

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.5. Lease Serial No. **NMNM113419**

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
COG OPERATING LLC3a. Address **600 West Illinois Ave, Midland, TX 79701**3b. Phone No. (include area code)
(432) 683-74434. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 12/T25S/R34E/NMP

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

8. Well Name and No. **BANDANA FEDERAL COM/702H**9. API Well No. **3002549798**10. Field and Pool or Exploratory Area
Draper Mill/DOGIE DRAW; WOLFCAMP11. Country or Parish, State
LEA/NM**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

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

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

COG Operating requests a revision to our approved APD for this well to reflect changes in BHL, TD, and dedicated acres.

Change BHL FROM: 1270' FNL & 1640' FEL SWNE 24-25S-34E 22194' MD, 12686' TVD

Change BHL TO: 50 ft FSL & 1640 ft FEL SWSE 13-25S-34E Lea Co, NM.

Change TD to: 20,526MD, 12,686 TVD

Change dedicated acres to: 960 ac.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

STAN WAGNER / Ph: (432) 253-9685

Regulatory Advisor

Title

Signature

Date

12/05/2022**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Petroleum Engineer

Title

01/31/2023

Date

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

Office **CARLSBAD**

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

(Instructions on page 2)

Additional Information

Location of Well

0. SHL: NWNE / 2380 FNL / 1505 FEL / TWSP: 25S / RANGE: 34E / SECTION: 12 / LAT: 32.119698 / LONG: -103.420432 (TVD: 0 feet, MD: 0 feet)

PPP: NWSE / 2639 FSL / 1640 FEL / TWSP: 25S / RANGE: 34E / SECTION: 13 / LAT: 32.130455 / LONG: -103.420427 (TVD: 12795 feet, MD: 18290 feet)

PPP: NWNE / 2540 FNL / 1640 FEL / TWSP: 25S / RANGE: 34E / SECTION: 12 / LAT: 32.144684 / LONG: -103.42042 (TVD: 12927 feet, MD: 13109 feet)

BHL: NWNE / 1270 FNL / 1640 FEL / TWSP: 25S / RANGE: 34E / SECTION: 24 / LAT: 32.119843 / LONG: -103.420449 (TVD: 12686 feet, MD: 22194 feet)

CONFIDENTIAL

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 746-1283 Fax: (575) 746-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-49798	Pool Code 17980	Pool Name Dogie Draw; Wolfcamp
Property Code 332421	Property Name BANDANA FEDERAL COM	Well Number 702H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3379.0'

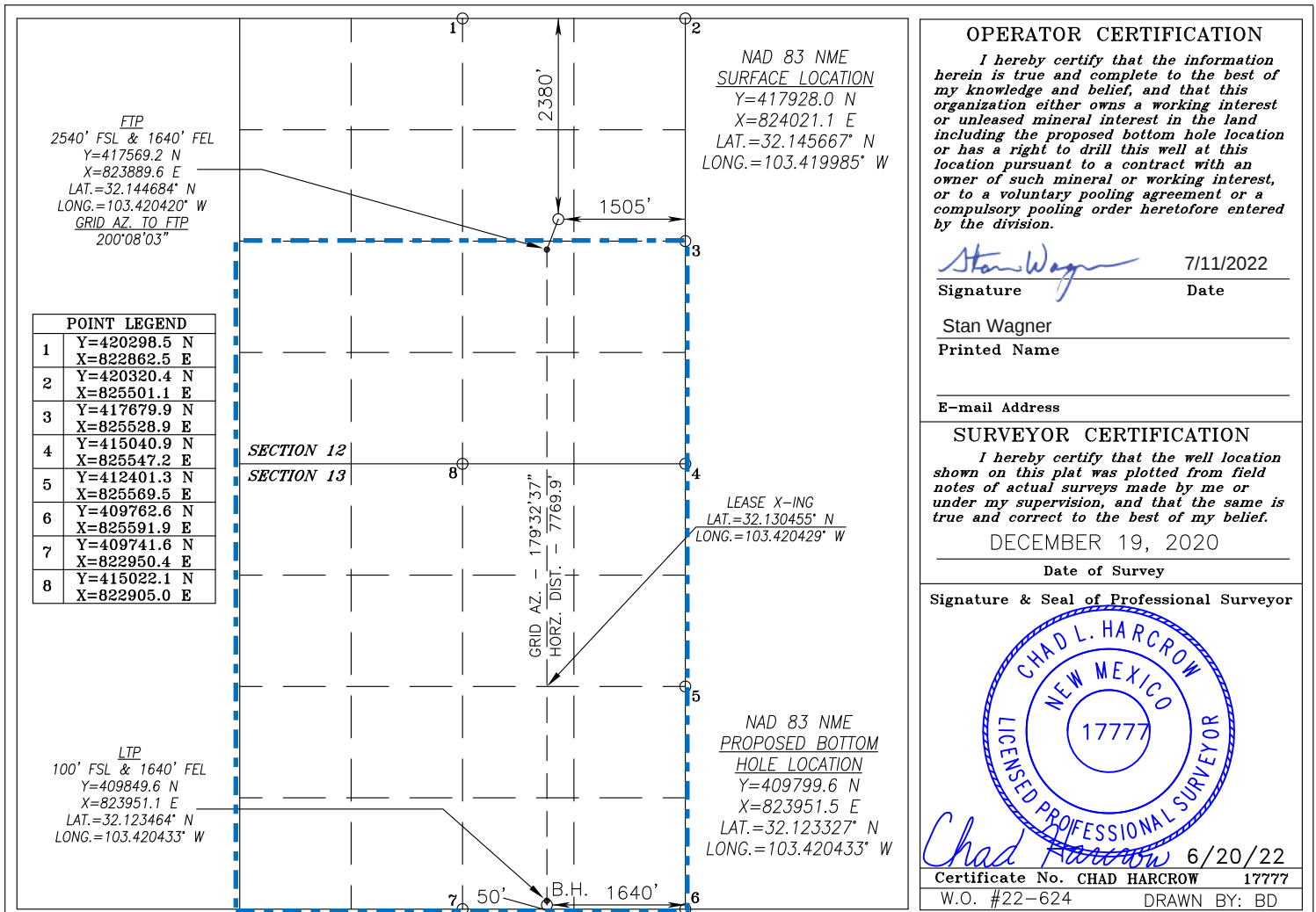
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	12	25-S	34-E		2380	NORTH	1505	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	13	25-S	34-E		50	SOUTH	1640	EAST	LEA
Dedicated Acres 960	Joint or Infill	Consolidation Code COM	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



DELAWARE BASIN EAST

**BULLDOG PROSPECT (NM-E)
BANDANA FEDERAL PROJECT
BANDANA FEDERAL COM #702H
300254979800
OWB
PWP0**

Anticollision Report

07 July, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 95.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	7/7/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	2,000.0	PWP0 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
2,000.0	12,480.0	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction
12,480.0	20,526.7	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
BANDANA FEDERAL PROJECT						
*BANDANA FEDERAL COM #601H - OWB - PWP0	1,995.0	1,996.7	30.1	23.5	4.576	CC, ES, SF
BANDANA FEDERAL COM #602H - OWB - PWP0	1,995.0	1,996.1	30.0	23.4	4.561	CC, ES
BANDANA FEDERAL COM #602H - OWB - PWP0	2,185.0	2,184.2	33.5	25.8	4.363	SF
BANDANA FEDERAL COM #603H - OWB - PWP0						Out of range
BANDANA FEDERAL COM #604H - OWB - PWP0						Out of range
BANDANA FEDERAL COM #703H - OWB - PWP0						Out of range
BANDANA FEDERAL COM #704H - OWB - PWP0						Out of range
JAMAICA 12 FEDERAL #1 (P&A) - OWB - AWP	13,593.4	12,922.1	739.1	360.0	1.950	Advise and Monitor, CC, ES,
GREEN EYESHAD FED PROJECT						
GREEN EYESHAD FEDERAL COM #601H - OWB - AW	12,933.1	12,869.6	494.5	446.6	10.324	CC, ES, SF
GREEN EYESHAD FEDERAL COM #601H - ST01 - AW	11,341.6	11,343.4	521.2	478.6	12.243	CC
GREEN EYESHAD FEDERAL COM #601H - ST01 - AW	11,590.0	11,589.9	521.9	478.2	11.959	ES
GREEN EYESHAD FEDERAL COM #601H - ST01 - AW	12,445.0	12,430.2	538.6	491.4	11.412	SF
GREEN EYESHAD FEDERAL COM #602H - OWB - AW	5,442.5	5,419.1	447.5	426.2	20.993	CC, ES
GREEN EYESHAD FEDERAL COM #602H - OWB - AW	12,635.0	12,661.4	481.9	432.5	9.743	SF
GREEN EYESHAD FEDERAL COM #603H - OWB - AW						Out of range
GREEN EYESHAD FEDERAL COM #702H - OWB - AW	4,614.9	4,619.0	31.8	15.0	1.891	Advise and Monitor, CC, ES,
GREEN EYESHAD FEDERAL COM #703H - OWB - AW						Out of range
GREEN EYESHAD FEDERAL COM #704H - OWB - AW						Out of range
PITCHBLLENDE 19-30 FEE/FED PROJECT						
PITCHBLLENDE 19-30 FED 602H - OWB - PWP1						Out of range

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
PITCHBLENDE 24-25 FEDERAL PROJECT						
PITCHBLENDE 24-25 FED 603H - OWB - PWP1	20,527.1	12,387.6	827.8	748.7	10.469	CC, ES, SF
PITCHBLENDE 24-25 FED 604H - OWB - PWP1	20,527.1	12,450.0	540.0	458.7	6.641	CC, ES, SF
PITCHBLENDE 24-25 FED 605H - OWB - PWP1						Out of range
PITCHBLENDE 24-25 FED 702H - OWB - PWP1						Out of range
PITCHBLENDE 24-25 FED 703H - OWB - PWP1	20,527.1	12,567.6	271.5	194.9	3.547	CC, ES, SF
PITCHBLENDE 24-25 FED 704H - OWB - PWP1						Out of range
PITCHBLENDE 24-25 FED 705H - OWB - PWP1						Out of range
PITCHBLENDE 24-25 FED 802H - OWB - PWP1	20,527.1	12,662.6	750.1	669.3	9.282	CC, ES, SF
PITCHBLENDE 24-25 FED 803H - OWB - PWP1						Out of range
STOVE PIPE FEDERAL PROJECT (BULLDOG 2535)						
*STOVE PIPE FEDERAL COM #705H - OWB - PWP0						Out of range
BIGGERS FED #201H - OWB - ACTUAL WELLPATH						Out of range
STOVE PIPE FED COM #706H - OWB - AWP						Out of range
STOVE PIPE FED COM #707H - OWB - AWP						Out of range

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
BANDANA FEDERAL PROJECT						
*BANDANA FEDERAL COM #601H - OWB - PWP0	20,527.1	20,606.4	679.2	539.0	4.846	
BANDANA FEDERAL COM #602H - OWB - PWP0	20,527.1	20,300.4	717.6	574.7	5.024	
BANDANA FEDERAL COM #603H - OWB - PWP0	20,527.1	20,279.7				Out of Range @TD
BANDANA FEDERAL COM #604H - OWB - PWP0	20,527.1	20,297.8				Out of Range @TD
BANDANA FEDERAL COM #703H - OWB - PWP0	20,527.1	20,603.1				Out of Range @TD
BANDANA FEDERAL COM #704H - OWB - PWP0	20,527.1	20,595.7				Out of Range @TD
JAMAICA 12 FEDERAL #1 (P&A) - OWB - AWP	20,527.1	12,681.7				Out of Range @TD
GREEN EYESHAD FED PROJECT						
GREEN EYESHAD FEDERAL COM #601H - OWB - AW	20,527.1	12,677.9				Out of Range @TD
GREEN EYESHAD FEDERAL COM #601H - ST01 - AW	20,527.1	12,203.5				Out of Range @TD
GREEN EYESHAD FEDERAL COM #602H - OWB - AW	20,527.1	12,205.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #603H - OWB - AW	20,527.1	12,233.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #702H - OWB - AW	20,527.1	12,444.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #703H - OWB - AW	20,527.1	12,467.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #704H - OWB - AW	20,527.1	12,468.0				Out of Range @TD
PITCHBLENDE 19-30 FEE/FED PROJECT						
PITCHBLENDE 19-30 FED 602H - OWB - PWP1	20,527.1	12,450.0				Out of Range @TD
PITCHBLENDE 24-25 FEDERAL PROJECT						
PITCHBLENDE 24-25 FED 603H - OWB - PWP1	20,527.1	12,387.6	827.8	748.7	10.469	CC, ES, SF
PITCHBLENDE 24-25 FED 604H - OWB - PWP1	20,527.1	12,450.0	540.0	458.7	6.641	CC, ES, SF
PITCHBLENDE 24-25 FED 605H - OWB - PWP1	20,527.1	12,415.7				Out of Range @TD
PITCHBLENDE 24-25 FED 702H - OWB - PWP1	20,527.1	12,658.3				Out of Range @TD
PITCHBLENDE 24-25 FED 703H - OWB - PWP1	20,527.1	12,567.6	271.5	194.9	3.547	CC, ES, SF
PITCHBLENDE 24-25 FED 704H - OWB - PWP1	20,527.1	12,658.3				Out of Range @TD
PITCHBLENDE 24-25 FED 705H - OWB - PWP1	20,527.1	12,584.5				Out of Range @TD
PITCHBLENDE 24-25 FED 802H - OWB - PWP1	20,527.1	12,662.6	750.1	669.3	9.282	CC, ES, SF
PITCHBLENDE 24-25 FED 803H - OWB - PWP1	20,527.1	12,683.8				Out of Range @TD
STOVE PIPE FEDERAL PROJECT (BULLDOG 2535)						
*STOVE PIPE FEDERAL COM #705H - OWB - PWP0	20,527.1	21,218.8				Out of Range @TD
BIGGERS FED #201H - OWB - ACTUAL WELLPATH	20,527.1	12,697.3				Out of Range @TD
STOVE PIPE FED COM #706H - OWB - AWP	20,527.1	23,094.0				Out of Range @TD
STOVE PIPE FED COM #707H - OWB - AWP	20,527.1	23,172.0				Out of Range @TD

