE COM 501H - OWB - AWP						Out of range
LOMAS ROJAS 26 STATE COM 502H - OWB - AWP						Out of range
LOMAS ROJAS 26 STATE COM 505H - OWB - AWP						Out of range
VALOR FED COM #704H - OWB - AWP	10,635.8	10,591.7	139.0	105.6	4.162 CC, ES, SF	
VALOR FED COM #803H - OWB - AWP	8,730.0	8,688.3	564.9	534.0	18.280 CC, ES	
VALOR FED COM #803H - OWB - AWP	10,550.0	10,509.8	586.8	553.7	17.763 SF	
VALOR FED COM 706H - OWB - AWP	0.0	0.0	466.8			
VALOR FED COM 706H - OWB - AWP	800.0	794.7	467.6	460.8	68.824 ES	
VALOR FED COM 706H - OWB - AWP	10,525.0	10,524.6	766.8	734.5	23.717 SF	
VALOR FED COM 707H - OWB - AWP	0.0	0.0	496.8			
VALOR FED COM 707H - OWB - AWP	1,500.0	1,494.1	499.1	490.6	59.201 ES	
VALOR FED COM 707H - OWB - AWP	4,900.0	4,882.1	988.8	966.0	43.393 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 504H - Slot SLO 4
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 504H	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
VALOR PROJECT						
VALOR FEDERAL COM #708H - ST01 - AWP						
VALOR ST COM 801H - OWB - AWP						Out of range
WHIRLING WIND 11 FED COM 703H - OWB - AWP						Out of range
WHIRLING WIND 11 FED COM 704H - OWB - AWP						Out of range
WHIRLING WIND 11 FEDERAL COM 702H - OWB - AW						Out of range
WHIRLING WIND 11 FEDERAL COM 741H - OWB - AW						Out of range
WHIRLING WIND 11 FEDERAL COM 742H - OWB - AW						Out of range
WHIRLING WIND 11 FEDERAL COM 743H - OWB - AW						Out of range
WHIRLING WIND 11 FEDERAL COM 744H - OWB - AW						Out of range
WHIRLING WIND 14 FEDERAL COM 001H - OWB - AW						Out of range
WHIRLING WIND 14 FEDERAL COM 701H - OWB - AW						Out of range

Offset Design: COLUMBUS FEDERAL PROJECT - RED BULL 35 FEDERAL #1H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 200-r.5 GYRO-NS, 11615-r.5 MWD													Offset Well Error: 3.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
13,500.0	10,820.0	10,763.5	10,795.8	34.2	41.4	88.35	-3,249.7	-297.1	979.6	906.9	72.71	13.473	
13,600.0	10,820.0	10,765.1	10,797.4	35.0	41.4	88.46	-3,249.7	-297.1	932.4	858.3	74.13	12.578	
13,700.0	10,820.0	10,766.7	10,799.0	35.7	41.4	88.57	-3,249.7	-297.1	893.9	818.4	75.54	11.833	
13,800.0	10,820.0	10,768.3	10,800.6	36.5	41.4	88.68	-3,249.8	-297.2	865.3	788.5	76.85	11.260	
13,900.0	10,820.0	10,769.9	10,802.2	37.3	41.4	88.79	-3,249.8	-297.2	847.7	769.7	77.94	10.876	
14,000.0	10,820.0	10,771.5	10,803.8	38.1	41.4	88.90	-3,249.8	-297.2	841.6	762.9	78.70	10.694 CC	
14,004.4	10,820.0	10,771.6	10,803.9	38.1	41.4	88.91	-3,249.8	-297.2	841.6	762.9	78.72	10.691 ES, SF	
14,100.0	10,820.0	10,773.2	10,805.5	38.9	41.4	89.01	-3,249.8	-297.2	847.3	768.3	79.07	10.717	
14,200.0	10,820.0	10,774.8	10,807.1	39.7	41.4	89.12	-3,249.9	-297.3	864.7	785.7	79.04	10.940	
14,300.0	10,820.0	10,776.5	10,808.7	40.5	41.4	89.24	-3,249.9	-297.3	893.0	814.3	78.66	11.352	
14,400.0	10,820.0	10,778.1	10,810.4	41.3	41.4	89.35	-3,249.9	-297.3	931.2	853.2	78.03	11.934	
14,500.0	10,820.0	10,779.8	10,812.1	42.2	41.5	89.46	-3,249.9	-297.4	978.2	901.0	77.22	12.667	

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 504H - Slot SLO 4
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 504H	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 501H - 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	-90.37	-0.4	-60.0	60.0					
100.0	100.0	100.0	100.0	0.8	0.8	-90.37	-0.4	-60.0	60.0	58.0	2.04	29.386		
200.0	200.0	200.0	200.0	1.4	1.4	-90.37	-0.4	-60.0	60.0	56.7	3.34	17.970		
300.0	300.0	300.0	300.0	1.9	1.9	-90.37	-0.4	-60.0	60.0	55.8	4.22	14.230		
400.0	400.0	400.0	400.0	2.3	2.3	-90.37	-0.4	-60.0	60.0	55.1	4.93	12.171		
500.0	500.0	500.0	500.0	2.6	2.6	-90.37	-0.4	-60.0	60.0	54.5	5.55	10.813		
600.0	600.0	600.0	600.0	2.9	2.9	-90.37	-0.4	-60.0	60.0	53.9	6.10	9.829		
700.0	700.0	700.0	700.0	3.1	3.1	-90.37	-0.4	-60.0	60.0	53.4	6.61	9.071		
800.0	800.0	800.0	800.0	3.4	3.4	-90.37	-0.4	-60.0	60.0	52.9	7.09	8.464		
900.0	900.0	900.0	900.0	3.6	3.6	-90.37	-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	-90.37	-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	-90.37	-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	-90.37	-0.4	-60.0	60.0	51.3	8.75	6.858 CC, ES		
1,300.0	1,300.0	1,297.9	1,297.9	4.4	4.5	-90.58	-0.6	-61.7	61.7	52.5	9.21	6.697 SF		
1,400.0	1,400.0	1,395.6	1,395.5	4.6	4.7	-91.13	-1.3	-66.6	66.8	57.1	9.64	6.926		
1,500.0	1,500.0	1,492.9	1,492.4	4.7	5.0	-91.89	-2.5	-74.8	75.2	65.2	10.05	7.487		
1,600.0	1,600.0	1,589.4	1,588.2	4.9	5.2	-92.70	-4.1	-86.2	87.1	76.6	10.44	8.342		
1,700.0	1,700.0	1,685.1	1,682.8	5.1	5.5	-93.47	-6.1	-100.6	102.2	91.4	10.81	9.459		
1,800.0	1,800.0	1,779.8	1,775.8	5.2	5.7	-94.14	-8.5	-117.9	120.7	109.5	11.16	10.811		
1,900.0	1,900.0	1,873.1	1,866.9	5.4	5.9	-94.70	-11.3	-137.9	142.3	130.8	11.50	12.378		
2,000.0	2,000.0	1,968.8	1,959.8	5.6	6.1	-95.17	-14.5	-160.7	166.3	154.5	11.81	14.082		
2,100.0	2,100.0	2,065.4	2,053.5	5.8	6.3	-174.27	-17.8	-183.9	192.2	180.0	12.19	15.762		
2,200.0	2,199.8	2,161.0	2,146.3	6.0	6.4	-174.61	-21.0	-206.8	221.4	208.8	12.58	17.604		
2,300.0	2,299.5	2,255.6	2,238.1	6.3	6.6	-174.94	-24.2	-229.4	253.9	240.9	12.97	19.573		
2,400.0	2,398.7	2,348.9	2,328.6	6.5	6.7	-175.23	-27.3	-251.8	289.7	276.3	13.38	21.648		
2,453.6	2,451.7	2,398.4	2,376.7	6.6	6.8	-175.37	-29.0	-263.7	310.2	296.6	13.55	22.885		
2,500.0	2,497.5	2,441.1	2,418.1	6.7	6.9	-175.52	-30.5	-273.9	328.4	314.7	13.70	23.969		
2,600.0	2,596.3	2,533.1	2,507.4	6.9	7.0	-175.78	-33.5	-295.9	367.5	353.4	14.08	26.104		
2,700.0	2,695.0	2,625.1	2,596.7	7.2	7.2	-175.99	-36.6	-318.0	406.7	392.2	14.48	28.089		
2,800.0	2,793.8	2,717.1	2,685.9	7.5	7.4	-176.17	-39.7	-340.0	445.8	430.9	14.89	29.931		
2,900.0	2,892.5	2,809.1	2,775.2	7.7	7.5	-176.31	-42.8	-362.1	485.0	469.6	15.33	31.636		
3,000.0	2,991.3	2,901.1	2,864.5	8.1	7.7	-176.44	-45.9	-384.1	524.1	508.4	15.78	33.215		
3,100.0	3,090.0	2,992.1	2,952.7	8.4	7.9	-176.38	-47.5	-406.2	563.4	547.1	16.24	34.692		
3,200.0	3,188.8	3,082.9	3,040.6	8.7	8.1	-176.04	-46.3	-428.7	602.8	586.1	16.71	36.073		
3,300.0	3,287.5	3,173.8	3,128.4	9.0	8.2	-175.48	-42.5	-451.8	642.4	625.3	17.15	37.449		
3,400.0	3,386.3	3,265.4	3,216.9	9.4	8.4	-174.93	-38.2	-475.1	682.1	664.5	17.64	38.673		
3,500.0	3,485.0	3,357.0	3,305.4	9.7	8.5	-174.45	-33.9	-498.4	721.9	703.8	18.14	39.791		
3,600.0	3,583.8	3,448.6	3,393.9	10.1	8.7	-174.01	-29.6	-521.7	761.7	743.0	18.66	40.830		
3,700.0	3,682.5	3,540.1	3,482.3	10.5	8.9	-173.62	-25.2	-545.0	801.5	782.4	19.18	41.798		
3,800.0	3,781.3	3,631.7	3,570.8	10.8	9.1	-173.27	-20.9	-568.3	841.4	821.7	19.70	42.700		
3,900.0	3,880.0	3,723.3	3,659.3	11.2	9.3	-172.95	-16.6	-591.6	881.3	861.0	20.24	43.541		
4,000.0	3,978.8	3,814.9	3,747.8	11.6	9.4	-172.65	-12.3	-614.9	921.2	900.4	20.78	44.326		
4,100.0	4,077.5	3,906.5	3,836.2	12.0	9.6	-172.38	-8.0	-638.3	961.1	939.8	21.33	45.059		

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 504H - Slot SLO 4
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 504H	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	-90.37	-0.3	-40.0	40.0					
100.0	100.0	100.0	100.0	0.8	0.8	-90.37	-0.3	-40.0	40.0	38.0	2.04	19.591		
200.0	200.0	200.0	200.0	1.4	1.4	-90.37	-0.3	-40.0	40.0	36.7	3.34	11.980		
300.0	300.0	300.0	300.0	1.9	1.9	-90.37	-0.3	-40.0	40.0	35.8	4.22	9.487		
400.0	400.0	400.0	400.0	2.3	2.3	-90.37	-0.3	-40.0	40.0	35.1	4.93	8.114		
500.0	500.0	500.0	500.0	2.6	2.6	-90.37	-0.3	-40.0	40.0	34.5	5.55	7.209		
600.0	600.0	600.0	600.0	2.9	2.9	-90.37	-0.3	-40.0	40.0	33.9	6.10	6.553		
700.0	700.0	700.0	700.0	3.1	3.1	-90.37	-0.3	-40.0	40.0	33.4	6.61	6.048		
800.0	800.0	800.0	800.0	3.4	3.4	-90.37	-0.3	-40.0	40.0	32.9	7.09	5.643		
900.0	900.0	900.0	900.0	3.6	3.6	-90.37	-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	-90.37	-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	-90.37	-0.3	-40.0	40.0	31.6	8.36	4.783		
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-90.37	-0.3	-40.0	40.0	31.3	8.75	4.572		
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.37	-0.3	-40.0	40.0	30.9	9.12	4.385		
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.37	-0.3	-40.0	40.0	30.5	9.48	4.218		
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.37	-0.3	-40.0	40.0	30.2	9.83	4.068		
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-90.37	-0.3	-40.0	40.0	29.8	10.17	3.933		
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	-90.37	-0.3	-40.0	40.0	29.5	10.50	3.809		
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	-90.37	-0.3	-40.0	40.0	29.2	10.82	3.696		
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	-90.37	-0.3	-40.0	40.0	28.9	11.14	3.591		
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	-90.37	-0.3	-40.0	40.0	28.6	11.45	3.494 CC, ES, SF		
2,100.0	2,100.0	2,098.5	2,098.5	5.8	5.8	-169.34	-0.1	-41.7	43.4	31.5	11.89	3.651		
2,200.0	2,199.8	2,196.3	2,196.2	6.0	6.0	-169.85	0.3	-46.7	53.7	41.4	12.32	4.356		
2,300.0	2,299.5	2,292.8	2,292.3	6.3	6.2	-170.37	0.9	-54.9	70.7	57.9	12.77	5.535		
2,400.0	2,398.7	2,387.3	2,386.1	6.5	6.5	-170.75	1.7	-66.1	94.3	81.1	13.24	7.126		
2,453.6	2,451.7	2,436.9	2,435.2	6.6	6.6	-170.91	2.3	-73.1	109.7	96.2	13.44	8.160		
2,500.0	2,497.5	2,479.3	2,477.0	6.7	6.8	-171.04	2.8	-79.9	124.0	110.4	13.61	9.116		
2,600.0	2,596.3	2,569.2	2,565.5	6.9	7.0	-171.13	4.0	-96.2	157.2	143.2	14.04	11.197		
2,700.0	2,695.0	2,657.1	2,651.4	7.2	7.3	-171.08	5.5	-114.8	193.3	178.8	14.46	13.363		
2,800.0	2,793.8	2,747.8	2,739.5	7.5	7.5	-170.98	7.1	-136.1	231.5	216.5	14.94	15.489		
2,900.0	2,892.5	2,840.1	2,829.3	7.7	7.8	-170.91	8.7	-157.8	269.8	254.3	15.49	17.416		
3,000.0	2,991.3	2,932.5	2,919.0	8.1	8.1	-170.85	10.4	-179.6	308.1	292.0	16.05	19.191		
3,100.0	3,090.0	3,024.9	3,008.8	8.4	8.4	-170.80	12.1	-201.3	346.4	329.8	16.64	20.813		
3,200.0	3,188.8	3,117.3	3,098.5	8.7	8.7	-170.77	13.7	-223.1	384.7	367.5	17.26	22.292		
3,300.0	3,287.5	3,209.6	3,188.3	9.0	9.0	-170.74	15.4	-244.8	423.0	405.1	17.89	23.642		
3,400.0	3,386.3	3,302.0	3,278.0	9.4	9.3	-170.71	17.1	-266.6	461.4	442.8	18.55	24.874		
3,500.0	3,485.0	3,394.4	3,367.8	9.7	9.7	-170.69	18.7	-288.3	499.7	480.4	19.22	25.998		
3,600.0	3,583.8	3,486.7	3,457.5	10.1	10.0	-170.67	20.4	-310.1	538.0	518.1	19.91	27.024		
3,700.0	3,682.5	3,579.1	3,547.3	10.5	10.4	-170.66	22.0	-331.8	576.3	555.7	20.61	27.964		
3,800.0	3,781.3	3,671.5	3,637.0	10.8	10.8	-170.64	23.7	-353.6	614.6	593.3	21.32	28.825		
3,900.0	3,880.0	3,763.8	3,726.8	11.2	11.1	-170.63	25.4	-375.3	652.9	630.9	22.05	29.616		
4,000.0	3,978.8	3,856.2	3,816.6	11.6	11.5	-170.62	27.0	-397.1	691.2	668.5	22.78	30.343		
4,100.0	4,077.5	3,948.6	3,906.3	12.0	11.9	-170.61	28.7	-418.8	729.6	706.0	23.52	31.012		
4,200.0	4,176.3	4,040.9	3,996.1	12.4	12.3	-170.60	30.3	-440.6	767.9	743.6	24.28	31.629		
4,300.0	4,275.0	4,133.3	4,085.8	12.8	12.7	-170.60	32.0	-462.4	806.2	781.1	25.04	32.200		
4,400.0	4,373.8	4,225.7	4,175.6	13.2	13.1	-170.59	33.7	-484.1	844.5	818.7	25.80	32.728		
4,500.0	4,472.5	4,318.0	4,265.3	13.6	13.5	-170.58	35.3	-505.9	882.8	856.2	26.58	33.218		
4,600.0	4,571.3	4,410.4	4,355.1	14.0	13.9	-170.58	37.0	-527.6	921.1	893.8	27.35	33.673		
4,700.0	4,670.0	4,502.8	4,444.8	14.4	14.3	-170.57	38.7	-549.4	959.4	931.3	28.14	34.097		
4,800.0	4,768.8	4,595.2	4,534.6	14.8	14.7	-170.57	40.3	-571.1	997.8	968.8	28.93	34.492		

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 504H - Slot SLO 4
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 504H	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
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	-90.34	-0.1	-20.0	20.0				
100.0	100.0	100.0	100.0	0.8	0.8	-90.34	-0.1	-20.0	20.0	18.0	2.04	9.795	
200.0	200.0	200.0	200.0	1.4	1.4	-90.34	-0.1	-20.0	20.0	16.7	3.34	5.990	
300.0	300.0	300.0	300.0	1.9	1.9	-90.34	-0.1	-20.0	20.0	15.8	4.22	4.743	
400.0	400.0	400.0	400.0	2.3	2.3	-90.34	-0.1	-20.0	20.0	15.1	4.93	4.057	
500.0	500.0	500.0	500.0	2.6	2.6	-90.34	-0.1	-20.0	20.0	14.5	5.55	3.604	
600.0	600.0	600.0	600.0	2.9	2.9	-90.34	-0.1	-20.0	20.0	13.9	6.10	3.276	
700.0	700.0	700.0	700.0	3.1	3.1	-90.34	-0.1	-20.0	20.0	13.4	6.61	3.024	
800.0	800.0	800.0	800.0	3.4	3.4	-90.34	-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	-90.34	-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	-90.34	-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	-90.34	-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	-90.34	-0.1	-20.0	20.0	11.3	8.75	2.286 Caution - Monitor Closely	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.34	-0.1	-20.0	20.0	10.9	9.12	2.192 Caution - Monitor Closely	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.34	-0.1	-20.0	20.0	10.5	9.48	2.109 Caution - Monitor Closely	
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.34	-0.1	-20.0	20.0	10.2	9.83	2.034 Caution - Monitor Closely	
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-90.34	-0.1	-20.0	20.0	9.8	10.17	1.966 Caution - Monitor Closely	
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	-90.34	-0.1	-20.0	20.0	9.5	10.50	1.904 Caution - Monitor Closely	
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	-90.34	-0.1	-20.0	20.0	9.2	10.82	1.848 Caution - Monitor Closely	
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	-90.34	-0.1	-20.0	20.0	8.9	11.14	1.796 Caution - Monitor Closely	
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	-90.34	-0.1	-20.0	20.0	8.6	11.45	1.747 Caution - Monitor Closely, CC, ES, SF	
2,100.0	2,100.0	2,099.2	2,099.2	5.8	5.8	-168.70	0.3	-21.7	23.4	11.5	11.89	1.966 Caution - Monitor Closely	
2,200.0	2,199.8	2,197.8	2,197.6	6.0	6.0	-168.01	1.7	-26.6	33.5	21.2	12.31	2.721 Normal Operations	
2,300.0	2,299.5	2,295.0	2,294.5	6.3	6.2	-167.45	4.0	-34.6	50.2	37.5	12.72	3.949	
2,400.0	2,398.7	2,390.2	2,389.0	6.5	6.4	-167.06	7.1	-45.5	73.5	60.4	13.14	5.596	
2,453.6	2,451.7	2,440.5	2,438.8	6.6	6.5	-166.91	9.1	-52.5	88.6	75.4	13.25	6.689	
2,500.0	2,497.5	2,484.8	2,482.6	6.7	6.5	-166.87	10.9	-58.9	102.4	89.0	13.36	7.666	
2,600.0	2,596.3	2,580.3	2,577.0	6.9	6.6	-166.81	14.8	-72.8	132.0	118.3	13.70	9.638	
2,700.0	2,695.0	2,675.8	2,671.4	7.2	6.8	-166.77	18.8	-86.7	161.7	147.6	14.07	11.490	
2,800.0	2,793.8	2,771.3	2,765.8	7.5	6.9	-166.75	22.7	-100.5	191.4	176.9	14.46	13.229	
2,900.0	2,892.5	2,866.8	2,860.2	7.7	7.0	-166.73	26.6	-114.4	221.0	206.1	14.87	14.858	
3,000.0	2,991.3	2,962.3	2,954.6	8.1	7.2	-166.71	30.6	-128.2	250.7	235.4	15.30	16.382	
3,100.0	3,090.0	3,057.8	3,049.0	8.4	7.3	-166.70	34.5	-142.1	280.3	264.6	15.74	17.806	
3,200.0	3,188.8	3,153.3	3,143.4	8.7	7.5	-166.69	38.4	-155.9	310.0	293.8	16.20	19.136	
3,300.0	3,287.5	3,248.8	3,237.8	9.0	7.6	-166.69	42.4	-169.8	339.6	323.0	16.67	20.377	
3,400.0	3,386.3	3,344.3	3,332.2	9.4	7.8	-166.68	46.3	-183.7	369.3	352.1	17.15	21.535	
3,500.0	3,485.0	3,439.8	3,426.7	9.7	7.9	-166.67	50.2	-197.5	398.9	381.3	17.64	22.617	
3,600.0	3,583.8	3,535.3	3,521.1	10.1	8.1	-166.67	54.1	-211.4	428.6	410.4	18.14	23.627	
3,700.0	3,682.5	3,630.8	3,615.5	10.5	8.2	-166.66	58.1	-225.2	458.2	439.6	18.65	24.571	
3,800.0	3,781.3	3,726.3	3,709.9	10.8	8.4	-166.66	62.0	-239.1	487.9	468.7	19.17	25.453	
3,900.0	3,880.0	3,821.8	3,804.3	11.2	8.5	-166.66	65.9	-252.9	517.5	497.8	19.69	26.279	
4,000.0	3,978.8	3,917.3	3,898.7	11.6	8.7	-166.66	69.9	-266.8	547.2	527.0	20.23	27.052	
4,100.0	4,077.5	4,012.8	3,993.1	12.0	8.9	-166.65	73.8	-280.7	576.8	556.1	20.77	27.777	
4,200.0	4,176.3	4,108.3	4,087.5	12.4	9.0	-166.65	77.7	-294.5	606.5	585.2	21.31	28.461	
4,300.0	4,275.0	4,209.5	4,187.5	12.8	9.2	-166.65	81.8	-309.0	635.9	614.1	21.86	29.090	
4,400.0	4,373.8	4,317.4	4,294.5	13.2	9.3	-166.70	85.7	-322.7	663.9	641.4	22.49	29.517	
4,500.0	4,472.5	4,426.4	4,402.8	13.6	9.5	-166.78	89.1	-334.6	690.0	666.9	23.13	29.840	
4,600.0	4,571.3	4,536.4	4,512.3	14.0	9.7	-166.89	91.9	-344.7	714.4	690.7	23.76	30.066	
4,700.0	4,670.0	4,647.5	4,623.0	14.4	9.9	-167.05	94.2	-352.7	737.0	712.6	24.40	30.205	
4,800.0	4,768.8	4,759.4	4,734.8	14.8	10.1	-167.23	95.9	-358.8	757.7	732.7	25.04	30.264	
4,900.0	4,867.5	4,872.2	4,847.5	15.2	10.2	-167.45	97.1	-362.7	776.6	750.9	25.67	30.251	

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 504H - Slot SLO 4
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 504H	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 Wellbore Centre		Distance		Rule Assigned:		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		
5,000.0	4,966.3	4,985.7	4,961.0	15.6	10.4	-167.70	97.6	-364.5	793.6	767.3	26.30	30.177		
5,100.0	5,065.0	5,089.7	5,065.0	16.0	10.5	-167.95	97.6	-364.7	809.1	782.3	26.85	30.137		
5,132.0	5,096.6	5,121.3	5,096.6	16.2	10.5	-168.02	97.6	-364.7	814.0	787.0	27.01	30.138		
5,200.0	5,163.8	5,188.5	5,163.8	16.4	10.5	-168.19	97.6	-364.7	824.2	796.8	27.37	30.112		
5,300.0	5,262.9	5,287.5	5,262.9	16.8	10.6	-168.41	97.6	-364.7	837.6	809.7	27.91	30.010		
5,400.0	5,362.1	5,386.8	5,362.1	17.2	10.7	-168.60	97.6	-364.7	849.4	820.9	28.44	29.863		
5,500.0	5,461.6	5,486.3	5,461.6	17.6	10.8	-168.75	97.6	-364.7	859.4	830.5	28.96	29.677		
5,600.0	5,561.2	5,585.9	5,561.2	18.0	10.9	-168.88	97.6	-364.7	867.8	838.3	29.46	29.455		
5,700.0	5,661.0	5,685.7	5,661.0	18.4	11.0	-168.98	97.6	-364.7	874.5	844.5	29.94	29.204		
5,800.0	5,760.9	5,785.6	5,760.9	18.7	11.1	-169.05	97.6	-364.7	879.4	849.0	30.40	28.928		
5,900.0	5,860.8	5,885.5	5,860.8	19.0	11.2	-169.09	97.6	-364.7	882.7	851.8	30.82	28.638		
6,000.0	5,960.8	5,985.5	5,960.8	19.2	11.2	-169.12	97.6	-364.7	884.2	853.0	31.19	28.353		
6,039.2	6,000.0	6,024.7	6,000.0	19.3	11.3	-90.38	97.6	-364.7	884.3	853.1	31.26	28.289		
6,100.0	6,060.8	6,085.5	6,060.8	19.3	11.3	-90.38	97.6	-364.7	884.3	853.0	31.32	28.236		
6,200.0	6,160.8	6,185.5	6,160.8	19.4	11.4	-90.38	97.6	-364.7	884.3	852.9	31.44	28.128		
6,300.0	6,260.8	6,285.5	6,260.8	19.4	11.5	-90.38	97.6	-364.7	884.3	852.8	31.56	28.020		
6,400.0	6,360.8	6,385.5	6,360.8	19.4	11.6	-90.38	97.6	-364.7	884.3	852.6	31.68	27.913		
6,500.0	6,460.8	6,485.5	6,460.8	19.5	11.7	-90.38	97.6	-364.7	884.3	852.5	31.80	27.807		
6,600.0	6,560.8	6,585.5	6,560.8	19.5	11.8	-90.38	97.6	-364.7	884.3	852.4	31.92	27.701		
6,700.0	6,660.8	6,685.5	6,660.8	19.6	11.9	-90.38	97.6	-364.7	884.3	852.3	32.05	27.595		
6,800.0	6,760.8	6,785.5	6,760.8	19.6	11.9	-90.38	97.6	-364.7	884.3	852.1	32.17	27.490		
6,900.0	6,860.8	6,885.5	6,860.8	19.7	12.0	-90.38	97.6	-364.7	884.3	852.0	32.29	27.386		
7,000.0	6,960.8	6,985.5	6,960.8	19.7	12.1	-90.38	97.6	-364.7	884.3	851.9	32.41	27.282		
7,100.0	7,060.8	7,085.5	7,060.8	19.8	12.2	-90.38	97.6	-364.7	884.3	851.8	32.54	27.178		
7,200.0	7,160.8	7,185.5	7,160.8	19.8	12.3	-90.38	97.6	-364.7	884.3	851.7	32.66	27.075		
7,300.0	7,260.8	7,285.5	7,260.8	19.9	12.4	-90.38	97.6	-364.7	884.3	851.5	32.79	26.973		
7,400.0	7,360.8	7,385.5	7,360.8	19.9	12.5	-90.38	97.6	-364.7	884.3	851.4	32.91	26.871		
7,500.0	7,460.8	7,485.5	7,460.8	20.0	12.5	-90.38	97.6	-364.7	884.3	851.3	33.03	26.769		
7,600.0	7,560.8	7,585.5	7,560.8	20.0	12.6	-90.38	97.6	-364.7	884.3	851.2	33.16	26.668		
7,700.0	7,660.8	7,685.5	7,660.8	20.1	12.7	-90.38	97.6	-364.7	884.3	851.0	33.29	26.568		
7,800.0	7,760.8	7,785.5	7,760.8	20.1	12.8	-90.38	97.6	-364.7	884.3	850.9	33.41	26.468		
7,900.0	7,860.8	7,885.5	7,860.8	20.2	12.9	-90.38	97.6	-364.7	884.3	850.8	33.54	26.369		
8,000.0	7,960.8	7,985.5	7,960.8	20.2	13.0	-90.38	97.6	-364.7	884.3	850.7	33.66	26.270		
8,100.0	8,060.8	8,085.5	8,060.8	20.3	13.1	-90.38	97.6	-364.7	884.3	850.5	33.79	26.171		
8,200.0	8,160.8	8,185.5	8,160.8	20.4	13.1	-90.38	97.6	-364.7	884.3	850.4	33.92	26.073		
8,300.0	8,260.8	8,285.5	8,260.8	20.4	13.2	-90.38	97.6	-364.7	884.3	850.3	34.04	25.976		
8,400.0	8,360.8	8,385.5	8,360.8	20.5	13.3	-90.38	97.6	-364.7	884.3	850.1	34.17	25.879		
8,500.0	8,460.8	8,485.5	8,460.8	20.5	13.4	-90.38	97.6	-364.7	884.3	850.0	34.30	25.783		
8,600.0	8,560.8	8,585.5	8,560.8	20.6	13.5	-90.38	97.6	-364.7	884.3	849.9	34.43	25.687		
8,700.0	8,660.8	8,685.5	8,660.8	20.6	13.6	-90.38	97.6	-364.7	884.3	849.8	34.56	25.592		
8,800.0	8,760.8	8,785.5	8,760.8	20.7	13.7	-90.38	97.6	-364.7	884.3	849.6	34.68	25.497		
8,900.0	8,860.8	8,885.5	8,860.8	20.7	13.7	-90.38	97.6	-364.7	884.3	849.5	34.81	25.402		
9,000.0	8,960.8	8,985.5	8,960.8	20.8	13.8	-90.38	97.6	-364.7	884.3	849.4	34.94	25.308		
9,100.0	9,060.8	9,085.5	9,060.8	20.8	13.9	-90.38	97.6	-364.7	884.3	849.2	35.07	25.215		
9,200.0	9,160.8	9,185.5	9,160.8	20.9	14.0	-90.38	97.6	-364.7	884.3	849.1	35.20	25.122		
9,300.0	9,260.8	9,285.5	9,260.8	20.9	14.1	-90.38	97.6	-364.7	884.3	849.0	35.33	25.030		
9,400.0	9,360.8	9,385.5	9,360.8	21.0	14.2	-90.38	97.6	-364.7	884.3	848.9	35.46	24.938		
9,500.0	9,460.8	9,485.5	9,460.8	21.0	14.3	-90.38	97.6	-364.7	884.3	848.7	35.59	24.847		
9,600.0	9,560.8	9,585.5	9,560.8	21.1	14.3	-90.38	97.6	-364.7	884.3	848.6	35.72	24.756		
9,700.0	9,660.8	9,685.5	9,660.8	21.2	14.4	-90.38	97.6	-364.7	884.3	848.5	35.85	24.665		