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - *BANDANA FEDERAL COM #601H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12523-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 +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	1.7	1.7	3.0	3.0	89.24	0.4	30.1	30.1					
95.0	95.0	96.7	96.7	3.0	3.0	89.24	0.4	30.1	30.1	24.1	6.00	5.017		
190.0	190.0	191.7	191.7	3.0	3.0	89.24	0.4	30.1	30.1	24.1	6.00	5.015		
285.0	285.0	286.7	286.7	3.0	3.0	89.24	0.4	30.1	30.1	24.1	6.01	5.010		
380.0	380.0	381.7	381.7	3.0	3.0	89.24	0.4	30.1	30.1	24.1	6.02	5.004		
475.0	475.0	476.7	476.7	3.0	3.0	89.24	0.4	30.1	30.1	24.1	6.03	4.994		
570.0	570.0	571.7	571.7	3.1	3.1	89.24	0.4	30.1	30.1	24.1	6.04	4.983		
665.0	665.0	666.7	666.7	3.1	3.1	89.24	0.4	30.1	30.1	24.0	6.06	4.969		
760.0	760.0	761.7	761.7	3.1	3.1	89.24	0.4	30.1	30.1	24.0	6.08	4.953		
855.0	855.0	856.7	856.7	3.2	3.2	89.24	0.4	30.1	30.1	24.0	6.10	4.934		
950.0	950.0	951.7	951.7	3.2	3.2	89.24	0.4	30.1	30.1	24.0	6.13	4.914		
1,045.0	1,045.0	1,046.7	1,046.7	3.3	3.3	89.24	0.4	30.1	30.1	23.9	6.15	4.891		
1,140.0	1,140.0	1,141.7	1,141.7	3.3	3.3	89.24	0.4	30.1	30.1	23.9	6.19	4.867		
1,235.0	1,235.0	1,236.7	1,236.7	3.4	3.4	89.24	0.4	30.1	30.1	23.9	6.22	4.841		
1,330.0	1,330.0	1,331.7	1,331.7	3.4	3.4	89.24	0.4	30.1	30.1	23.8	6.26	4.813		
1,425.0	1,425.0	1,426.7	1,426.7	3.5	3.5	89.24	0.4	30.1	30.1	23.8	6.29	4.783		
1,520.0	1,520.0	1,521.7	1,521.7	3.6	3.6	89.24	0.4	30.1	30.1	23.8	6.34	4.752		
1,615.0	1,615.0	1,616.7	1,616.7	3.6	3.6	89.24	0.4	30.1	30.1	23.7	6.38	4.719		
1,710.0	1,710.0	1,711.7	1,711.7	3.7	3.7	89.24	0.4	30.1	30.1	23.7	6.43	4.685		
1,805.0	1,805.0	1,806.7	1,806.7	3.8	3.8	89.24	0.4	30.1	30.1	23.6	6.47	4.650		
1,900.0	1,900.0	1,901.7	1,901.7	3.9	3.9	89.24	0.4	30.1	30.1	23.6	6.52	4.614		
1,995.0	1,995.0	1,996.7	1,996.7	3.9	3.9	89.24	0.4	30.1	30.1	23.5	6.58	4.576	CC, ES, SF	
2,090.0	2,090.0	2,090.8	2,090.8	4.1	4.0	-111.98	-0.3	31.4	31.9	25.2	6.69	4.764		
2,185.0	2,184.9	2,184.7	2,184.5	4.6	4.0	-114.87	-2.4	35.4	37.6	30.6	7.06	5.327		
2,280.0	2,279.6	2,278.3	2,277.9	5.2	4.0	-118.25	-5.8	42.0	47.3	39.7	7.56	6.257		
2,375.0	2,374.0	2,372.6	2,371.8	5.6	4.0	-121.95	-9.6	49.2	58.8	50.8	8.03	7.327		
2,470.0	2,468.5	2,466.8	2,465.7	5.7	4.0	-124.51	-13.4	56.5	70.5	62.2	8.38	8.420		
2,565.0	2,563.0	2,561.0	2,559.5	5.9	4.0	-126.34	-17.2	63.8	82.3	73.7	8.69	9.480		
2,660.0	2,657.5	2,655.3	2,653.4	6.0	4.0	-127.70	-21.0	71.1	94.2	85.2	8.99	10.475		
2,755.0	2,752.0	2,749.5	2,747.3	6.2	4.1	-128.76	-24.8	78.3	106.1	96.8	9.31	11.406		
2,850.0	2,846.4	2,843.7	2,841.2	6.4	4.1	-129.61	-28.6	85.6	118.1	108.5	9.62	12.274		
2,945.0	2,940.9	2,938.0	2,935.0	6.6	4.1	-130.30	-32.4	92.9	130.0	120.1	9.94	13.081		
3,040.0	3,035.4	3,032.2	3,028.9	6.8	4.2	-130.88	-36.2	100.2	142.0	131.8	10.27	13.830		
3,135.0	3,129.9	3,126.4	3,122.8	7.0	4.2	-131.36	-40.0	107.5	154.0	143.4	10.60	14.526		
3,230.0	3,224.3	3,220.7	3,216.7	7.3	4.2	-131.78	-43.8	114.7	166.0	155.1	10.94	15.171		
3,325.0	3,318.8	3,314.9	3,310.5	7.5	4.3	-132.14	-47.6	122.0	178.0	166.7	11.29	15.770		
3,420.0	3,413.3	3,409.1	3,404.4	7.8	4.3	-132.45	-51.4	129.3	190.0	178.4	11.64	16.325		
3,515.0	3,507.8	3,503.4	3,498.3	8.0	4.4	-132.73	-55.2	136.6	202.1	190.1	12.00	16.841		
3,610.0	3,602.3	3,597.6	3,592.2	8.3	4.4	-132.97	-59.0	143.9	214.1	201.7	12.36	17.320		
3,705.0	3,696.7	3,691.8	3,686.0	8.6	4.5	-133.19	-62.9	151.1	226.1	213.4	12.73	17.766		
3,800.0	3,791.2	3,786.1	3,779.9	8.8	4.6	-133.39	-66.7	158.4	238.2	225.1	13.10	18.181		
3,895.0	3,885.7	3,880.3	3,873.8	9.1	4.6	-133.57	-70.5	165.7	250.2	236.7	13.47	18.567		
3,990.0	3,980.2	3,974.5	3,967.6	9.4	4.7	-133.73	-74.3	173.0	262.2	248.4	13.85	18.928		
4,085.0	4,074.7	4,068.8	4,061.5	9.7	4.8	-133.88	-78.1	180.3	274.3	260.0	14.24	19.264		
4,180.0	4,169.1	4,163.0	4,155.4	10.0	4.8	-134.01	-81.9	187.5	286.3	271.7	14.62	19.579		
4,275.0	4,263.6	4,257.2	4,249.3	10.3	4.9	-134.14	-85.7	194.8	298.3	283.3	15.01	19.873		
4,370.0	4,358.1	4,351.5	4,343.1	10.6	5.0	-134.25	-89.5	202.1	310.4	295.0	15.40	20.149		
4,465.0	4,452.6	4,445.7	4,437.0	10.9	5.0	-134.36	-93.3	209.4	322.4	306.6	15.80	20.408		
4,560.0	4,547.1	4,539.9	4,530.9	11.2	5.1	-134.45	-97.1	216.6	334.5	318.3	16.20	20.651		
4,655.0	4,641.5	4,634.1	4,624.8	11.5	5.2	-134.55	-100.9	223.9	346.5	329.9	16.60	20.879		
4,750.0	4,736.0	4,728.4	4,718.6	11.9	5.3	-134.63	-104.7	231.2	358.6	341.6	17.00	21.094		
4,845.0	4,830.5	4,822.6	4,812.5	12.2	5.4	-134.71	-108.5	238.5	370.6	353.2	17.40	21.296		

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - *BANDANA FEDERAL COM #601H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 12523-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						
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,940.0	4,925.0	4,916.8	4,906.4	12.5	5.4	-134.79	-112.3	245.8	382.7	364.9	17.81	21.486	
5,035.0	5,019.4	5,011.1	5,000.2	12.8	5.5	-134.86	-116.1	253.0	394.7	376.5	18.22	21.666	
5,130.0	5,113.9	5,105.3	5,094.1	13.1	5.6	-134.92	-119.9	260.3	406.8	388.1	18.63	21.836	
5,225.0	5,208.4	5,199.5	5,188.0	13.5	5.7	-134.98	-123.7	267.6	418.8	399.8	19.04	21.996	
5,320.0	5,302.9	5,293.8	5,281.9	13.8	5.8	-135.04	-127.5	274.9	430.9	411.4	19.45	22.148	
5,415.0	5,397.4	5,388.0	5,375.7	14.1	5.9	-135.10	-131.3	282.2	442.9	423.0	19.87	22.292	
5,510.0	5,491.8	5,482.2	5,469.6	14.4	6.0	-135.16	-135.1	289.4	455.0	434.7	20.29	22.427	
5,605.0	5,586.4	5,576.5	5,563.6	14.8	6.1	-135.21	-138.9	296.7	466.4	445.7	20.70	22.527	
5,700.0	5,681.1	5,671.0	5,657.6	15.1	6.2	-135.12	-142.7	304.0	476.6	455.5	21.12	22.571	
5,795.0	5,775.9	5,765.5	5,751.8	15.4	6.3	-134.90	-146.6	311.3	485.8	464.3	21.53	22.562	
5,890.0	5,870.8	5,860.1	5,846.0	15.7	6.4	-134.54	-150.4	318.6	493.9	472.0	21.95	22.505	
5,985.0	5,965.8	5,954.7	5,940.3	16.1	6.4	-134.07	-154.2	325.9	501.0	478.6	22.36	22.403	
6,080.0	6,060.8	6,049.4	6,034.6	16.3	6.5	-133.48	-158.0	333.2	507.0	484.2	22.74	22.290	
6,175.0	6,155.8	6,144.0	6,128.9	16.6	6.6	67.36	-161.8	340.6	512.3	489.1	23.12	22.154	
6,270.0	6,250.8	6,238.6	6,223.1	16.9	6.7	68.06	-165.7	347.9	517.6	494.1	23.50	22.023	
6,365.0	6,345.8	6,333.3	6,317.4	17.2	6.8	68.75	-169.5	355.2	523.0	499.1	23.89	21.897	
6,460.0	6,440.8	6,427.9	6,411.7	17.5	6.9	69.43	-173.3	362.5	528.5	504.3	24.27	21.775	
6,555.0	6,535.8	6,522.6	6,506.0	17.8	7.0	70.09	-177.1	369.8	534.1	509.4	24.66	21.658	
6,650.0	6,630.8	6,617.2	6,600.3	18.1	7.1	70.73	-180.9	377.1	539.7	514.7	25.05	21.545	
6,745.0	6,725.8	6,711.8	6,694.5	18.4	7.3	71.37	-184.8	384.4	545.4	520.0	25.44	21.437	
6,840.0	6,820.8	6,806.5	6,788.8	18.7	7.4	71.99	-188.6	391.7	551.2	525.4	25.84	21.333	
6,935.0	6,915.8	6,901.1	6,883.1	19.0	7.5	72.60	-192.4	399.0	557.1	530.8	26.23	21.233	
7,030.0	7,010.8	6,995.7	6,977.4	19.3	7.6	73.19	-196.2	406.3	562.9	536.3	26.63	21.137	
7,125.0	7,105.8	7,090.4	7,071.6	19.6	7.7	73.77	-200.0	413.7	568.9	541.9	27.03	21.045	
7,220.0	7,200.8	7,185.0	7,165.9	19.9	7.8	74.34	-203.9	421.0	574.9	547.5	27.44	20.955	
7,315.0	7,295.8	7,279.7	7,260.2	20.2	7.9	74.90	-207.7	428.3	581.0	553.1	27.84	20.870	
7,410.0	7,390.8	7,374.3	7,354.5	20.5	8.0	75.45	-211.5	435.6	587.1	558.9	28.24	20.787	
7,505.0	7,485.8	7,468.9	7,448.8	20.8	8.1	75.98	-215.3	442.9	593.3	564.6	28.65	20.707	
7,600.0	7,580.8	7,563.6	7,543.0	21.2	8.2	76.51	-219.1	450.2	599.5	570.5	29.06	20.631	
7,695.0	7,675.8	7,658.2	7,637.3	21.5	8.3	77.02	-223.0	457.5	605.8	576.3	29.47	20.557	
7,790.0	7,770.8	7,752.9	7,731.6	21.8	8.4	77.53	-226.8	464.8	612.1	582.2	29.88	20.485	
7,885.0	7,865.8	7,847.5	7,825.9	22.1	8.5	78.02	-230.6	472.1	618.5	588.2	30.29	20.417	
7,980.0	7,960.8	7,942.1	7,920.2	22.4	8.6	78.50	-234.4	479.4	624.9	594.2	30.71	20.350	
8,075.0	8,055.8	8,036.8	8,014.4	22.7	8.7	78.97	-238.2	486.8	631.4	600.2	31.12	20.287	
8,170.0	8,150.8	8,137.5	8,114.8	23.0	8.9	79.44	-242.1	494.2	637.6	606.0	31.56	20.203	
8,265.0	8,245.8	8,241.4	8,218.5	23.3	9.0	79.82	-245.3	500.2	642.5	610.5	32.00	20.078	
8,360.0	8,340.8	8,345.6	8,322.6	23.7	9.1	80.09	-247.6	504.7	646.1	613.7	32.44	19.917	
8,455.0	8,435.8	8,449.9	8,426.9	24.0	9.2	80.26	-249.0	507.4	648.3	615.5	32.88	19.720	
8,550.0	8,530.8	8,554.3	8,531.3	24.3	9.3	80.32	-249.6	508.5	649.2	615.9	33.31	19.493	
8,645.0	8,625.8	8,650.6	8,627.5	24.6	9.4	80.33	-249.6	508.5	649.2	615.5	33.68	19.275	
8,740.0	8,720.8	8,745.6	8,722.5	24.9	9.4	80.33	-249.6	508.5	649.2	615.2	34.05	19.065	
8,835.0	8,815.8	8,840.6	8,817.5	25.3	9.4	80.33	-249.6	508.5	649.2	614.8	34.43	18.859	
8,930.0	8,910.8	8,935.6	8,912.5	25.6	9.5	80.33	-249.6	508.5	649.2	614.4	34.80	18.657	
9,025.0	9,005.8	9,030.6	9,007.5	25.9	9.5	80.33	-249.6	508.5	649.2	614.1	35.17	18.459	
9,120.0	9,100.8	9,125.6	9,102.5	26.2	9.6	80.33	-249.6	508.5	649.2	613.7	35.55	18.264	
9,215.0	9,195.8	9,220.6	9,197.5	26.5	9.7	80.33	-249.6	508.5	649.2	613.3	35.92	18.074	
9,310.0	9,290.8	9,315.6	9,292.5	26.9	9.7	80.33	-249.6	508.5	649.2	612.9	36.30	17.886	
9,405.0	9,385.8	9,410.6	9,387.5	27.2	9.8	80.33	-249.6	508.5	649.2	612.6	36.67	17.703	
9,500.0	9,480.8	9,505.6	9,482.5	27.5	9.8	80.33	-249.6	508.5	649.2	612.2	37.05	17.523	
9,595.0	9,575.8	9,600.6	9,577.5	27.8	9.9	80.33	-249.6	508.5	649.2	611.8	37.43	17.346	
9,690.0	9,670.8	9,695.6	9,672.5	28.2	9.9	80.33	-249.6	508.5	649.2	611.4	37.81	17.172	
9,785.0	9,765.8	9,790.6	9,767.5	28.5	10.0	80.33	-249.6	508.5	649.2	611.0	38.19	17.002	