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 504H - Slot SLO 4
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 504H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,800.0	9,760.8	9,785.5	9,760.8	21.2	14.5	-90.38	97.6	-364.7	884.3	848.3	35.98	24.575		
9,900.0	9,860.8	9,885.5	9,860.8	21.3	14.6	-90.38	97.6	-364.7	884.3	848.2	36.12	24.486		
10,000.0	9,960.8	9,985.5	9,960.8	21.3	14.7	-90.38	97.6	-364.7	884.3	848.1	36.25	24.397		
10,100.0	10,060.8	10,085.5	10,060.8	21.4	14.8	-90.38	97.6	-364.7	884.3	847.9	36.38	24.309		
10,200.0	10,160.8	10,185.5	10,160.8	21.4	14.9	-90.38	97.6	-364.7	884.3	847.8	36.51	24.221		
10,300.0	10,260.8	10,285.5	10,260.8	21.5	14.9	-90.38	97.6	-364.7	884.3	847.7	36.64	24.133		
10,381.7	10,342.5	10,367.2	10,342.5	21.5	15.0	-90.38	97.6	-364.7	884.3	847.6	36.73	24.075		
10,400.0	10,360.8	10,385.5	10,360.8	21.5	15.0	90.04	97.3	-364.7	884.3	847.6	36.73	24.075		
10,425.0	10,385.8	10,410.6	10,385.8	21.5	15.0	90.04	95.6	-364.7	884.3	847.6	36.72	24.081		
10,450.0	10,410.6	10,435.6	10,410.7	21.5	15.0	90.04	92.7	-364.6	884.3	847.6	36.71	24.089		
10,475.0	10,435.2	10,460.6	10,435.3	21.5	15.0	90.04	88.5	-364.6	884.3	847.6	36.70	24.099		
10,500.0	10,459.6	10,485.7	10,459.8	21.4	15.0	90.04	83.0	-364.6	884.3	847.6	36.68	24.109		
10,525.0	10,483.7	10,510.7	10,483.9	21.4	14.9	90.04	76.2	-364.5	884.3	847.7	36.66	24.120		
10,550.0	10,507.4	10,535.7	10,507.6	21.4	14.9	90.04	68.2	-364.5	884.3	847.7	36.65	24.131		
10,575.0	10,530.6	10,560.7	10,530.8	21.4	14.9	90.04	58.9	-364.4	884.3	847.7	36.63	24.143		
10,600.0	10,553.3	10,585.8	10,553.5	21.4	14.9	90.04	48.4	-364.3	884.3	847.7	36.61	24.155		
10,625.0	10,575.4	10,610.8	10,575.7	21.3	14.9	90.04	36.8	-364.2	884.3	847.7	36.59	24.167		
10,650.0	10,596.9	10,635.8	10,597.2	21.3	14.9	90.03	24.0	-364.1	884.3	847.7	36.57	24.178		
10,675.0	10,617.7	10,660.9	10,618.0	21.3	14.9	90.03	10.1	-364.0	884.3	847.8	36.56	24.189		
10,700.0	10,637.8	10,685.9	10,638.1	21.3	14.9	90.03	-4.9	-363.9	884.3	847.8	36.54	24.199		
10,725.0	10,657.0	10,710.9	10,657.3	21.3	14.9	90.03	-20.9	-363.8	884.3	847.8	36.53	24.207		
10,750.0	10,675.4	10,735.9	10,675.7	21.3	14.9	90.03	-37.8	-363.7	884.3	847.8	36.52	24.214		
10,775.0	10,692.8	10,761.0	10,693.1	21.3	14.8	90.03	-55.8	-363.5	884.3	847.8	36.51	24.218		
10,800.0	10,709.3	10,786.0	10,709.6	21.3	14.9	90.03	-74.6	-363.4	884.3	847.8	36.51	24.220		
10,825.0	10,724.8	10,811.0	10,725.1	21.3	14.9	90.02	-94.2	-363.3	884.3	847.8	36.51	24.220		
10,850.0	10,739.3	10,836.0	10,739.5	21.3	14.9	90.02	-114.7	-363.1	884.3	847.8	36.52	24.217		
10,875.0	10,752.6	10,861.0	10,752.9	21.3	14.9	90.02	-135.8	-363.0	884.3	847.8	36.53	24.210		
10,900.0	10,764.8	10,886.1	10,765.1	21.3	14.9	90.02	-157.6	-362.8	884.3	847.8	36.54	24.199		
10,925.0	10,775.9	10,911.1	10,776.2	21.3	14.9	90.02	-180.1	-362.6	884.3	847.8	36.56	24.185		
10,950.0	10,785.8	10,936.1	10,786.0	21.3	14.9	90.02	-203.1	-362.5	884.3	847.7	36.59	24.168		
10,975.0	10,794.5	10,961.1	10,794.7	21.3	14.9	90.01	-226.5	-362.3	884.3	847.7	36.62	24.146		
11,000.0	10,801.9	10,986.1	10,802.1	21.3	15.0	90.01	-250.4	-362.1	884.3	847.7	36.66	24.120		
11,025.0	10,808.1	11,011.1	10,808.2	21.4	15.0	90.01	-274.6	-361.9	884.3	847.6	36.71	24.090		
11,050.0	10,813.0	11,036.1	10,813.1	21.4	15.0	90.01	-299.2	-361.8	884.3	847.6	36.76	24.055		
11,075.0	10,816.6	11,061.1	10,816.7	21.4	15.1	90.00	-323.9	-361.6	884.3	847.5	36.82	24.017		
11,100.0	10,818.9	11,086.1	10,819.0	21.5	15.1	90.00	-348.8	-361.4	884.3	847.4	36.88	23.975		
11,125.0	10,819.9	11,111.1	10,819.9	21.5	15.1	90.00	-373.8	-361.2	884.3	847.4	36.95	23.930		
11,131.7	10,820.0	11,117.8	10,820.0	21.5	15.1	90.00	-380.5	-361.2	884.3	847.3	36.97	23.917		
11,200.0	10,820.0	11,186.1	10,820.0	21.6	15.3	90.00	-448.8	-360.7	884.3	847.1	37.21	23.765		
11,300.0	10,820.0	11,286.1	10,820.0	21.9	15.5	90.00	-548.8	-359.9	884.3	846.7	37.64	23.493		
11,400.0	10,820.0	11,386.1	10,820.0	22.1	15.8	90.00	-648.8	-359.2	884.3	846.2	38.15	23.178		
11,500.0	10,820.0	11,486.1	10,820.0	22.4	16.1	90.00	-748.8	-358.5	884.3	845.6	38.74	22.825		
11,600.0	10,820.0	11,586.1	10,820.0	22.8	16.4	90.00	-848.8	-357.7	884.3	844.9	39.41	22.441		
11,700.0	10,820.0	11,686.1	10,820.0	23.1	16.8	90.00	-948.8	-357.0	884.3	844.2	40.14	22.030		
11,800.0	10,820.0	11,786.1	10,820.0	23.5	17.2	90.00	-1,048.8	-356.3	884.3	843.4	40.94	21.598		
11,900.0	10,820.0	11,886.1	10,820.0	24.0	17.7	90.00	-1,148.8	-355.5	884.3	842.5	41.81	21.152		
12,000.0	10,820.0	11,986.1	10,820.0	24.5	18.1	90.00	-1,248.8	-354.8	884.3	841.6	42.73	20.694		
12,100.0	10,820.0	12,086.1	10,820.0	25.0	18.6	90.00	-1,348.8	-354.1	884.3	840.6	43.71	20.230		
12,200.0	10,820.0	12,186.1	10,820.0	25.5	19.2	90.00	-1,448.8	-353.3	884.3	839.6	44.74	19.764		
12,300.0	10,820.0	12,286.1	10,820.0	26.0	19.7	90.00	-1,548.8	-352.6	884.3	838.5	45.82	19.299		
12,400.0	10,820.0	12,386.1	10,820.0	26.6	20.3	90.00	-1,648.8	-351.9	884.3	837.4	46.95	18.837		

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 504H - Slot SLO 4
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 504H	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)				
12,500.0	10,820.0	12,486.1	10,820.0	27.2	20.9	90.00	-1,748.8	-351.1	884.3	836.2	48.11	18.380		
12,600.0	10,820.0	12,586.1	10,820.0	27.8	21.5	90.00	-1,848.8	-350.4	884.3	835.0	49.32	17.931		
12,700.0	10,820.0	12,686.1	10,820.0	28.4	22.1	90.00	-1,948.7	-349.7	884.3	833.8	50.56	17.492		
12,800.0	10,820.0	12,786.1	10,820.0	29.1	22.8	90.00	-2,048.7	-348.9	884.3	832.5	51.83	17.062		
12,900.0	10,820.0	12,886.1	10,820.0	29.8	23.4	90.00	-2,148.7	-348.2	884.3	831.2	53.14	16.643		
13,000.0	10,820.0	12,965.8	10,820.0	30.4	24.0	90.00	-2,228.4	-348.4	885.3	831.0	54.34	16.291		
13,100.0	10,820.0	13,042.1	10,820.0	31.1	24.5	90.00	-2,304.7	-350.6	889.0	833.4	55.53	16.010		
13,200.0	10,820.0	13,118.2	10,820.0	31.9	25.1	90.00	-2,380.7	-354.8	895.2	838.6	56.69	15.791		
13,300.0	10,820.0	13,200.0	10,820.0	32.6	25.6	90.00	-2,462.2	-361.6	904.2	846.3	57.91	15.613		
13,400.0	10,820.0	13,286.5	10,820.0	33.3	26.2	90.00	-2,548.2	-370.4	915.1	855.9	59.17	15.466		
13,500.0	10,820.0	13,385.9	10,820.0	34.1	26.9	90.00	-2,647.0	-380.7	926.1	865.5	60.59	15.285		
13,600.0	10,820.0	13,485.2	10,820.0	34.8	27.6	90.00	-2,745.9	-390.9	937.1	875.1	62.03	15.108		
13,700.0	10,820.0	13,618.5	10,820.0	35.6	28.6	90.00	-2,878.7	-402.8	946.9	883.0	63.87	14.826		
13,800.0	10,820.0	13,767.9	10,820.0	36.4	29.7	90.00	-3,027.9	-408.9	951.7	885.9	65.82	14.459		
13,900.0	10,820.0	13,889.2	10,820.0	37.2	30.6	90.00	-3,149.2	-408.7	952.2	884.7	67.48	14.110		
14,000.0	10,820.0	13,989.2	10,820.0	38.0	31.4	90.00	-3,249.2	-408.0	952.2	883.2	69.01	13.798		
14,100.0	10,820.0	14,117.7	10,820.0	38.8	32.4	90.00	-3,377.7	-405.8	951.3	880.6	70.71	13.454		
14,200.0	10,820.0	14,267.0	10,820.0	39.6	33.5	90.00	-3,526.6	-396.3	945.7	873.3	72.45	13.053		
14,300.0	10,820.0	14,393.1	10,820.0	40.4	34.5	90.00	-3,652.0	-382.7	935.5	861.5	74.04	12.635		
14,400.0	10,820.0	14,492.5	10,820.0	41.2	35.2	90.00	-3,750.7	-371.0	924.5	848.9	75.61	12.227		
14,500.0	10,820.0	14,591.9	10,820.0	42.1	36.0	90.00	-3,849.4	-359.3	913.5	836.3	77.19	11.834		
14,600.0	10,820.0	14,680.9	10,820.0	42.9	36.7	90.00	-3,937.9	-349.1	902.7	824.0	78.78	11.459		
14,700.0	10,820.0	14,756.8	10,820.0	43.7	37.3	90.00	-4,013.4	-342.0	894.2	813.8	80.36	11.127		
14,800.0	10,820.0	14,832.9	10,820.0	44.6	37.9	90.00	-4,089.3	-337.0	888.3	806.4	81.91	10.844		
14,900.0	10,820.0	14,909.2	10,820.0	45.4	38.5	90.00	-4,165.6	-333.9	885.0	801.6	83.42	10.609		
14,971.9	10,820.0	14,964.2	10,820.0	46.0	39.0	90.00	-4,220.6	-333.0	884.4	799.9	84.48	10.468		
15,000.0	10,820.0	14,992.3	10,820.0	46.3	39.2	90.00	-4,248.6	-332.8	884.4	799.4	84.93	10.412		
15,100.0	10,820.0	15,092.3	10,820.0	47.1	40.0	90.00	-4,348.6	-332.1	884.4	797.8	86.57	10.216		
15,200.0	10,820.0	15,192.3	10,820.0	48.0	40.8	90.00	-4,448.6	-331.4	884.4	796.2	88.21	10.026		
15,300.0	10,820.0	15,292.3	10,820.0	48.9	41.6	90.00	-4,548.6	-330.6	884.4	794.5	89.85	9.843		
15,400.0	10,820.0	15,392.3	10,820.0	49.7	42.4	90.00	-4,648.6	-329.9	884.4	792.9	91.50	9.665		
15,500.0	10,820.0	15,492.3	10,820.0	50.6	43.2	90.00	-4,748.6	-329.2	884.4	791.3	93.16	9.494		
15,600.0	10,820.0	15,592.3	10,820.0	51.5	44.0	90.00	-4,848.6	-328.5	884.4	789.6	94.82	9.327		
15,700.0	10,820.0	15,692.3	10,820.0	52.4	44.8	90.00	-4,948.6	-327.7	884.4	787.9	96.49	9.166		
15,800.0	10,820.0	15,792.3	10,820.0	53.2	45.6	90.00	-5,048.6	-327.0	884.4	786.3	98.16	9.010		
15,900.0	10,820.0	15,892.3	10,820.0	54.1	46.4	90.00	-5,148.6	-326.3	884.4	784.6	99.84	8.859		
16,000.0	10,820.0	15,992.3	10,820.0	55.0	47.2	90.00	-5,248.6	-325.6	884.5	782.9	101.52	8.712		
16,100.0	10,820.0	16,092.3	10,820.0	55.9	48.0	90.00	-5,348.6	-324.8	884.5	781.3	103.20	8.570		
16,200.0	10,820.0	16,192.3	10,820.0	56.8	48.8	90.00	-5,448.6	-324.1	884.5	779.6	104.89	8.432		
16,300.0	10,820.0	16,292.3	10,820.0	57.7	49.7	90.00	-5,548.6	-323.4	884.5	777.9	106.58	8.298		
16,400.0	10,820.0	16,392.3	10,820.0	58.6	50.5	90.00	-5,648.6	-322.7	884.5	776.2	108.28	8.168		
16,500.0	10,820.0	16,492.3	10,820.0	59.5	51.3	90.00	-5,748.6	-321.9	884.5	774.5	109.98	8.042		
16,600.0	10,820.0	16,592.3	10,820.0	60.4	52.1	90.00	-5,848.6	-321.2	884.5	772.8	111.68	7.920		
16,700.0	10,820.0	16,692.3	10,820.0	61.3	52.9	90.00	-5,948.6	-320.5	884.5	771.1	113.39	7.801		
16,800.0	10,820.0	16,792.3	10,820.0	62.2	53.8	90.00	-6,048.6	-319.8	884.5	769.4	115.10	7.685		
16,900.0	10,820.0	16,892.3	10,820.0	63.1	54.6	90.00	-6,148.6	-319.0	884.5	767.7	116.81	7.572		
17,000.0	10,820.0	16,992.3	10,820.0	64.0	55.4	90.00	-6,248.6	-318.3	884.5	766.0	118.52	7.463		
17,100.0	10,820.0	17,092.3	10,820.0	64.9	56.2	90.00	-6,348.6	-317.6	884.6	764.3	120.24	7.357		
17,200.0	10,820.0	17,192.3	10,820.0	65.9	57.1	90.00	-6,448.6	-316.9	884.6	762.6	121.96	7.253		
17,300.0	10,820.0	17,292.3	10,820.0	66.8	57.9	90.00	-6,548.6	-316.1	884.6	760.9	123.68	7.152		

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 504H - Slot SLOT 4
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 504H	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		Rule Assigned: Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,400.0	10,820.0	17,392.3	10,820.0	67.7	58.7	90.00	-6,648.6	-315.4	884.6	759.2	125.41	7.054	
17,500.0	10,820.0	17,492.3	10,820.0	68.6	59.6	90.00	-6,748.6	-314.7	884.6	757.5	127.13	6.958	
17,600.0	10,820.0	17,592.3	10,820.0	69.5	60.4	90.00	-6,848.5	-314.0	884.6	755.7	128.86	6.865	
17,700.0	10,820.0	17,692.3	10,820.0	70.4	61.2	90.00	-6,948.5	-313.2	884.6	754.0	130.59	6.774	
17,800.0	10,820.0	17,792.3	10,820.0	71.4	62.1	90.00	-7,048.5	-312.5	884.6	752.3	132.32	6.685	
17,900.0	10,820.0	17,892.3	10,820.0	72.3	62.9	90.00	-7,148.5	-311.8	884.6	750.6	134.06	6.599	
18,000.0	10,820.0	17,992.3	10,820.0	73.2	63.7	90.00	-7,248.5	-311.1	884.6	748.8	135.79	6.515	
18,100.0	10,820.0	18,092.3	10,820.0	74.1	64.6	90.00	-7,348.5	-310.3	884.6	747.1	137.53	6.432	
18,200.0	10,820.0	18,192.3	10,820.0	75.0	65.4	90.00	-7,448.5	-309.6	884.7	745.4	139.27	6.352	
18,300.0	10,820.0	18,292.3	10,820.0	76.0	66.2	90.00	-7,548.5	-308.9	884.7	743.7	141.01	6.274	
18,400.0	10,820.0	18,392.3	10,820.0	76.9	67.1	90.00	-7,648.5	-308.2	884.7	741.9	142.75	6.197	
18,400.9	10,820.0	18,393.2	10,820.0	76.9	67.1	90.00	-7,649.5	-308.1	884.7	741.9	142.77	6.197	
18,424.5	10,820.0	18,416.0	10,820.0	77.1	67.3	90.00	-7,672.3	-308.0	884.7	741.5	143.17	6.179	

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 504H - Slot SLO 4
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 504H	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 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	89.60	0.1	20.0	20.0				
100.0	100.0	100.0	100.0	0.8	0.8	89.60	0.1	20.0	20.0	18.0	2.04	9.796	
200.0	200.0	200.0	200.0	1.4	1.4	89.60	0.1	20.0	20.0	16.7	3.34	5.990	
300.0	300.0	300.0	300.0	1.9	1.9	89.60	0.1	20.0	20.0	15.8	4.22	4.743	
400.0	400.0	400.0	400.0	2.3	2.3	89.60	0.1	20.0	20.0	15.1	4.93	4.057	
500.0	500.0	500.0	500.0	2.6	2.6	89.60	0.1	20.0	20.0	14.5	5.55	3.604	
600.0	600.0	600.0	600.0	2.9	2.9	89.60	0.1	20.0	20.0	13.9	6.10	3.276	
700.0	700.0	700.0	700.0	3.1	3.1	89.60	0.1	20.0	20.0	13.4	6.61	3.024	
800.0	800.0	800.0	800.0	3.4	3.4	89.60	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	89.60	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	89.60	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	89.60	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	89.60	0.1	20.0	20.0	11.3	8.75	2.286 Caution - Monitor Closely	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	89.60	0.1	20.0	20.0	10.9	9.12	2.192 Caution - Monitor Closely	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	89.60	0.1	20.0	20.0	10.5	9.48	2.109 Caution - Monitor Closely	
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	89.60	0.1	20.0	20.0	10.2	9.83	2.034 Caution - Monitor Closely	
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	89.60	0.1	20.0	20.0	9.8	10.17	1.966 Caution - Monitor Closely	
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	89.60	0.1	20.0	20.0	9.5	10.50	1.905 Caution - Monitor Closely	
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	89.60	0.1	20.0	20.0	9.2	10.82	1.848 Caution - Monitor Closely	
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	89.60	0.1	20.0	20.0	8.9	11.14	1.796 Caution - Monitor Closely	
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	89.60	0.1	20.0	20.0	8.6	11.45	1.747 Caution - Monitor Closely, CC	
2,100.0	2,100.0	2,099.3	2,099.3	5.8	5.8	11.83	0.1	21.7	20.0	8.1	11.89	1.684 Caution - Monitor Closely	
2,200.0	2,199.8	2,198.6	2,198.4	6.0	6.0	14.72	0.1	26.9	20.1	7.8	12.30	1.635 Caution - Monitor Closely	
2,300.0	2,299.5	2,297.9	2,297.4	6.3	6.2	19.44	0.1	35.5	20.4	7.7	12.70	1.606 Caution - Monitor Closely, ES, SF	
2,400.0	2,398.7	2,397.2	2,395.9	6.5	6.4	25.76	0.1	47.5	21.0	7.9	13.08	1.607 Caution - Monitor Closely	
2,453.6	2,451.7	2,450.4	2,448.5	6.6	6.5	29.67	0.1	55.3	21.6	8.4	13.20	1.633 Caution - Monitor Closely	
2,500.0	2,497.5	2,496.4	2,493.9	6.7	6.6	32.72	0.1	62.9	22.5	9.2	13.30	1.690 Caution - Monitor Closely	
2,600.0	2,596.3	2,596.3	2,592.3	6.9	6.8	37.58	0.1	80.2	25.5	11.9	13.58	1.877 Caution - Monitor Closely	
2,700.0	2,695.0	2,696.2	2,690.7	7.2	6.9	41.38	0.1	97.6	28.6	14.8	13.86	2.066 Caution - Monitor Closely	
2,800.0	2,793.8	2,796.2	2,789.1	7.5	7.0	44.42	0.1	115.0	31.9	17.7	14.16	2.253 Caution - Monitor Closely	
2,900.0	2,892.5	2,896.1	2,887.6	7.7	7.2	46.90	0.1	132.3	35.2	20.8	14.46	2.435 Caution - Monitor Closely	
3,000.0	2,991.3	2,996.0	2,986.0	8.1	7.3	48.94	0.1	149.7	38.6	23.8	14.77	2.613 Normal Operations	
3,100.0	3,090.0	3,096.0	3,084.4	8.4	7.5	50.65	0.1	167.0	42.0	26.9	15.09	2.785 Normal Operations	
3,200.0	3,188.8	3,195.9	3,182.8	8.7	7.6	52.10	0.1	184.4	45.5	30.1	15.41	2.951 Normal Operations	
3,300.0	3,287.5	3,295.9	3,281.2	9.0	7.8	53.35	0.1	201.7	49.0	33.2	15.74	3.110	
3,400.0	3,386.3	3,395.8	3,379.6	9.4	7.9	54.43	0.1	219.1	52.5	36.4	16.07	3.264	
3,500.0	3,485.0	3,495.7	3,478.1	9.7	8.1	55.38	0.1	236.4	56.0	39.6	16.40	3.412	
3,600.0	3,583.8	3,595.7	3,576.5	10.1	8.2	56.21	0.1	253.8	59.5	42.8	16.74	3.554	
3,700.0	3,682.5	3,695.6	3,674.9	10.5	8.4	56.95	0.1	271.1	63.0	46.0	17.08	3.691	
3,800.0	3,781.3	3,795.5	3,773.3	10.8	8.6	57.61	0.1	288.5	66.6	49.2	17.42	3.822	
3,900.0	3,880.0	3,895.5	3,871.7	11.2	8.7	58.20	0.1	305.8	70.2	52.4	17.77	3.948	
4,000.0	3,978.8	3,995.4	3,970.1	11.6	8.9	58.74	0.1	323.2	73.7	55.6	18.11	4.069	
4,100.0	4,077.5	4,095.3	4,068.6	12.0	9.1	59.23	0.1	340.5	77.3	58.8	18.46	4.186	
4,200.0	4,176.3	4,195.3	4,167.0	12.4	9.2	59.67	0.1	357.9	80.9	62.0	18.81	4.298	
4,300.0	4,275.0	4,295.2	4,265.4	12.8	9.4	60.08	0.1	375.3	84.4	65.3	19.17	4.406	
4,400.0	4,373.8	4,395.1	4,363.8	13.2	9.6	60.45	0.1	392.6	88.0	68.5	19.52	4.510	
4,500.0	4,472.5	4,495.1	4,462.2	13.6	9.8	60.80	0.1	410.0	91.6	71.7	19.87	4.609	
4,600.0	4,571.3	4,595.0	4,560.6	14.0	9.9	61.12	0.1	427.3	95.2	75.0	20.23	4.706	
4,700.0	4,670.0	4,694.9	4,659.0	14.4	10.1	61.41	0.1	444.7	98.8	78.2	20.59	4.798	
4,800.0	4,768.8	4,794.9	4,757.5	14.8	10.3	61.69	0.1	462.0	102.4	81.4	20.95	4.888	
4,900.0	4,867.5	4,894.8	4,855.9	15.2	10.5	61.94	0.1	479.4	106.0	84.7	21.31	4.974	

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 504H - Slot SLOT 4
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 504H	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		Offset Wellbore Centre		Distance		Rule Assigned:		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		
5,000.0	4,966.3	4,994.7	4,954.3	15.6	10.6	62.18	0.1	496.7	109.6	87.9	21.67	5.057		
5,100.0	5,065.0	5,094.7	5,052.7	16.0	10.8	62.40	0.1	514.1	113.2	91.2	22.03	5.137		
5,132.0	5,096.6	5,126.6	5,084.2	16.2	10.9	62.47	0.1	519.6	114.3	92.2	22.13	5.166		
5,200.0	5,163.8	5,194.6	5,151.1	16.4	11.0	62.46	0.1	531.4	117.0	94.6	22.38	5.227		
5,300.0	5,262.9	5,294.5	5,249.5	16.8	11.2	61.84	0.1	548.8	121.5	98.7	22.85	5.320		
5,400.0	5,362.1	5,394.3	5,347.8	17.2	11.4	60.59	0.1	566.1	127.0	103.6	23.39	5.427		
5,500.0	5,461.6	5,494.0	5,446.0	17.6	11.6	58.80	0.1	583.4	133.4	109.3	24.03	5.550		
5,600.0	5,561.2	5,593.6	5,544.0	18.0	11.7	56.60	0.1	600.7	140.8	116.1	24.74	5.691		
5,700.0	5,661.0	5,693.0	5,641.9	18.4	11.9	54.09	0.1	618.0	149.5	124.0	25.52	5.857		
5,800.0	5,760.9	5,792.2	5,739.6	18.7	12.1	51.38	0.1	635.2	159.5	133.1	26.35	6.052		
5,900.0	5,860.8	5,891.2	5,837.1	19.0	12.3	48.58	0.1	652.4	171.0	143.8	27.21	6.284		
6,000.0	5,960.8	5,989.9	5,934.4	19.2	12.5	45.76	0.1	669.5	184.1	156.0	28.05	6.561		
6,039.2	6,000.0	6,028.5	5,972.4	19.3	12.6	123.41	0.1	676.2	189.7	161.3	28.34	6.692		
6,100.0	6,060.8	6,088.4	6,031.4	19.3	12.7	121.74	0.1	686.6	198.6	169.9	28.74	6.911		
6,200.0	6,160.8	6,186.9	6,128.4	19.4	12.9	119.30	0.1	703.7	213.6	184.3	29.35	7.278		
6,300.0	6,260.8	6,285.4	6,225.3	19.4	13.1	117.18	0.1	720.8	229.0	199.1	29.90	7.657		
6,400.0	6,360.8	6,383.9	6,322.3	19.4	13.2	115.33	0.1	737.9	244.6	214.2	30.40	8.045		
6,500.0	6,460.8	6,482.3	6,419.3	19.5	13.4	113.70	0.1	755.0	260.4	229.6	30.86	8.438		
6,600.0	6,560.8	6,580.8	6,516.3	19.5	13.6	112.25	0.1	772.1	276.5	245.2	31.29	8.836		
6,700.0	6,660.8	6,679.3	6,613.3	19.6	13.8	110.97	0.1	789.3	292.6	260.9	31.68	9.236		
6,800.0	6,760.8	6,777.8	6,710.3	19.6	14.0	109.82	0.1	806.4	308.9	276.9	32.06	9.637		
6,900.0	6,860.8	6,876.3	6,807.2	19.7	14.2	108.78	0.1	823.5	325.4	292.9	32.41	10.037		
7,000.0	6,960.8	6,974.7	6,904.2	19.7	14.4	107.85	0.1	840.6	341.9	309.1	32.76	10.437		
7,100.0	7,060.8	7,068.5	6,996.5	19.8	14.6	106.92	0.7	857.5	358.9	325.8	33.09	10.847		
7,200.0	7,160.8	7,159.8	7,085.8	19.8	14.8	105.74	3.0	876.0	377.8	344.4	33.45	11.294		
7,300.0	7,260.8	7,253.6	7,177.1	19.9	15.0	104.32	7.1	897.1	398.5	364.6	33.84	11.776		
7,400.0	7,360.8	7,350.9	7,271.7	19.9	15.2	102.95	11.6	919.2	419.6	385.4	34.22	12.263		
7,500.0	7,460.8	7,448.1	7,366.3	20.0	15.4	101.70	16.1	941.3	440.9	406.3	34.58	12.752		
7,600.0	7,560.8	7,545.4	7,461.0	20.0	15.6	100.57	20.6	963.5	462.4	427.5	34.92	13.242		
7,700.0	7,660.8	7,642.7	7,555.6	20.1	15.8	99.55	25.1	985.6	484.1	448.8	35.25	13.732		
7,800.0	7,760.8	7,739.9	7,650.2	20.1	16.0	98.60	29.6	1,007.7	505.9	470.3	35.58	14.221		
7,900.0	7,860.8	7,837.2	7,744.8	20.2	16.2	97.74	34.1	1,029.9	527.8	491.9	35.89	14.708		
8,000.0	7,960.8	7,934.5	7,839.4	20.2	16.4	96.95	38.6	1,052.0	549.9	513.7	36.19	15.193		
8,100.0	8,060.8	8,031.8	7,934.0	20.3	16.6	96.21	43.1	1,074.1	572.0	535.5	36.49	15.675		
8,200.0	8,160.8	8,129.0	8,028.6	20.4	16.8	95.53	47.6	1,096.2	594.2	557.4	36.79	16.153		
8,300.0	8,260.8	8,226.3	8,123.2	20.4	17.0	94.90	52.1	1,118.4	616.5	579.4	37.08	16.628		
8,400.0	8,360.8	8,323.6	8,217.8	20.5	17.2	94.32	56.6	1,140.5	638.8	601.5	37.36	17.098		
8,500.0	8,460.8	8,420.8	8,312.5	20.5	17.4	93.77	61.1	1,162.6	661.2	623.6	37.65	17.564		
8,600.0	8,560.8	8,518.1	8,407.1	20.6	17.6	93.26	65.6	1,184.7	683.7	645.8	37.93	18.026		
8,700.0	8,660.8	8,615.4	8,501.7	20.6	17.8	92.78	70.1	1,206.9	706.2	668.0	38.21	18.483		
8,800.0	8,760.8	8,712.6	8,596.3	20.7	18.0	92.33	74.6	1,229.0	728.8	690.3	38.49	18.936		
8,900.0	8,860.8	8,813.1	8,694.0	20.7	18.3	91.90	79.2	1,251.8	751.3	712.6	38.77	19.380		
9,000.0	8,960.8	8,925.2	8,803.4	20.8	18.5	91.47	84.1	1,275.8	772.6	733.5	39.10	19.762		
9,100.0	9,060.8	9,038.3	8,914.2	20.8	18.7	91.09	88.6	1,297.9	792.1	752.7	39.40	20.106		
9,200.0	9,160.8	9,152.2	9,026.3	20.9	19.0	90.77	92.7	1,317.9	809.6	770.0	39.68	20.403		
9,300.0	9,260.8	9,266.9	9,139.5	20.9	19.2	90.50	96.3	1,335.9	825.3	785.3	39.96	20.654		
9,400.0	9,360.8	9,382.3	9,253.8	21.0	19.4	90.27	99.6	1,351.8	839.0	798.8	40.22	20.861		
9,500.0	9,460.8	9,498.4	9,369.0	21.0	19.6	90.08	102.3	1,365.5	850.8	810.3	40.47	21.023		
9,600.0	9,560.8	9,614.9	9,485.0	21.1	19.8	89.92	104.7	1,376.9	860.6	819.9	40.71	21.141		
9,700.0	9,660.8	9,731.9	9,601.6	21.2	20.1	89.80	106.5	1,386.0	868.4	827.5	40.93	21.217		

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 504H - Slot SLO 4
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 504H	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									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)				
9,800.0	9,760.8	9,849.3	9,718.7	21.2	20.2	89.71	107.9	1,392.8	874.2	833.1	41.14	21.252		
9,900.0	9,860.8	9,966.8	9,836.2	21.3	20.4	89.65	108.8	1,397.3	878.0	836.7	41.33	21.246		
10,000.0	9,960.8	10,084.5	9,953.9	21.3	20.6	89.62	109.2	1,399.4	879.8	838.4	41.49	21.204		
10,100.0	10,060.8	10,191.5	10,060.8	21.4	20.6	89.62	109.3	1,399.6	880.0	838.4	41.59	21.161		
10,200.0	10,160.8	10,291.5	10,160.8	21.4	20.7	89.62	109.3	1,399.6	880.0	838.3	41.68	21.111		
10,300.0	10,260.8	10,391.5	10,260.8	21.5	20.7	89.62	109.3	1,399.6	880.0	838.2	41.78	21.061		
10,381.7	10,342.5	10,473.2	10,342.5	21.5	20.7	89.62	109.3	1,399.6	880.0	838.2	41.85	21.028		
10,400.0	10,360.8	10,491.5	10,360.8	21.5	20.7	-89.96	108.9	1,399.6	880.0	838.1	41.86	21.024		
10,425.0	10,385.8	10,516.4	10,385.7	21.5	20.7	-89.96	107.3	1,399.6	880.0	838.1	41.85	21.025		
10,450.0	10,410.6	10,541.4	10,410.5	21.5	20.7	-89.96	104.4	1,399.6	880.0	838.2	41.85	21.028		
10,475.0	10,435.2	10,566.4	10,435.1	21.5	20.7	-89.96	100.2	1,399.7	880.0	838.2	41.84	21.032		
10,500.0	10,459.6	10,591.3	10,459.5	21.4	20.7	-89.96	94.7	1,399.7	880.0	838.2	41.83	21.036		
10,525.0	10,483.7	10,616.3	10,483.5	21.4	20.7	-89.96	88.0	1,399.8	880.0	838.2	41.83	21.040		
10,550.0	10,507.4	10,641.3	10,507.1	21.4	20.7	-89.96	80.0	1,399.8	880.0	838.2	41.82	21.044		
10,575.0	10,530.6	10,666.2	10,530.3	21.4	20.7	-89.96	70.8	1,399.9	880.0	838.2	41.81	21.048		
10,600.0	10,553.3	10,691.2	10,553.0	21.4	20.7	-89.96	60.4	1,400.0	880.0	838.2	41.80	21.053		
10,625.0	10,575.4	10,716.2	10,575.2	21.3	20.7	-89.96	48.8	1,400.1	880.0	838.2	41.79	21.057		
10,650.0	10,596.9	10,741.1	10,596.6	21.3	20.7	-89.96	36.0	1,400.1	880.0	838.2	41.79	21.060		
10,675.0	10,617.7	10,766.1	10,617.4	21.3	20.7	-89.97	22.2	1,400.2	880.0	838.2	41.78	21.063		
10,700.0	10,637.8	10,791.1	10,637.4	21.3	20.7	-89.97	7.3	1,400.4	880.0	838.2	41.77	21.065		
10,725.0	10,657.0	10,816.1	10,656.7	21.3	20.7	-89.97	-8.6	1,400.5	880.0	838.2	41.77	21.066		
10,750.0	10,675.4	10,841.0	10,675.0	21.3	20.7	-89.97	-25.6	1,400.6	880.0	838.2	41.77	21.066		
10,775.0	10,692.8	10,866.0	10,692.5	21.3	20.7	-89.97	-43.4	1,400.7	880.0	838.2	41.78	21.065		
10,800.0	10,709.3	10,891.0	10,709.0	21.3	20.7	-89.97	-62.2	1,400.9	880.0	838.2	41.78	21.062		
10,825.0	10,724.8	10,916.0	10,724.5	21.3	20.8	-89.98	-81.7	1,401.0	880.0	838.2	41.79	21.057		
10,850.0	10,739.3	10,941.0	10,739.0	21.3	20.8	-89.98	-102.1	1,401.2	880.0	838.2	41.81	21.050		
10,875.0	10,752.6	10,965.9	10,752.3	21.3	20.8	-89.98	-123.2	1,401.3	880.0	838.2	41.82	21.041		
10,900.0	10,764.8	10,990.9	10,764.6	21.3	20.8	-89.98	-145.0	1,401.5	880.0	838.2	41.85	21.030		
10,925.0	10,775.9	11,015.9	10,775.7	21.3	20.8	-89.98	-167.4	1,401.6	880.0	838.1	41.87	21.016		
10,950.0	10,785.8	11,040.9	10,785.6	21.3	20.9	-89.98	-190.3	1,401.8	880.0	838.1	41.91	20.999		
10,975.0	10,794.5	11,065.9	10,794.3	21.3	20.9	-89.99	-213.7	1,402.0	880.0	838.1	41.94	20.981		
11,000.0	10,801.9	11,090.9	10,801.8	21.3	20.9	-89.99	-237.6	1,402.2	880.0	838.0	41.99	20.959		
11,025.0	10,808.1	11,115.9	10,808.0	21.4	21.0	-89.99	-261.8	1,402.3	880.0	838.0	42.03	20.935		
11,050.0	10,813.0	11,140.9	10,812.9	21.4	21.0	-89.99	-286.3	1,402.5	880.0	837.9	42.09	20.908		
11,075.0	10,816.6	11,165.8	10,816.5	21.4	21.1	-90.00	-311.0	1,402.7	880.0	837.9	42.15	20.879		
11,100.0	10,818.9	11,190.8	10,818.9	21.5	21.1	-90.00	-335.9	1,402.9	880.0	837.8	42.21	20.848		
11,125.0	10,819.9	11,215.8	10,819.9	21.5	21.2	-90.00	-360.8	1,403.1	880.0	837.7	42.28	20.814		
11,131.7	10,820.0	11,222.5	10,820.0	21.5	21.2	-90.00	-367.5	1,403.1	880.0	837.7	42.30	20.804		
11,200.0	10,820.0	11,290.8	10,820.0	21.6	21.3	-90.00	-435.8	1,403.6	880.0	837.5	42.52	20.694		
11,300.0	10,820.0	11,390.8	10,820.0	21.9	21.6	-90.00	-535.8	1,404.3	880.0	837.1	42.93	20.499		
11,400.0	10,820.0	11,490.8	10,820.0	22.1	21.9	-90.00	-635.8	1,405.1	880.0	836.6	43.41	20.274		
11,500.0	10,820.0	11,590.8	10,820.0	22.4	22.3	-90.00	-735.8	1,405.8	880.0	836.0	43.95	20.022		
11,600.0	10,820.0	11,690.8	10,820.0	22.8	22.6	-90.00	-835.8	1,406.5	880.0	835.4	44.56	19.747		
11,700.0	10,820.0	11,790.8	10,820.0	23.1	23.0	-90.00	-935.8	1,407.3	880.0	834.8	45.24	19.451		
11,800.0	10,820.0	11,890.8	10,820.0	23.5	23.4	-90.00	-1,035.8	1,408.0	880.0	834.0	45.98	19.139		
11,900.0	10,820.0	11,990.8	10,820.0	24.0	23.8	-90.00	-1,135.8	1,408.7	880.0	833.2	46.78	18.813		
12,000.0	10,820.0	12,090.8	10,820.0	24.5	24.2	-90.00	-1,235.8	1,409.5	880.0	832.4	47.63	18.476		
12,100.0	10,820.0	12,190.8	10,820.0	25.0	24.7	-90.00	-1,335.8	1,410.2	880.0	831.5	48.53	18.132		
12,200.0	10,820.0	12,290.8	10,820.0	25.5	25.2	-90.00	-1,435.8	1,411.0	880.0	830.5	49.49	17.782		
12,300.0	10,820.0	12,390.8	10,820.0	26.0	25.7	-90.00	-1,535.8	1,411.7	880.0	829.5	50.49	17.429		
12,400.0	10,820.0	12,490.8	10,820.0	26.6	26.2	-90.00	-1,635.8	1,412.4	880.0	828.5	51.53	17.076		

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 504H - Slot SLOT 4
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 504H	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		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error: 0.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
12,500.0	10,820.0	12,590.8	10,820.0	27.2	26.7	-90.00	-1,735.8	1,413.2	880.0	827.4	52.62	16.724		
12,600.0	10,820.0	12,690.8	10,820.0	27.8	27.2	-90.00	-1,835.8	1,413.9	880.0	826.3	53.75	16.373		
12,700.0	10,820.0	12,790.8	10,820.0	28.4	27.8	-90.00	-1,935.8	1,414.6	880.0	825.1	54.91	16.027		
12,800.0	10,820.0	12,890.8	10,820.0	29.1	28.4	-90.00	-2,035.8	1,415.4	880.0	823.9	56.10	15.686		
12,900.0	10,820.0	12,990.8	10,820.0	29.8	28.9	-90.00	-2,135.8	1,416.1	880.0	822.7	57.33	15.350		
13,000.0	10,820.0	13,090.8	10,820.0	30.4	29.5	-90.00	-2,235.8	1,416.8	880.0	821.4	58.59	15.020		
13,100.0	10,820.0	13,190.8	10,820.0	31.1	30.1	-90.00	-2,335.8	1,417.6	880.0	820.1	59.87	14.698		
13,200.0	10,820.0	13,290.8	10,820.0	31.9	30.7	-90.00	-2,435.8	1,418.3	880.0	818.8	61.19	14.383		
13,300.0	10,820.0	13,390.8	10,820.0	32.6	31.3	-90.00	-2,535.8	1,419.0	880.0	817.5	62.52	14.075		
13,400.0	10,820.0	13,490.8	10,820.0	33.3	32.0	-90.00	-2,635.8	1,419.8	880.0	816.1	63.88	13.776		
13,500.0	10,820.0	13,590.8	10,820.0	34.1	32.6	-90.00	-2,735.8	1,420.5	880.0	814.7	65.26	13.484		
13,600.0	10,820.0	13,690.8	10,820.0	34.8	33.3	-90.00	-2,835.8	1,421.2	880.0	813.3	66.66	13.201		
13,700.0	10,820.0	13,790.8	10,820.0	35.6	33.9	-90.00	-2,935.8	1,422.0	880.0	811.9	68.08	12.925		
13,800.0	10,820.0	13,890.8	10,820.0	36.4	34.6	-90.00	-3,035.8	1,422.7	880.0	810.5	69.52	12.658		
13,900.0	10,820.0	13,990.8	10,820.0	37.2	35.3	-90.00	-3,135.8	1,423.4	880.0	809.0	70.98	12.398		
14,000.0	10,820.0	14,090.8	10,820.0	38.0	35.9	-90.00	-3,235.8	1,424.2	880.0	807.6	72.45	12.147		
14,100.0	10,820.0	14,190.8	10,820.0	38.8	36.6	-90.00	-3,335.8	1,424.9	880.0	806.1	73.93	11.903		
14,200.0	10,820.0	14,290.8	10,820.0	39.6	37.3	-90.00	-3,435.8	1,425.6	880.0	804.6	75.43	11.666		
14,300.0	10,820.0	14,390.8	10,820.0	40.4	38.0	-90.00	-3,535.8	1,426.4	880.0	803.1	76.94	11.437		
14,400.0	10,820.0	14,490.8	10,820.0	41.2	38.7	-90.00	-3,635.8	1,427.1	880.0	801.5	78.47	11.215		
14,500.0	10,820.0	14,590.8	10,820.0	42.1	39.5	-90.00	-3,735.8	1,427.8	880.0	800.0	80.00	10.999		
14,600.0	10,820.0	14,690.8	10,820.0	42.9	40.2	-90.00	-3,835.8	1,428.6	880.0	798.4	81.55	10.791		
14,700.0	10,820.0	14,790.8	10,820.0	43.7	40.9	-90.00	-3,935.8	1,429.3	880.0	796.9	83.11	10.589		
14,800.0	10,820.0	14,890.8	10,820.0	44.6	41.6	-90.00	-4,035.7	1,430.0	880.0	795.3	84.68	10.393		
14,900.0	10,820.0	14,990.8	10,820.0	45.4	42.4	-90.00	-4,135.7	1,430.8	880.0	793.7	86.25	10.203		
15,000.0	10,820.0	15,090.8	10,820.0	46.3	43.1	-90.00	-4,235.7	1,431.5	880.0	792.2	87.84	10.019		
15,100.0	10,820.0	15,190.8	10,820.0	47.1	43.8	-90.00	-4,335.7	1,432.2	880.0	790.6	89.43	9.840		
15,200.0	10,820.0	15,290.8	10,820.0	48.0	44.6	-90.00	-4,435.7	1,433.0	880.0	789.0	91.03	9.667		
15,300.0	10,820.0	15,390.8	10,820.0	48.9	45.3	-90.00	-4,535.7	1,433.7	880.0	787.4	92.64	9.499		
15,400.0	10,820.0	15,490.8	10,820.0	49.7	46.1	-90.00	-4,635.7	1,434.4	880.0	785.7	94.25	9.336		
15,500.0	10,820.0	15,590.8	10,820.0	50.6	46.8	-90.00	-4,735.7	1,435.2	880.0	784.1	95.88	9.178		
15,600.0	10,820.0	15,690.8	10,820.0	51.5	47.6	-90.00	-4,835.7	1,435.9	880.0	782.5	97.51	9.025		
15,700.0	10,820.0	15,790.8	10,820.0	52.4	48.4	-90.00	-4,935.7	1,436.6	880.0	780.9	99.14	8.876		
15,800.0	10,820.0	15,890.8	10,820.0	53.2	49.1	-90.00	-5,035.7	1,437.4	880.0	779.2	100.78	8.732		
15,900.0	10,820.0	15,990.8	10,820.0	54.1	49.9	-90.00	-5,135.7	1,438.1	880.0	777.6	102.43	8.592		
16,000.0	10,820.0	16,090.8	10,820.0	55.0	50.7	-90.00	-5,235.7	1,438.8	880.0	775.9	104.08	8.455		
16,100.0	10,820.0	16,190.8	10,820.0	55.9	51.4	-90.00	-5,335.7	1,439.6	880.0	774.3	105.73	8.323		
16,200.0	10,820.0	16,290.8	10,820.0	56.8	52.2	-90.00	-5,435.7	1,440.3	880.0	772.6	107.39	8.194		
16,300.0	10,820.0	16,390.8	10,820.0	57.7	53.0	-90.00	-5,535.7	1,441.1	880.0	770.9	109.06	8.069		
16,400.0	10,820.0	16,490.8	10,820.0	58.6	53.8	-90.00	-5,635.7	1,441.8	880.0	769.3	110.73	7.947		
16,500.0	10,820.0	16,590.8	10,820.0	59.5	54.6	-90.00	-5,735.7	1,442.5	880.0	767.6	112.40	7.829		
16,600.0	10,820.0	16,690.8	10,820.0	60.4	55.3	-90.00	-5,835.7	1,443.3	880.0	765.9	114.08	7.714		
16,700.0	10,820.0	16,790.8	10,820.0	61.3	56.1	-90.00	-5,935.7	1,444.0	880.0	764.2	115.76	7.602		
16,800.0	10,820.0	16,890.8	10,820.0	62.2	56.9	-90.00	-6,035.7	1,444.7	880.0	762.6	117.44	7.493		
16,900.0	10,820.0	16,990.8	10,820.0	63.1	57.7	-90.00	-6,135.7	1,445.5	880.0	760.9	119.13	7.387		
17,000.0	10,820.0	17,090.8	10,820.0	64.0	58.5	-90.00	-6,235.7	1,446.2	880.0	759.2	120.82	7.283		
17,100.0	10,820.0	17,190.8	10,820.0	64.9	59.3	-90.00	-6,335.7	1,446.9	880.0	757.5	122.52	7.183		
17,200.0	10,820.0	17,290.8	10,820.0	65.9	60.1	-90.00	-6,435.7	1,447.7	880.0	755.8	124.22	7.084		
17,300.0	10,820.0	17,390.8	10,820.0	66.8	60.9	-90.00	-6,535.7	1,448.4	880.0	754.1	125.92	6.989		
17,400.0	10,820.0	17,490.8	10,820.0	67.7	61.7	-90.00	-6,635.7	1,449.1	880.0	752.4	127.62	6.895		

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 504H - Slot SLO 4
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 504H	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 Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
17,500.0	10,820.0	17,590.8	10,820.0	68.6	62.5	-90.00	-6,735.7	1,449.9	880.0	750.7	129.33	6.805		
17,600.0	10,820.0	17,690.8	10,820.0	69.5	63.3	-90.00	-6,835.7	1,450.6	880.0	749.0	131.03	6.716		
17,700.0	10,820.0	17,790.8	10,820.0	70.4	64.1	-90.00	-6,935.7	1,451.3	880.0	747.3	132.75	6.629		
17,800.0	10,820.0	17,890.8	10,820.0	71.4	64.9	-90.00	-7,035.7	1,452.1	880.0	745.5	134.46	6.545		
17,900.0	10,820.0	17,990.8	10,820.0	72.3	65.7	-90.00	-7,135.7	1,452.8	880.0	743.8	136.17	6.462		
18,000.0	10,820.0	18,090.8	10,820.0	73.2	66.5	-90.00	-7,235.7	1,453.5	880.0	742.1	137.89	6.382		
18,100.0	10,820.0	18,190.8	10,820.0	74.1	67.3	-90.00	-7,335.7	1,454.3	880.0	740.4	139.61	6.303		
18,200.0	10,820.0	18,290.8	10,820.0	75.0	68.2	-90.00	-7,435.7	1,455.0	880.0	738.7	141.33	6.226		
18,300.0	10,820.0	18,390.8	10,820.0	76.0	69.0	-90.00	-7,535.7	1,455.7	880.0	736.9	143.06	6.151		
18,400.0	10,820.0	18,490.8	10,820.0	76.9	69.8	-90.00	-7,635.7	1,456.5	880.0	735.2	144.78	6.078		
18,424.5	10,820.0	18,515.3	10,820.0	77.1	70.0	-90.00	-7,660.1	1,456.6	880.0	734.8	145.21	6.060		

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 504H - Slot SLOT 4
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 504H	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
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		
0.0	0.0	0.0	0.0	0.0	0.0	89.63	0.3	39.9	39.9						
100.0	100.0	100.0	100.0	0.8	0.8	89.63	0.3	39.9	39.9	37.9	2.04	19.562			
200.0	200.0	200.0	200.0	1.4	1.4	89.63	0.3	39.9	39.9	36.6	3.34	11.962			
300.0	300.0	300.0	300.0	1.9	1.9	89.63	0.3	39.9	39.9	35.7	4.22	9.473			
400.0	400.0	400.0	400.0	2.3	2.3	89.63	0.3	39.9	39.9	35.0	4.93	8.102			
500.0	500.0	500.0	500.0	2.6	2.6	89.63	0.3	39.9	39.9	34.4	5.55	7.198			
600.0	600.0	600.0	600.0	2.9	2.9	89.63	0.3	39.9	39.9	33.8	6.10	6.543			
700.0	700.0	700.0	700.0	3.1	3.1	89.63	0.3	39.9	39.9	33.3	6.61	6.038			
800.0	800.0	800.0	800.0	3.4	3.4	89.63	0.3	39.9	39.9	32.9	7.09	5.634			
900.0	900.0	900.0	900.0	3.6	3.6	89.63	0.3	39.9	39.9	32.4	7.54	5.301			
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	89.63	0.3	39.9	39.9	32.0	7.96	5.019			
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	89.63	0.3	39.9	39.9	31.6	8.36	4.776			
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	89.63	0.3	39.9	39.9	31.2	8.75	4.565 CC, ES			
1,300.0	1,300.0	1,298.6	1,298.6	4.4	4.5	89.85	0.1	41.6	41.7	32.4	9.22	4.520 SF			
1,400.0	1,400.0	1,397.0	1,396.8	4.6	4.7	90.40	-0.3	46.7	46.8	37.1	9.65	4.850			
1,500.0	1,500.0	1,494.8	1,494.3	4.7	5.0	91.10	-1.1	55.0	55.3	45.3	10.06	5.502			
1,600.0	1,600.0	1,592.1	1,590.8	4.9	5.2	91.78	-2.1	66.6	67.3	56.8	10.45	6.440			
1,700.0	1,700.0	1,688.4	1,686.0	5.1	5.5	92.37	-3.4	81.3	82.6	71.8	10.82	7.632			
1,800.0	1,800.0	1,786.5	1,782.7	5.2	5.7	92.82	-4.8	98.3	99.9	88.8	11.14	8.968			
1,900.0	1,900.0	1,885.0	1,879.6	5.4	5.8	93.14	-6.3	115.3	117.3	105.8	11.45	10.237			
2,000.0	2,000.0	1,983.5	1,976.6	5.6	6.0	93.38	-7.8	132.3	134.6	122.8	11.77	11.439			
2,100.0	2,100.0	2,082.2	2,073.9	5.8	6.1	14.92	-9.3	149.4	150.3	138.2	12.15	12.371			
2,200.0	2,199.8	2,181.4	2,171.6	6.0	6.3	15.47	-10.8	166.6	162.7	150.1	12.53	12.980			
2,300.0	2,299.5	2,276.5	2,265.0	6.3	6.5	16.15	-12.1	184.0	172.8	159.8	12.95	13.346			
2,400.0	2,398.7	2,370.3	2,356.7	6.5	6.7	16.80	-12.9	204.2	182.7	169.3	13.37	13.660			
2,453.6	2,451.7	2,420.5	2,405.4	6.6	6.9	17.15	-13.2	216.2	187.9	174.4	13.54	13.877			
2,500.0	2,497.5	2,463.9	2,447.3	6.7	7.0	17.44	-13.3	227.2	192.8	179.1	13.69	14.086			
2,600.0	2,596.3	2,558.5	2,538.3	6.9	7.1	17.87	-13.2	253.4	205.5	191.5	14.03	14.651			
2,700.0	2,695.0	2,657.6	2,633.3	7.2	7.3	18.20	-13.1	281.6	219.0	204.6	14.44	15.171			
2,800.0	2,793.8	2,756.7	2,728.3	7.5	7.5	18.50	-12.9	309.7	232.5	217.7	14.88	15.625			
2,900.0	2,892.5	2,855.8	2,823.2	7.7	7.6	18.76	-12.7	337.9	246.1	230.7	15.34	16.036			
3,000.0	2,991.3	2,954.8	2,918.2	8.1	7.8	19.00	-12.5	366.1	259.6	243.8	15.82	16.406			
3,100.0	3,090.0	3,053.9	3,013.2	8.4	8.0	19.21	-12.3	394.3	273.1	256.8	16.32	16.741			
3,200.0	3,188.8	3,153.0	3,108.2	8.7	8.2	19.41	-12.1	422.4	286.7	269.9	16.82	17.043			
3,300.0	3,287.5	3,252.1	3,203.2	9.0	8.4	19.58	-11.9	450.6	300.2	282.9	17.34	17.316			
3,400.0	3,386.3	3,351.1	3,298.2	9.4	8.6	19.74	-11.7	478.8	313.8	295.9	17.86	17.563			
3,500.0	3,485.0	3,450.2	3,393.1	9.7	8.8	19.89	-11.6	507.0	327.3	308.9	18.40	17.787			
3,600.0	3,583.8	3,549.3	3,488.1	10.1	9.0	20.03	-11.4	535.2	340.9	321.9	18.95	17.990			
3,700.0	3,682.5	3,648.4	3,583.1	10.5	9.2	20.15	-11.2	563.3	354.4	334.9	19.50	18.174			
3,800.0	3,781.3	3,747.4	3,678.1	10.8	9.4	20.27	-11.0	591.5	368.0	347.9	20.06	18.342			
3,900.0	3,880.0	3,846.5	3,773.1	11.2	9.6	20.38	-10.8	619.7	381.5	360.9	20.63	18.495			
4,000.0	3,978.8	3,945.6	3,868.1	11.6	9.8	20.48	-10.6	647.9	395.1	373.9	21.20	18.634			
4,100.0	4,077.5	4,044.7	3,963.0	12.0	10.0	20.57	-10.4	676.1	408.6	386.9	21.78	18.761			
4,200.0	4,176.3	4,143.7	4,058.0	12.4	10.2	20.66	-10.2	704.2	422.2	399.8	22.37	18.877			
4,300.0	4,275.0	4,242.8	4,153.0	12.8	10.4	20.74	-10.1	732.4	435.8	412.8	22.95	18.983			
4,400.0	4,373.8	4,341.9	4,248.0	13.2	10.6	20.82	-9.9	760.6	449.3	425.8	23.55	19.081			
4,500.0	4,472.5	4,441.0	4,343.0	13.6	10.8	20.89	-9.7	788.8	462.9	438.7	24.15	19.170			
4,600.0	4,571.3	4,540.0	4,437.9	14.0	11.1	20.96	-9.5	817.0	476.4	451.7	24.75	19.253			
4,700.0	4,670.0	4,639.1	4,532.9	14.4	11.3	21.02	-9.3	845.1	490.0	464.6	25.35	19.329			
4,800.0	4,768.8	4,738.2	4,627.9	14.8	11.5	21.08	-9.1	873.3	503.6	477.6	25.96	19.399			
4,900.0	4,867.5	4,837.3	4,722.9	15.2	11.7	21.14	-8.9	901.5	517.1	490.6	26.57	19.463			