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - *BANDANA FEDERAL COM #601H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12523-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 +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,880.0	9,860.8	9,885.6	9,862.5	28.8	10.1	80.33	-249.6	508.5	649.2	610.7	38.56	16.835	
9,975.0	9,955.8	9,980.6	9,957.5	29.1	10.1	80.33	-249.6	508.5	649.2	610.3	38.94	16.670	
10,070.0	10,050.8	10,075.6	10,052.5	29.5	10.2	80.33	-249.6	508.5	649.2	609.9	39.33	16.509	
10,165.0	10,145.8	10,170.6	10,147.5	29.8	10.3	80.33	-249.6	508.5	649.2	609.5	39.71	16.351	
10,260.0	10,240.8	10,265.6	10,242.5	30.1	10.3	80.33	-249.6	508.5	649.2	609.1	40.09	16.195	
10,355.0	10,335.8	10,360.6	10,337.5	30.4	10.4	80.33	-249.6	508.5	649.2	608.8	40.47	16.042	
10,450.0	10,430.8	10,455.6	10,432.5	30.8	10.5	80.33	-249.6	508.5	649.2	608.4	40.85	15.892	
10,545.0	10,525.8	10,550.6	10,527.5	31.1	10.5	80.33	-249.6	508.5	649.2	608.0	41.24	15.744	
10,640.0	10,620.8	10,645.6	10,622.5	31.4	10.6	80.33	-249.6	508.5	649.2	607.6	41.62	15.599	
10,735.0	10,715.8	10,740.6	10,717.5	31.7	10.7	80.33	-249.6	508.5	649.2	607.2	42.00	15.457	
10,830.0	10,810.8	10,835.6	10,812.5	32.1	10.7	80.33	-249.6	508.5	649.2	606.8	42.39	15.317	
10,925.0	10,905.8	10,930.6	10,907.5	32.4	10.8	80.33	-249.6	508.5	649.2	606.5	42.77	15.179	
11,020.0	11,000.8	11,025.6	11,002.5	32.7	10.9	80.33	-249.6	508.5	649.2	606.1	43.16	15.044	
11,115.0	11,095.8	11,120.6	11,097.5	33.1	11.0	80.33	-249.6	508.5	649.2	605.7	43.54	14.910	
11,210.0	11,190.8	11,215.6	11,192.5	33.4	11.0	80.33	-249.6	508.5	649.2	605.3	43.93	14.779	
11,305.0	11,285.8	11,310.6	11,287.5	33.7	11.1	80.33	-249.6	508.5	649.2	604.9	44.31	14.651	
11,400.0	11,380.8	11,405.6	11,382.5	34.0	11.2	80.33	-249.6	508.5	649.2	604.5	44.70	14.524	
11,495.0	11,475.8	11,500.6	11,477.5	34.4	11.3	80.33	-249.6	508.5	649.2	604.1	45.09	14.399	
11,590.0	11,570.8	11,595.6	11,572.5	34.7	11.3	80.33	-249.6	508.5	649.2	603.8	45.48	14.277	
11,685.0	11,665.8	11,690.6	11,667.5	35.0	11.4	80.33	-249.6	508.5	649.2	603.4	45.86	14.156	
11,780.0	11,760.8	11,785.6	11,762.5	35.4	11.5	80.33	-249.6	508.5	649.2	603.0	46.25	14.037	
11,875.0	11,855.8	11,880.6	11,857.5	35.7	11.6	80.33	-249.6	508.5	649.2	602.6	46.64	13.920	
11,970.0	11,950.8	11,975.6	11,952.5	36.0	11.7	80.33	-249.6	508.5	649.2	602.2	47.03	13.805	
12,065.0	12,045.8	12,070.6	12,047.5	36.3	11.7	80.33	-249.6	508.5	649.2	601.8	47.42	13.692	
12,160.0	12,140.8	12,165.6	12,142.5	36.7	11.8	80.33	-249.6	508.5	649.2	601.4	47.81	13.581	
12,255.0	12,235.8	12,260.6	12,237.5	37.0	11.9	80.33	-249.6	508.5	649.2	601.0	48.20	13.471	
12,350.0	12,330.8	12,355.6	12,332.5	37.3	12.0	80.33	-249.6	508.5	649.2	600.6	48.59	13.363	
12,445.0	12,425.8	12,450.6	12,427.5	37.6	12.1	80.33	-249.6	508.5	649.2	600.3	48.90	13.277	
12,540.0	12,520.6	12,568.1	12,544.1	37.7	12.5	-98.69	-261.4	508.6	648.4	599.4	49.00	13.233	
12,635.0	12,613.1	12,685.2	12,654.0	37.7	12.5	-97.64	-301.0	508.9	646.7	597.7	48.97	13.207	
12,730.0	12,699.5	12,797.7	12,747.5	37.7	12.6	-96.26	-363.1	509.4	644.8	595.8	48.96	13.169	
12,825.0	12,776.5	12,905.0	12,820.9	37.8	12.7	-94.64	-441.1	510.0	643.0	594.0	48.99	13.127	
12,920.0	12,841.1	13,007.1	12,872.8	37.8	12.9	-92.87	-528.7	510.7	641.7	592.6	49.07	13.076	
13,015.0	12,890.7	13,104.3	12,904.0	37.9	13.1	-91.03	-620.7	511.4	640.9	591.7	49.26	13.010	
13,069.6	12,911.6	13,158.2	12,913.0	37.9	13.2	-89.97	-673.7	511.8	640.8	591.4	49.43	12.963	
13,110.0	12,923.3	13,197.2	12,915.7	37.9	13.2	-89.19	-712.7	512.1	640.9	591.3	49.58	12.925	
13,205.0	12,937.6	13,290.7	12,916.0	38.0	13.4	-87.91	-806.1	512.8	641.2	591.2	50.01	12.822	
13,300.0	12,936.1	13,385.6	12,915.9	38.1	13.6	-88.04	-901.1	513.6	641.1	590.7	50.46	12.705	
13,395.0	12,932.9	13,480.6	12,915.9	38.1	13.9	-88.34	-996.0	514.3	641.0	590.1	50.98	12.574	
13,490.0	12,929.6	13,575.5	12,915.9	38.2	14.2	-88.63	-1,091.0	515.1	640.9	589.4	51.55	12.434	
13,585.0	12,926.3	13,670.5	12,915.9	38.3	14.6	-88.92	-1,185.9	515.8	640.9	588.7	52.16	12.285	
13,680.0	12,923.0	13,765.4	12,915.9	38.5	15.0	-89.21	-1,280.8	516.6	640.8	588.0	52.83	12.130	
13,775.0	12,919.7	13,860.3	12,915.9	38.6	15.5	-89.51	-1,375.8	517.3	640.7	587.2	53.53	11.969	
13,870.0	12,916.4	13,955.3	12,915.9	38.8	16.0	-89.80	-1,470.7	518.0	640.7	586.4	54.28	11.805	
13,965.0	12,913.1	14,050.2	12,915.9	39.0	16.5	-90.09	-1,565.7	518.8	640.7	585.6	55.06	11.637	
13,992.9	12,912.2	14,078.1	12,915.9	39.0	16.6	-90.18	-1,593.5	519.0	640.7	585.4	55.29	11.588	
14,060.0	12,909.8	14,145.2	12,915.8	39.2	17.0	-90.38	-1,660.6	519.5	640.7	584.8	55.87	11.468	
14,155.0	12,906.6	14,240.1	12,915.8	39.4	17.6	-90.68	-1,755.5	520.3	640.7	584.0	56.71	11.298	
14,250.0	12,903.3	14,335.1	12,915.8	39.6	18.2	-90.97	-1,850.5	521.0	640.8	583.2	57.58	11.127	
14,345.0	12,900.0	14,430.0	12,915.8	39.8	18.8	-91.26	-1,945.4	521.7	640.8	582.3	58.48	10.957	
14,440.0	12,896.7	14,524.9	12,915.8	40.1	19.5	-91.56	-2,040.4	522.5	640.9	581.5	59.41	10.788	
14,535.0	12,893.4	14,619.9	12,915.8	40.4	20.1	-91.85	-2,135.3	523.2	641.0	580.6	60.36	10.620	