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 504H - Slot SLO T 4
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 504H	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												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)			
5,000.0	4,966.3	4,936.3	4,817.9	15.6	11.9	21.20	-8.7	929.7	530.7	503.5	27.18	19.523	
5,100.0	5,065.0	5,035.4	4,912.9	16.0	12.2	21.25	-8.6	957.9	544.3	516.5	27.80	19.578	
5,132.0	5,096.6	5,067.1	4,943.2	16.2	12.2	21.27	-8.5	966.9	548.6	520.6	27.98	19.603	
5,200.0	5,163.8	5,134.4	5,007.8	16.4	12.4	21.32	-8.4	986.0	558.2	529.8	28.39	19.661	
5,300.0	5,262.9	5,233.2	5,102.5	16.8	12.6	21.35	-8.2	1,014.1	573.7	544.6	29.00	19.779	
5,400.0	5,362.1	5,331.8	5,197.0	17.2	12.8	21.32	-8.0	1,042.1	590.7	561.1	29.61	19.950	
5,500.0	5,461.6	5,430.0	5,291.1	17.6	13.1	21.25	-7.8	1,070.1	609.4	579.2	30.21	20.174	
5,600.0	5,561.2	5,527.9	5,385.0	18.0	13.3	21.13	-7.6	1,097.9	629.7	598.9	30.79	20.448	
5,700.0	5,661.0	5,625.4	5,478.5	18.4	13.5	20.97	-7.4	1,125.7	651.5	620.2	31.36	20.773	
5,800.0	5,760.9	5,722.6	5,571.7	18.7	13.7	20.78	-7.2	1,153.3	675.0	643.1	31.92	21.149	
5,900.0	5,860.8	5,819.3	5,664.4	19.0	14.0	20.56	-7.1	1,180.8	700.1	667.6	32.44	21.580	
6,000.0	5,960.8	5,915.6	5,756.7	19.2	14.2	20.32	-6.9	1,208.2	726.7	693.8	32.92	22.077	
6,039.2	6,000.0	5,953.2	5,792.8	19.3	14.3	98.96	-6.8	1,218.9	737.6	704.6	33.05	22.318	
6,100.0	6,060.8	6,011.5	5,848.7	19.3	14.4	98.75	-6.7	1,235.5	754.7	721.5	33.21	22.728	
6,200.0	6,160.8	6,107.4	5,940.6	19.4	14.6	98.42	-6.5	1,262.7	782.8	749.4	33.48	23.382	
6,300.0	6,260.8	6,203.3	6,032.5	19.4	14.9	98.11	-6.3	1,290.0	811.0	777.2	33.75	24.026	
6,400.0	6,360.8	6,299.1	6,124.4	19.4	15.1	97.82	-6.2	1,317.3	839.2	805.1	34.03	24.661	
6,500.0	6,460.8	6,395.0	6,216.3	19.5	15.3	97.56	-6.0	1,344.6	867.3	833.0	34.30	25.285	
6,600.0	6,560.8	6,490.9	6,308.2	19.5	15.6	97.31	-5.8	1,371.8	895.5	861.0	34.58	25.901	
6,700.0	6,660.8	6,586.7	6,400.1	19.6	15.8	97.07	-5.6	1,399.1	923.8	888.9	34.85	26.507	
6,800.0	6,760.8	6,682.6	6,492.0	19.6	16.0	96.85	-5.4	1,426.4	952.0	916.9	35.12	27.104	
6,900.0	6,860.8	6,778.5	6,583.9	19.7	16.3	96.64	-5.2	1,453.6	980.2	944.8	35.40	27.691	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 504H - Slot SLO 4
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 504H	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 - CALM BREEZE 2 FEDERAL COM 701H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 131-r.5 MWD+HFR1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,800.0	10,820.0	10,871.6	10,824.5	71.4	33.7	90.39	-7,770.1	-78.6	976.4	891.3	85.16	11.466	
17,900.0	10,820.0	10,870.4	10,823.4	72.3	33.7	90.29	-7,770.1	-78.6	904.9	814.7	90.23	10.029	
18,000.0	10,820.0	10,869.2	10,822.2	73.2	33.7	90.19	-7,770.2	-78.6	839.1	743.4	95.76	8.763	
18,100.0	10,820.0	10,868.1	10,821.0	74.1	33.7	90.09	-7,770.2	-78.6	780.7	679.1	101.58	7.686	
18,200.0	10,820.0	10,866.9	10,819.9	75.0	33.7	89.99	-7,770.2	-78.6	731.3	624.0	107.35	6.813	
18,300.0	10,820.0	10,865.7	10,818.7	76.0	33.7	89.89	-7,770.2	-78.6	693.0	580.5	112.52	6.159	
18,400.0	10,820.0	10,864.6	10,817.5	76.9	33.7	89.78	-7,770.2	-78.6	667.5	551.1	116.42	5.733	
18,424.5	10,820.0	10,864.3	10,817.2	77.1	33.7	89.76	-7,770.2	-78.6	663.4	546.3	117.11	5.665 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 504H - Slot SLO 4
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 504H	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	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	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	15.0	0.0	0.0	-49.03	525.8	-605.4	802.0					
100.0	100.0	81.8	96.8	0.8	0.5	-49.02	525.9	-605.5	802.0	800.2	1.76	454.815		
200.0	200.0	182.6	197.6	1.4	1.2	-49.00	526.4	-605.6	802.4	799.3	3.12	257.130		
300.0	300.0	283.8	298.8	1.9	1.8	-48.97	526.9	-605.4	802.6	798.6	4.08	196.772		
400.0	400.0	386.1	401.1	2.3	2.2	-48.93	527.3	-605.1	802.6	797.8	4.82	166.419		
500.0	500.0	486.8	501.8	2.6	2.6	-48.89	527.6	-604.6	802.5	797.0	5.45	147.270		
600.0	600.0	585.7	600.7	2.9	2.9	-48.84	528.0	-604.0	802.3	796.3	6.01	133.594		
700.0	700.0	685.1	700.1	3.1	3.2	-48.80	528.4	-603.6	802.3	795.7	6.52	123.069		
710.3	710.3	695.4	710.3	3.1	3.2	-48.80	528.5	-603.6	802.3	795.7	6.57	122.116		
800.0	800.0	784.9	799.9	3.4	3.5	-48.76	528.9	-603.3	802.3	795.3	7.00	114.648		
900.0	900.0	885.7	900.7	3.6	3.8	-48.72	529.2	-602.9	802.2	794.8	7.45	107.703		
1,000.0	1,000.0	985.4	1,000.3	3.8	4.0	-48.69	529.5	-602.5	802.1	794.3	7.87	101.891		
1,100.0	1,100.0	1,085.4	1,100.4	4.0	4.3	-48.67	529.7	-602.3	802.1	793.8	8.28	96.898		
1,200.0	1,200.0	1,185.9	1,200.9	4.2	4.5	-48.65	529.8	-602.1	802.0	793.4	8.67	92.547		
1,300.0	1,300.0	1,287.2	1,302.2	4.4	4.8	-48.63	530.0	-601.7	801.8	792.8	9.04	88.690		
1,400.0	1,400.0	1,387.2	1,402.1	4.6	5.0	-48.60	530.1	-601.3	801.6	792.2	9.40	85.259		
1,500.0	1,500.0	1,486.8	1,501.8	4.7	5.2	-48.58	530.1	-600.9	801.3	791.6	9.75	82.167		
1,600.0	1,600.0	1,587.1	1,602.1	4.9	5.4	-48.56	530.1	-600.6	801.1	791.0	10.10	79.342		
1,700.0	1,700.0	1,688.2	1,703.1	5.1	5.6	-48.55	530.1	-600.2	800.8	790.3	10.44	76.735		
1,800.0	1,800.0	1,787.7	1,802.7	5.2	5.8	-48.53	530.0	-599.7	800.4	789.6	10.77	74.334		
1,900.0	1,900.0	1,887.0	1,902.0	5.4	6.0	-48.51	530.0	-599.3	800.1	789.0	11.09	72.122		
2,000.0	2,000.0	1,987.5	2,002.4	5.6	6.2	-48.49	530.0	-599.0	799.8	788.4	11.42	70.054		
2,014.9	2,014.9	2,002.5	2,017.4	5.6	6.3	-127.23	530.0	-598.9	799.8	788.3	11.47	69.726 CC, ES		
2,100.0	2,100.0	2,086.5	2,101.5	5.8	6.4	-127.31	530.0	-598.7	800.6	788.9	11.76	68.091		
2,200.0	2,199.8	2,186.4	2,201.3	6.0	6.6	-127.55	530.0	-598.5	803.6	791.5	12.09	66.446		
2,300.0	2,299.5	2,285.5	2,300.5	6.3	6.8	-127.94	530.0	-598.2	808.8	796.4	12.44	65.037		
2,400.0	2,398.7	2,384.7	2,399.7	6.5	7.0	-128.48	530.1	-598.0	816.3	803.5	12.79	63.844		
2,453.6	2,451.7	2,437.8	2,452.8	6.6	7.1	-128.82	530.2	-597.8	821.2	808.3	12.93	63.507		
2,500.0	2,497.5	2,483.8	2,498.7	6.7	7.2	-129.20	530.3	-597.7	825.8	812.7	13.05	63.257		
2,600.0	2,596.3	2,583.2	2,598.2	6.9	7.4	-130.01	530.5	-597.2	835.7	822.3	13.40	62.365		
2,700.0	2,695.0	2,682.3	2,697.2	7.2	7.7	-130.78	530.8	-596.7	845.8	832.0	13.76	61.469		
2,800.0	2,793.8	2,782.2	2,797.1	7.5	7.9	-131.53	531.2	-596.0	855.9	841.8	14.13	60.563		
2,900.0	2,892.5	2,881.5	2,896.5	7.7	8.1	-132.26	531.7	-595.1	866.1	851.6	14.52	59.645		
3,000.0	2,991.3	2,980.3	2,995.2	8.1	8.4	-132.95	532.2	-594.2	876.4	861.4	14.92	58.746		
3,100.0	3,090.0	3,083.0	3,098.0	8.4	8.6	-133.63	533.0	-592.8	886.6	871.3	15.34	57.810		
3,200.0	3,188.8	3,184.3	3,199.2	8.7	8.9	-134.27	533.7	-591.1	896.6	880.8	15.78	56.834		
3,300.0	3,287.5	3,283.6	3,298.5	9.0	9.1	-134.87	534.4	-589.1	906.5	890.3	16.22	55.872		
3,400.0	3,386.3	3,383.9	3,398.8	9.4	9.4	-135.47	535.3	-587.1	916.5	899.8	16.69	54.914		
3,500.0	3,485.0	3,482.2	3,497.0	9.7	9.7	-136.03	536.1	-584.9	926.5	909.3	17.16	53.987		
3,600.0	3,583.8	3,582.1	3,596.9	10.1	9.9	-136.59	536.9	-582.9	936.6	919.0	17.65	53.067		
3,700.0	3,682.5	3,681.7	3,696.5	10.5	10.2	-137.14	537.6	-580.7	946.8	928.6	18.15	52.157		
3,800.0	3,781.3	3,782.5	3,797.3	10.8	10.5	-137.68	538.3	-578.4	956.9	938.2	18.67	51.250		
3,900.0	3,880.0	3,884.1	3,898.9	11.2	10.7	-138.20	539.2	-575.8	966.8	947.6	19.20	50.351		
4,000.0	3,978.8	3,985.1	3,999.8	11.6	11.0	-138.68	540.3	-572.8	976.6	956.9	19.74	49.474		
4,100.0	4,077.5	4,084.2	4,098.8	12.0	11.3	-139.14	541.4	-569.7	986.4	966.1	20.28	48.631		
4,200.0	4,176.3	4,181.0	4,195.6	12.4	11.6	-139.58	542.5	-566.7	996.4	975.6	20.83	47.838 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 504H - Slot SLO 4
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 504H	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													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	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	3.0	0.0	0.0	46.61	533.5	564.2	776.5					
100.0	100.0	94.5	97.5	0.8	1.0	46.60	533.7	564.2	776.7	774.4	2.28	340.049		
200.0	200.0	191.9	194.9	1.4	2.1	46.56	534.4	564.2	777.1	773.1	4.01	193.655		
300.0	300.0	291.3	294.2	1.9	2.9	46.50	535.4	564.2	777.9	772.6	5.29	146.978		
400.0	400.0	391.3	394.3	2.3	3.6	46.44	536.5	564.2	778.6	772.2	6.40	121.664		
500.0	500.0	492.4	495.4	2.6	4.6	46.39	537.5	564.2	779.3	771.5	7.79	100.092		
600.0	600.0	593.7	596.7	2.9	5.6	46.35	538.2	564.2	779.8	770.6	9.20	84.790		
700.0	700.0	694.5	697.4	3.1	6.4	46.32	538.7	564.2	780.1	769.8	10.33	75.543		
800.0	800.0	794.1	797.0	3.4	6.7	46.28	539.4	564.1	780.5	769.7	10.79	72.340		
900.0	900.0	892.8	895.8	3.6	7.0	46.23	540.2	563.9	780.9	769.6	11.34	68.893		
1,000.0	1,000.0	991.4	994.3	3.8	7.4	46.22	540.8	564.3	781.6	769.7	11.90	65.674		
1,100.0	1,100.0	1,091.1	1,094.0	4.0	7.7	46.23	541.2	564.9	782.3	769.9	12.45	62.822		
1,200.0	1,200.0	1,191.0	1,194.0	4.2	8.0	46.23	541.7	565.5	783.1	770.1	13.01	60.201		
1,300.0	1,300.0	1,294.1	1,297.1	4.4	8.3	46.23	542.1	565.9	783.7	770.2	13.50	58.029		
1,400.0	1,400.0	1,397.0	1,400.0	4.6	8.6	46.23	542.2	566.0	783.8	769.8	13.99	56.031		
1,500.0	1,500.0	1,496.6	1,499.6	4.7	8.9	46.23	542.3	566.0	783.9	769.4	14.44	54.298		
1,600.0	1,600.0	1,596.3	1,599.2	4.9	9.2	46.22	542.4	566.0	783.9	769.1	14.88	52.689		
1,700.0	1,700.0	1,695.9	1,698.9	5.1	9.5	46.20	542.7	565.9	784.1	768.7	15.31	51.204		
1,800.0	1,800.0	1,795.9	1,798.8	5.2	9.7	46.16	543.2	565.6	784.2	768.5	15.74	49.834		
1,900.0	1,900.0	1,896.5	1,899.5	5.4	10.0	46.12	543.6	565.4	784.3	768.2	16.14	48.581		
2,000.0	2,000.0	1,996.8	1,999.7	5.6	10.3	46.10	543.9	565.2	784.4	767.8	16.55	47.406		
2,100.0	2,100.0	2,096.6	2,099.5	5.8	10.5	-32.74	544.1	565.0	782.9	766.0	16.98	46.118		
2,200.0	2,199.8	2,195.5	2,198.5	6.0	10.8	-33.00	544.2	565.0	778.6	761.3	17.38	44.808		
2,300.0	2,299.5	2,293.6	2,296.6	6.3	11.0	-33.42	544.4	565.3	771.6	753.8	17.76	43.442		
2,400.0	2,398.7	2,387.3	2,390.3	6.5	11.1	-33.98	544.6	565.9	762.1	744.1	18.09	42.135		
2,453.6	2,451.7	2,437.1	2,440.0	6.6	11.2	-34.35	544.9	566.6	756.2	738.0	18.24	41.457		
2,500.0	2,497.5	2,480.0	2,483.0	6.7	11.3	-34.62	545.3	567.3	751.0	732.6	18.42	40.766		
2,600.0	2,596.3	2,572.8	2,575.7	6.9	11.5	-35.20	546.3	569.4	740.4	721.5	18.87	39.232		
2,700.0	2,695.0	2,672.1	2,675.0	7.2	11.7	-35.83	547.7	572.2	730.4	711.2	19.27	37.912		
2,800.0	2,793.8	2,780.4	2,783.2	7.5	11.8	-36.60	549.2	574.1	719.8	700.2	19.62	36.687		
2,900.0	2,892.5	2,877.8	2,880.6	7.7	12.0	-37.41	550.6	574.4	708.6	688.6	19.96	35.500		
3,000.0	2,991.3	2,978.5	2,981.3	8.1	12.1	-38.29	552.5	574.8	697.7	677.4	20.31	34.350		
3,100.0	3,090.0	3,086.4	3,089.2	8.4	12.3	-39.23	553.7	574.8	686.2	665.5	20.66	33.210		
3,200.0	3,188.8	3,179.0	3,181.8	8.7	12.4	-39.98	553.9	575.7	674.7	653.7	21.00	32.132		
3,300.0	3,287.5	3,266.7	3,269.5	9.0	12.5	-40.63	554.5	577.8	664.7	643.3	21.35	31.128		
3,400.0	3,386.3	3,364.9	3,367.6	9.4	12.6	-41.38	555.6	580.8	655.5	633.8	21.74	30.151		
3,500.0	3,485.0	3,478.0	3,480.6	9.7	12.8	-42.38	556.8	582.4	645.3	623.2	22.15	29.130		
3,600.0	3,583.8	3,579.5	3,582.2	10.1	12.9	-43.34	557.0	582.9	634.1	611.6	22.50	28.189		
3,700.0	3,682.5	3,679.3	3,682.0	10.5	13.0	-44.31	557.0	583.2	622.9	600.1	22.83	27.279		
3,800.0	3,781.3	3,780.6	3,783.3	10.8	13.2	-45.33	556.7	583.5	611.5	588.3	23.22	26.342		
3,900.0	3,880.0	3,877.3	3,880.0	11.2	13.4	-46.32	556.1	583.7	600.1	576.5	23.62	25.406		
4,000.0	3,978.8	3,968.5	3,971.2	11.6	13.6	-47.21	555.9	585.1	589.9	565.8	24.06	24.514		
4,100.0	4,077.5	4,063.4	4,066.1	12.0	13.8	-48.10	556.3	587.7	581.0	556.5	24.47	23.741		
4,200.0	4,176.3	4,167.3	4,169.9	12.4	13.9	-49.22	557.3	589.5	572.2	547.4	24.81	23.060		
4,300.0	4,275.0	4,270.4	4,273.0	12.8	14.1	-50.48	557.8	589.8	562.5	537.4	25.12	22.394		
4,400.0	4,373.8	4,365.9	4,368.5	13.2	14.2	-51.59	557.7	590.9	553.0	527.6	25.40	21.775		
4,500.0	4,472.5	4,460.3	4,462.8	13.6	14.3	-52.45	557.3	594.6	544.7	519.0	25.68	21.208		
4,600.0	4,571.3	4,559.5	4,561.9	14.0	14.4	-53.36	557.3	599.0	537.0	511.0	25.97	20.676		
4,700.0	4,670.0	4,665.6	4,668.0	14.4	14.5	-54.52	557.3	602.1	528.8	502.6	26.22	20.170		
4,800.0	4,768.8	4,763.9	4,766.2	14.8	14.7	-55.68	556.6	604.2	520.0	493.5	26.45	19.662		
4,900.0	4,867.5	4,858.7	4,861.0	15.2	14.8	-57.01	557.1	605.0	512.0	485.3	26.68	19.189		

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 504H - Slot SLO 4
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 504H	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													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		No-Go		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor		
5,000.0	4,966.3	4,957.0	4,959.3	15.6	15.0	-58.44	558.3	605.9	504.9	478.0	26.93	18.751		
5,100.0	5,065.0	5,058.2	5,060.5	16.0	15.2	-60.00	559.2	606.3	497.8	470.7	27.16	18.326		
5,132.0	5,096.6	5,089.8	5,092.2	16.2	15.2	-60.50	559.5	606.4	495.6	468.3	27.23	18.199		
5,200.0	5,163.8	5,157.3	5,159.6	16.4	15.4	-61.53	560.1	606.4	491.1	463.7	27.39	17.931		
5,300.0	5,262.9	5,256.8	5,259.2	16.8	15.6	-62.93	561.0	606.3	485.5	457.8	27.69	17.535		
5,400.0	5,362.1	5,356.5	5,358.9	17.2	15.8	-64.20	561.7	606.2	480.8	452.9	27.98	17.184		
5,500.0	5,461.6	5,456.1	5,458.4	17.6	16.0	-65.32	562.5	606.0	477.1	448.9	28.28	16.874		
5,600.0	5,561.2	5,556.1	5,558.5	18.0	16.2	-66.28	563.2	605.8	474.3	445.7	28.57	16.602		
5,700.0	5,661.0	5,656.8	5,659.1	18.4	16.4	-67.06	563.8	605.5	472.1	443.2	28.85	16.361		
5,800.0	5,760.9	5,757.2	5,759.5	18.7	16.6	-67.66	564.1	605.3	470.5	441.3	29.14	16.146		
5,900.0	5,860.8	5,857.4	5,859.7	19.0	16.8	-68.06	564.5	605.0	469.5	440.1	29.42	15.957		
5,993.2	5,954.0	5,950.3	5,952.6	19.2	16.9	-68.28	564.8	604.6	469.1	439.4	29.69	15.802		
6,000.0	5,960.8	5,957.1	5,959.4	19.2	16.9	-68.29	564.8	604.6	469.1	439.4	29.71	15.791		
6,039.2	6,000.0	5,996.0	5,998.3	19.3	17.0	10.41	565.0	604.4	469.2	439.4	29.80	15.743		
6,100.0	6,060.8	6,056.3	6,058.6	19.3	17.1	10.36	565.3	604.0	469.5	439.5	29.95	15.675		
6,200.0	6,160.8	6,156.3	6,158.6	19.4	17.2	10.26	565.9	603.3	470.0	439.8	30.21	15.559		
6,300.0	6,260.8	6,256.7	6,259.0	19.4	17.4	10.14	566.5	602.4	470.4	439.9	30.46	15.444		
6,400.0	6,360.8	6,356.6	6,358.9	19.4	17.5	10.00	567.1	601.3	470.8	440.1	30.70	15.336		
6,500.0	6,460.8	6,456.4	6,458.7	19.5	17.7	9.86	567.7	600.3	471.2	440.3	30.94	15.232		
6,600.0	6,560.8	6,556.5	6,558.7	19.5	17.8	9.72	568.4	599.3	471.7	440.5	31.18	15.129		
6,700.0	6,660.8	6,656.5	6,658.8	19.6	18.0	9.58	569.0	598.2	472.1	440.7	31.42	15.027		
6,800.0	6,760.8	6,756.2	6,758.5	19.6	18.1	9.44	569.6	597.2	472.6	440.9	31.66	14.925		
6,900.0	6,860.8	6,855.8	6,858.1	19.7	18.3	9.31	570.3	596.2	473.1	441.2	31.91	14.825		
7,000.0	6,960.8	6,955.1	6,957.4	19.7	18.5	9.18	571.1	595.2	473.8	441.6	32.18	14.723		
7,100.0	7,060.8	7,054.6	7,056.8	19.8	18.6	9.05	572.1	594.3	474.5	442.1	32.44	14.627		
7,200.0	7,160.8	7,154.8	7,157.0	19.8	18.8	8.92	573.1	593.3	475.4	442.7	32.72	14.530		
7,300.0	7,260.8	7,255.3	7,257.5	19.9	19.0	8.78	574.0	592.3	476.1	443.2	32.98	14.437		
7,400.0	7,360.8	7,356.7	7,359.0	19.9	19.2	8.64	574.7	591.3	476.7	443.5	33.22	14.348		
7,500.0	7,460.8	7,458.0	7,460.2	20.0	19.3	8.51	575.1	590.2	476.9	443.5	33.44	14.261		
7,600.0	7,560.8	7,558.9	7,561.1	20.0	19.4	8.39	575.3	589.2	477.0	443.3	33.63	14.182		
7,700.0	7,660.8	7,660.2	7,662.4	20.1	19.5	8.26	575.3	588.1	476.8	443.0	33.79	14.111		
7,800.0	7,760.8	7,761.8	7,763.9	20.1	19.6	8.15	574.9	587.1	476.3	442.4	33.92	14.043		
7,900.0	7,860.8	7,862.2	7,864.4	20.2	19.6	8.06	574.3	586.3	475.5	441.5	34.02	13.977		
8,000.0	7,960.8	7,962.0	7,964.2	20.2	19.7	7.98	573.7	585.5	474.8	440.7	34.12	13.916		
8,100.0	8,060.8	8,062.8	8,064.9	20.3	19.7	7.90	573.0	584.8	474.1	439.8	34.21	13.858		
8,200.0	8,160.8	8,163.8	8,166.0	20.4	19.7	7.84	572.1	584.2	473.1	438.8	34.29	13.795		
8,300.0	8,260.8	8,264.7	8,266.9	20.4	19.8	7.77	571.0	583.4	471.9	437.5	34.37	13.730		
8,400.0	8,360.8	8,365.7	8,367.8	20.5	19.8	7.68	569.7	582.5	470.5	436.0	34.45	13.659		
8,500.0	8,460.8	8,464.4	8,466.5	20.5	19.8	7.59	568.5	581.6	469.1	434.6	34.54	13.584		
8,600.0	8,560.8	8,563.2	8,565.3	20.6	19.8	7.53	567.5	580.9	468.1	433.4	34.62	13.519		
8,700.0	8,660.8	8,663.4	8,665.6	20.6	19.9	7.49	566.5	580.5	467.1	432.4	34.71	13.455		
8,800.0	8,760.8	8,764.2	8,766.4	20.7	19.9	7.51	565.5	580.5	466.0	431.2	34.79	13.394		
8,900.0	8,860.8	8,867.4	8,869.5	20.7	19.8	7.55	563.8	580.6	464.5	429.7	34.81	13.342		
8,946.1	8,906.9	8,904.8	8,906.9	20.7	19.9	7.57	563.4	580.7	463.9	429.1	34.87	13.306 CC, ES		
9,000.0	8,960.8	8,944.0	8,946.1	20.8	19.9	7.60	563.9	581.0	464.7	429.8	34.94	13.300 SF		
9,100.0	9,060.8	8,991.1	8,993.0	20.8	20.0	7.62	567.8	581.8	473.4	438.2	35.16	13.463		
9,200.0	9,160.8	9,038.0	9,038.8	20.9	20.1	7.62	577.4	583.0	493.5	458.1	35.35	13.961		
9,300.0	9,260.8	9,069.0	9,068.3	20.9	20.2	7.60	586.9	584.1	524.4	488.9	35.44	14.795		
9,400.0	9,360.8	9,116.3	9,111.8	21.0	20.3	7.53	605.5	586.0	564.3	528.7	35.60	15.853		
9,500.0	9,460.8	9,164.0	9,153.5	21.0	20.4	7.43	628.5	588.1	612.2	576.4	35.77	17.115		

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 504H - Slot SLOT 4
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 504H	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											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)	Depth (usft)	Measured Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,600.0	9,560.8	9,195.0	9,179.3	21.1	20.5	7.36	645.6	589.7	666.6	630.7	35.90	18.570	
9,700.0	9,660.8	9,227.0	9,204.8	21.2	20.6	7.25	664.8	591.1	726.8	690.7	36.06	20.157	
9,800.0	9,760.8	9,258.0	9,228.4	21.2	20.6	7.12	684.9	592.2	791.7	755.5	36.24	21.846	
9,900.0	9,860.8	9,289.0	9,251.0	21.3	20.7	6.97	706.1	593.3	860.5	824.1	36.46	23.605	
10,000.0	9,960.8	9,321.0	9,273.1	21.3	20.8	6.81	729.2	594.4	932.7	896.0	36.70	25.412	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 504H - Slot SLO 4
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 504H	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 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)				
0.0	0.0	0.0	6.4	0.0	3.0	90.25	-4.1	935.5	935.6					
100.0	100.0	85.8	92.2	0.8	3.0	90.26	-4.3	935.9	935.9	931.1	4.81	194.666		
200.0	200.0	185.5	191.9	1.4	3.0	90.30	-4.9	936.8	936.9	931.7	5.13	182.576		
300.0	300.0	283.0	289.4	1.9	3.0	90.36	-5.9	937.7	937.8	932.4	5.44	172.391		
400.0	400.0	385.3	391.7	2.3	3.0	90.42	-6.9	938.6	938.7	932.9	5.74	163.605		
500.0	500.0	485.7	492.1	2.6	3.0	90.47	-7.7	939.4	939.4	933.4	6.03	155.922		
600.0	600.0	585.4	591.8	2.9	3.1	90.50	-8.2	940.3	940.4	934.1	6.31	149.110		
700.0	700.0	683.1	689.5	3.1	3.1	90.53	-8.8	941.2	941.3	934.7	6.58	143.028		
800.0	800.0	782.4	788.8	3.4	3.1	90.57	-9.3	942.2	942.3	935.5	6.85	137.540		
900.0	900.0	883.1	889.5	3.6	3.2	90.63	-10.3	943.4	943.5	936.4	7.11	132.622		
1,000.0	1,000.0	985.4	991.7	3.8	3.2	90.69	-11.4	944.6	944.7	937.3	7.37	128.147		
1,100.0	1,100.0	1,086.1	1,092.4	4.0	3.3	90.77	-12.7	945.4	945.6	937.9	7.62	124.064		
1,200.0	1,200.0	1,187.1	1,193.4	4.2	3.3	90.84	-13.8	946.1	946.3	938.4	7.87	120.306		
1,300.0	1,300.0	1,286.3	1,292.6	4.4	3.4	90.92	-15.3	946.9	947.0	938.9	8.10	116.872		
1,400.0	1,400.0	1,384.8	1,391.1	4.6	3.4	91.01	-16.7	947.6	947.8	939.4	8.34	113.684		
1,500.0	1,500.0	1,512.1	1,518.3	4.7	3.5	90.97	-16.0	946.6	946.9	938.4	8.55	110.809		
1,600.0	1,600.0	1,614.8	1,621.0	4.9	3.4	90.85	-14.0	944.6	944.9	936.2	8.74	108.083		
1,700.0	1,700.0	1,713.2	1,719.4	5.1	3.4	90.73	-12.0	942.4	942.7	933.7	8.94	105.457		
1,800.0	1,800.0	1,813.9	1,820.1	5.2	3.4	90.62	-10.1	940.3	940.5	931.4	9.13	102.962		
1,900.0	1,900.0	1,913.2	1,919.3	5.4	3.4	90.50	-8.2	938.1	938.3	929.0	9.33	100.566		
2,000.0	2,000.0	2,012.2	2,018.2	5.6	3.4	90.39	-6.3	936.2	936.4	926.9	9.53	98.293		
2,100.0	2,100.0	2,112.5	2,118.5	5.8	3.4	11.57	-4.4	934.3	932.7	922.9	9.81	95.046		
2,200.0	2,199.8	2,211.0	2,217.0	6.0	3.4	11.54	-2.4	932.3	925.7	915.6	10.10	91.620		
2,300.0	2,299.5	2,309.7	2,315.6	6.3	3.4	11.57	-0.6	930.6	915.4	905.0	10.42	87.889		
2,400.0	2,398.7	2,408.6	2,414.5	6.5	3.4	11.66	1.3	928.8	901.6	890.8	10.75	83.851		
2,453.6	2,451.7	2,467.4	2,473.3	6.6	3.5	11.74	2.4	927.6	892.7	881.9	10.87	82.153		
2,500.0	2,497.5	2,518.5	2,524.3	6.7	3.5	11.79	3.3	926.2	884.3	873.3	10.96	80.671		
2,600.0	2,596.3	2,615.9	2,621.7	6.9	3.5	11.91	4.8	923.3	865.9	854.6	11.27	76.865		
2,700.0	2,695.0	2,707.2	2,713.0	7.2	3.5	12.01	6.2	921.0	848.0	836.4	11.60	73.121		
2,800.0	2,793.8	2,802.5	2,808.2	7.5	3.6	12.11	8.0	919.2	830.7	818.7	11.95	69.492		
2,900.0	2,892.5	2,897.0	2,902.7	7.7	3.6	12.20	9.8	917.7	813.7	801.3	12.33	65.979		
3,000.0	2,991.3	2,993.0	2,998.6	8.1	3.6	12.31	11.6	916.7	797.2	784.5	12.73	62.622		
3,100.0	3,090.0	3,096.3	3,101.9	8.4	3.7	12.41	13.7	915.4	780.5	767.4	13.14	59.382		
3,200.0	3,188.8	3,185.5	3,191.1	8.7	3.7	12.49	15.7	914.5	764.0	750.4	13.58	56.262		
3,300.0	3,287.5	3,275.6	3,281.2	9.0	3.8	12.55	18.0	914.9	749.1	735.0	14.03	53.398		
3,400.0	3,386.3	3,378.5	3,384.0	9.4	3.8	12.71	19.4	915.5	734.2	719.7	14.48	50.706		
3,500.0	3,485.0	3,478.8	3,484.4	9.7	3.9	13.00	19.3	915.7	719.0	704.1	14.94	48.129		
3,600.0	3,583.8	3,611.0	3,616.4	10.1	3.9	13.44	18.9	911.7	700.4	685.0	15.37	45.578		
3,700.0	3,682.5	3,710.6	3,716.0	10.5	4.0	13.83	18.1	907.2	680.7	664.8	15.84	42.964		
3,800.0	3,781.3	3,808.1	3,813.3	10.8	4.0	14.28	16.9	902.3	660.4	644.1	16.33	40.447		
3,900.0	3,880.0	3,897.2	3,902.4	11.2	4.1	14.70	16.0	898.3	640.8	624.0	16.84	38.053		
4,000.0	3,978.8	3,985.7	3,990.8	11.6	4.1	15.07	15.7	896.0	623.1	605.7	17.36	35.885		
4,100.0	4,077.5	4,082.8	4,087.9	12.0	4.2	15.42	16.1	894.4	606.1	588.3	17.88	33.908		
4,200.0	4,176.3	4,180.6	4,185.7	12.4	4.3	15.78	16.6	892.7	589.2	570.8	18.39	32.036		
4,300.0	4,275.0	4,279.4	4,284.5	12.8	4.3	16.12	17.7	891.0	572.3	553.4	18.91	30.267		
4,400.0	4,373.8	4,375.0	4,380.1	13.2	4.4	16.45	18.8	889.5	555.5	536.1	19.44	28.577		
4,500.0	4,472.5	4,464.5	4,469.6	13.6	4.5	16.79	19.7	889.3	540.1	520.1	19.98	27.030		
4,600.0	4,571.3	4,560.9	4,565.9	14.0	4.5	17.21	20.1	890.3	526.0	505.5	20.49	25.666		
4,700.0	4,670.0	4,656.5	4,661.5	14.4	4.5	17.66	20.6	891.6	512.2	491.2	21.01	24.380		
4,800.0	4,768.8	4,748.3	4,753.3	14.8	4.6	18.23	19.7	894.0	499.8	478.3	21.53	23.218		
4,900.0	4,867.5	4,854.7	4,859.7	15.2	4.6	19.04	17.7	897.2	488.1	466.1	21.99	22.198		

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 504H - Slot SLOT 4
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 504H	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 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)				
5,000.0	4,966.3	4,964.6	4,969.5	15.6	4.7	19.76	17.6	896.7	472.7	450.3	22.45	21.057		
5,100.0	5,065.0	5,064.3	5,069.3	16.0	4.7	20.43	17.7	896.0	457.1	434.2	22.94	19.922		
5,132.0	5,096.6	5,095.2	5,100.1	16.2	4.7	20.65	17.7	895.7	452.1	429.0	23.09	19.577		
5,200.0	5,163.8	5,164.1	5,169.0	16.4	4.8	21.09	17.9	895.0	441.8	418.4	23.40	18.878		
5,300.0	5,262.9	5,262.8	5,267.7	16.8	4.9	21.70	18.0	894.1	428.0	404.1	23.88	17.919		
5,400.0	5,362.1	5,362.8	5,367.7	17.2	5.0	22.28	18.2	892.9	415.7	391.4	24.35	17.073		
5,500.0	5,461.6	5,462.0	5,466.9	17.6	5.0	22.79	18.4	891.7	404.9	380.1	24.80	16.325		
5,600.0	5,561.2	5,565.7	5,570.6	18.0	5.1	23.27	18.6	889.9	395.4	370.2	25.21	15.680		
5,700.0	5,661.0	5,680.8	5,685.5	18.4	5.2	23.68	19.9	884.1	383.9	358.4	25.52	15.047		
5,800.0	5,760.9	5,780.7	5,785.2	18.7	5.3	23.92	21.5	877.8	372.8	346.9	25.92	14.383		
5,900.0	5,860.8	5,880.2	5,884.5	19.0	5.4	24.08	23.0	871.5	363.3	337.0	26.30	13.811		
6,000.0	5,960.8	5,980.8	5,984.8	19.2	5.5	24.11	24.7	865.2	355.4	328.7	26.64	13.341		
6,039.2	6,000.0	6,018.0	6,022.0	19.3	5.5	102.83	25.3	862.9	352.7	326.0	26.72	13.199		
6,100.0	6,060.8	6,079.3	6,083.1	19.3	5.6	102.81	26.3	859.1	348.9	322.1	26.77	13.032		
6,200.0	6,160.8	6,178.0	6,181.7	19.4	5.7	102.78	27.8	853.1	342.6	315.7	26.89	12.742		
6,300.0	6,260.8	6,278.2	6,281.7	19.4	5.8	102.76	29.3	847.1	336.4	309.4	27.00	12.461		
6,400.0	6,360.8	6,377.0	6,380.3	19.4	5.9	102.72	30.8	841.3	330.3	303.2	27.12	12.178		
6,500.0	6,460.8	6,476.8	6,479.9	19.5	6.0	102.72	32.1	835.5	324.4	297.1	27.24	11.910		
6,600.0	6,560.8	6,575.7	6,578.7	19.5	6.1	102.74	33.3	829.9	318.6	291.3	27.35	11.649		
6,700.0	6,660.8	6,675.0	6,677.8	19.6	6.2	102.73	34.6	824.6	313.1	285.6	27.48	11.395		
6,800.0	6,760.8	6,775.1	6,777.7	19.6	6.3	102.74	35.7	819.2	307.6	280.0	27.59	11.148		
6,900.0	6,860.8	6,874.5	6,877.0	19.7	6.4	102.77	36.8	813.8	302.1	274.4	27.70	10.905		
7,000.0	6,960.8	6,973.8	6,976.2	19.7	6.5	102.81	37.7	808.7	296.8	269.0	27.82	10.668		
7,100.0	7,060.8	7,073.3	7,075.5	19.8	6.6	102.89	38.4	803.6	291.7	263.8	27.94	10.441		
7,200.0	7,160.8	7,172.7	7,174.9	19.8	6.7	102.99	39.1	798.9	286.9	258.9	28.05	10.229		
7,300.0	7,260.8	7,271.5	7,273.6	19.9	6.8	103.10	39.6	794.2	282.2	254.0	28.17	10.018		
7,400.0	7,360.8	7,370.3	7,372.2	19.9	6.9	103.31	39.6	789.8	277.9	249.6	28.28	9.826		
7,500.0	7,460.8	7,471.9	7,473.7	20.0	7.0	103.53	39.5	785.4	273.6	245.3	28.36	9.649		
7,600.0	7,560.8	7,574.1	7,575.7	20.0	7.1	103.80	39.6	779.8	268.3	239.9	28.43	9.437		
7,700.0	7,660.8	7,673.8	7,675.3	20.1	7.2	104.10	39.5	774.0	262.7	234.2	28.52	9.211		
7,800.0	7,760.8	7,772.3	7,773.7	20.1	7.3	104.43	39.3	768.8	257.6	229.0	28.62	9.001		
7,900.0	7,860.8	7,870.5	7,871.7	20.2	7.4	104.83	38.8	764.0	253.0	224.3	28.72	8.809		
8,000.0	7,960.8	7,968.8	7,969.9	20.2	7.5	105.19	38.2	760.0	249.2	220.4	28.82	8.647		
8,100.0	8,060.8	8,068.3	8,069.3	20.3	7.6	105.66	37.2	756.0	245.7	216.8	28.90	8.502		
8,200.0	8,160.8	8,167.1	8,168.1	20.4	7.7	106.18	35.9	752.4	242.5	213.5	28.97	8.371		
8,300.0	8,260.8	8,266.2	8,267.1	20.4	7.8	106.70	34.6	749.2	239.8	210.7	29.04	8.257		
8,400.0	8,360.8	8,365.9	8,366.8	20.5	7.9	107.21	33.4	746.0	237.0	207.9	29.10	8.145		
8,500.0	8,460.8	8,465.6	8,466.4	20.5	8.0	107.70	32.2	743.0	234.5	205.4	29.17	8.039		
8,600.0	8,560.8	8,565.7	8,566.5	20.6	8.1	108.26	30.8	739.9	232.1	202.8	29.23	7.940		
8,700.0	8,660.8	8,665.7	8,666.5	20.6	8.2	108.83	29.3	736.9	229.7	200.4	29.28	7.844		
8,800.0	8,760.8	8,767.6	8,768.2	20.7	8.3	109.32	28.5	733.6	226.9	197.5	29.33	7.734		
8,900.0	8,860.8	8,873.4	8,873.9	20.7	8.5	109.63	29.0	728.5	222.1	192.7	29.38	7.560		
9,000.0	8,960.8	8,976.6	8,976.8	20.8	8.6	109.73	31.1	721.5	215.1	185.6	29.48	7.295		
9,100.0	9,060.8	9,076.0	9,076.0	20.8	8.7	109.84	33.2	714.5	207.7	178.1	29.61	7.013		
9,200.0	9,160.8	9,174.0	9,173.8	20.9	8.8	110.00	35.0	707.8	200.7	170.9	29.75	6.746		
9,300.0	9,260.8	9,272.3	9,271.9	20.9	8.9	110.21	36.3	701.9	194.6	164.7	29.88	6.512		
9,400.0	9,360.8	9,371.3	9,370.7	21.0	9.0	110.47	37.3	696.8	189.3	159.3	29.99	6.312		
9,500.0	9,460.8	9,470.6	9,469.9	21.0	9.2	110.44	39.2	692.0	184.2	154.0	30.15	6.108		
9,600.0	9,560.8	9,568.8	9,568.0	21.1	9.3	110.29	41.2	688.0	179.7	149.4	30.33	5.924		
9,700.0	9,660.8	9,668.1	9,667.3	21.2	9.4	110.07	43.1	684.8	176.0	145.5	30.51	5.769		

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 504H - Slot SLO 4
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 504H	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:		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		
9,800.0	9,760.8	9,767.4	9,766.5	21.2	9.5	109.86	44.9	681.7	172.4	141.7	30.69	5.619		
9,900.0	9,860.8	9,866.7	9,865.7	21.3	9.6	109.73	46.3	679.0	169.4	138.5	30.86	5.489		
10,000.0	9,960.8	9,966.1	9,965.1	21.3	9.7	109.70	47.3	676.4	166.6	135.5	31.02	5.370		
10,100.0	10,060.8	10,064.4	10,063.3	21.4	9.8	110.04	47.1	674.1	164.5	133.3	31.13	5.283		
10,200.0	10,160.8	10,163.4	10,162.4	21.4	9.9	110.75	45.6	672.4	163.4	132.2	31.18	5.241		
10,300.0	10,260.8	10,264.7	10,263.6	21.5	10.0	111.56	43.8	670.5	162.3	131.1	31.19	5.202		
10,381.7	10,342.5	10,349.8	10,348.6	21.5	10.1	111.92	43.8	667.9	160.0	128.7	31.22	5.123		
10,400.0	10,360.8	10,368.2	10,367.0	21.5	10.1	-67.85	44.0	667.2	159.1	127.9	31.26	5.091		
10,425.0	10,385.8	10,393.3	10,392.1	21.5	10.2	-68.57	44.4	666.3	157.5	126.2	31.37	5.022		
10,450.0	10,410.6	10,418.0	10,416.8	21.5	10.2	-69.79	44.7	665.4	155.5	123.9	31.54	4.929		
10,475.0	10,435.2	10,442.4	10,441.2	21.5	10.2	-71.53	45.1	664.5	153.1	121.3	31.77	4.818		
10,500.0	10,459.6	10,466.8	10,465.5	21.4	10.3	-73.81	45.4	663.6	150.4	118.4	32.04	4.695		
10,525.0	10,483.7	10,491.0	10,489.8	21.4	10.3	-76.65	45.8	662.7	147.6	115.2	32.34	4.563		
10,550.0	10,507.4	10,514.8	10,513.5	21.4	10.3	-80.03	46.3	661.8	144.8	112.1	32.65	4.433		
10,575.0	10,530.6	10,538.0	10,536.7	21.4	10.3	-83.85	46.8	660.8	142.2	109.3	32.96	4.315		
10,600.0	10,553.3	10,560.6	10,559.2	21.4	10.4	-88.05	47.2	659.9	140.2	107.0	33.21	4.223		
10,625.0	10,575.4	10,582.5	10,581.2	21.3	10.4	-92.54	47.7	659.0	139.1	105.8	33.37	4.169		
10,635.8	10,584.8	10,591.7	10,590.3	21.3	10.4	-94.51	47.9	658.6	139.0	105.6	33.40	4.162 CC, ES, SF		
10,650.0	10,596.9	10,603.6	10,602.2	21.3	10.4	-97.15	48.2	658.1	139.2	105.8	33.39	4.170		
10,675.0	10,617.7	10,624.2	10,622.8	21.3	10.4	-101.83	48.8	657.2	140.9	107.6	33.23	4.240		
10,700.0	10,637.8	10,643.9	10,642.5	21.3	10.5	-106.34	49.4	656.3	144.3	111.4	32.87	4.391		
10,725.0	10,657.0	10,662.7	10,661.3	21.3	10.5	-110.54	50.0	655.5	149.7	117.4	32.33	4.631		
10,750.0	10,675.4	10,680.6	10,679.1	21.3	10.5	-114.32	50.5	654.6	157.3	125.6	31.67	4.966		
10,775.0	10,692.8	10,697.2	10,695.7	21.3	10.5	-117.58	51.2	653.8	166.9	136.0	30.92	5.397		
10,800.0	10,709.3	10,713.0	10,711.5	21.3	10.5	-120.39	51.8	653.0	178.6	148.4	30.16	5.921		
10,825.0	10,724.8	10,727.8	10,726.2	21.3	10.6	-122.64	52.4	652.1	192.1	162.7	29.43	6.528		
10,850.0	10,739.3	10,741.2	10,739.6	21.3	10.6	-124.28	53.0	651.3	207.4	178.6	28.76	7.210		
10,875.0	10,752.6	10,753.5	10,751.8	21.3	10.6	-125.34	53.6	650.6	224.1	196.0	28.17	7.956		
10,900.0	10,764.8	10,764.7	10,763.0	21.3	10.6	-125.79	54.1	650.0	242.3	214.6	27.67	8.756		
10,925.0	10,775.9	10,774.7	10,772.9	21.3	10.6	-125.60	54.6	649.4	261.6	234.3	27.25	9.600		
10,950.0	10,785.8	10,783.1	10,781.3	21.3	10.6	-124.61	55.0	648.9	281.9	255.0	26.90	10.479		
10,975.0	10,794.5	10,790.3	10,788.5	21.3	10.6	-122.80	55.3	648.5	303.1	276.5	26.62	11.388		
11,000.0	10,801.9	10,796.3	10,794.5	21.3	10.6	-120.06	55.6	648.2	325.1	298.7	26.39	12.319		
11,025.0	10,808.1	10,801.1	10,799.3	21.4	10.6	-116.22	55.8	647.9	347.6	321.4	26.20	13.269		
11,050.0	10,813.0	10,804.8	10,803.0	21.4	10.6	-111.11	56.0	647.7	370.6	344.6	26.04	14.233		
11,075.0	10,816.6	10,807.2	10,805.3	21.4	10.6	-104.47	56.1	647.6	394.0	368.1	25.91	15.206		
11,100.0	10,818.9	10,808.2	10,806.4	21.5	10.7	-96.21	56.1	647.5	417.7	391.9	25.81	16.185		
11,125.0	10,819.9	10,808.0	10,806.2	21.5	10.7	-86.50	56.1	647.5	441.6	415.8	25.72	17.165		
11,131.7	10,820.0	10,807.8	10,805.9	21.5	10.6	-83.72	56.1	647.5	448.0	422.3	25.71	17.427		
11,200.0	10,820.0	10,804.5	10,802.7	21.6	10.6	-82.29	56.0	647.7	513.8	488.2	25.55	20.107		
11,300.0	10,820.0	10,800.0	10,798.2	21.9	10.6	-80.35	55.8	648.0	611.1	585.7	25.42	24.036		
11,400.0	10,820.0	10,795.3	10,793.5	22.1	10.6	-78.32	55.5	648.2	709.1	683.7	25.36	27.957		
11,500.0	10,820.0	10,790.9	10,789.1	22.4	10.6	-76.48	55.3	648.5	807.6	782.2	25.34	31.871		
11,600.0	10,820.0	10,786.5	10,784.8	22.8	10.6	-74.70	55.1	648.7	906.4	881.0	25.34	35.772		

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 504H - Slot SLO 4
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 504H	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 #803H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 11631-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	6.9	0.0	3.0	90.23	-3.9	965.5	965.6					
100.0	100.0	80.6	87.5	0.8	3.0	90.25	-4.2	966.0	966.1	961.3	4.81	200.954		
200.0	200.0	177.8	184.7	1.4	3.0	90.28	-4.8	967.6	967.7	962.6	5.13	188.599		
300.0	300.0	277.1	284.0	1.9	3.0	90.33	-5.6	969.2	969.3	963.9	5.44	178.123		
400.0	400.0	380.3	387.2	2.3	3.0	90.38	-6.4	970.7	970.8	965.1	5.74	169.044		
500.0	500.0	485.8	492.7	2.6	3.1	90.40	-6.9	971.9	972.0	965.9	6.04	161.005		
600.0	600.0	586.3	593.1	2.9	3.1	90.42	-7.2	972.6	972.7	966.3	6.32	153.844		
700.0	700.0	685.7	692.5	3.1	3.1	90.44	-7.4	973.3	973.4	966.8	6.60	147.448		
800.0	800.0	789.3	796.1	3.4	3.1	90.47	-8.0	973.9	974.0	967.1	6.87	141.747		
900.0	900.0	889.3	896.1	3.6	3.2	90.53	-8.9	974.3	974.3	967.2	7.12	136.748		
1,000.0	1,000.0	987.0	993.8	3.8	3.2	90.58	-9.8	974.8	974.9	967.5	7.38	132.152		
1,100.0	1,100.0	1,081.7	1,088.5	4.0	3.3	90.63	-10.7	975.6	975.7	968.1	7.63	127.933		
1,200.0	1,200.0	1,176.9	1,183.7	4.2	3.3	90.68	-11.5	976.9	977.1	969.2	7.88	124.050		
1,300.0	1,300.0	1,276.7	1,283.4	4.4	3.4	90.71	-12.2	978.6	978.8	970.7	8.13	120.418		
1,400.0	1,400.0	1,379.6	1,386.4	4.6	3.4	90.74	-12.6	980.2	980.3	972.0	8.38	116.985		
1,500.0	1,500.0	1,478.6	1,485.3	4.7	3.5	90.75	-12.9	981.5	981.7	973.0	8.63	113.773		
1,600.0	1,600.0	1,579.5	1,586.2	4.9	3.6	90.75	-12.9	982.9	983.0	974.2	8.88	110.751		
1,700.0	1,700.0	1,678.7	1,685.4	5.1	3.6	90.75	-12.8	984.3	984.5	975.4	9.12	107.936		
1,800.0	1,800.0	1,780.1	1,786.8	5.2	3.7	90.73	-12.6	985.7	985.9	976.5	9.37	105.270		
1,900.0	1,900.0	1,878.9	1,885.6	5.4	3.8	90.71	-12.2	987.1	987.3	977.7	9.61	102.786		
2,000.0	2,000.0	1,975.1	1,981.8	5.6	3.8	90.69	-11.9	988.7	988.9	979.1	9.84	100.471		
2,100.0	2,100.0	2,077.1	2,083.8	5.8	3.9	11.96	-11.7	990.4	988.9	978.8	10.17	97.231		
2,200.0	2,199.8	2,175.0	2,181.7	6.0	4.0	12.00	-11.1	992.1	985.5	975.0	10.50	93.901		
2,300.0	2,299.5	2,266.4	2,273.0	6.3	4.0	11.91	-7.6	994.4	979.5	968.6	10.82	90.536		
2,400.0	2,398.7	2,365.2	2,371.7	6.5	4.1	11.83	-3.1	997.2	970.2	959.1	11.17	86.872		
2,453.6	2,451.7	2,417.5	2,423.9	6.6	4.1	11.81	-0.7	998.7	964.0	952.7	11.29	85.369		
2,500.0	2,497.5	2,462.2	2,468.5	6.7	4.1	11.77	1.3	1,000.0	958.1	946.8	11.39	84.089		
2,600.0	2,596.3	2,560.4	2,566.6	6.9	4.2	11.70	5.7	1,003.1	945.8	934.1	11.72	80.728		
2,700.0	2,695.0	2,657.2	2,663.2	7.2	4.2	11.60	10.4	1,006.2	933.5	921.5	12.06	77.399		
2,800.0	2,793.8	2,755.1	2,760.9	7.5	4.3	11.50	15.1	1,009.7	921.5	909.1	12.43	74.127		
2,900.0	2,892.5	2,854.1	2,859.7	7.7	4.3	11.38	20.0	1,013.2	909.6	896.8	12.82	70.928		
3,000.0	2,991.3	2,951.8	2,957.2	8.1	4.4	11.26	24.9	1,016.8	897.8	884.5	13.24	67.827		
3,100.0	3,090.0	3,046.7	3,052.0	8.4	4.5	11.16	29.4	1,020.5	886.2	872.5	13.67	64.846		
3,200.0	3,188.8	3,142.3	3,147.3	8.7	4.6	11.06	33.8	1,024.9	875.3	861.2	14.12	62.008		
3,300.0	3,287.5	3,236.0	3,240.9	9.0	4.6	11.01	37.5	1,029.5	864.7	850.1	14.58	59.301		
3,400.0	3,386.3	3,334.2	3,338.9	9.4	4.7	10.96	41.2	1,034.9	854.7	839.7	15.06	56.741		
3,500.0	3,485.0	3,432.5	3,436.9	9.7	4.8	10.91	44.9	1,040.4	844.8	829.3	15.56	54.300		
3,600.0	3,583.8	3,532.5	3,536.7	10.1	4.9	10.88	48.4	1,046.0	835.0	818.9	16.06	51.978		
3,700.0	3,682.5	3,668.8	3,672.8	10.5	5.0	10.86	52.8	1,051.4	823.6	807.1	16.56	49.722		
3,800.0	3,781.3	3,770.6	3,774.6	10.8	5.1	10.91	55.1	1,052.4	809.1	792.0	17.06	47.420		
3,900.0	3,880.0	3,867.1	3,871.0	11.2	5.2	10.96	57.3	1,053.2	794.5	776.9	17.57	45.217		
4,000.0	3,978.8	3,958.2	3,962.1	11.6	5.3	11.01	59.4	1,054.8	780.7	762.6	18.10	43.135		
4,100.0	4,077.5	4,059.0	4,062.9	12.0	5.4	11.07	61.6	1,056.9	767.4	748.7	18.63	41.186		
4,200.0	4,176.3	4,161.9	4,165.7	12.4	5.5	11.12	64.1	1,058.6	753.4	734.3	19.16	39.322		
4,300.0	4,275.0	4,268.0	4,271.8	12.8	5.5	11.17	66.7	1,059.6	739.0	719.3	19.68	37.547		
4,400.0	4,373.8	4,366.4	4,370.1	13.2	5.6	11.22	69.1	1,060.0	723.9	703.7	20.21	35.818		
4,500.0	4,472.5	4,453.0	4,456.7	13.6	5.7	11.29	70.9	1,061.2	709.7	689.0	20.78	34.160		
4,600.0	4,571.3	4,547.5	4,551.2	14.0	5.8	11.40	72.4	1,063.7	696.9	675.6	21.34	32.652		
4,700.0	4,670.0	4,643.0	4,646.7	14.4	5.9	11.55	73.6	1,066.6	684.4	662.5	21.92	31.231		
4,800.0	4,768.8	4,733.3	4,736.9	14.8	6.0	11.86	72.8	1,070.3	673.1	650.6	22.49	29.928		
4,900.0	4,867.5	4,829.5	4,832.9	15.2	6.1	12.36	70.2	1,075.1	662.7	639.6	23.05	28.754		

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 504H - Slot SLOT 4
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 504H	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 #803H - OWB - AWP													Offset Site Error: 3.0 usft	
Survey Program: Reference		100-Standard Keeper 104, 11631-MWD+IFR1+FDIR						Rule Assigned:					Offset Well Error: 3.0 usft	
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)	Distance Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
5,000.0	4,966.3	4,944.5	4,947.8	15.6	6.2	12.80	69.0	1,079.6	651.1	627.5	23.58	27.614		
5,100.0	5,065.0	5,046.8	5,050.0	16.0	6.3	13.13	68.9	1,082.2	638.3	614.2	24.14	26.444		
5,132.0	5,096.6	5,079.9	5,083.1	16.2	6.3	13.23	68.9	1,083.0	634.1	609.8	24.30	26.092		
5,200.0	5,163.8	5,147.5	5,150.7	16.4	6.4	13.40	69.2	1,084.4	625.4	600.8	24.67	25.352		
5,300.0	5,262.9	5,246.2	5,249.4	16.8	6.5	13.60	69.9	1,086.5	614.2	589.0	25.23	24.345		
5,400.0	5,362.1	5,346.8	5,350.0	17.2	6.6	13.72	71.1	1,088.7	604.6	578.9	25.77	23.462		
5,500.0	5,461.6	5,447.2	5,450.4	17.6	6.7	13.76	72.8	1,090.7	596.6	570.3	26.30	22.683		
5,600.0	5,561.2	5,548.1	5,551.2	18.0	6.9	13.77	74.5	1,092.5	590.0	563.2	26.81	22.006		
5,700.0	5,661.0	5,648.2	5,651.3	18.4	7.0	13.75	76.2	1,094.2	585.0	557.7	27.31	21.425		
5,800.0	5,760.9	5,748.0	5,751.0	18.7	7.1	13.68	77.9	1,095.9	581.8	554.0	27.78	20.945		
5,900.0	5,860.8	5,849.0	5,852.0	19.0	7.2	13.58	79.6	1,097.8	580.3	552.1	28.21	20.570		
5,932.0	5,892.8	5,879.2	5,882.2	19.1	7.2	13.53	80.2	1,098.3	580.2	551.9	28.34	20.473		
6,000.0	5,960.8	5,949.5	5,952.5	19.2	7.3	13.41	81.6	1,099.5	580.5	551.9	28.59	20.302		
6,039.2	6,000.0	5,990.3	5,993.3	19.3	7.3	92.08	82.4	1,100.0	580.8	552.2	28.66	20.265		
6,100.0	6,060.8	6,052.9	6,055.9	19.3	7.4	91.96	83.6	1,100.7	581.5	552.7	28.71	20.252		
6,200.0	6,160.8	6,155.3	6,158.2	19.4	7.5	91.74	85.8	1,101.4	582.1	553.2	28.81	20.202		
6,300.0	6,260.8	6,255.3	6,258.2	19.4	7.6	91.53	88.0	1,102.0	582.5	553.6	28.92	20.142		
6,400.0	6,360.8	6,357.1	6,360.0	19.4	7.7	91.32	90.0	1,102.3	582.8	553.8	29.02	20.083		
6,500.0	6,460.8	6,458.4	6,461.3	19.5	7.7	91.12	92.0	1,102.3	582.8	553.7	29.12	20.017		
6,600.0	6,560.8	6,559.1	6,561.9	19.5	7.8	90.93	94.0	1,102.2	582.6	553.4	29.21	19.946		
6,700.0	6,660.8	6,658.5	6,661.3	19.6	7.9	90.75	95.8	1,102.0	582.5	553.2	29.31	19.873		
6,800.0	6,760.8	6,760.1	6,762.9	19.6	8.0	90.58	97.6	1,101.9	582.3	552.9	29.40	19.807		
6,900.0	6,860.8	6,860.9	6,863.7	19.7	8.0	90.40	99.4	1,101.5	581.9	552.4	29.49	19.732		
7,000.0	6,960.8	6,961.8	6,964.6	19.7	8.1	90.22	101.3	1,100.9	581.3	551.8	29.58	19.655		
7,100.0	7,060.8	7,061.1	7,063.9	19.8	8.1	90.03	103.2	1,100.3	580.7	551.0	29.67	19.571		
7,200.0	7,160.8	7,162.4	7,165.2	19.8	8.2	89.86	104.9	1,099.7	580.0	550.3	29.75	19.495		
7,300.0	7,260.8	7,264.9	7,267.6	19.9	8.2	89.70	106.5	1,098.7	579.1	549.3	29.83	19.416		
7,400.0	7,360.8	7,368.3	7,371.0	19.9	8.3	89.55	108.0	1,097.1	577.6	547.7	29.89	19.326		
7,500.0	7,460.8	7,468.1	7,470.8	20.0	8.3	89.42	109.3	1,095.4	575.8	545.9	29.96	19.220		
7,600.0	7,560.8	7,569.7	7,572.3	20.0	8.3	89.29	110.6	1,093.5	574.1	544.0	30.03	19.119		
7,700.0	7,660.8	7,670.1	7,672.7	20.1	8.3	89.19	111.6	1,091.3	571.9	541.8	30.09	19.004		
7,800.0	7,760.8	7,768.7	7,771.3	20.1	8.3	89.13	112.1	1,089.4	569.9	539.7	30.16	18.893		
7,900.0	7,860.8	7,864.4	7,867.0	20.2	8.3	89.14	112.0	1,087.8	568.3	538.1	30.24	18.791		
8,000.0	7,960.8	7,961.9	7,964.5	20.2	8.3	89.24	111.0	1,087.1	567.6	537.3	30.32	18.718		
8,100.0	8,060.8	8,060.9	8,063.5	20.3	8.3	89.34	110.0	1,086.7	567.1	536.7	30.40	18.654		
8,200.0	8,160.8	8,161.8	8,164.3	20.4	8.2	89.45	108.9	1,086.1	566.5	536.1	30.47	18.594		
8,300.0	8,260.8	8,260.4	8,263.0	20.4	8.2	89.58	107.6	1,085.7	566.0	535.5	30.55	18.529		
8,400.0	8,360.8	8,360.4	8,363.0	20.5	8.2	89.70	106.4	1,085.4	565.7	535.1	30.63	18.471		
8,500.0	8,460.8	8,459.9	8,462.4	20.5	8.2	89.83	105.1	1,085.0	565.4	534.7	30.71	18.411		
8,600.0	8,560.8	8,559.5	8,562.1	20.6	8.2	89.99	103.6	1,084.8	565.1	534.3	30.79	18.354		
8,700.0	8,660.8	8,659.2	8,661.7	20.6	8.2	90.15	102.0	1,084.6	565.0	534.1	30.87	18.298		
8,730.0	8,690.8	8,688.3	8,690.8	20.6	8.2	90.18	101.6	1,084.5	564.9	534.0	30.90	18.280 CC, ES		
8,800.0	8,760.8	8,743.7	8,746.2	20.7	8.3	90.21	101.4	1,085.2	565.8	534.8	31.03	18.235		
8,900.0	8,860.8	8,841.0	8,843.5	20.7	8.4	90.13	102.2	1,088.1	568.7	537.5	31.16	18.248		
9,000.0	8,960.8	8,941.4	8,943.8	20.8	8.5	90.05	102.9	1,091.1	571.7	540.4	31.29	18.269		
9,100.0	9,060.8	9,043.0	9,045.4	20.8	8.6	89.99	103.6	1,094.0	574.6	543.2	31.42	18.288		
9,200.0	9,160.8	9,144.5	9,146.9	20.9	8.7	89.94	104.1	1,096.5	577.1	545.5	31.55	18.294		
9,300.0	9,260.8	9,248.6	9,250.9	20.9	8.9	89.88	104.7	1,098.6	579.1	547.4	31.67	18.288		
9,400.0	9,360.8	9,355.2	9,357.5	21.0	9.0	89.85	105.0	1,099.8	580.2	548.5	31.78	18.259		
9,500.0	9,460.8	9,458.7	9,461.0	21.0	9.1	89.81	105.4	1,100.1	580.5	548.6	31.89	18.205		