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - *BANDANA FEDERAL COM #601H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12523-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					
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
												Warning
14,630.0	12,890.1	14,714.8	12,915.8	40.6	20.8	-92.14	-2,230.2	524.0	641.1	579.8	61.32	10.454
14,725.0	12,886.8	14,809.8	12,915.8	40.9	21.5	-92.43	-2,325.2	524.7	641.2	578.9	62.31	10.290
14,820.0	12,883.5	14,904.7	12,915.7	41.2	22.2	-92.73	-2,420.1	525.4	641.3	578.0	63.32	10.128
14,915.0	12,880.2	14,999.7	12,915.7	41.5	22.9	-93.02	-2,515.1	526.2	641.5	577.1	64.35	9.969
15,010.0	12,877.0	15,094.6	12,915.7	41.9	23.6	-93.31	-2,610.0	526.9	641.7	576.3	65.40	9.812
15,105.0	12,873.7	15,189.5	12,915.7	42.2	24.3	-93.60	-2,704.9	527.7	641.8	575.4	66.46	9.658
15,200.0	12,870.4	15,284.5	12,915.7	42.6	25.0	-93.89	-2,799.9	528.4	642.1	574.5	67.53	9.507
15,295.0	12,867.1	15,379.4	12,915.7	42.9	25.7	-94.18	-2,894.8	529.2	642.3	573.6	68.63	9.359
15,390.0	12,863.8	15,474.4	12,915.7	43.3	26.5	-94.48	-2,989.8	529.9	642.5	572.8	69.73	9.214
15,485.0	12,860.5	15,569.3	12,915.7	43.6	27.2	-94.77	-3,084.7	530.6	642.8	571.9	70.85	9.072
15,580.0	12,857.2	15,664.3	12,915.6	44.0	28.0	-95.06	-3,179.6	531.4	643.0	571.1	71.98	8.933
15,675.0	12,853.9	15,759.2	12,915.6	44.4	28.7	-95.35	-3,274.6	532.1	643.3	570.2	73.13	8.797
15,770.0	12,850.7	15,854.2	12,915.6	44.8	29.5	-95.64	-3,369.5	532.9	643.6	569.3	74.28	8.665
15,865.0	12,847.4	15,949.1	12,915.6	45.2	30.2	-95.93	-3,464.5	533.6	643.9	568.5	75.45	8.535
15,960.0	12,844.1	16,044.0	12,915.6	45.6	31.0	-96.22	-3,559.4	534.3	644.3	567.7	76.63	8.408
16,055.0	12,840.8	16,139.0	12,915.6	46.1	31.7	-96.51	-3,654.4	535.1	644.6	566.8	77.81	8.285
16,150.0	12,837.5	16,233.9	12,915.6	46.5	32.5	-96.80	-3,749.3	535.8	645.0	566.0	79.01	8.164
16,245.0	12,834.2	16,328.9	12,915.6	46.9	33.3	-97.09	-3,844.2	536.6	645.4	565.2	80.21	8.046
16,340.0	12,830.9	16,423.8	12,915.5	47.4	34.0	-97.37	-3,939.2	537.3	645.8	564.4	81.43	7.931
16,435.0	12,827.6	16,518.8	12,915.5	47.8	34.8	-97.66	-4,034.1	538.0	646.2	563.6	82.65	7.819
16,530.0	12,824.3	16,613.7	12,915.5	48.3	35.6	-97.95	-4,129.1	538.8	646.6	562.8	83.88	7.709
16,625.0	12,821.1	16,708.6	12,915.5	48.8	36.3	-98.24	-4,224.0	539.5	647.1	562.0	85.12	7.602
16,720.0	12,817.8	16,803.6	12,915.5	49.2	37.1	-98.52	-4,318.9	540.3	647.6	561.2	86.37	7.498
16,815.0	12,814.5	16,898.5	12,915.5	49.7	37.9	-98.81	-4,413.9	541.0	648.1	560.4	87.62	7.396
16,910.0	12,811.2	16,993.5	12,915.5	50.2	38.7	-99.10	-4,508.8	541.8	648.6	559.7	88.88	7.297
17,005.0	12,807.9	17,088.4	12,915.5	50.7	39.5	-99.38	-4,603.8	542.5	649.1	558.9	90.15	7.200
17,100.0	12,804.6	17,183.4	12,915.4	51.2	40.3	-99.67	-4,698.7	543.2	649.6	558.2	91.42	7.106
17,195.0	12,801.3	17,278.3	12,915.4	51.7	41.0	-99.95	-4,793.6	544.0	650.1	557.4	92.70	7.013
17,290.0	12,798.0	17,373.2	12,915.4	52.2	41.8	-100.23	-4,888.6	544.7	650.7	556.7	93.99	6.923
17,385.0	12,794.7	17,468.2	12,915.4	52.7	42.6	-100.52	-4,983.5	545.5	651.3	556.0	95.28	6.836
17,480.0	12,791.5	17,563.1	12,915.4	53.2	43.4	-100.80	-5,078.5	546.2	651.9	555.3	96.58	6.750
17,575.0	12,788.2	17,658.1	12,915.4	53.7	44.2	-101.08	-5,173.4	546.9	652.5	554.6	97.88	6.666
17,670.0	12,784.9	17,753.0	12,915.4	54.2	45.0	-101.37	-5,268.3	547.7	653.1	553.9	99.19	6.585
17,765.0	12,781.6	17,848.0	12,915.4	54.8	45.8	-101.65	-5,363.3	548.4	653.8	553.3	100.50	6.505
17,860.0	12,778.3	17,942.9	12,915.3	55.3	46.6	-101.93	-5,458.2	549.2	654.4	552.6	101.81	6.428
17,955.0	12,775.0	18,037.9	12,915.3	55.9	47.4	-102.21	-5,553.2	549.9	655.1	552.0	103.14	6.352
18,050.0	12,771.7	18,132.8	12,915.3	56.4	48.2	-102.49	-5,648.1	550.7	655.8	551.3	104.46	6.278
18,145.0	12,768.4	18,227.7	12,915.3	56.9	49.0	-102.77	-5,743.0	551.4	656.5	550.7	105.79	6.206
18,240.0	12,765.2	18,322.7	12,915.3	57.5	49.7	-103.05	-5,838.0	552.1	657.2	550.1	107.13	6.135
18,335.0	12,761.9	18,417.6	12,915.3	58.0	50.5	-103.32	-5,932.9	552.9	658.0	549.5	108.46	6.066
18,430.0	12,758.6	18,512.6	12,915.3	58.6	51.3	-103.60	-6,027.9	553.6	658.7	548.9	109.81	5.999
18,525.0	12,755.3	18,607.5	12,915.3	59.2	52.1	-103.88	-6,122.8	554.4	659.5	548.3	111.15	5.933
18,620.0	12,752.0	18,702.5	12,915.2	59.7	52.9	-104.15	-6,217.7	555.1	660.3	547.8	112.50	5.869
18,715.0	12,748.7	18,797.4	12,915.2	60.3	53.7	-104.43	-6,312.7	555.8	661.1	547.2	113.85	5.806
18,810.0	12,745.4	18,892.3	12,915.2	60.9	54.5	-104.70	-6,407.6	556.6	661.9	546.7	115.21	5.745
18,905.0	12,742.1	18,987.3	12,915.2	61.4	55.3	-104.98	-6,502.6	557.3	662.7	546.1	116.57	5.685
19,000.0	12,738.8	19,082.2	12,915.2	62.0	56.1	-105.25	-6,597.5	558.1	663.6	545.6	117.93	5.627
19,095.0	12,735.6	19,177.2	12,915.2	62.6	56.9	-105.52	-6,692.5	558.8	664.4	545.1	119.29	5.570
19,190.0	12,732.3	19,272.1	12,915.2	63.2	57.7	-105.80	-6,787.4	559.5	665.3	544.6	120.66	5.514
19,285.0	12,729.0	19,367.1	12,915.2	63.8	58.5	-106.07	-6,882.3	560.3	666.2	544.2	122.03	5.459
19,380.0	12,725.7	19,462.0	12,915.1	64.4	59.3	-106.34	-6,977.3	561.0	667.1	543.7	123.41	5.406
19,475.0	12,722.4	19,556.9	12,915.1	65.0	60.2	-106.61	-7,072.2	561.8	668.0	543.2	124.78	5.353

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - *BANDANA FEDERAL COM #601H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12523-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (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)			
19,570.0	12,719.1	19,651.9	12,915.1	65.6	61.0	-106.88	-7,167.2	562.5	668.9	542.8	126.16	5.302	
19,665.0	12,715.8	19,746.8	12,915.1	66.2	61.8	-107.15	-7,262.1	563.3	669.9	542.4	127.54	5.252	
19,760.0	12,712.5	19,841.8	12,915.1	66.8	62.6	-107.41	-7,357.0	564.0	670.9	541.9	128.92	5.204	
19,855.0	12,709.2	19,936.7	12,915.1	67.4	63.4	-107.68	-7,452.0	564.7	671.8	541.5	130.31	5.156	
19,950.0	12,706.0	20,031.7	12,915.1	68.0	64.2	-107.95	-7,546.9	565.5	672.8	541.1	131.69	5.109	
20,045.0	12,702.7	20,126.6	12,915.1	68.6	65.0	-108.21	-7,641.9	566.2	673.8	540.8	133.08	5.063	
20,140.0	12,699.4	20,221.6	12,915.1	69.2	65.8	-108.47	-7,736.8	567.0	674.9	540.4	134.48	5.018	
20,235.0	12,696.1	20,316.5	12,915.0	69.8	66.6	-108.74	-7,831.7	567.7	675.9	540.0	135.87	4.975	
20,330.0	12,692.8	20,411.4	12,915.0	70.4	67.4	-109.00	-7,926.7	568.4	676.9	539.7	137.26	4.932	
20,425.0	12,689.5	20,506.4	12,915.0	71.0	68.2	-109.26	-8,021.6	569.2	678.0	539.3	138.66	4.890	
20,520.0	12,686.2	20,601.3	12,915.0	71.6	69.0	-109.52	-8,116.6	569.9	679.1	539.0	140.05	4.849	
20,527.1	12,686.0	20,606.4	12,915.0	71.7	69.1	-109.54	-8,121.6	570.0	679.2	539.0	140.15	4.846	

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - BANDANA FEDERAL COM #602H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12261-MWD+IFR1+MS								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 (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	1.1	1.1	3.0	3.0	-90.19	-0.1	-30.0	30.0					
95.0	95.0	96.1	96.1	3.0	3.0	-90.19	-0.1	-30.0	30.0	24.0	6.00	5.000		
190.0	190.0	191.1	191.1	3.0	3.0	-90.19	-0.1	-30.0	30.0	24.0	6.00	4.998		
285.0	285.0	286.1	286.1	3.0	3.0	-90.19	-0.1	-30.0	30.0	24.0	6.01	4.993		
380.0	380.0	381.1	381.1	3.0	3.0	-90.19	-0.1	-30.0	30.0	24.0	6.02	4.987		
475.0	475.0	476.1	476.1	3.0	3.0	-90.19	-0.1	-30.0	30.0	24.0	6.03	4.977		
570.0	570.0	571.1	571.1	3.1	3.1	-90.19	-0.1	-30.0	30.0	24.0	6.04	4.966		
665.0	665.0	666.1	666.1	3.1	3.1	-90.19	-0.1	-30.0	30.0	23.9	6.06	4.952		
760.0	760.0	761.1	761.1	3.1	3.1	-90.19	-0.1	-30.0	30.0	23.9	6.08	4.936		
855.0	855.0	856.1	856.1	3.2	3.2	-90.19	-0.1	-30.0	30.0	23.9	6.10	4.918		
950.0	950.0	951.1	951.1	3.2	3.2	-90.19	-0.1	-30.0	30.0	23.9	6.13	4.897		
1,045.0	1,045.0	1,046.1	1,046.1	3.3	3.3	-90.19	-0.1	-30.0	30.0	23.8	6.15	4.875		
1,140.0	1,140.0	1,141.1	1,141.1	3.3	3.3	-90.19	-0.1	-30.0	30.0	23.8	6.19	4.850		
1,235.0	1,235.0	1,236.1	1,236.1	3.4	3.4	-90.19	-0.1	-30.0	30.0	23.8	6.22	4.824		
1,330.0	1,330.0	1,331.1	1,331.1	3.4	3.4	-90.19	-0.1	-30.0	30.0	23.7	6.25	4.796		
1,425.0	1,425.0	1,426.1	1,426.1	3.5	3.5	-90.19	-0.1	-30.0	30.0	23.7	6.29	4.767		
1,520.0	1,520.0	1,521.1	1,521.1	3.6	3.6	-90.19	-0.1	-30.0	30.0	23.7	6.33	4.736		
1,615.0	1,615.0	1,616.1	1,616.1	3.6	3.6	-90.19	-0.1	-30.0	30.0	23.6	6.38	4.703		
1,710.0	1,710.0	1,711.1	1,711.1	3.7	3.7	-90.19	-0.1	-30.0	30.0	23.6	6.42	4.669		
1,805.0	1,805.0	1,806.1	1,806.1	3.8	3.8	-90.19	-0.1	-30.0	30.0	23.5	6.47	4.634		
1,900.0	1,900.0	1,901.1	1,901.1	3.9	3.9	-90.19	-0.1	-30.0	30.0	23.5	6.52	4.598		
1,995.0	1,995.0	1,996.1	1,996.1	3.9	3.9	-90.19	-0.1	-30.0	30.0	23.4	6.58	4.561 CC, ES		
2,090.0	2,090.0	2,090.2	2,090.2	4.1	4.0	71.00	-0.7	-31.3	30.8	24.0	6.86	4.496		
2,185.0	2,184.9	2,184.2	2,184.1	4.6	4.2	74.86	-2.6	-35.4	33.5	25.8	7.68	4.363 SF		
2,280.0	2,279.6	2,278.1	2,277.6	5.2	4.9	80.12	-5.8	-42.2	38.3	29.9	8.39	4.565		
2,375.0	2,374.0	2,371.7	2,370.6	5.6	5.4	84.46	-10.3	-51.8	45.5	36.6	8.96	5.080		
2,470.0	2,468.5	2,464.9	2,462.9	5.7	6.0	85.52	-16.0	-64.1	55.2	45.7	9.59	5.763		
2,565.0	2,563.0	2,557.6	2,554.1	5.9	6.5	84.55	-22.9	-79.1	67.3	57.0	10.28	6.544		
2,660.0	2,657.5	2,650.8	2,645.3	6.0	6.9	82.71	-31.0	-96.3	81.4	70.4	10.95	7.433		
2,755.0	2,752.0	2,744.6	2,737.1	6.2	7.1	81.28	-39.2	-114.0	95.8	84.3	11.49	8.339		
2,850.0	2,846.4	2,838.5	2,828.9	6.4	7.3	80.23	-47.4	-131.7	110.2	98.3	11.97	9.208		
2,945.0	2,940.9	2,932.4	2,920.7	6.6	7.5	79.42	-55.6	-149.4	124.7	112.2	12.47	10.001		
3,040.0	3,035.4	3,026.3	3,012.6	6.8	7.7	78.78	-63.9	-167.1	139.2	126.2	12.98	10.725		
3,135.0	3,129.9	3,120.1	3,104.4	7.0	7.9	78.26	-72.1	-184.8	153.7	140.2	13.50	11.383		
3,230.0	3,224.3	3,214.0	3,196.2	7.3	8.1	77.83	-80.3	-202.5	168.2	154.2	14.04	11.982		
3,325.0	3,318.8	3,307.9	3,288.0	7.5	8.3	77.47	-88.6	-220.2	182.7	168.1	14.59	12.527		
3,420.0	3,413.3	3,401.8	3,379.9	7.8	8.5	77.16	-96.8	-237.9	197.3	182.1	15.15	13.023		
3,515.0	3,507.8	3,495.6	3,471.7	8.0	8.8	76.89	-105.0	-255.6	211.8	196.1	15.72	13.474		
3,610.0	3,602.3	3,589.5	3,563.5	8.3	9.0	76.66	-113.3	-273.3	226.3	210.0	16.30	13.886		
3,705.0	3,696.7	3,683.4	3,655.3	8.6	9.3	76.45	-121.5	-291.0	240.9	224.0	16.89	14.262		
3,800.0	3,791.2	3,777.3	3,747.2	8.8	9.6	76.27	-129.7	-308.7	255.4	237.9	17.49	14.606		
3,895.0	3,885.7	3,871.2	3,839.0	9.1	9.9	76.11	-138.0	-326.4	270.0	251.9	18.09	14.921		
3,990.0	3,980.2	3,965.0	3,930.8	9.4	10.1	75.97	-146.2	-344.1	284.5	265.8	18.71	15.210		
4,085.0	4,074.7	4,058.9	4,022.6	9.7	10.4	75.84	-154.4	-361.8	299.1	279.7	19.32	15.475		
4,180.0	4,169.1	4,152.8	4,114.5	10.0	10.7	75.72	-162.7	-379.5	313.6	293.7	19.95	15.720		
4,275.0	4,263.6	4,246.7	4,206.3	10.3	11.0	75.61	-170.9	-397.2	328.2	307.6	20.58	15.946		
4,370.0	4,358.1	4,340.5	4,298.1	10.6	11.3	75.51	-179.1	-414.9	342.7	321.5	21.21	16.156		
4,465.0	4,452.6	4,434.4	4,389.9	10.9	11.6	75.42	-187.4	-432.6	357.3	335.4	21.85	16.348		
4,560.0	4,547.1	4,528.3	4,481.8	11.2	11.9	75.34	-195.6	-450.3	371.8	349.3	22.50	16.527		
4,655.0	4,641.5	4,622.2	4,573.6	11.5	12.2	75.26	-203.8	-468.0	386.4	363.2	23.14	16.694		
4,750.0	4,736.0	4,716.0	4,665.4	11.9	12.5	75.19	-212.1	-485.7	400.9	377.1	23.80	16.849		
4,845.0	4,830.5	4,809.9	4,757.2	12.2	12.9	75.12	-220.3	-503.4	415.5	391.0	24.45	16.993		

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - BANDANA FEDERAL COM #602H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12261-MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
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)	Minimum Separation (usft)	Separation Factor	Warning
4,940.0	4,925.0	4,903.8	4,849.1	12.5	13.2	75.06	-228.5	-521.1	430.0	404.9	25.11	17.128	
5,035.0	5,019.4	4,997.7	4,940.9	12.8	13.5	75.00	-236.8	-538.8	444.6	418.8	25.77	17.254	
5,130.0	5,113.9	5,091.6	5,032.7	13.1	13.8	74.95	-245.0	-556.5	459.2	432.7	26.43	17.372	
5,225.0	5,208.4	5,185.4	5,124.5	13.5	14.2	74.89	-253.2	-574.2	473.7	446.6	27.10	17.483	
5,320.0	5,302.9	5,279.3	5,216.4	13.8	14.5	74.85	-261.5	-591.9	488.3	460.5	27.76	17.587	
5,415.0	5,397.4	5,373.2	5,308.2	14.1	14.8	74.80	-269.7	-609.6	502.8	474.4	28.43	17.684	
5,510.0	5,491.8	5,467.1	5,400.0	14.4	15.1	74.77	-277.9	-627.3	517.4	488.3	29.11	17.776	
5,605.0	5,586.4	5,560.9	5,491.8	14.8	15.5	74.78	-286.1	-645.0	532.2	502.4	29.78	17.871	
5,700.0	5,681.1	5,654.6	5,583.5	15.1	15.8	74.64	-294.4	-662.7	547.4	517.0	30.46	17.974	
5,795.0	5,775.9	5,748.2	5,675.1	15.4	16.1	74.36	-302.6	-680.3	563.1	531.9	31.13	18.086	
5,890.0	5,870.8	5,841.7	5,766.5	15.7	16.5	73.96	-310.8	-697.9	579.2	547.4	31.80	18.211	
5,985.0	5,965.8	5,944.4	5,867.1	16.1	16.8	73.41	-319.4	-716.5	595.1	562.5	32.53	18.295	
6,080.0	6,060.8	6,047.5	5,968.5	16.3	17.2	72.82	-327.3	-733.4	610.0	576.7	33.22	18.362	
6,175.0	6,155.8	6,151.2	6,070.8	16.6	17.6	-87.75	-334.5	-748.8	623.8	589.9	33.90	18.402	
6,270.0	6,250.8	6,255.4	6,173.9	16.9	17.9	-88.38	-340.9	-762.6	636.2	601.6	34.57	18.404	
6,365.0	6,345.8	6,360.1	6,277.8	17.2	18.3	-88.91	-346.5	-774.8	647.1	611.8	35.23	18.368	
6,460.0	6,440.8	6,465.4	6,382.3	17.5	18.7	-89.36	-351.4	-785.2	656.5	620.6	35.88	18.295	
6,555.0	6,535.8	6,571.0	6,487.5	17.8	19.0	-89.72	-355.4	-794.0	664.3	627.8	36.53	18.187	
6,650.0	6,630.8	6,676.9	6,593.2	18.1	19.4	-90.00	-358.7	-801.0	670.6	633.4	37.16	18.045	
6,745.0	6,725.8	6,783.1	6,699.2	18.4	19.7	-90.21	-361.1	-806.2	675.3	637.5	37.79	17.871	
6,840.0	6,820.8	6,889.4	6,805.5	18.7	20.1	-90.34	-362.7	-809.7	678.4	640.0	38.40	17.665	
6,935.0	6,915.8	6,995.9	6,911.9	19.0	20.4	-90.41	-363.5	-811.3	679.9	640.9	39.01	17.430	
7,030.0	7,010.8	7,095.9	7,011.9	19.3	20.7	-90.41	-363.6	-811.5	680.0	640.4	39.58	17.183	
7,125.0	7,105.8	7,190.9	7,106.9	19.6	21.0	-90.41	-363.6	-811.5	680.0	639.9	40.15	16.937	
7,220.0	7,200.8	7,285.9	7,201.9	19.9	21.3	-90.41	-363.6	-811.5	680.0	639.3	40.73	16.695	
7,315.0	7,295.8	7,380.9	7,296.9	20.2	21.5	-90.41	-363.6	-811.5	680.0	638.7	41.32	16.459	
7,410.0	7,390.8	7,475.9	7,391.9	20.5	21.8	-90.41	-363.6	-811.5	680.0	638.1	41.90	16.228	
7,505.0	7,485.8	7,570.9	7,486.9	20.8	22.1	-90.41	-363.6	-811.5	680.0	637.5	42.49	16.002	
7,600.0	7,580.8	7,665.9	7,581.9	21.2	22.4	-90.41	-363.6	-811.5	680.0	636.9	43.09	15.782	
7,695.0	7,675.8	7,760.9	7,676.9	21.5	22.7	-90.41	-363.6	-811.5	680.0	636.3	43.68	15.567	
7,790.0	7,770.8	7,855.9	7,771.9	21.8	23.0	-90.41	-363.6	-811.5	680.0	635.7	44.28	15.357	
7,885.0	7,865.8	7,950.9	7,866.9	22.1	23.2	-90.41	-363.6	-811.5	680.0	635.1	44.88	15.151	
7,980.0	7,960.8	8,045.9	7,961.9	22.4	23.5	-90.41	-363.6	-811.5	680.0	634.5	45.48	14.951	
8,075.0	8,055.8	8,140.9	8,056.9	22.7	23.8	-90.41	-363.6	-811.5	680.0	633.9	46.09	14.754	
8,170.0	8,150.8	8,235.9	8,151.9	23.0	24.1	-90.41	-363.6	-811.5	680.0	633.3	46.70	14.563	
8,265.0	8,245.8	8,330.9	8,246.9	23.3	24.4	-90.41	-363.6	-811.5	680.0	632.7	47.30	14.375	
8,360.0	8,340.8	8,425.9	8,341.9	23.7	24.7	-90.41	-363.6	-811.5	680.0	632.1	47.92	14.192	
8,455.0	8,435.8	8,520.9	8,436.9	24.0	25.0	-90.41	-363.6	-811.5	680.0	631.5	48.53	14.013	
8,550.0	8,530.8	8,615.9	8,531.9	24.3	25.3	-90.41	-363.6	-811.5	680.0	630.9	49.14	13.838	
8,645.0	8,625.8	8,710.9	8,626.9	24.6	25.6	-90.41	-363.6	-811.5	680.0	630.3	49.76	13.666	
8,740.0	8,720.8	8,805.9	8,721.9	24.9	25.9	-90.41	-363.6	-811.5	680.0	629.6	50.38	13.499	
8,835.0	8,815.8	8,900.9	8,816.9	25.3	26.2	-90.41	-363.6	-811.5	680.0	629.0	51.00	13.335	
8,930.0	8,910.8	8,995.9	8,911.9	25.6	26.5	-90.41	-363.6	-811.5	680.0	628.4	51.62	13.174	
9,025.0	9,005.8	9,090.9	9,006.9	25.9	26.8	-90.41	-363.6	-811.5	680.0	627.8	52.24	13.017	
9,120.0	9,100.8	9,185.9	9,101.9	26.2	27.1	-90.41	-363.6	-811.5	680.0	627.2	52.86	12.864	
9,215.0	9,195.8	9,280.9	9,196.9	26.5	27.4	-90.41	-363.6	-811.5	680.0	626.5	53.49	12.713	
9,310.0	9,290.8	9,375.9	9,291.9	26.9	27.7	-90.41	-363.6	-811.5	680.0	625.9	54.11	12.566	
9,405.0	9,385.8	9,470.9	9,386.9	27.2	28.0	-90.41	-363.6	-811.5	680.0	625.3	54.74	12.422	
9,500.0	9,480.8	9,565.9	9,481.9	27.5	28.3	-90.41	-363.6	-811.5	680.0	624.6	55.37	12.281	
9,595.0	9,575.8	9,660.9	9,576.9	27.8	28.6	-90.41	-363.6	-811.5	680.0	624.0	56.00	12.143	
9,690.0	9,670.8	9,755.9	9,671.9	28.2	28.9	-90.41	-363.6	-811.5	680.0	623.4	56.63	12.007	
9,785.0	9,765.8	9,850.9	9,766.9	28.5	29.2	-90.41	-363.6	-811.5	680.0	622.8	57.27	11.875	

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - BANDANA FEDERAL COM #602H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12261-MWD+IFR1+MS								Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,880.0	9,860.8	9,945.9	9,861.9	28.8	29.5	-90.41	-363.6	-811.5	680.0	622.1	57.90	11.745		
9,975.0	9,955.8	10,040.9	9,956.9	29.1	29.9	-90.41	-363.6	-811.5	680.0	621.5	58.53	11.617		
10,070.0	10,050.8	10,135.9	10,051.9	29.5	30.2	-90.41	-363.6	-811.5	680.0	620.8	59.17	11.493		
10,165.0	10,145.8	10,230.9	10,146.9	29.8	30.5	-90.41	-363.6	-811.5	680.0	620.2	59.81	11.370		
10,260.0	10,240.8	10,325.9	10,241.9	30.1	30.8	-90.41	-363.6	-811.5	680.0	619.6	60.44	11.250		
10,355.0	10,335.8	10,420.9	10,336.9	30.4	31.1	-90.41	-363.6	-811.5	680.0	618.9	61.08	11.133		
10,450.0	10,430.8	10,515.9	10,431.9	30.8	31.4	-90.41	-363.6	-811.5	680.0	618.3	61.72	11.017		
10,545.0	10,525.8	10,610.9	10,526.9	31.1	31.7	-90.41	-363.6	-811.5	680.0	617.7	62.36	10.904		
10,640.0	10,620.8	10,705.9	10,621.9	31.4	32.0	-90.41	-363.6	-811.5	680.0	617.0	63.00	10.793		
10,735.0	10,715.8	10,800.9	10,716.9	31.7	32.4	-90.41	-363.6	-811.5	680.0	616.4	63.65	10.684		
10,830.0	10,810.8	10,895.9	10,811.9	32.1	32.7	-90.41	-363.6	-811.5	680.0	615.7	64.29	10.577		
10,925.0	10,905.8	10,990.9	10,906.9	32.4	33.0	-90.41	-363.6	-811.5	680.0	615.1	64.93	10.473		
11,020.0	11,000.8	11,085.9	11,001.9	32.7	33.3	-90.41	-363.6	-811.5	680.0	614.4	65.58	10.370		
11,115.0	11,095.8	11,180.9	11,096.9	33.1	33.6	-90.41	-363.6	-811.5	680.0	613.8	66.22	10.269		
11,210.0	11,190.8	11,275.9	11,191.9	33.4	33.9	-90.41	-363.6	-811.5	680.0	613.1	66.87	10.169		
11,305.0	11,285.8	11,370.9	11,286.9	33.7	34.3	-90.41	-363.6	-811.5	680.0	612.5	67.52	10.072		
11,400.0	11,380.8	11,465.9	11,381.9	34.0	34.6	-90.41	-363.6	-811.5	680.0	611.9	68.16	9.976		
11,495.0	11,475.8	11,560.9	11,476.9	34.4	34.9	-90.41	-363.6	-811.5	680.0	611.2	68.81	9.882		
11,590.0	11,570.8	11,655.9	11,571.9	34.7	35.2	-90.41	-363.6	-811.5	680.0	610.6	69.46	9.790		
11,685.0	11,665.8	11,750.9	11,666.9	35.0	35.5	-90.41	-363.6	-811.5	680.0	609.9	70.11	9.700		
11,780.0	11,760.8	11,845.9	11,761.9	35.4	35.9	-90.41	-363.6	-811.5	680.0	609.3	70.76	9.611		
11,875.0	11,855.8	11,940.9	11,856.9	35.7	36.2	-90.41	-363.6	-811.5	680.0	608.6	71.41	9.523		
11,970.0	11,950.8	12,035.9	11,951.9	36.0	36.5	-90.41	-363.6	-811.5	680.0	608.0	72.06	9.437		
12,065.0	12,045.8	12,130.9	12,046.9	36.3	36.8	-90.41	-363.6	-811.5	680.0	607.3	72.71	9.352		
12,160.0	12,140.8	12,225.9	12,141.9	36.7	37.1	-90.41	-363.6	-811.5	680.0	606.7	73.32	9.275		
12,231.0	12,211.8	12,296.9	12,212.9	36.9	37.2	-90.53	-365.0	-811.5	680.0	606.4	73.63	9.236		
12,255.0	12,235.8	12,320.7	12,236.6	37.0	37.2	-90.73	-367.4	-811.5	680.0	606.3	73.72	9.225		
12,350.0	12,330.8	12,411.1	12,324.7	37.3	37.2	-92.39	-387.1	-811.3	680.4	606.3	74.12	9.180		
12,445.0	12,425.8	12,491.7	12,398.8	37.6	37.2	-95.02	-418.4	-811.0	682.7	608.2	74.50	9.164		
12,540.0	12,520.6	12,561.9	12,458.4	37.7	37.2	82.05	-455.5	-810.7	688.4	613.8	74.67	9.219		
12,635.0	12,613.1	12,628.4	12,509.1	37.7	37.2	78.60	-498.3	-810.3	696.5	621.9	74.68	9.326		
12,730.0	12,699.5	12,692.5	12,552.0	37.7	37.3	75.46	-545.8	-809.8	705.7	631.2	74.58	9.463		
12,825.0	12,776.5	12,754.9	12,587.3	37.8	37.3	72.73	-597.3	-809.3	715.0	640.6	74.38	9.613		
12,920.0	12,841.1	12,816.1	12,615.1	37.8	37.4	70.50	-651.8	-808.8	723.4	649.2	74.15	9.756		
13,015.0	12,890.7	12,875.0	12,635.1	37.9	37.4	68.84	-707.1	-808.3	730.1	656.2	73.93	9.876		
13,110.0	12,923.3	12,936.4	12,648.4	37.9	37.5	67.73	-767.0	-807.8	734.7	660.9	73.82	9.952		
13,205.0	12,937.6	13,000.0	12,654.1	38.0	37.5	67.25	-830.3	-807.2	736.8	662.9	73.85	9.977		
13,300.0	12,936.1	13,073.3	12,652.5	38.1	37.6	67.25	-903.6	-806.5	736.6	662.6	74.01	9.953		
13,395.0	12,932.9	13,168.3	12,649.6	38.1	37.8	67.28	-998.5	-805.7	736.4	662.1	74.26	9.916		
13,490.0	12,929.6	13,263.3	12,646.7	38.2	37.9	67.30	-1,093.5	-804.8	736.1	661.6	74.54	9.875		
13,585.0	12,926.3	13,358.3	12,643.8	38.3	38.1	67.32	-1,188.4	-803.9	735.9	661.0	74.85	9.831		
13,680.0	12,923.0	13,453.3	12,640.8	38.5	38.2	67.34	-1,283.4	-803.0	735.6	660.4	75.18	9.784		
13,775.0	12,919.7	13,548.3	12,637.9	38.6	38.4	67.37	-1,378.3	-802.2	735.3	659.8	75.54	9.734		
13,870.0	12,916.4	13,643.3	12,635.0	38.8	38.6	67.39	-1,473.3	-801.3	735.1	659.2	75.93	9.681		
13,965.0	12,913.1	13,738.3	12,632.1	39.0	38.8	67.41	-1,568.2	-800.4	734.8	658.5	76.34	9.625		
14,060.0	12,909.8	13,833.3	12,629.1	39.2	39.0	67.43	-1,663.2	-799.5	734.6	657.8	76.78	9.567		
14,155.0	12,906.6	13,928.3	12,626.2	39.4	39.3	67.46	-1,758.1	-798.7	734.3	657.1	77.24	9.507		
14,250.0	12,903.3	14,023.3	12,623.3	39.6	39.5	67.48	-1,853.1	-797.8	734.1	656.3	77.73	9.444		
14,345.0	12,900.0	14,118.3	12,620.4	39.8	39.8	67.50	-1,948.0	-796.9	733.8	655.6	78.24	9.379		
14,440.0	12,896.7	14,213.3	12,617.5	40.1	40.0	67.52	-2,043.0	-796.0	733.6	654.8	78.78	9.312		
14,535.0	12,893.4	14,308.3	12,614.5	40.4	40.3	67.55	-2,137.9	-795.2	733.3	654.0	79.33	9.243		
14,630.0	12,890.1	14,403.3	12,611.6	40.6	40.6	67.57	-2,232.9	-794.3	733.1	653.1	79.91	9.173		