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 504H - Slot SLO 4
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 504H	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 #803H - OWB - AWP													Offset Site Error: 3.0 usft	
Survey Program: Reference		100-Standard Keeper 104, 11631-MWD+IFR1+FDIR				Rule Assigned:		Offset Well Error: 3.0 usft						
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	Warning	
9,504.5	9,465.3	9,463.0	9,465.3	21.0	9.1	89.81	105.4	1,100.1	580.5	548.6	31.89	18.202		
9,600.0	9,560.8	9,544.3	9,546.6	21.1	9.2	89.66	106.9	1,101.2	581.8	549.7	32.05	18.152		
9,700.0	9,660.8	9,649.0	9,651.2	21.2	9.3	89.28	110.8	1,103.4	583.9	551.7	32.18	18.146		
9,800.0	9,760.8	9,750.2	9,752.2	21.2	9.4	88.88	114.9	1,105.0	585.6	553.3	32.31	18.122		
9,900.0	9,860.8	9,851.0	9,853.0	21.3	9.5	88.55	118.3	1,106.3	586.9	554.5	32.44	18.090		
10,000.0	9,960.8	9,955.0	9,957.0	21.3	9.6	88.36	120.3	1,107.2	587.8	555.3	32.56	18.054		
10,100.0	10,060.8	10,054.7	10,056.7	21.4	9.7	88.25	121.4	1,107.9	588.5	555.8	32.69	18.005		
10,200.0	10,160.8	10,162.5	10,164.5	21.4	9.8	88.20	122.0	1,108.1	588.8	556.0	32.78	17.960		
10,300.0	10,260.8	10,260.3	10,262.2	21.5	9.9	88.14	122.6	1,107.5	588.1	555.3	32.87	17.892		
10,381.7	10,342.5	10,347.3	10,349.3	21.5	9.9	88.03	123.6	1,106.9	587.7	554.7	32.93	17.847		
10,400.0	10,360.8	10,367.1	10,369.1	21.5	9.9	-91.64	123.9	1,106.7	587.5	554.5	32.93	17.838		
10,425.0	10,385.8	10,393.2	10,395.1	21.5	9.9	-91.89	124.4	1,106.2	587.1	554.2	32.94	17.826		
10,450.0	10,410.6	10,418.3	10,420.3	21.5	9.9	-92.26	124.9	1,105.8	586.8	553.9	32.95	17.810		
10,475.0	10,435.2	10,443.6	10,445.5	21.5	10.0	-92.76	125.4	1,105.4	586.6	553.6	32.96	17.795		
10,500.0	10,459.6	10,467.6	10,469.6	21.4	10.0	-93.33	125.8	1,104.9	586.4	553.4	32.98	17.781		
10,509.3	10,468.6	10,476.3	10,478.2	21.4	10.0	-93.56	126.0	1,104.8	586.4	553.4	32.99	17.776		
10,525.0	10,483.7	10,490.2	10,492.2	21.4	10.0	-93.96	126.2	1,104.5	586.5	553.5	33.00	17.770		
10,550.0	10,507.4	10,509.8	10,511.7	21.4	10.0	-94.57	126.6	1,104.3	586.8	553.7	33.03	17.763 SF		
10,575.0	10,530.6	10,527.4	10,529.4	21.4	10.0	-95.15	127.0	1,104.2	587.6	554.5	33.07	17.768		
10,600.0	10,553.3	10,547.4	10,549.3	21.4	10.0	-95.87	127.6	1,104.2	588.8	555.7	33.09	17.791		
10,625.0	10,575.4	10,568.2	10,570.0	21.3	10.0	-96.66	128.3	1,104.3	590.4	557.3	33.11	17.832		
10,650.0	10,596.9	10,589.6	10,591.4	21.3	10.1	-97.51	128.9	1,104.4	592.5	559.4	33.11	17.894		
10,675.0	10,617.7	10,611.1	10,612.9	21.3	10.1	-98.41	129.6	1,104.4	595.1	562.0	33.11	17.976		
10,700.0	10,637.8	10,632.0	10,633.8	21.3	10.1	-99.29	130.3	1,104.4	598.2	565.1	33.08	18.081		
10,725.0	10,657.0	10,651.8	10,653.7	21.3	10.1	-100.10	131.0	1,104.4	601.8	568.8	33.05	18.211		
10,750.0	10,675.4	10,670.2	10,672.0	21.3	10.1	-100.81	131.5	1,104.4	606.2	573.2	33.00	18.367		
10,775.0	10,692.8	10,687.2	10,689.0	21.3	10.2	-101.38	132.1	1,104.3	611.2	578.3	32.94	18.554		
10,800.0	10,709.3	10,703.1	10,704.9	21.3	10.2	-101.83	132.5	1,104.3	617.0	584.2	32.87	18.772		
10,825.0	10,724.8	10,718.4	10,720.2	21.3	10.2	-102.17	133.0	1,104.2	623.7	590.9	32.78	19.026		
10,850.0	10,739.3	10,732.6	10,734.4	21.3	10.2	-102.35	133.4	1,104.2	631.2	598.5	32.68	19.314		
10,875.0	10,752.6	10,745.7	10,747.5	21.3	10.2	-102.36	133.7	1,104.2	639.5	607.0	32.57	19.637		
10,900.0	10,764.8	10,757.9	10,759.7	21.3	10.2	-102.21	134.0	1,104.1	648.8	616.3	32.44	19.997		
10,925.0	10,775.9	10,769.1	10,770.9	21.3	10.2	-101.86	134.3	1,104.1	658.9	626.6	32.31	20.392		
10,950.0	10,785.8	10,778.9	10,780.7	21.3	10.2	-101.29	134.5	1,104.0	669.8	637.7	32.17	20.821		
10,975.0	10,794.5	10,787.4	10,789.2	21.3	10.2	-100.47	134.7	1,104.0	681.7	649.6	32.03	21.283		
11,000.0	10,801.9	10,794.6	10,796.4	21.3	10.3	-99.39	134.9	1,104.0	694.3	662.4	31.88	21.775		
11,025.0	10,808.1	10,800.6	10,802.3	21.4	10.3	-98.06	135.0	1,103.9	707.7	676.0	31.74	22.297		
11,050.0	10,813.0	10,804.9	10,806.7	21.4	10.3	-96.43	135.1	1,103.9	721.9	690.3	31.60	22.844		
11,075.0	10,816.6	10,808.0	10,809.8	21.4	10.3	-94.53	135.2	1,103.9	736.7	705.2	31.46	23.415		
11,100.0	10,818.9	10,809.8	10,811.6	21.5	10.3	-92.36	135.2	1,103.9	752.1	720.8	31.33	24.008		
11,125.0	10,819.9	10,810.3	10,812.1	21.5	10.3	-89.92	135.2	1,103.9	768.1	736.9	31.20	24.618		
11,131.7	10,820.0	10,810.2	10,812.0	21.5	10.3	-89.22	135.2	1,103.9	772.4	741.3	31.17	24.784		
11,200.0	10,820.0	10,808.8	10,810.6	21.6	10.3	-89.08	135.2	1,103.9	818.7	787.9	30.85	26.542		
11,300.0	10,820.0	10,806.7	10,808.5	21.9	10.3	-88.87	135.2	1,103.9	891.6	861.2	30.43	29.298		
11,400.0	10,820.0	10,804.5	10,806.3	22.1	10.3	-88.66	135.1	1,103.9	969.3	939.2	30.08	32.225		

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 504H - Slot SLOT 4
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 504H	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: Reference		100-Standard Keeper 104, 11863-MWD+IFR1+FDIR						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +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	4.0	0.0	3.0	-91.65	-13.4	-466.6	466.8					
100.0	100.0	94.3	98.3	0.8	3.0	-91.69	-13.8	-466.7	466.9	462.1	4.81	97.124		
200.0	200.0	194.0	197.9	1.4	3.0	-91.78	-14.5	-467.2	467.4	462.3	5.13	91.113		
300.0	300.0	294.6	298.6	1.9	3.0	-91.87	-15.3	-467.4	467.7	462.2	5.44	86.028		
400.0	400.0	397.0	401.0	2.3	3.0	-91.94	-15.9	-467.4	467.7	461.9	5.73	81.653		
486.8	486.8	482.8	486.8	2.5	3.0	-91.99	-16.3	-467.3	467.6	461.6	5.97	78.340		
500.0	500.0	495.1	499.1	2.6	3.0	-92.00	-16.3	-467.3	467.6	461.6	6.01	77.843		
595.2	595.2	591.2	595.2	2.8	3.1	-92.07	-16.9	-467.2	467.5	461.3	6.26	74.640		
600.0	600.0	595.7	599.7	2.9	3.1	-92.07	-16.9	-467.2	467.5	461.2	6.28	74.481		
700.0	700.0	696.0	700.0	3.1	3.1	-92.13	-17.4	-467.2	467.5	461.0	6.54	71.495		
731.2	731.2	727.2	731.2	3.2	3.1	-92.15	-17.5	-467.2	467.5	460.9	6.62	70.646		
800.0	800.0	794.7	798.6	3.4	3.1	-92.19	-17.9	-467.2	467.6	460.8	6.79	68.824 ES		
900.0	900.0	893.5	897.5	3.6	3.2	-92.33	-19.0	-467.7	468.1	461.0	7.04	66.452		
1,000.0	1,000.0	991.8	995.7	3.8	3.2	-92.49	-20.3	-468.4	468.8	461.5	7.29	64.324		
1,100.0	1,100.0	1,092.3	1,096.3	4.0	3.3	-92.67	-21.9	-469.2	469.7	462.2	7.53	62.385		
1,200.0	1,200.0	1,191.8	1,195.8	4.2	3.3	-92.86	-23.4	-470.0	470.6	462.8	7.77	60.594		
1,300.0	1,300.0	1,294.1	1,298.0	4.4	3.4	-93.03	-24.9	-470.7	471.4	463.4	8.00	58.923		
1,400.0	1,400.0	1,394.0	1,397.9	4.6	3.4	-93.17	-26.0	-471.0	471.7	463.5	8.23	57.337		
1,500.0	1,500.0	1,493.9	1,497.8	4.7	3.5	-93.29	-27.1	-471.4	472.2	463.8	8.45	55.864		
1,600.0	1,600.0	1,594.1	1,598.0	4.9	3.6	-93.43	-28.3	-471.8	472.6	463.9	8.68	54.481		
1,700.0	1,700.0	1,693.4	1,697.3	5.1	3.6	-93.55	-29.3	-472.2	473.1	464.2	8.89	53.188		
1,800.0	1,800.0	1,794.2	1,798.1	5.2	3.7	-93.68	-30.4	-472.5	473.5	464.4	9.11	51.965		
1,900.0	1,900.0	1,894.0	1,897.8	5.4	3.8	-93.81	-31.5	-472.9	473.9	464.6	9.33	50.814		
2,000.0	2,000.0	2,009.5	2,013.3	5.6	3.9	-93.96	-32.7	-472.6	473.9	464.3	9.54	49.698		
2,100.0	2,100.0	2,115.4	2,119.2	5.8	3.9	-172.80	-33.0	-468.5	471.8	462.0	9.82	48.054		
2,120.0	2,120.0	2,135.8	2,139.6	5.8	3.9	-172.82	-33.0	-467.7	471.7	461.8	9.87	47.769		
2,200.0	2,199.8	2,216.3	2,220.0	6.0	3.9	-172.91	-32.9	-464.3	472.8	462.7	10.11	46.783		
2,300.0	2,299.5	2,316.5	2,320.1	6.3	3.9	-173.04	-32.7	-460.0	477.1	466.7	10.42	45.791		
2,400.0	2,398.7	2,418.2	2,421.7	6.5	4.0	-173.19	-32.3	-455.4	484.8	474.0	10.76	45.044		
2,453.6	2,451.7	2,471.7	2,475.2	6.6	4.0	-173.28	-32.0	-452.8	490.1	479.2	10.88	45.054		
2,500.0	2,497.5	2,518.6	2,522.0	6.7	4.0	-173.36	-31.7	-450.6	495.1	484.2	10.98	45.111		
2,600.0	2,596.3	2,618.6	2,621.9	6.9	4.0	-173.48	-30.5	-445.6	505.8	494.5	11.29	44.803		
2,700.0	2,695.0	2,719.6	2,722.7	7.2	4.0	-173.54	-28.8	-440.6	516.5	504.8	11.63	44.398		
2,800.0	2,793.8	2,819.4	2,822.4	7.5	4.0	-173.57	-26.9	-435.4	526.8	514.8	12.00	43.893		
2,900.0	2,892.5	2,918.9	2,921.7	7.7	4.1	-173.60	-24.9	-430.1	537.0	524.6	12.39	43.328		
3,000.0	2,991.3	3,016.2	3,018.9	8.1	4.1	-173.73	-24.0	-425.2	547.6	534.8	12.81	42.752		
3,100.0	3,090.0	3,120.7	3,123.2	8.4	4.2	-173.89	-23.3	-419.6	557.9	544.7	13.24	42.125		
3,200.0	3,188.8	3,220.5	3,222.9	8.7	4.2	-174.10	-23.1	-413.4	567.5	553.8	13.70	41.431		
3,300.0	3,287.5	3,319.0	3,321.1	9.0	4.3	-174.41	-24.1	-407.5	577.4	563.2	14.17	40.758		
3,400.0	3,386.3	3,416.7	3,418.7	9.4	4.3	-174.71	-25.1	-401.7	587.3	572.7	14.65	40.097		
3,500.0	3,485.0	3,514.7	3,516.5	9.7	4.4	-174.96	-25.7	-396.4	597.7	582.6	15.14	39.475		
3,600.0	3,583.8	3,614.2	3,615.8	10.1	4.5	-175.19	-26.2	-391.1	608.3	592.6	15.65	38.868		
3,700.0	3,682.5	3,714.1	3,715.6	10.5	4.6	-175.41	-26.6	-385.7	618.7	602.5	16.17	38.269		
3,800.0	3,781.3	3,814.6	3,816.0	10.8	4.6	-175.65	-27.3	-380.2	629.1	612.4	16.70	37.677		
3,900.0	3,880.0	3,915.1	3,916.3	11.2	4.7	-175.88	-27.9	-374.4	639.3	622.0	17.23	37.093		
4,000.0	3,978.8	4,011.6	4,012.7	11.6	4.8	-176.08	-28.4	-368.9	649.4	631.6	17.77	36.537		
4,100.0	4,077.5	4,108.0	4,108.9	12.0	4.9	-176.25	-28.8	-364.1	660.3	642.0	18.32	36.043		
4,200.0	4,176.3	4,205.7	4,206.6	12.4	5.0	-176.42	-29.1	-359.5	671.4	652.6	18.87	35.574		
4,300.0	4,275.0	4,304.6	4,305.3	12.8	5.0	-176.56	-29.2	-355.1	682.8	663.3	19.44	35.129		
4,400.0	4,373.8	4,407.4	4,408.1	13.2	5.1	-176.71	-29.4	-350.2	693.9	673.9	20.01	34.676		
4,500.0	4,472.5	4,512.7	4,513.1	13.6	5.2	-176.93	-30.3	-344.3	704.3	683.7	20.60	34.195		

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 504H - Slot SLO 4
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 504H	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:											
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)				
4,600.0	4,571.3	4,609.7	4,609.9	14.0	5.3	-177.16	-31.6	-338.7	714.5	693.4	21.17	33.753		
4,700.0	4,670.0	4,711.6	4,711.7	14.4	5.4	-177.42	-33.2	-332.7	724.7	703.0	21.76	33.311		
4,800.0	4,768.8	4,817.9	4,817.7	14.8	5.5	-177.71	-35.1	-325.8	734.4	712.0	22.36	32.851		
4,900.0	4,867.5	4,916.1	4,915.7	15.2	5.6	-177.98	-36.8	-318.8	743.5	720.6	22.94	32.407		
5,000.0	4,966.3	5,010.0	5,009.4	15.6	5.7	-178.00	-35.7	-313.2	753.2	729.7	23.52	32.017		
5,100.0	5,065.0	5,103.7	5,103.0	16.0	5.8	-177.89	-33.0	-308.6	763.7	739.6	24.11	31.680		
5,132.0	5,096.6	5,133.8	5,133.0	16.2	5.8	-177.85	-32.0	-307.3	767.2	742.9	24.28	31.599		
5,200.0	5,163.8	5,199.0	5,198.1	16.4	5.8	-177.76	-29.9	-304.7	774.5	749.8	24.66	31.408		
5,300.0	5,262.9	5,300.3	5,299.3	16.8	5.9	-177.60	-26.5	-300.4	783.5	758.3	25.24	31.039		
5,400.0	5,362.1	5,400.7	5,399.5	17.2	6.0	-177.44	-23.1	-296.3	791.0	765.1	25.81	30.642		
5,500.0	5,461.6	5,494.2	5,492.9	17.6	6.0	-177.28	-19.8	-292.7	796.9	770.6	26.35	30.246		
5,600.0	5,561.2	5,591.5	5,590.1	18.0	6.1	-177.10	-16.4	-289.5	801.7	774.8	26.87	29.836		
5,700.0	5,661.0	5,690.4	5,688.9	18.4	6.1	-176.90	-12.6	-286.6	805.0	777.6	27.37	29.407		
5,800.0	5,760.9	5,790.7	5,789.1	18.7	6.2	-176.67	-8.8	-283.6	806.6	778.7	27.85	28.960		
5,900.0	5,860.8	5,891.6	5,889.8	19.0	6.3	-176.44	-4.8	-280.6	806.4	778.1	28.29	28.504		
6,000.0	5,960.8	5,988.3	5,986.4	19.2	6.3	-176.20	-0.9	-277.8	804.5	775.8	28.65	28.079		
6,039.2	6,000.0	6,025.0	6,023.1	19.3	6.3	-97.37	0.4	-276.8	803.4	774.7	28.71	27.982		
6,100.0	6,060.8	6,082.9	6,080.9	19.3	6.4	-97.24	2.5	-275.5	801.8	773.0	28.75	27.890		
6,200.0	6,160.8	6,178.8	6,176.7	19.4	6.4	-97.04	5.5	-273.7	799.5	770.7	28.83	27.734		
6,300.0	6,260.8	6,276.2	6,274.1	19.4	6.5	-96.84	8.5	-272.3	797.7	768.8	28.91	27.589		
6,400.0	6,360.8	6,376.7	6,374.6	19.4	6.5	-96.63	11.6	-270.9	796.0	767.0	29.01	27.438		
6,500.0	6,460.8	6,475.7	6,473.4	19.5	6.6	-96.43	14.6	-269.6	794.4	765.3	29.10	27.298		
6,600.0	6,560.8	6,573.8	6,571.5	19.5	6.7	-96.22	17.5	-268.5	792.9	763.7	29.19	27.165		
6,700.0	6,660.8	6,673.4	6,671.0	19.6	6.7	-96.00	20.7	-267.5	791.6	762.3	29.28	27.037		
6,800.0	6,760.8	6,771.0	6,768.6	19.6	6.8	-95.79	23.7	-266.8	790.5	761.1	29.36	26.924		
6,900.0	6,860.8	6,870.0	6,867.6	19.7	6.8	-95.57	26.8	-266.1	789.5	760.1	29.45	26.813		
7,000.0	6,960.8	6,968.2	6,965.8	19.7	6.9	-95.36	29.8	-265.7	788.8	759.3	29.53	26.714		
7,100.0	7,060.8	7,066.0	7,063.5	19.8	6.9	-95.16	32.5	-265.5	788.3	758.7	29.61	26.624		
7,200.0	7,160.8	7,165.8	7,163.2	19.8	7.0	-94.99	35.0	-265.4	788.0	758.3	29.69	26.537		
7,300.0	7,260.8	7,265.8	7,263.2	19.9	7.0	-94.84	37.0	-265.2	787.6	757.9	29.78	26.446		
7,378.0	7,338.8	7,341.4	7,338.8	19.9	7.1	-94.74	38.4	-265.1	787.5	757.6	29.84	26.385		
7,400.0	7,360.8	7,362.3	7,359.7	19.9	7.1	-94.72	38.7	-265.2	787.5	757.6	29.86	26.372		
7,500.0	7,460.8	7,460.4	7,457.8	20.0	7.1	-94.61	40.1	-265.6	787.8	757.8	29.94	26.315		
7,600.0	7,560.8	7,559.0	7,556.4	20.0	7.1	-94.51	41.5	-266.2	788.3	758.3	30.01	26.269		
7,700.0	7,660.8	7,655.3	7,652.7	20.1	7.2	-94.41	42.8	-267.1	789.1	759.0	30.07	26.241		
7,800.0	7,760.8	7,754.5	7,751.8	20.1	7.2	-94.34	43.7	-268.2	790.1	760.0	30.14	26.217		
7,900.0	7,860.8	7,854.2	7,851.5	20.2	7.2	-94.28	44.4	-269.4	791.3	761.1	30.21	26.195		
8,000.0	7,960.8	7,953.1	7,950.4	20.2	7.2	-94.22	45.1	-270.6	792.5	762.2	30.27	26.177		
8,100.0	8,060.8	8,055.2	8,052.6	20.3	7.2	-94.12	46.5	-271.9	793.6	763.3	30.35	26.145		
8,200.0	8,160.8	8,154.6	8,151.9	20.4	7.2	-94.02	47.8	-273.1	794.7	764.3	30.43	26.119		
8,300.0	8,260.8	8,255.9	8,253.2	20.4	7.3	-93.91	49.1	-274.3	795.8	765.3	30.51	26.087		
8,400.0	8,360.8	8,360.9	8,358.2	20.5	7.3	-93.85	50.0	-275.0	796.5	765.9	30.60	26.029		
8,500.0	8,460.8	8,465.8	8,463.1	20.5	7.4	-93.77	51.1	-275.1	796.5	765.8	30.70	25.941		
8,600.0	8,560.8	8,565.1	8,562.4	20.6	7.5	-93.67	52.5	-275.0	796.2	765.4	30.80	25.855		
8,700.0	8,660.8	8,666.6	8,663.9	20.6	7.5	-93.57	53.9	-274.8	796.0	765.1	30.90	25.764		
8,800.0	8,760.8	8,783.2	8,780.4	20.7	7.6	-93.28	58.0	-272.9	794.1	763.0	31.04	25.584		
8,900.0	8,860.8	8,882.5	8,879.6	20.7	7.7	-92.98	62.3	-270.7	791.6	760.5	31.13	25.430		
9,000.0	8,960.8	8,980.3	8,977.3	20.8	7.8	-92.72	66.1	-268.7	789.4	758.1	31.22	25.284		
9,100.0	9,060.8	9,076.6	9,073.5	20.8	7.9	-92.48	69.3	-267.0	787.4	756.1	31.31	25.152		
9,200.0	9,160.8	9,171.9	9,168.8	20.9	8.0	-92.29	72.0	-265.8	786.1	754.7	31.39	25.040		

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 504H - Slot SLO 4
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 504H	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:											
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)				
9,300.0	9,260.8	9,266.1	9,263.0	20.9	8.1	-92.14	74.1	-265.3	785.5	754.0	31.48	24.955		
9,400.0	9,360.8	9,367.7	9,364.5	21.0	8.2	-92.01	75.9	-265.1	785.3	753.7	31.58	24.869		
9,500.0	9,460.8	9,478.8	9,475.5	21.0	8.3	-91.73	79.8	-264.1	784.2	752.6	31.70	24.743		
9,600.0	9,560.8	9,577.6	9,574.1	21.1	8.4	-91.29	85.8	-262.5	782.4	750.7	31.77	24.624		
9,700.0	9,660.8	9,678.7	9,675.1	21.2	8.5	-90.85	91.9	-260.8	780.7	748.8	31.86	24.505		
9,800.0	9,760.8	9,783.6	9,779.7	21.2	8.6	-90.37	98.4	-258.8	778.6	746.7	31.95	24.370		
9,900.0	9,860.8	9,885.0	9,880.8	21.3	8.7	-89.83	105.8	-256.2	776.1	744.0	32.03	24.229		
10,000.0	9,960.8	9,983.5	9,979.0	21.3	8.8	-89.32	112.7	-253.7	773.6	741.5	32.10	24.098		
10,100.0	10,060.8	10,079.9	10,075.2	21.4	8.9	-88.86	118.8	-251.5	771.4	739.2	32.17	23.978		
10,200.0	10,160.8	10,173.4	10,168.6	21.4	9.0	-88.43	124.5	-250.0	769.9	737.7	32.23	23.886		
10,300.0	10,260.8	10,270.6	10,265.6	21.5	9.1	-88.00	130.3	-249.0	769.1	736.8	32.30	23.811		
10,381.7	10,342.5	10,352.1	10,346.9	21.5	9.1	-87.62	135.3	-248.3	768.6	736.3	32.35	23.759		
10,400.0	10,360.8	10,371.3	10,366.1	21.5	9.2	92.92	136.5	-248.2	768.6	736.2	32.35	23.754		
10,425.0	10,385.8	10,407.3	10,402.0	21.5	9.2	93.29	138.6	-247.6	768.3	735.9	32.37	23.734		
10,450.0	10,410.6	10,433.8	10,428.4	21.5	9.2	93.67	140.0	-246.9	767.9	735.5	32.36	23.729		
10,475.0	10,435.2	10,459.6	10,454.2	21.5	9.3	94.14	141.4	-246.2	767.6	735.2	32.34	23.733		
10,500.0	10,459.6	10,492.7	10,487.2	21.4	9.3	94.85	143.1	-245.1	767.3	734.9	32.34	23.726		
10,525.0	10,483.7	10,524.6	10,519.0	21.4	9.3	95.66	144.7	-243.7	766.8	734.5	32.33	23.717 SF		
10,550.0	10,507.4	10,549.1	10,543.5	21.4	9.4	96.37	145.9	-242.4	766.5	734.2	32.30	23.731		
10,575.0	10,530.6	10,574.6	10,568.9	21.4	9.4	97.18	147.0	-241.1	766.4	734.1	32.26	23.753		
10,577.5	10,532.9	10,577.2	10,571.5	21.4	9.4	97.26	147.1	-240.9	766.4	734.1	32.26	23.755		
10,600.0	10,553.3	10,600.5	10,594.8	21.4	9.4	98.06	148.1	-239.6	766.5	734.2	32.23	23.782		
10,625.0	10,575.4	10,623.0	10,617.2	21.3	9.4	98.85	149.0	-238.2	766.9	734.7	32.18	23.833		
10,650.0	10,596.9	10,642.8	10,637.0	21.3	9.5	99.55	149.7	-237.1	767.7	735.6	32.11	23.908		
10,675.0	10,617.7	10,661.9	10,656.0	21.3	9.5	100.22	150.3	-236.0	769.0	737.0	32.04	24.003		
10,700.0	10,637.8	10,681.0	10,675.1	21.3	9.5	100.88	150.8	-234.9	770.9	738.9	31.96	24.119		
10,725.0	10,657.0	10,700.0	10,694.1	21.3	9.5	101.53	151.4	-233.9	773.3	741.5	31.88	24.256		
10,750.0	10,675.4	10,717.4	10,711.4	21.3	9.6	102.06	151.9	-232.9	776.4	744.6	31.79	24.421		
10,775.0	10,692.8	10,733.9	10,727.9	21.3	9.6	102.51	152.4	-232.0	780.2	748.5	31.70	24.614		
10,800.0	10,709.3	10,750.2	10,744.1	21.3	9.6	102.90	152.9	-231.1	784.6	753.0	31.60	24.833		
10,825.0	10,724.8	10,764.4	10,758.3	21.3	9.6	103.12	153.3	-230.3	789.9	758.4	31.49	25.087		
10,850.0	10,739.3	10,777.7	10,771.6	21.3	9.6	103.21	153.7	-229.6	795.9	764.5	31.37	25.371		
10,875.0	10,752.6	10,790.4	10,784.3	21.3	9.6	103.18	154.0	-229.0	802.7	771.5	31.25	25.688		
10,900.0	10,764.8	10,801.9	10,795.8	21.3	9.6	102.99	154.3	-228.4	810.3	779.2	31.12	26.038		
10,925.0	10,775.9	10,812.2	10,806.1	21.3	9.7	102.62	154.5	-227.9	818.8	787.8	30.99	26.422		
10,950.0	10,785.8	10,821.4	10,815.2	21.3	9.7	102.08	154.7	-227.4	828.1	797.2	30.85	26.840		
10,975.0	10,794.5	10,829.6	10,823.5	21.3	9.7	101.37	154.9	-227.0	838.1	807.4	30.71	27.291		
11,000.0	10,801.9	10,836.9	10,830.7	21.3	9.7	100.47	155.0	-226.7	849.0	818.4	30.57	27.774		
11,025.0	10,808.1	10,842.8	10,836.6	21.4	9.7	99.36	155.2	-226.4	860.6	830.2	30.42	28.290		
11,050.0	10,813.0	10,847.4	10,841.2	21.4	9.7	98.02	155.3	-226.1	872.9	842.6	30.27	28.838		
11,075.0	10,816.6	10,850.7	10,844.5	21.4	9.7	96.46	155.3	-226.0	885.9	855.8	30.11	29.417		
11,100.0	10,818.9	10,852.5	10,846.3	21.5	9.7	94.66	155.4	-225.9	899.5	869.5	29.96	30.026		
11,125.0	10,819.9	10,853.1	10,846.9	21.5	9.7	92.64	155.4	-225.9	913.7	883.9	29.80	30.662		
11,131.7	10,820.0	10,853.0	10,846.8	21.5	9.7	92.06	155.4	-225.9	917.6	887.8	29.76	30.836		
11,200.0	10,820.0	10,851.7	10,845.5	21.6	9.7	91.96	155.3	-225.9	959.0	929.7	29.34	32.689		