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - BANDANA FEDERAL COM #602H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12261-MWD+IFR1+MS								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 (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,725.0	12,886.8	14,498.3	12,608.7	40.9	40.9	67.59	-2,327.8	-793.4	732.8	652.3	80.52	9.101		
14,820.0	12,883.5	14,593.3	12,605.8	41.2	41.2	67.62	-2,422.8	-792.5	732.6	651.4	81.14	9.028		
14,915.0	12,880.2	14,688.3	12,602.8	41.5	41.5	67.64	-2,517.7	-791.7	732.3	650.5	81.79	8.954		
15,010.0	12,877.0	14,783.3	12,599.9	41.9	41.9	67.66	-2,612.7	-790.8	732.0	649.6	82.45	8.878		
15,105.0	12,873.7	14,878.3	12,597.0	42.2	42.2	67.68	-2,707.6	-789.9	731.8	648.7	83.14	8.802		
15,200.0	12,870.4	14,973.3	12,594.1	42.6	42.5	67.71	-2,802.6	-789.0	731.5	647.7	83.84	8.725		
15,295.0	12,867.1	15,068.3	12,591.2	42.9	42.9	67.73	-2,897.5	-788.2	731.3	646.7	84.57	8.647		
15,390.0	12,863.8	15,163.3	12,588.2	43.3	43.3	67.75	-2,992.5	-787.3	731.0	645.7	85.31	8.569		
15,485.0	12,860.5	15,258.3	12,585.3	43.6	43.6	67.78	-3,087.4	-786.4	730.8	644.7	86.07	8.490		
15,580.0	12,857.2	15,353.3	12,582.4	44.0	44.0	67.80	-3,182.4	-785.5	730.5	643.7	86.85	8.411		
15,675.0	12,853.9	15,448.3	12,579.5	44.4	44.4	67.82	-3,277.3	-784.7	730.3	642.6	87.65	8.332		
15,770.0	12,850.7	15,543.3	12,576.5	44.8	44.8	67.84	-3,372.3	-783.8	730.0	641.6	88.46	8.252		
15,865.0	12,847.4	15,638.3	12,573.6	45.2	45.2	67.87	-3,467.2	-782.9	729.8	640.5	89.29	8.173		
15,960.0	12,844.1	15,733.3	12,570.7	45.6	45.6	67.89	-3,562.2	-782.0	729.5	639.4	90.14	8.093		
16,055.0	12,840.8	15,828.3	12,567.8	46.1	46.1	67.91	-3,657.1	-781.2	729.3	638.3	91.00	8.014		
16,150.0	12,837.5	15,923.3	12,564.9	46.5	46.5	67.94	-3,752.1	-780.3	729.0	637.1	91.87	7.935		
16,245.0	12,834.2	16,018.3	12,561.9	46.9	46.9	67.96	-3,847.0	-779.4	728.8	636.0	92.76	7.856		
16,340.0	12,830.9	16,113.3	12,559.0	47.4	47.4	67.98	-3,942.0	-778.5	728.5	634.8	93.67	7.778		
16,435.0	12,827.6	16,208.3	12,556.1	47.8	47.8	68.01	-4,036.9	-777.7	728.3	633.7	94.59	7.699		
16,530.0	12,824.3	16,303.3	12,553.2	48.3	48.3	68.03	-4,131.9	-776.8	728.0	632.5	95.52	7.622		
16,625.0	12,821.1	16,398.3	12,550.2	48.8	48.8	68.05	-4,226.8	-775.9	727.8	631.3	96.46	7.545		
16,720.0	12,817.8	16,493.3	12,547.3	49.2	49.2	68.08	-4,321.8	-775.0	727.5	630.1	97.42	7.468		
16,815.0	12,814.5	16,588.3	12,544.4	49.7	49.7	68.10	-4,416.7	-774.2	727.3	628.9	98.39	7.392		
16,910.0	12,811.2	16,683.3	12,541.5	50.2	50.2	68.12	-4,511.7	-773.3	727.0	627.6	99.37	7.316		
17,005.0	12,807.9	16,778.3	12,538.6	50.7	50.7	68.14	-4,606.6	-772.4	726.8	626.4	100.36	7.241		
17,100.0	12,804.6	16,873.3	12,535.6	51.2	51.2	68.17	-4,701.6	-771.5	726.5	625.1	101.36	7.167		
17,195.0	12,801.3	16,968.3	12,532.7	51.7	51.7	68.19	-4,796.5	-770.7	726.3	623.9	102.38	7.094		
17,290.0	12,798.0	17,063.3	12,529.8	52.2	52.2	68.21	-4,891.5	-769.8	726.0	622.6	103.40	7.021		
17,385.0	12,794.7	17,158.3	12,526.9	52.7	52.7	68.24	-4,986.4	-768.9	725.8	621.3	104.44	6.949		
17,480.0	12,791.5	17,253.3	12,523.9	53.2	53.2	68.26	-5,081.4	-768.0	725.5	620.0	105.48	6.878		
17,575.0	12,788.2	17,348.3	12,521.0	53.7	53.7	68.28	-5,176.3	-767.2	725.3	618.7	106.54	6.807		
17,670.0	12,784.9	17,443.3	12,518.1	54.2	54.3	68.31	-5,271.3	-766.3	725.0	617.4	107.60	6.738		
17,765.0	12,781.6	17,538.3	12,515.2	54.8	54.8	68.33	-5,366.2	-765.4	724.8	616.1	108.68	6.669		
17,860.0	12,778.3	17,633.3	12,512.3	55.3	55.3	68.35	-5,461.2	-764.6	724.5	614.8	109.76	6.601		
17,955.0	12,775.0	17,728.3	12,509.3	55.9	55.9	68.38	-5,556.1	-763.7	724.3	613.4	110.85	6.534		
18,050.0	12,771.7	17,823.3	12,506.4	56.4	56.4	68.40	-5,651.1	-762.8	724.0	612.1	111.94	6.468		
18,145.0	12,768.4	17,918.3	12,503.5	56.9	57.0	68.42	-5,746.0	-761.9	723.8	610.7	113.05	6.402		
18,240.0	12,765.2	18,013.3	12,500.6	57.5	57.5	68.45	-5,841.0	-761.1	723.5	609.3	114.17	6.337		
18,335.0	12,761.9	18,108.3	12,497.6	58.0	58.1	68.47	-5,935.9	-760.2	723.3	608.0	115.29	6.274		
18,430.0	12,758.6	18,203.3	12,494.7	58.6	58.6	68.49	-6,030.9	-759.3	723.0	606.6	116.42	6.211		
18,525.0	12,755.3	18,298.3	12,491.8	59.2	59.2	68.52	-6,125.8	-758.4	722.8	605.2	117.55	6.149		
18,620.0	12,752.0	18,393.3	12,488.9	59.7	59.7	68.54	-6,220.8	-757.6	722.5	603.8	118.69	6.087		
18,715.0	12,748.7	18,488.3	12,485.9	60.3	60.3	68.56	-6,315.7	-756.7	722.3	602.4	119.84	6.027		
18,810.0	12,745.4	18,583.3	12,483.0	60.9	60.9	68.59	-6,410.7	-755.8	722.0	601.0	121.00	5.967		
18,905.0	12,742.1	18,678.3	12,480.1	61.4	61.5	68.61	-6,505.6	-754.9	721.8	599.6	122.16	5.908		
19,000.0	12,738.8	18,773.3	12,477.2	62.0	62.0	68.64	-6,600.6	-754.1	721.5	598.2	123.33	5.850		
19,095.0	12,735.6	18,868.3	12,474.3	62.6	62.6	68.66	-6,695.5	-753.2	721.3	596.8	124.51	5.793		
19,190.0	12,732.3	18,963.3	12,471.3	63.2	63.2	68.68	-6,790.5	-752.3	721.0	595.3	125.69	5.737		
19,285.0	12,729.0	19,058.3	12,468.4	63.8	63.8	68.71	-6,885.4	-751.4	720.8	593.9	126.87	5.681		
19,380.0	12,725.7	19,153.3	12,465.5	64.4	64.4	68.73	-6,980.4	-750.6	720.5	592.5	128.07	5.626		
19,475.0	12,722.4	19,248.3	12,462.6	65.0	65.0	68.75	-7,075.3	-749.7	720.3	591.0	129.26	5.572		
19,570.0	12,719.1	19,343.3	12,459.6	65.6	65.6	68.78	-7,170.3	-748.8	720.0	589.6	130.47	5.519		

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - BANDANA FEDERAL COM #602H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12261-MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,665.0	12,715.8	19,438.3	12,456.7	66.2	66.2	68.80	-7,265.2	-747.9	719.8	588.1	131.67	5.467	
19,760.0	12,712.5	19,533.2	12,453.8	66.8	66.8	68.82	-7,360.2	-747.1	719.5	586.7	132.88	5.415	
19,855.0	12,709.2	19,628.2	12,450.9	67.4	67.4	68.85	-7,455.1	-746.2	719.3	585.2	134.10	5.364	
19,950.0	12,706.0	19,723.2	12,448.0	68.0	68.0	68.87	-7,550.1	-745.3	719.1	583.7	135.32	5.314	
20,045.0	12,702.7	19,818.2	12,445.0	68.6	68.6	68.89	-7,645.0	-744.4	718.8	582.3	136.55	5.264	
20,140.0	12,699.4	19,913.2	12,442.1	69.2	69.2	68.92	-7,740.0	-743.6	718.6	580.8	137.78	5.215	
20,235.0	12,696.1	20,008.2	12,439.2	69.8	69.8	68.94	-7,834.9	-742.7	718.3	579.3	139.02	5.167	
20,330.0	12,692.8	20,103.2	12,436.3	70.4	70.4	68.97	-7,929.9	-741.8	718.1	577.8	140.25	5.120	
20,425.0	12,689.5	20,198.2	12,433.3	71.0	71.0	68.99	-8,024.8	-740.9	717.8	576.3	141.50	5.073	
20,520.0	12,686.2	20,293.2	12,430.4	71.6	71.6	69.01	-8,119.8	-740.1	717.6	574.8	142.74	5.027	
20,527.1	12,686.0	20,300.4	12,430.2	71.7	71.7	69.02	-8,126.9	-740.0	717.6	574.7	142.83	5.024	