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 504H - Slot SLO 4
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 504H	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)				
0.0	0.0	0.0	4.0	0.0	3.0	-91.57	-13.6	-496.6	496.8					
100.0	100.0	86.7	90.7	0.8	3.0	-91.61	-14.0	-497.4	497.7	492.9	4.81	103.516		
200.0	200.0	184.1	188.1	1.4	3.0	-91.70	-14.8	-499.6	499.9	494.8	5.13	97.429		
300.0	300.0	301.1	305.0	1.9	3.0	-91.76	-15.4	-500.7	501.0	495.6	5.44	92.107		
400.0	400.0	402.7	406.6	2.3	3.0	-91.74	-15.1	-499.4	499.6	493.9	5.73	87.259		
500.0	500.0	500.0	503.9	2.6	3.0	-91.73	-15.1	-498.3	498.5	492.5	6.01	83.000		
524.0	524.0	520.1	524.0	2.6	3.0	-91.74	-15.1	-498.2	498.4	492.4	6.07	82.120		
600.0	600.0	588.7	592.6	2.9	3.0	-91.76	-15.4	-498.9	499.1	492.9	6.28	79.544		
700.0	700.0	695.4	699.3	3.1	3.0	-91.81	-15.8	-500.1	500.3	493.8	6.54	76.502		
800.0	800.0	797.9	801.8	3.4	3.0	-91.77	-15.5	-499.8	500.1	493.3	6.79	73.613		
900.0	900.0	896.5	900.4	3.6	3.1	-91.75	-15.3	-499.5	499.8	492.7	7.04	70.972		
990.9	990.9	986.9	990.8	3.8	3.1	-91.80	-15.7	-499.5	499.7	492.5	7.26	68.815		
1,000.0	1,000.0	995.8	999.7	3.8	3.1	-91.81	-15.8	-499.5	499.7	492.5	7.28	68.604		
1,100.0	1,100.0	1,096.5	1,100.5	4.0	3.1	-91.91	-16.6	-499.5	499.7	492.2	7.52	66.437		
1,200.0	1,200.0	1,197.7	1,201.6	4.2	3.1	-92.02	-17.6	-499.2	499.6	491.8	7.76	64.415		
1,300.0	1,300.0	1,297.5	1,301.4	4.4	3.2	-92.14	-18.6	-498.9	499.3	491.3	7.98	62.532		
1,400.0	1,400.0	1,396.7	1,400.6	4.6	3.2	-92.26	-19.7	-498.6	499.0	490.8	8.21	60.787		
1,444.9	1,444.9	1,441.1	1,444.9	4.6	3.2	-92.30	-20.0	-498.6	499.0	490.7	8.31	60.055		
1,500.0	1,500.0	1,494.1	1,498.0	4.7	3.2	-92.33	-20.3	-498.6	499.1	490.6	8.43	59.201 ES		
1,600.0	1,600.0	1,581.7	1,585.6	4.9	3.2	-92.21	-19.3	-500.6	501.1	492.5	8.64	57.989		
1,700.0	1,700.0	1,681.4	1,685.2	5.1	3.3	-91.98	-17.4	-503.5	504.0	495.1	8.86	56.906		
1,800.0	1,800.0	1,781.2	1,784.9	5.2	3.3	-91.76	-15.6	-506.6	507.0	497.9	9.07	55.897		
1,900.0	1,900.0	1,880.9	1,884.5	5.4	3.3	-91.52	-13.5	-509.6	510.0	500.7	9.28	54.939		
2,000.0	2,000.0	1,980.9	1,984.5	5.6	3.3	-91.24	-11.1	-512.7	513.1	503.6	9.50	54.036		
2,100.0	2,100.0	2,080.6	2,084.1	5.8	3.3	-169.70	-8.5	-515.7	517.7	507.9	9.80	52.839		
2,200.0	2,199.8	2,181.4	2,184.8	6.0	3.4	-169.49	-5.9	-518.6	525.7	515.6	10.10	52.029		
2,300.0	2,299.5	2,282.1	2,285.4	6.3	3.4	-169.33	-3.2	-521.4	537.0	526.6	10.43	51.493		
2,400.0	2,398.7	2,382.1	2,385.4	6.5	3.5	-169.22	-0.5	-524.0	551.6	540.8	10.78	51.168		
2,453.6	2,451.7	2,437.1	2,440.4	6.6	3.5	-169.19	0.9	-525.2	560.5	549.6	10.90	51.417		
2,500.0	2,497.5	2,483.9	2,487.1	6.7	3.5	-169.20	2.2	-526.2	568.6	557.6	11.00	51.679		
2,600.0	2,596.3	2,587.0	2,590.2	6.9	3.6	-169.21	5.2	-527.7	585.5	574.2	11.32	51.734		
2,700.0	2,695.0	2,688.0	2,691.1	7.2	3.6	-169.22	8.1	-528.6	601.9	590.2	11.66	51.634		
2,800.0	2,793.8	2,783.4	2,786.5	7.5	3.7	-169.25	10.6	-529.5	618.3	606.3	12.02	51.456		
2,900.0	2,892.5	2,881.8	2,884.9	7.7	3.7	-169.31	12.8	-530.7	635.0	622.6	12.40	51.207		
3,000.0	2,991.3	2,973.6	2,976.6	8.1	3.8	-169.41	14.3	-532.3	652.1	639.3	12.80	50.946		
3,100.0	3,090.0	3,073.0	3,076.0	8.4	3.8	-169.58	15.2	-534.5	669.9	656.7	13.23	50.626		
3,200.0	3,188.8	3,182.8	3,185.8	8.7	3.9	-169.78	15.9	-536.2	686.9	673.2	13.69	50.161		
3,300.0	3,287.5	3,286.3	3,289.3	9.0	4.0	-169.99	16.3	-536.0	702.2	688.1	14.14	49.666		
3,400.0	3,386.3	3,360.7	3,363.7	9.4	4.0	-170.18	15.9	-537.0	719.1	704.6	14.57	49.358		
3,500.0	3,485.0	3,457.5	3,460.4	9.7	4.1	-170.48	14.7	-540.1	737.9	722.8	15.05	49.012		
3,600.0	3,583.8	3,556.1	3,559.0	10.1	4.1	-170.79	13.2	-543.3	756.7	741.2	15.55	48.648		
3,700.0	3,682.5	3,654.3	3,657.1	10.5	4.2	-171.08	11.6	-546.5	775.5	759.5	16.06	48.276		
3,800.0	3,781.3	3,749.0	3,751.7	10.8	4.3	-171.38	9.8	-549.7	794.6	778.0	16.58	47.934		
3,900.0	3,880.0	3,838.3	3,840.9	11.2	4.3	-171.64	8.1	-553.6	814.5	797.4	17.08	47.680		
4,000.0	3,978.8	3,942.9	3,945.4	11.6	4.4	-171.90	6.5	-558.4	834.7	817.1	17.63	47.334		
4,100.0	4,077.5	4,045.8	4,048.2	12.0	4.5	-172.05	6.2	-562.1	853.9	835.7	18.19	46.944		
4,200.0	4,176.3	4,145.1	4,147.5	12.4	4.6	-172.16	6.6	-565.5	872.9	854.1	18.74	46.575		
4,300.0	4,275.0	4,242.1	4,244.5	12.8	4.7	-172.25	7.1	-568.8	891.8	872.5	19.29	46.225		
4,400.0	4,373.8	4,347.3	4,349.6	13.2	4.8	-172.35	7.5	-572.2	910.6	890.7	19.87	45.822		
4,500.0	4,472.5	4,464.2	4,466.4	13.6	4.9	-172.52	7.2	-574.1	927.8	907.4	20.49	45.293		
4,600.0	4,571.3	4,563.8	4,566.0	14.0	4.9	-172.70	6.4	-574.6	944.0	922.9	21.05	44.841		

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 504H - Slot SLO T 4
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 504H	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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		No-Go	Separation	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S	+E/-W	Between Centres	Between Ellipses	Distance	Factor	
							(usft)	(usft)	(usft)	(usft)	(usft)		
4,700.0	4,670.0	4,668.9	4,671.1	14.4	5.0	-172.87	5.6	-574.9	960.0	938.4	21.63	44.375	
4,800.0	4,768.8	4,780.9	4,783.1	14.8	5.0	-173.17	2.8	-573.7	974.8	952.6	22.22	43.871	
4,900.0	4,867.5	4,882.1	4,884.2	15.2	5.0	-173.53	-1.3	-571.6	988.8	966.0	22.79	43.393 SF	

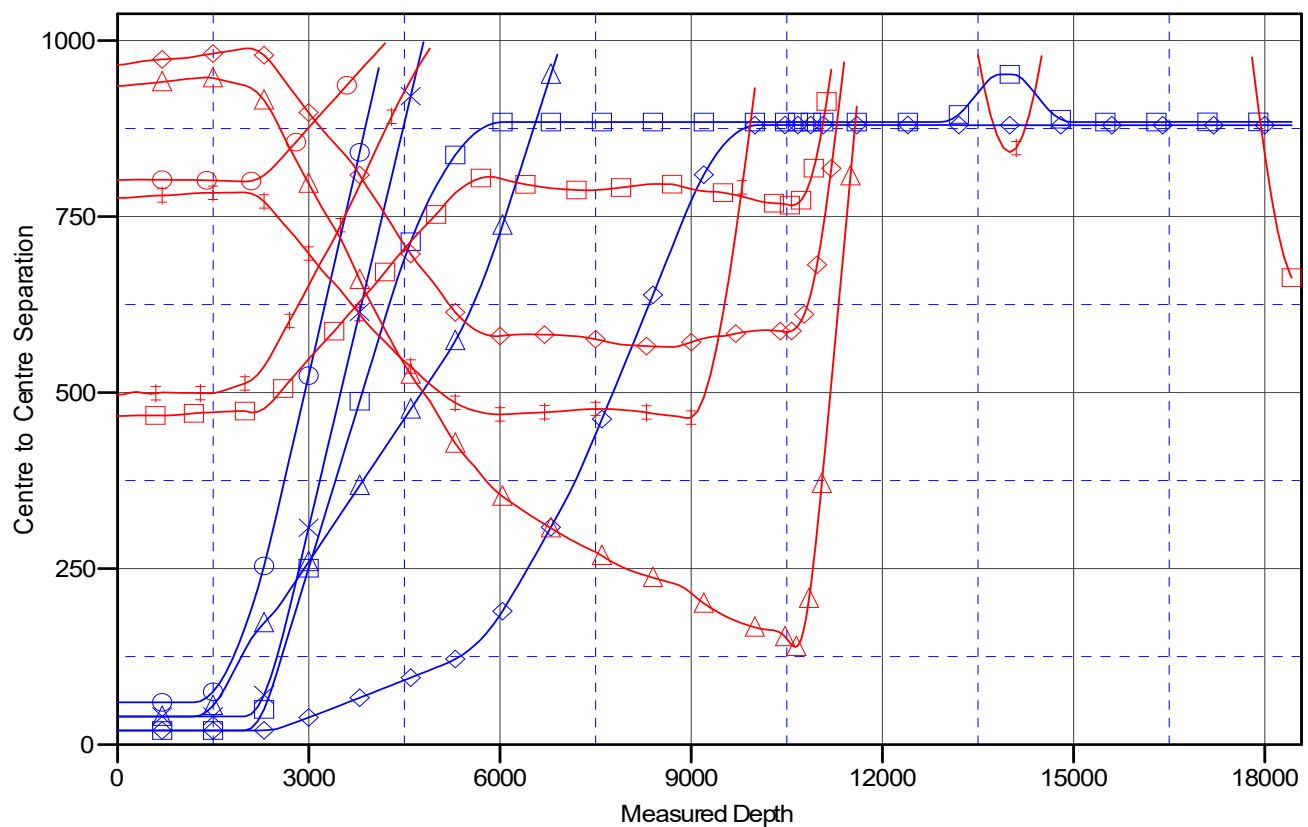
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 504H - Slot SLOT 4
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 504H	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 504H - Slot SLOT 4
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.42°

Ladder Plot**LEGEND**

RED BULL 35 FEDERAL #1H, OWB, AWP V0	_VALOR FEDERAL COM 506H OWB, PWP0 V0	VALOR FED COM #803H, OWB, AWP V0
_VALOR FEDERAL COM 501H OWB, PWP0 V0	CALMBREEZE 2 FEDERAL COM 701H, OWB, AWP V0	VALOR FED COM 706H, OWB, AWP V0
_VALOR FEDERAL COM 503H OWB, PWP0 V0	LOMAS ROJAS 26 STATE COM002H, OWB, AWP V0	VALOR FED COM 707H, OWB, AWP V0
_VALOR FEDERAL COM 503H OWB, PWP0 V0	LOMAS ROJAS 26 STATE COM003H, OWB, AWP V0	
_VALOR FEDERAL COM 505H OWB, PWP0 V0	VALOR FED COM #704H, 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 504H - Slot SLO 4
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 504H	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

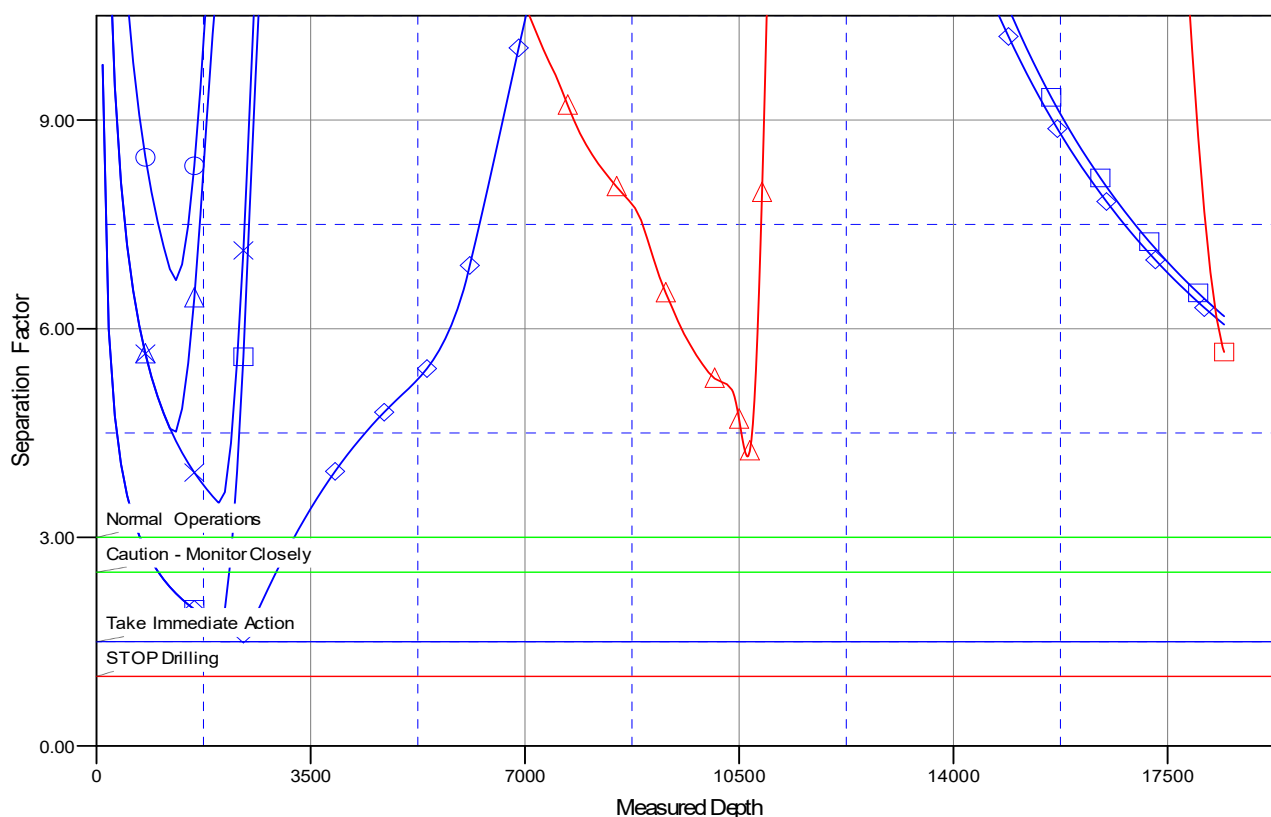
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _VALOR FEDERAL COM 504H - Slot SLO 4

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

Grid Convergence at Surface is: 0.42°

Separation Factor Plot



LEGEND

RED BULL 35 FEDERAL #11H, OWB, AWP V0	_VALOR FEDERAL COM 508H, OWB, PWP0 V0	VALOR FED COM #603H, OWB, AWP V0
_VALOR FEDERAL COM 501H, OWB, PWP0 V0	CALMBREEZE 2 FEDERAL COM 701H, OWB, AWP V0	VALOR FED COM 709H, OWB, AWP V0
_VALOR FEDERAL COM 502H, OWB, PWP0 V0	LOMAS ROJAS 26 STATE COM002H, OWB, AWP V0	VALOR FED COM 707H, OWB, AWP V0
_VALOR FEDERAL COM 503H, OWB, PWP0 V0	LOMAS ROJAS 26 STATE COM003H, OWB, AWP V0	
_VALOR FEDERAL COM 505H, OWB, PWP0 V0	VALOR FED COM #704H, 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 504H - Slot SLOT 4

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 504H - Slot SLOT 4
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 504H	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 504H - Slot SLOT 4					
Well Position	+N/-S	0.0 usft	Northing:	398,665.45 usft	Latitude:	32° 5' 36.900 N
	+E/-W	0.0 usft	Easting:	744,671.18 usft	Longitude:	103° 32' 35.755 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	47,131.45808626

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	175.70

Plan Survey Tool Program	Date	6/11/2025			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	18,424.5 PWP0 (OWB)	r.5 MWD+IFR1		
			OWSG MWD + IFR1 rev.5		

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Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB @ 3360.0usft
Site:	VALOR PROJECT	North Reference:	Grid
Well:	_VALOR FEDERAL COM 504H	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	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,453.6	9.07	78.74	2,451.7	7.0	35.1	2.00	2.00	0.00	78.74	
5,132.0	9.07	78.74	5,096.6	89.5	449.3	0.00	0.00	0.00	0.00	
6,039.2	0.00	0.00	6,000.0	103.5	519.6	1.00	-1.00	0.00	180.00	
10,381.7	0.00	0.00	10,342.5	103.5	519.6	0.00	0.00	0.00	0.00	
11,131.7	90.00	179.58	10,820.0	-374.0	523.1	12.00	12.00	23.94	179.58	
18,424.5	90.00	179.58	10,820.0	-7,666.6	576.7	0.00	0.00	0.00	0.00	

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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 504H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,100.0	2.00	78.74	2,100.0	0.3	1.7	-0.2	2.00	2.00	0.00	
2,200.0	4.00	78.74	2,199.8	1.4	6.8	-0.8	2.00	2.00	0.00	
2,300.0	6.00	78.74	2,299.5	3.1	15.4	-1.9	2.00	2.00	0.00	
2,400.0	8.00	78.74	2,398.7	5.4	27.3	-3.4	2.00	2.00	0.00	
2,453.6	9.07	78.74	2,451.7	7.0	35.1	-4.3	2.00	2.00	0.00	
2,500.0	9.07	78.74	2,497.5	8.4	42.3	-5.2	0.00	0.00	0.00	
2,600.0	9.07	78.74	2,596.3	11.5	57.8	-7.1	0.00	0.00	0.00	
2,700.0	9.07	78.74	2,695.0	14.6	73.2	-9.0	0.00	0.00	0.00	
2,800.0	9.07	78.74	2,793.8	17.7	88.7	-11.0	0.00	0.00	0.00	
2,900.0	9.07	78.74	2,892.5	20.7	104.2	-12.9	0.00	0.00	0.00	
3,000.0	9.07	78.74	2,991.3	23.8	119.6	-14.8	0.00	0.00	0.00	
3,100.0	9.07	78.74	3,090.0	26.9	135.1	-16.7	0.00	0.00	0.00	
3,200.0	9.07	78.74	3,188.8	30.0	150.6	-18.6	0.00	0.00	0.00	
3,300.0	9.07	78.74	3,287.5	33.1	166.0	-20.5	0.00	0.00	0.00	
3,400.0	9.07	78.74	3,386.3	36.1	181.5	-22.4	0.00	0.00	0.00	
3,500.0	9.07	78.74	3,485.0	39.2	197.0	-24.3	0.00	0.00	0.00	
3,600.0	9.07	78.74	3,583.8	42.3	212.4	-26.2	0.00	0.00	0.00	
3,700.0	9.07	78.74	3,682.5	45.4	227.9	-28.2	0.00	0.00	0.00	
3,800.0	9.07	78.74	3,781.3	48.5	243.4	-30.1	0.00	0.00	0.00	
3,900.0	9.07	78.74	3,880.0	51.5	258.8	-32.0	0.00	0.00	0.00	
4,000.0	9.07	78.74	3,978.8	54.6	274.3	-33.9	0.00	0.00	0.00	
4,100.0	9.07	78.74	4,077.5	57.7	289.7	-35.8	0.00	0.00	0.00	
4,200.0	9.07	78.74	4,176.3	60.8	305.2	-37.7	0.00	0.00	0.00	
4,300.0	9.07	78.74	4,275.0	63.8	320.7	-39.6	0.00	0.00	0.00	
4,400.0	9.07	78.74	4,373.8	66.9	336.1	-41.5	0.00	0.00	0.00	
4,500.0	9.07	78.74	4,472.5	70.0	351.6	-43.4	0.00	0.00	0.00	
4,600.0	9.07	78.74	4,571.3	73.1	367.1	-45.3	0.00	0.00	0.00	
4,700.0	9.07	78.74	4,670.0	76.2	382.5	-47.3	0.00	0.00	0.00	
4,800.0	9.07	78.74	4,768.8	79.2	398.0	-49.2	0.00	0.00	0.00	
4,900.0	9.07	78.74	4,867.5	82.3	413.5	-51.1	0.00	0.00	0.00	
5,000.0	9.07	78.74	4,966.3	85.4	428.9	-53.0	0.00	0.00	0.00	
5,100.0	9.07	78.74	5,065.0	88.5	444.4	-54.9	0.00	0.00	0.00	

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Planned Survey										
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5,132.0	9.07	78.74	5,096.6	89.5	449.3	-55.5	0.00	0.00	0.00	
5,200.0	8.39	78.74	5,163.8	91.5	459.5	-56.8	1.00	-1.00	0.00	
5,300.0	7.39	78.74	5,262.9	94.2	472.9	-58.4	1.00	-1.00	0.00	
5,400.0	6.39	78.74	5,362.1	96.5	484.7	-59.9	1.00	-1.00	0.00	
5,500.0	5.39	78.74	5,461.6	98.5	494.8	-61.1	1.00	-1.00	0.00	
5,600.0	4.39	78.74	5,561.2	100.2	503.1	-62.2	1.00	-1.00	0.00	
5,700.0	3.39	78.74	5,661.0	101.5	509.8	-63.0	1.00	-1.00	0.00	
5,800.0	2.39	78.74	5,760.9	102.5	514.7	-63.6	1.00	-1.00	0.00	
5,900.0	1.39	78.74	5,860.8	103.1	518.0	-64.0	1.00	-1.00	0.00	
6,000.0	0.39	78.74	5,960.8	103.4	519.5	-64.2	1.00	-1.00	0.00	
6,039.2	0.00	0.00	6,000.0	103.5	519.6	-64.2	1.00	-1.00	0.00	
6,100.0	0.00	0.00	6,060.8	103.5	519.6	-64.2	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,160.8	103.5	519.6	-64.2	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,260.8	103.5	519.6	-64.2	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,360.8	103.5	519.6	-64.2	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,460.8	103.5	519.6	-64.2	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,560.8	103.5	519.6	-64.2	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,660.8	103.5	519.6	-64.2	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,760.8	103.5	519.6	-64.2	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,860.8	103.5	519.6	-64.2	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,960.8	103.5	519.6	-64.2	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,060.8	103.5	519.6	-64.2	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,160.8	103.5	519.6	-64.2	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,260.8	103.5	519.6	-64.2	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,360.8	103.5	519.6	-64.2	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,460.8	103.5	519.6	-64.2	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,560.8	103.5	519.6	-64.2	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,660.8	103.5	519.6	-64.2	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,760.8	103.5	519.6	-64.2	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,860.8	103.5	519.6	-64.2	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,960.8	103.5	519.6	-64.2	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,060.8	103.5	519.6	-64.2	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,160.8	103.5	519.6	-64.2	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,260.8	103.5	519.6	-64.2	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,360.8	103.5	519.6	-64.2	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,460.8	103.5	519.6	-64.2	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,560.8	103.5	519.6	-64.2	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,660.8	103.5	519.6	-64.2	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,760.8	103.5	519.6	-64.2	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,860.8	103.5	519.6	-64.2	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,960.8	103.5	519.6	-64.2	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,060.8	103.5	519.6	-64.2	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,160.8	103.5	519.6	-64.2	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,260.8	103.5	519.6	-64.2	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,360.8	103.5	519.6	-64.2	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,460.8	103.5	519.6	-64.2	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,560.8	103.5	519.6	-64.2	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,660.8	103.5	519.6	-64.2	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,760.8	103.5	519.6	-64.2	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,860.8	103.5	519.6	-64.2	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,960.8	103.5	519.6	-64.2	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,060.8	103.5	519.6	-64.2	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,160.8	103.5	519.6	-64.2	0.00	0.00	0.00	