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - JAMAICA 12 FEDERAL #1 (P&A) - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 315-INC-ONLY													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (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)				
12,920.0	12,841.1	12,837.3	12,831.1	37.8	338.2	-61.93	-1,193.4	614.2	985.4	610.4	375.06	2.627		
13,015.0	12,890.7	12,886.8	12,880.7	37.9	339.8	-71.41	-1,193.4	614.2	933.9	557.2	376.72	2.479		
13,110.0	12,923.3	12,919.4	12,913.3	37.9	340.9	-80.79	-1,193.4	614.2	882.3	504.4	377.87	2.335		
13,205.0	12,937.6	12,933.8	12,927.6	38.0	341.3	-88.42	-1,193.4	614.2	834.8	456.3	378.47	2.206		
13,300.0	12,936.1	12,932.3	12,926.1	38.1	341.3	-90.79	-1,193.4	614.2	795.1	416.5	378.60	2.100		
13,395.0	12,932.9	12,929.0	12,922.9	38.1	341.2	-90.53	-1,193.4	614.2	765.2	386.5	378.72	2.021		
13,490.0	12,929.6	12,925.7	12,919.6	38.2	341.1	-90.28	-1,193.4	614.2	746.3	367.4	378.88	1.970 Advise and Monitor		
13,585.0	12,926.3	12,922.4	12,916.3	38.3	341.0	-90.02	-1,193.4	614.2	739.1	360.1	379.05	1.950 Advise and Monitor		
13,593.4	12,926.0	12,922.1	12,916.0	38.3	341.0	-90.00	-1,193.4	614.2	739.1	360.0	379.07	1.950 Advise and Monitor, CC, ES, SF		
13,680.0	12,923.0	12,919.1	12,913.0	38.5	340.9	-89.77	-1,193.4	614.2	744.1	364.9	379.22	1.962 Advise and Monitor		
13,775.0	12,919.7	12,915.8	12,909.7	38.6	340.8	-89.51	-1,193.4	614.2	761.1	381.7	379.36	2.006		
13,870.0	12,916.4	12,912.6	12,906.4	38.8	340.7	-89.26	-1,193.4	614.2	789.1	409.7	379.44	2.080		
13,965.0	12,913.1	12,909.3	12,903.1	39.0	340.6	-89.00	-1,193.4	614.2	827.2	447.7	379.48	2.180		
14,060.0	12,909.8	12,906.0	12,899.8	39.2	340.5	-88.75	-1,193.4	614.2	873.9	494.5	379.47	2.303		
14,155.0	12,906.6	12,902.7	12,896.6	39.4	340.4	-88.49	-1,193.4	614.2	928.1	548.7	379.42	2.446		
14,250.0	12,903.3	12,899.4	12,893.3	39.6	340.2	-88.24	-1,193.4	614.2	988.4	609.1	379.34	2.606		

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #601H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12018-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 +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	2.1	2.1	3.0	4.2	175.74	-532.5	39.7	534.0				
95.0	95.0	93.6	93.6	3.0	4.2	175.69	-532.8	40.2	534.3	527.1	7.24	73.769	
190.0	190.0	188.6	188.6	3.0	4.2	175.61	-533.4	40.9	534.9	527.7	7.25	73.798	
285.0	285.0	283.3	283.3	3.0	4.3	175.55	-534.0	41.6	535.6	528.4	7.26	73.752	
380.0	380.0	377.9	377.9	3.0	4.3	175.52	-534.7	41.9	536.3	529.0	7.28	73.620	
475.0	475.0	472.3	472.2	3.0	4.3	175.48	-535.4	42.3	537.1	529.8	7.32	73.425	
570.0	570.0	569.0	569.0	3.1	4.3	175.43	-536.0	42.8	537.8	530.4	7.35	73.133	
665.0	665.0	663.5	663.5	3.1	4.3	175.42	-536.6	43.0	538.4	531.0	7.40	72.752	
760.0	760.0	757.8	757.7	3.1	4.3	175.42	-537.3	43.1	539.0	531.6	7.46	72.300	
855.0	855.0	852.1	852.0	3.2	4.4	175.42	-538.1	43.1	539.9	532.4	7.52	71.802	
950.0	950.0	947.4	947.4	3.2	4.4	175.41	-539.0	43.3	540.8	533.2	7.59	71.245	
1,045.0	1,045.0	1,042.2	1,042.2	3.3	4.4	175.38	-539.8	43.6	541.6	533.9	7.67	70.625	
1,140.0	1,140.0	1,132.2	1,132.1	3.3	4.5	175.26	-540.8	44.8	542.8	535.0	7.75	70.071	
1,235.0	1,235.0	1,221.8	1,221.6	3.4	4.5	174.70	-542.5	50.4	545.1	537.3	7.82	69.701	
1,330.0	1,330.0	1,316.6	1,315.9	3.4	4.5	173.75	-544.4	59.7	547.9	540.0	7.90	69.350	
1,425.0	1,425.0	1,411.2	1,410.0	3.5	4.5	172.78	-546.2	69.2	550.8	542.8	7.99	68.976	
1,520.0	1,520.0	1,513.7	1,512.0	3.6	4.6	171.74	-547.5	79.4	553.3	545.2	8.08	68.491	
1,615.0	1,615.0	1,607.5	1,605.3	3.6	4.6	170.82	-547.9	88.5	555.1	547.0	8.17	67.953	
1,710.0	1,710.0	1,702.7	1,700.0	3.7	4.7	169.87	-548.4	97.9	557.2	549.0	8.27	67.412	
1,805.0	1,805.0	1,797.6	1,794.5	3.8	4.7	168.95	-548.8	107.2	559.3	550.9	8.37	66.846	
1,900.0	1,900.0	1,891.7	1,888.1	3.9	4.8	168.04	-549.2	116.3	561.5	553.1	8.47	66.289	
1,995.0	1,995.0	1,986.1	1,982.1	3.9	4.8	167.14	-549.7	125.5	564.0	555.4	8.58	65.738	
2,090.0	2,090.0	2,079.5	2,075.1	4.1	4.9	-33.96	-550.1	134.7	565.5	556.8	8.73	64.758	
2,185.0	2,184.9	2,175.0	2,170.0	4.6	4.9	-35.17	-550.7	144.5	564.7	555.6	9.05	62.385	
2,280.0	2,279.6	2,266.9	2,261.4	5.2	5.0	-36.54	-551.2	153.7	561.5	552.2	9.37	59.945	
2,375.0	2,374.0	2,368.5	2,362.6	5.6	5.0	-38.21	-551.2	164.0	556.6	547.0	9.55	58.269	
2,470.0	2,468.5	2,461.3	2,454.9	5.7	5.1	-39.76	-550.7	173.2	551.4	541.7	9.67	57.036	
2,565.0	2,563.0	2,556.2	2,549.3	5.9	5.1	-41.41	-550.0	183.0	546.6	536.8	9.79	55.823	
2,660.0	2,657.5	2,648.4	2,641.0	6.0	5.2	-43.03	-549.4	192.4	542.3	532.4	9.94	54.546	
2,755.0	2,752.0	2,741.1	2,733.2	6.2	5.3	-44.70	-548.8	202.0	538.5	528.4	10.12	53.227	
2,850.0	2,846.4	2,832.5	2,824.1	6.4	5.3	-46.38	-548.4	211.7	535.6	525.2	10.32	51.901	
2,945.0	2,940.9	2,922.3	2,913.3	6.6	5.4	-48.06	-548.5	221.7	533.7	523.1	10.54	50.614	
3,040.0	3,035.4	3,015.1	3,005.5	6.8	5.5	-49.82	-548.7	232.2	532.6	521.8	10.79	49.340	
3,115.6	3,110.5	3,087.9	3,077.9	7.0	5.5	-51.22	-548.9	240.7	532.3	521.3	11.01	48.353	
3,135.0	3,129.9	3,106.7	3,096.5	7.0	5.5	-51.58	-549.0	242.9	532.3	521.2	11.06	48.108	
3,230.0	3,224.3	3,198.2	3,187.3	7.3	5.6	-53.39	-549.5	254.2	533.0	521.6	11.36	46.936	
3,325.0	3,318.8	3,297.0	3,285.4	7.5	5.7	-55.36	-549.8	266.6	534.2	522.6	11.67	45.764	
3,415.0	3,408.4	3,392.4	3,380.2	7.7	5.8	-57.08	-549.7	276.1	534.2	522.2	11.99	44.552	
3,420.0	3,413.3	3,397.2	3,385.0	7.8	5.8	-57.17	-549.7	276.6	534.2	522.2	12.01	44.488	
3,515.0	3,507.8	3,490.5	3,477.8	8.0	5.9	-58.87	-549.3	286.0	534.6	522.2	12.35	43.281	
3,610.0	3,602.3	3,585.2	3,572.0	8.3	5.9	-60.68	-548.3	296.1	535.3	522.6	12.71	42.122	
3,705.0	3,696.7	3,677.7	3,663.9	8.6	6.0	-62.50	-546.9	306.3	536.5	523.4	13.08	41.031	
3,800.0	3,791.2	3,775.5	3,761.1	8.8	6.1	-64.38	-545.6	316.9	538.3	524.8	13.46	39.983	
3,895.0	3,885.7	3,875.7	3,861.0	9.1	6.2	-66.05	-544.9	325.0	539.1	525.2	13.86	38.891	
3,990.0	3,980.2	3,969.2	3,954.2	9.4	6.3	-67.59	-544.1	332.2	540.0	525.8	14.26	37.871	
4,085.0	4,074.7	4,063.2	4,047.9	9.7	6.4	-69.15	-543.2	339.7	541.5	526.8	14.67	36.916	
4,180.0	4,169.1	4,155.7	4,140.1	10.0	6.4	-70.69	-542.3	347.2	543.3	528.3	15.08	36.030	
4,275.0	4,263.6	4,250.1	4,234.2	10.3	6.5	-72.25	-541.4	354.8	545.6	530.1	15.50	35.194	
4,370.0	4,358.1	4,346.2	4,330.0	10.6	6.6	-73.80	-540.6	362.4	548.3	532.3	15.94	34.405	
4,465.0	4,452.6	4,440.4	4,424.0	10.9	6.7	-75.11	-541.0	368.3	550.8	534.4	16.37	33.645	
4,560.0	4,547.1	4,533.2	4,516.6	11.2	6.8	-76.41	-541.4	374.4	553.7	536.9	16.81	32.945	
4,655.0	4,641.5	4,626.5	4,609.7	11.5	6.9	-77.68	-542.1	380.8	557.4	540.1	17.25	32.311	