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Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB @ 3360.0usft
Site:	VALOR PROJECT	North Reference:	Grid
Well:	_VALOR FEDERAL COM 504H	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)	
10,300.0	0.00	0.00	10,260.8	103.5	519.6	-64.2	0.00	0.00	0.00	
10,381.7	0.00	0.00	10,342.5	103.5	519.6	-64.2	0.00	0.00	0.00	
10,400.0	2.20	179.58	10,360.8	103.1	519.6	-63.8	12.00	12.00	0.00	
10,500.0	14.20	179.58	10,459.6	88.9	519.7	-49.6	12.00	12.00	0.00	
10,600.0	26.20	179.58	10,553.3	54.4	520.0	-15.3	12.00	12.00	0.00	
10,700.0	38.20	179.58	10,637.8	1.2	520.4	37.8	12.00	12.00	0.00	
10,800.0	50.20	179.58	10,709.3	-68.4	520.9	107.2	12.00	12.00	0.00	
10,900.0	62.20	179.58	10,764.8	-151.3	521.5	190.0	12.00	12.00	0.00	
11,000.0	74.20	179.58	10,801.9	-244.0	522.2	282.5	12.00	12.00	0.00	
11,100.0	86.20	179.58	10,818.9	-342.3	522.9	380.6	12.00	12.00	0.00	
11,131.7	90.00	179.58	10,820.0	-374.0	523.1	412.2	12.00	12.00	0.00	
11,200.0	90.00	179.58	10,820.0	-442.3	523.6	480.3	0.00	0.00	0.00	
11,300.0	90.00	179.58	10,820.0	-542.3	524.4	580.1	0.00	0.00	0.00	
11,400.0	90.00	179.58	10,820.0	-642.3	525.1	679.9	0.00	0.00	0.00	
11,500.0	90.00	179.58	10,820.0	-742.3	525.8	779.6	0.00	0.00	0.00	
11,600.0	90.00	179.58	10,820.0	-842.3	526.6	879.4	0.00	0.00	0.00	
11,700.0	90.00	179.58	10,820.0	-942.3	527.3	979.2	0.00	0.00	0.00	
11,800.0	90.00	179.58	10,820.0	-1,042.3	528.0	1,079.0	0.00	0.00	0.00	
11,900.0	90.00	179.58	10,820.0	-1,142.3	528.8	1,178.7	0.00	0.00	0.00	
12,000.0	90.00	179.58	10,820.0	-1,242.3	529.5	1,278.5	0.00	0.00	0.00	
12,100.0	90.00	179.58	10,820.0	-1,342.3	530.2	1,378.3	0.00	0.00	0.00	
12,200.0	90.00	179.58	10,820.0	-1,442.3	531.0	1,478.0	0.00	0.00	0.00	
12,300.0	90.00	179.58	10,820.0	-1,542.3	531.7	1,577.8	0.00	0.00	0.00	
12,400.0	90.00	179.58	10,820.0	-1,642.3	532.4	1,677.6	0.00	0.00	0.00	
12,500.0	90.00	179.58	10,820.0	-1,742.3	533.2	1,777.4	0.00	0.00	0.00	
12,600.0	90.00	179.58	10,820.0	-1,842.3	533.9	1,877.1	0.00	0.00	0.00	
12,700.0	90.00	179.58	10,820.0	-1,942.3	534.6	1,976.9	0.00	0.00	0.00	
12,800.0	90.00	179.58	10,820.0	-2,042.3	535.4	2,076.7	0.00	0.00	0.00	
12,900.0	90.00	179.58	10,820.0	-2,142.3	536.1	2,176.4	0.00	0.00	0.00	
13,000.0	90.00	179.58	10,820.0	-2,242.3	536.8	2,276.2	0.00	0.00	0.00	
13,100.0	90.00	179.58	10,820.0	-2,342.3	537.6	2,376.0	0.00	0.00	0.00	
13,200.0	90.00	179.58	10,820.0	-2,442.3	538.3	2,475.7	0.00	0.00	0.00	
13,300.0	90.00	179.58	10,820.0	-2,542.2	539.0	2,575.5	0.00	0.00	0.00	
13,400.0	90.00	179.58	10,820.0	-2,642.2	539.8	2,675.3	0.00	0.00	0.00	
13,500.0	90.00	179.58	10,820.0	-2,742.2	540.5	2,775.1	0.00	0.00	0.00	
13,600.0	90.00	179.58	10,820.0	-2,842.2	541.3	2,874.8	0.00	0.00	0.00	
13,700.0	90.00	179.58	10,820.0	-2,942.2	542.0	2,974.6	0.00	0.00	0.00	
13,800.0	90.00	179.58	10,820.0	-3,042.2	542.7	3,074.4	0.00	0.00	0.00	
13,900.0	90.00	179.58	10,820.0	-3,142.2	543.5	3,174.1	0.00	0.00	0.00	
14,000.0	90.00	179.58	10,820.0	-3,242.2	544.2	3,273.9	0.00	0.00	0.00	
14,100.0	90.00	179.58	10,820.0	-3,342.2	544.9	3,373.7	0.00	0.00	0.00	
14,200.0	90.00	179.58	10,820.0	-3,442.2	545.7	3,473.5	0.00	0.00	0.00	
14,300.0	90.00	179.58	10,820.0	-3,542.2	546.4	3,573.2	0.00	0.00	0.00	
14,400.0	90.00	179.58	10,820.0	-3,642.2	547.1	3,673.0	0.00	0.00	0.00	
14,500.0	90.00	179.58	10,820.0	-3,742.2	547.9	3,772.8	0.00	0.00	0.00	
14,600.0	90.00	179.58	10,820.0	-3,842.2	548.6	3,872.5	0.00	0.00	0.00	
14,700.0	90.00	179.58	10,820.0	-3,942.2	549.3	3,972.3	0.00	0.00	0.00	
14,800.0	90.00	179.58	10,820.0	-4,042.2	550.1	4,072.1	0.00	0.00	0.00	
14,900.0	90.00	179.58	10,820.0	-4,142.2	550.8	4,171.9	0.00	0.00	0.00	
15,000.0	90.00	179.58	10,820.0	-4,242.2	551.5	4,271.6	0.00	0.00	0.00	
15,100.0	90.00	179.58	10,820.0	-4,342.2	552.3	4,371.4	0.00	0.00	0.00	
15,200.0	90.00	179.58	10,820.0	-4,442.2	553.0	4,471.2	0.00	0.00	0.00	
15,300.0	90.00	179.58	10,820.0	-4,542.2	553.7	4,570.9	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _ VALOR FEDERAL COM 504H - Slot SLOT 4
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 504H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

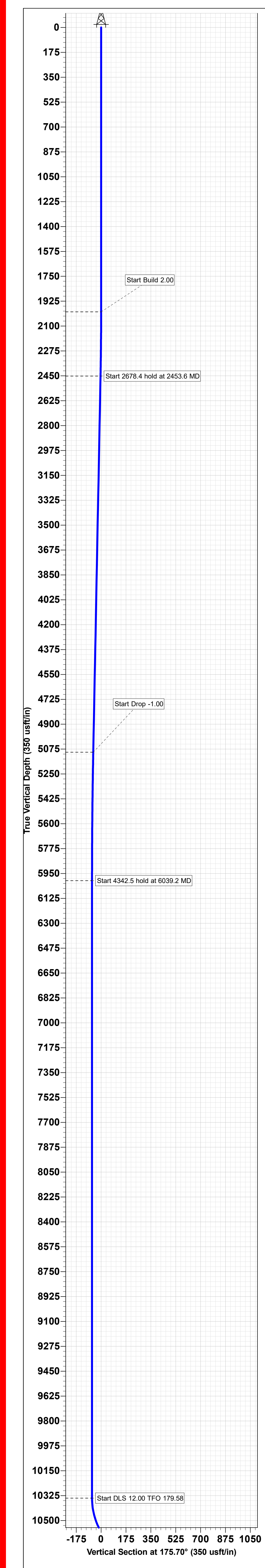
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
15,400.0	90.00	179.58	10,820.0	-4,642.2	554.5	4,670.7	0.00	0.00	0.00	
15,500.0	90.00	179.58	10,820.0	-4,742.2	555.2	4,770.5	0.00	0.00	0.00	
15,600.0	90.00	179.58	10,820.0	-4,842.2	555.9	4,870.2	0.00	0.00	0.00	
15,700.0	90.00	179.58	10,820.0	-4,942.2	556.7	4,970.0	0.00	0.00	0.00	
15,800.0	90.00	179.58	10,820.0	-5,042.2	557.4	5,069.8	0.00	0.00	0.00	
15,900.0	90.00	179.58	10,820.0	-5,142.2	558.1	5,169.6	0.00	0.00	0.00	
16,000.0	90.00	179.58	10,820.0	-5,242.2	558.9	5,269.3	0.00	0.00	0.00	
16,100.0	90.00	179.58	10,820.0	-5,342.2	559.6	5,369.1	0.00	0.00	0.00	
16,200.0	90.00	179.58	10,820.0	-5,442.2	560.3	5,468.9	0.00	0.00	0.00	
16,300.0	90.00	179.58	10,820.0	-5,542.2	561.1	5,568.6	0.00	0.00	0.00	
16,400.0	90.00	179.58	10,820.0	-5,642.2	561.8	5,668.4	0.00	0.00	0.00	
16,500.0	90.00	179.58	10,820.0	-5,742.2	562.5	5,768.2	0.00	0.00	0.00	
16,600.0	90.00	179.58	10,820.0	-5,842.2	563.3	5,868.0	0.00	0.00	0.00	
16,700.0	90.00	179.58	10,820.0	-5,942.2	564.0	5,967.7	0.00	0.00	0.00	
16,800.0	90.00	179.58	10,820.0	-6,042.2	564.7	6,067.5	0.00	0.00	0.00	
16,900.0	90.00	179.58	10,820.0	-6,142.2	565.5	6,167.3	0.00	0.00	0.00	
17,000.0	90.00	179.58	10,820.0	-6,242.1	566.2	6,267.0	0.00	0.00	0.00	
17,100.0	90.00	179.58	10,820.0	-6,342.1	566.9	6,366.8	0.00	0.00	0.00	
17,200.0	90.00	179.58	10,820.0	-6,442.1	567.7	6,466.6	0.00	0.00	0.00	
17,300.0	90.00	179.58	10,820.0	-6,542.1	568.4	6,566.3	0.00	0.00	0.00	
17,400.0	90.00	179.58	10,820.0	-6,642.1	569.2	6,666.1	0.00	0.00	0.00	
17,500.0	90.00	179.58	10,820.0	-6,742.1	569.9	6,765.9	0.00	0.00	0.00	
17,600.0	90.00	179.58	10,820.0	-6,842.1	570.6	6,865.7	0.00	0.00	0.00	
17,700.0	90.00	179.58	10,820.0	-6,942.1	571.4	6,965.4	0.00	0.00	0.00	
17,800.0	90.00	179.58	10,820.0	-7,042.1	572.1	7,065.2	0.00	0.00	0.00	
17,900.0	90.00	179.58	10,820.0	-7,142.1	572.8	7,165.0	0.00	0.00	0.00	
18,000.0	90.00	179.58	10,820.0	-7,242.1	573.6	7,264.7	0.00	0.00	0.00	
18,100.0	90.00	179.58	10,820.0	-7,342.1	574.3	7,364.5	0.00	0.00	0.00	
18,200.0	90.00	179.58	10,820.0	-7,442.1	575.0	7,464.3	0.00	0.00	0.00	
18,300.0	90.00	179.58	10,820.0	-7,542.1	575.8	7,564.1	0.00	0.00	0.00	
18,400.0	90.00	179.58	10,820.0	-7,642.1	576.5	7,663.8	0.00	0.00	0.00	
18,424.5	90.00	179.58	10,820.0	-7,666.6	576.7	7,688.3	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
- Shape										
PBHL_VALOR FEDERA - plan hits target center - Rectangle (sides W100.0 H7,770.0 D20.0)	0.00	359.58	10,820.0	-7,666.6	576.7	390,998.85	745,247.85	32° 4' 20.992 N	103° 32' 29.706 W	
FTP_VALOR FEDERAL - plan misses target center by 197.8usft at 10759.5usft MD (10682.1 TVD, -38.4 N, 520.7 E) - Circle (radius 50.0)	0.00	0.00	10,820.0	103.5	519.6	398,768.91	745,190.80	32° 5' 37.886 N	103° 32' 29.707 W	
LTP_VALOR FEDERAL - plan hits target center - Circle (radius 50.0)	90.00	179.58	10,820.0	-7,616.6	576.3	391,048.85	745,247.50	32° 4' 21.487 N	103° 32' 29.706 W	

ConocoPhillips
Planning Report

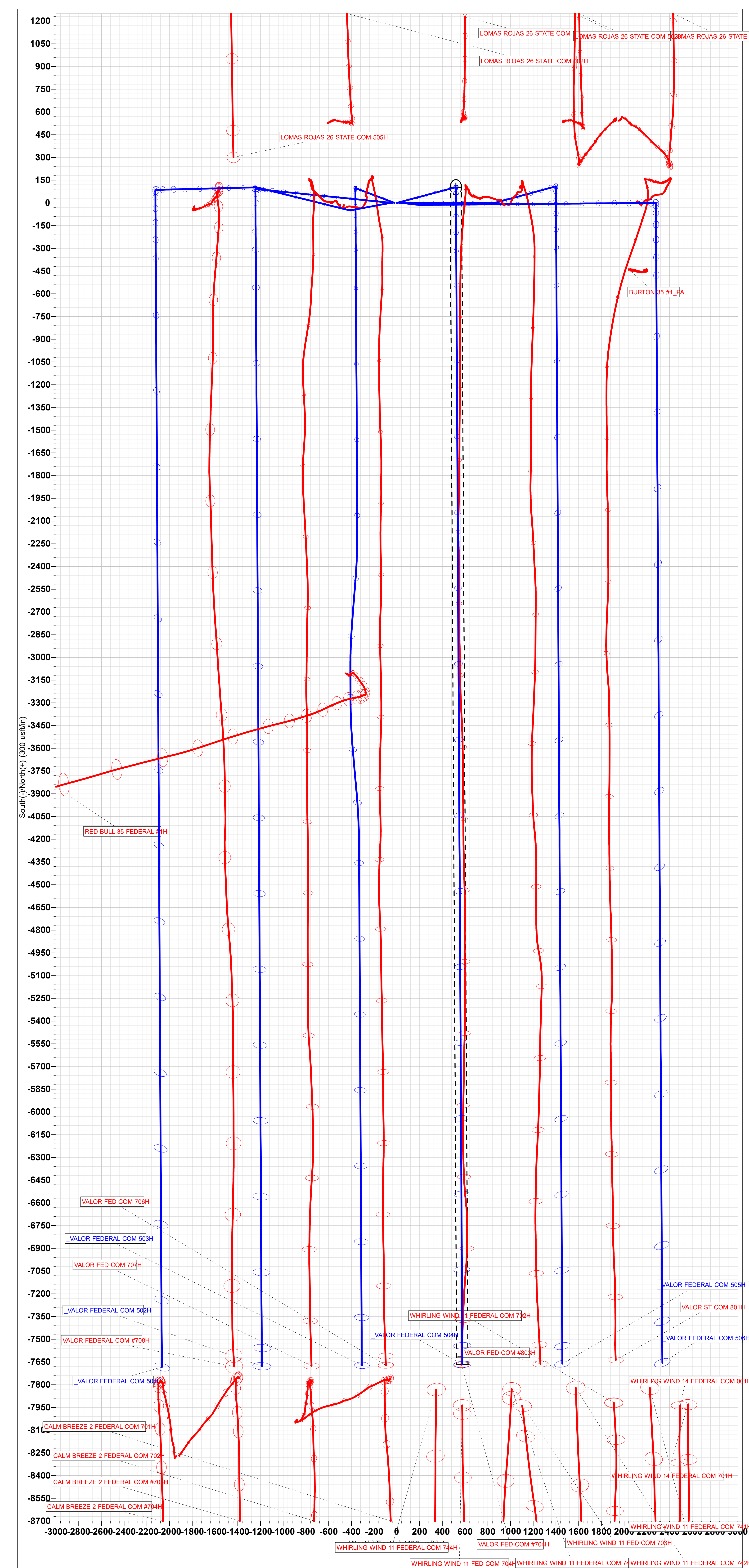
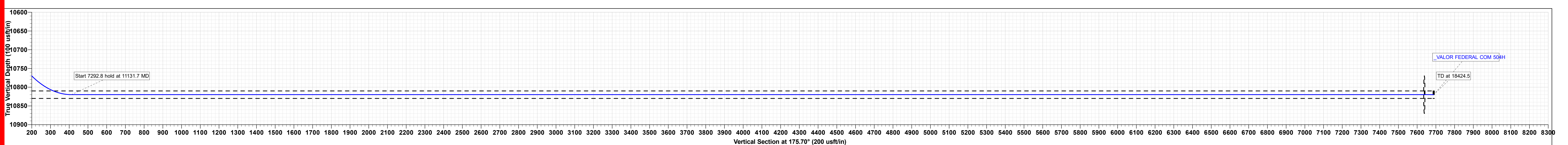
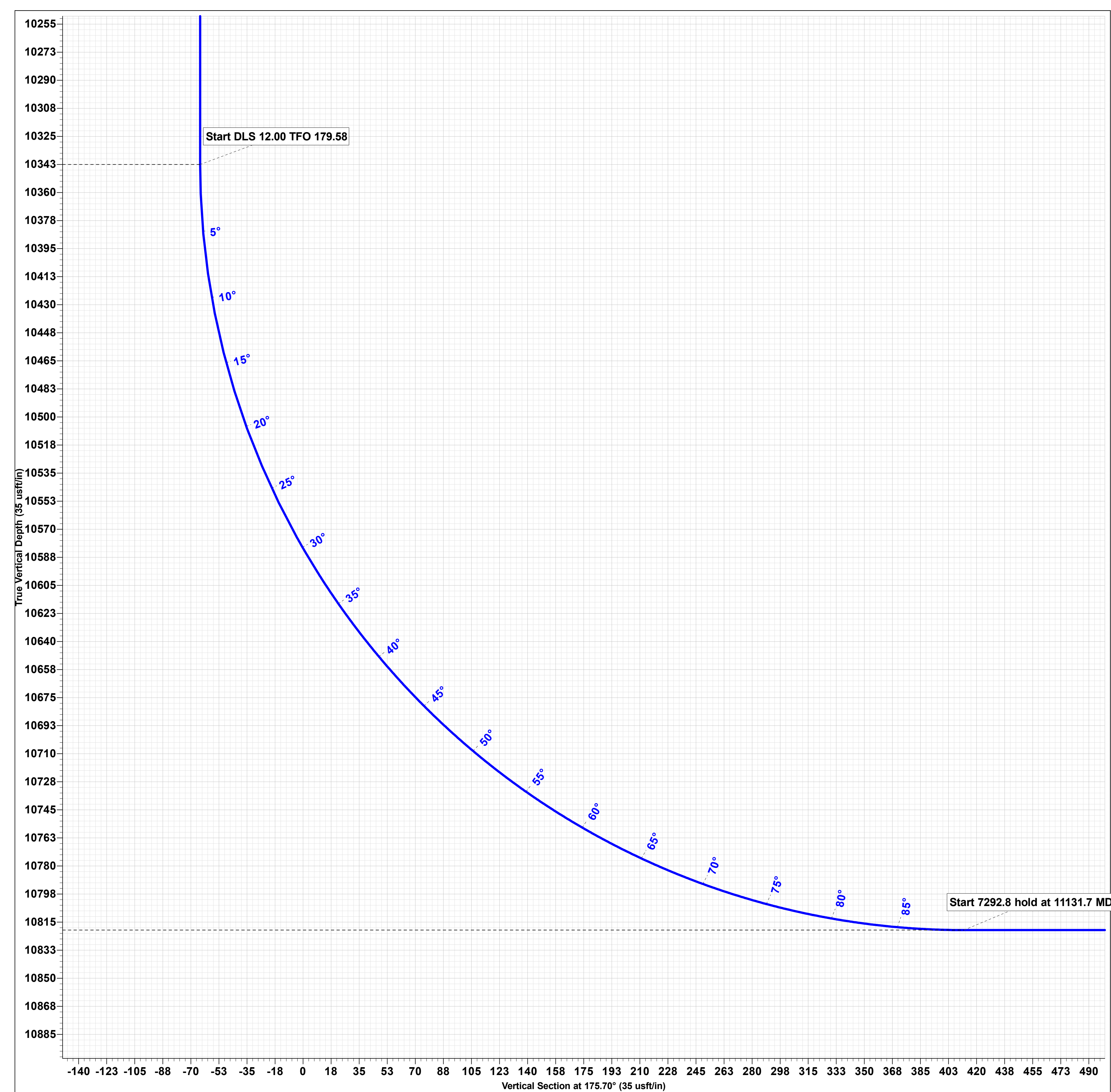
Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _VALOR FEDERAL COM 504H - Slot SLOT 4
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3360.0usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB @ 3360.0usft
Site:	VALOR PROJECT	North Reference:	Grid
Well:	_VALOR FEDERAL COM 504H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Casing Points					
	Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
	18,424.5	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 504H
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
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0
2455.6	9.07	78.74	2451.7	7.0	35.1	2.00	78.74	-4.3
5132.0	9.07	78.74	5096.6	89.5	449.3	0.00	0.00	-55.5
6039.2	0.00	0.00	6000.0	103.5	519.6	1.00	180.00	-64.2
10381.7	0.00	0.00	10342.5	103.5	519.6	0.00	0.00	-64.2
11131.7	90.00	179.58	10820.0	-374.0	523.1	12.00	179.58	412.2
18424.5	90.00	179.58	10820.0	-7666.6	576.7	0.00	0.00	7688.3



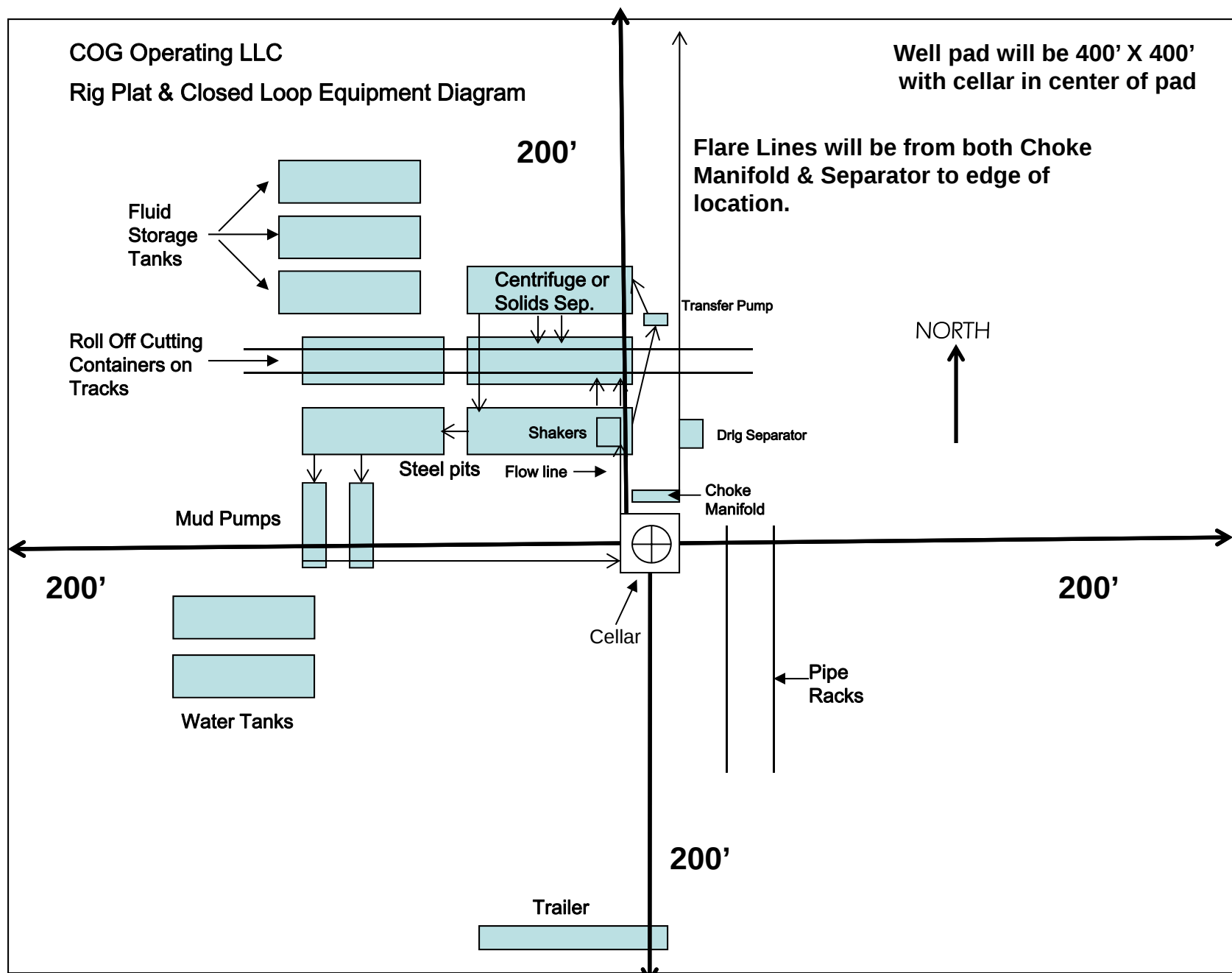


Exhibit 1

"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

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

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

I. Operator: 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

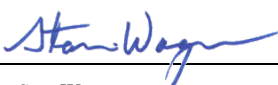
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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

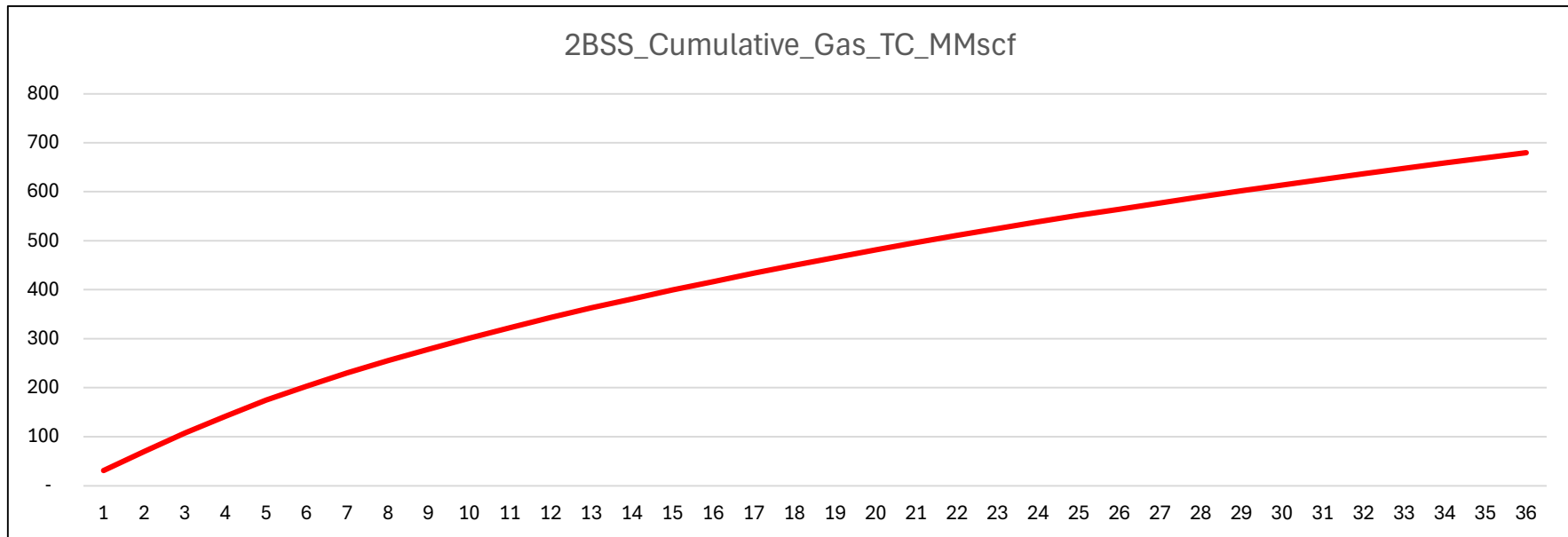
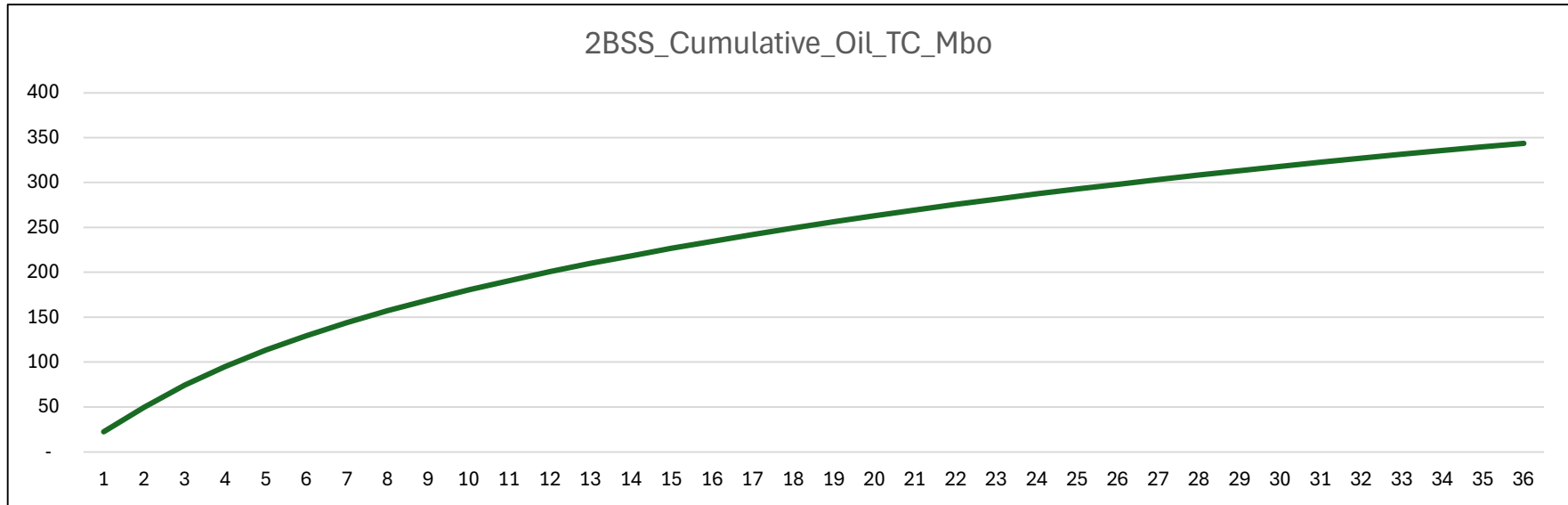
- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize 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 504H
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 508648

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 508648
	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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Santa Fe, NM 87505

COMMENTS

Action 508648

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Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 508648
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

COMMENTS

Created By	Comment	Comment Date
jeffrey.harrison	Submitted as defining well for HSU but 30-025-55511 already approved as defining well for same spacing unit.	12/2/2025

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CONDITIONS

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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.	12/2/2025
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.	12/2/2025
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/2/2025
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	12/2/2025
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.	12/2/2025
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.	12/2/2025