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #601H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12018-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 (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,750.0	4,736.0	4,720.1	4,703.1	11.9	7.0	-78.80	-543.9	386.2	561.0	543.3	17.70	31.702	
4,845.0	4,830.5	4,811.9	4,794.7	12.2	7.1	-79.82	-546.6	391.9	565.7	547.5	18.14	31.187	
4,940.0	4,925.0	4,933.2	4,915.8	12.5	7.2	-81.03	-549.7	396.2	568.1	549.5	18.63	30.494	
5,035.0	5,019.4	5,025.0	5,007.6	12.8	7.3	-81.94	-550.9	397.6	568.5	549.5	19.08	29.803	
5,130.0	5,113.9	5,114.0	5,096.6	13.1	7.4	-82.82	-552.6	399.8	570.2	550.7	19.52	29.210	
5,225.0	5,208.4	5,221.7	5,204.3	13.5	7.5	-83.92	-554.2	402.2	571.6	551.6	19.99	28.587	
5,320.0	5,302.9	5,320.3	5,302.8	13.8	7.6	-85.01	-553.9	403.1	571.3	550.9	20.44	27.953	
5,415.0	5,397.4	5,429.3	5,411.9	14.1	7.6	-86.28	-552.6	403.3	570.3	549.5	20.83	27.383	
5,510.0	5,491.8	5,527.0	5,509.5	14.4	7.6	-87.31	-551.6	401.0	567.3	546.1	21.15	26.820	
5,605.0	5,586.4	5,620.0	5,602.5	14.8	7.5	-88.18	-550.7	398.9	564.5	543.1	21.48	26.286	
5,700.0	5,681.1	5,712.9	5,695.4	15.1	7.5	-88.86	-550.2	396.8	562.1	540.3	21.80	25.789	
5,795.0	5,775.9	5,807.1	5,789.5	15.4	7.5	-89.38	-549.9	394.6	559.9	537.8	22.12	25.318	
5,890.0	5,870.8	5,903.5	5,885.9	15.7	7.5	-89.75	-549.7	392.5	557.9	535.5	22.43	24.872	
5,985.0	5,965.8	5,996.0	5,978.4	16.1	7.4	-89.92	-549.8	390.5	556.0	533.2	22.74	24.445	
6,080.0	6,060.8	6,091.5	6,073.8	16.3	7.4	-89.94	-550.0	388.5	554.1	531.1	23.03	24.062	
6,175.0	6,155.8	6,186.9	6,169.3	16.6	7.4	-110.27	-550.0	386.4	552.3	529.0	23.30	23.703	
6,270.0	6,250.8	6,282.7	6,265.0	16.9	7.4	-110.35	-550.0	384.3	550.3	526.7	23.57	23.347	
6,365.0	6,345.8	6,376.9	6,359.1	17.2	7.4	-110.45	-550.2	382.1	548.3	524.4	23.84	22.995	
6,460.0	6,440.8	6,469.4	6,451.7	17.5	7.4	-110.53	-550.3	380.1	546.4	522.3	24.12	22.652	
6,555.0	6,535.8	6,565.7	6,547.9	17.8	7.4	-110.63	-550.6	378.2	544.8	520.3	24.41	22.320	
6,650.0	6,630.8	6,660.6	6,642.8	18.1	7.4	-110.74	-550.9	376.3	543.0	518.3	24.69	21.991	
6,745.0	6,725.8	6,755.5	6,737.7	18.4	7.4	-110.83	-551.2	374.4	541.4	516.4	24.98	21.669	
6,840.0	6,820.8	6,851.4	6,833.6	18.7	7.3	-110.92	-551.3	372.5	539.6	514.3	25.28	21.348	
6,935.0	6,915.8	6,946.2	6,928.3	19.0	7.4	-111.01	-551.5	370.5	537.8	512.2	25.57	21.030	
7,030.0	7,010.8	7,040.4	7,022.5	19.3	7.4	-111.10	-551.7	368.5	536.1	510.2	25.87	20.719	
7,125.0	7,105.8	7,127.4	7,109.6	19.6	7.4	-111.17	-551.8	367.2	534.8	508.6	26.17	20.434	
7,220.0	7,200.8	7,220.9	7,203.0	19.9	7.4	-111.17	-551.8	367.1	534.7	508.2	26.51	20.172	
7,315.0	7,295.8	7,316.4	7,298.6	20.2	7.4	-111.16	-551.7	367.1	534.6	507.8	26.86	19.905	
7,410.0	7,390.8	7,412.2	7,394.3	20.5	7.5	-111.12	-551.3	367.1	534.5	507.3	27.20	19.652	
7,485.5	7,466.3	7,486.4	7,468.5	20.8	7.5	-111.09	-551.0	367.1	534.4	506.9	27.46	19.459	
7,505.0	7,485.8	7,505.2	7,487.3	20.8	7.5	-111.09	-551.0	367.1	534.4	506.9	27.53	19.409	
7,584.4	7,565.2	7,585.3	7,567.4	21.1	7.5	-111.03	-550.4	367.3	534.4	506.6	27.83	19.201	
7,600.0	7,580.8	7,600.1	7,582.3	21.2	7.5	-111.02	-550.4	367.4	534.4	506.5	27.89	19.162	
7,695.0	7,675.8	7,694.9	7,677.0	21.5	7.6	-110.95	-549.8	367.7	534.5	506.3	28.25	18.919	
7,790.0	7,770.8	7,790.3	7,772.4	21.8	7.6	-110.87	-549.2	368.0	534.6	506.0	28.62	18.681	
7,885.0	7,865.8	7,884.4	7,866.5	22.1	7.7	-110.80	-548.5	368.4	534.7	505.7	28.98	18.450	
7,980.0	7,960.8	7,979.8	7,961.9	22.4	7.7	-110.72	-547.9	368.8	534.9	505.5	29.35	18.222	
8,075.0	8,055.8	8,073.6	8,055.7	22.7	7.8	-110.64	-547.4	369.3	535.1	505.4	29.73	18.001	
8,170.0	8,150.8	8,167.5	8,149.6	23.0	7.9	-110.60	-547.2	369.9	535.7	505.6	30.12	17.784	
8,265.0	8,245.8	8,260.5	8,242.6	23.3	8.0	-110.58	-547.3	370.7	536.5	505.9	30.52	17.575	
8,360.0	8,340.8	8,354.3	8,336.4	23.7	8.1	-110.56	-547.5	371.8	537.6	506.7	30.93	17.381	
8,455.0	8,435.8	8,446.2	8,428.3	24.0	8.2	-110.58	-548.2	373.1	539.1	507.7	31.33	17.204	
8,550.0	8,530.8	8,542.1	8,524.2	24.3	8.3	-110.63	-549.2	374.5	540.7	509.0	31.74	17.033	
8,645.0	8,625.8	8,636.1	8,618.1	24.6	8.4	-110.69	-550.2	375.7	542.3	510.1	32.15	16.865	
8,740.0	8,720.8	8,732.8	8,714.9	24.9	8.4	-110.74	-551.2	377.1	543.9	511.3	32.57	16.701	
8,835.0	8,815.8	8,832.1	8,814.1	25.3	8.5	-110.77	-551.9	378.0	544.9	511.9	32.99	16.518	
8,930.0	8,910.8	8,928.7	8,910.7	25.6	8.6	-110.78	-552.2	378.3	545.3	511.9	33.40	16.326	
9,025.0	9,005.8	9,026.7	9,008.7	25.9	8.7	-110.77	-552.2	378.5	545.5	511.7	33.80	16.138	
9,120.0	9,100.8	9,122.3	9,104.4	26.2	8.8	-110.72	-551.6	378.5	545.3	511.2	34.15	15.966	
9,215.0	9,195.8	9,217.9	9,199.9	26.5	8.8	-110.60	-550.5	378.6	545.0	510.4	34.51	15.791	
9,310.0	9,290.8	9,313.2	9,295.2	26.9	8.8	-110.44	-548.9	378.8	544.6	509.7	34.87	15.617	
9,405.0	9,385.8	9,409.6	9,391.5	27.2	8.9	-110.19	-546.5	379.2	544.1	508.8	35.24	15.439	

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
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Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FEED PROJECT - GREEN EYESHAD FEDERAL COM #601H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12018-MWD+IFR1+FDIR												Offset Well Error:	3.0 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)	Minimum Separation (usft)	Separation Factor	
9,500.0	9,480.8	9,506.5	9,488.4	27.5	8.9	109.86	-543.2	379.5	543.3	507.7	35.61	15.257	
9,595.0	9,575.8	9,602.7	9,584.5	27.8	9.0	109.50	-539.7	379.6	542.3	506.3	35.98	15.073	
9,690.0	9,670.8	9,700.0	9,681.7	28.2	9.0	109.12	-535.9	379.4	540.8	504.5	36.34	14.881	
9,785.0	9,765.8	9,787.8	9,769.6	28.5	9.1	108.86	-533.2	379.3	539.7	503.0	36.70	14.708	
9,796.8	9,777.5	9,798.0	9,779.8	28.5	9.1	108.85	-533.1	379.3	539.7	503.0	36.74	14.690	
9,880.0	9,860.8	9,880.2	9,861.9	28.8	9.1	108.88	-533.4	379.3	539.9	502.8	37.08	14.558	
9,975.0	9,955.8	9,976.4	9,958.1	29.1	9.2	108.98	-534.4	379.1	540.0	502.5	37.46	14.413	
9,986.6	9,967.4	9,987.9	9,969.6	29.2	9.2	109.01	-534.6	379.0	540.0	502.5	37.51	14.396	
10,070.0	10,050.8	10,071.2	10,052.9	29.5	9.2	109.22	-536.5	378.4	540.0	502.2	37.83	14.273	
10,165.0	10,145.8	10,166.4	10,148.0	29.8	9.3	109.55	-539.4	377.3	540.0	501.8	38.20	14.135	
10,168.6	10,149.4	10,169.9	10,151.6	29.8	9.3	109.57	-539.5	377.3	540.0	501.8	38.22	14.130	
10,260.0	10,240.8	10,260.8	10,242.4	30.1	9.3	109.89	-542.5	376.3	540.0	501.5	38.57	14.001	
10,355.0	10,335.8	10,355.7	10,337.3	30.4	9.3	110.19	-545.1	375.5	540.2	501.2	38.94	13.871	
10,450.0	10,430.8	10,455.1	10,436.6	30.8	9.4	110.45	-547.4	374.5	540.1	500.8	39.32	13.736	
10,545.0	10,525.8	10,555.3	10,536.8	31.1	9.4	110.63	-548.5	372.7	538.8	499.1	39.67	13.581	
10,640.0	10,620.8	10,653.0	10,634.4	31.4	9.4	110.77	-549.1	370.5	537.0	496.9	40.02	13.417	
10,735.0	10,715.8	10,748.4	10,729.8	31.7	9.4	110.91	-549.6	368.1	534.9	494.6	40.36	13.253	
10,830.0	10,810.8	10,848.3	10,829.7	32.1	9.4	111.04	-549.8	365.3	532.5	491.8	40.71	13.079	
10,925.0	10,905.8	10,944.2	10,925.6	32.4	9.5	111.14	-549.5	362.0	529.4	488.4	41.06	12.895	
11,020.0	11,000.8	11,035.8	11,017.1	32.7	9.5	111.29	-549.8	358.9	526.5	485.1	41.39	12.721	
11,115.0	11,095.8	11,127.4	11,108.6	33.1	9.5	111.49	-550.7	356.3	524.4	482.7	41.73	12.566	
11,210.0	11,190.8	11,222.7	11,203.9	33.4	9.5	111.70	-551.9	353.9	522.5	480.4	42.09	12.415	
11,305.0	11,285.8	11,308.6	11,289.8	33.7	9.6	111.86	-552.8	352.3	521.2	478.8	42.43	12.286	
11,341.6	11,322.4	11,343.4	11,324.6	33.8	9.6	111.89	-553.0	352.1	521.2	478.6	42.57	12.243	
11,400.0	11,380.8	11,400.0	11,381.2	34.0	9.6	111.89	-553.1	352.2	521.3	478.5	42.81	12.176	
11,495.0	11,475.8	11,496.4	11,477.6	34.4	9.7	111.87	-553.0	352.6	521.6	478.4	43.23	12.067	
11,590.0	11,570.8	11,589.9	11,571.1	34.7	9.8	111.87	-553.1	352.8	521.9	478.2	43.64	11.959	
11,685.0	11,665.8	11,679.7	11,660.8	35.0	9.9	111.78	-552.6	353.7	522.5	478.5	44.04	11.866	
11,780.0	11,760.8	11,770.3	11,751.4	35.4	9.9	111.66	-552.2	355.7	524.3	479.9	44.45	11.795	
11,875.0	11,855.8	11,861.9	11,843.0	35.7	10.0	111.56	-552.2	358.2	526.7	481.8	44.87	11.738	
11,970.0	11,950.8	11,956.9	11,938.0	36.0	10.1	111.42	-552.0	361.1	529.3	484.0	45.30	11.686	
12,065.0	12,045.8	12,054.8	12,035.9	36.3	10.2	111.30	-551.9	364.1	532.0	486.3	45.70	11.642	
12,160.0	12,140.8	12,152.8	12,133.8	36.7	10.2	111.28	-552.5	365.9	533.9	487.9	46.05	11.595	
12,255.0	12,235.8	12,251.6	12,232.6	37.0	10.2	111.38	-553.8	366.9	535.3	488.9	46.40	11.536	
12,350.0	12,330.8	12,352.1	12,333.1	37.3	10.3	111.47	-554.8	367.0	535.7	488.9	46.78	11.452	
12,445.0	12,425.8	12,449.1	12,430.1	37.6	10.3	111.52	-555.1	366.6	535.4	488.4	47.08	11.373	
12,540.0	12,520.6	12,544.1	12,525.1	37.7	10.4	-68.55	-555.3	366.1	533.7	486.5	47.20	11.306	
12,635.0	12,613.1	12,637.7	12,618.6	37.7	10.4	-71.55	-555.3	365.6	525.7	478.4	47.32	11.110	
12,730.0	12,699.5	12,724.5	12,705.4	37.7	10.5	-76.80	-554.9	365.1	513.4	465.9	47.48	10.814	
12,825.0	12,776.5	12,800.6	12,781.6	37.8	10.6	-83.26	-554.5	364.6	501.1	453.4	47.67	10.512	
12,920.0	12,841.1	12,861.9	12,842.9	37.8	10.6	-89.20	-554.4	364.6	494.6	446.8	47.87	10.333	
12,933.1	12,848.9	12,869.6	12,850.6	37.8	10.6	-89.93	-554.4	364.6	494.5	446.6	47.90	10.324 CC, ES, SF	
13,015.0	12,890.7	12,910.7	12,891.7	37.9	10.7	-93.40	-554.5	364.6	499.5	451.4	48.08	10.388	
13,110.0	12,923.3	12,942.7	12,923.7	37.9	10.7	-94.37	-554.7	364.8	519.6	471.3	48.26	10.767	
13,205.0	12,937.6	12,957.1	12,938.0	38.0	10.7	-91.32	-554.7	364.9	555.5	507.1	48.37	11.485	
13,300.0	12,936.1	12,956.1	12,937.1	38.1	10.7	-88.46	-554.7	364.8	604.6	556.2	48.41	12.489	
13,395.0	12,932.9	12,953.0	12,934.0	38.1	10.7	-88.10	-554.7	364.8	663.7	615.3	48.42	13.708	
13,490.0	12,929.6	12,950.8	12,931.8	38.2	10.7	-87.85	-554.7	364.8	730.4	682.0	48.41	15.090	
13,585.0	12,926.3	12,948.1	12,929.0	38.3	10.7	-87.53	-554.7	364.8	802.9	754.5	48.38	16.594	
13,680.0	12,923.0	12,945.3	12,926.3	38.5	10.7	-87.22	-554.7	364.8	879.6	831.2	48.36	18.189	
13,775.0	12,919.7	12,942.6	12,923.6	38.6	10.7	-86.90	-554.7	364.8	959.6	911.2	48.33	19.853	

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #601H - ST01 - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12049-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 +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	2.1	2.1	3.0	4.2	175.74	-532.5	39.7	534.0				
95.0	95.0	93.6	93.6	3.0	4.2	175.69	-532.8	40.2	534.3	527.1	7.24	73.769	
190.0	190.0	188.6	188.6	3.0	4.2	175.61	-533.4	40.9	534.9	527.7	7.25	73.798	
285.0	285.0	283.3	283.3	3.0	4.3	175.55	-534.0	41.6	535.6	528.4	7.26	73.752	
380.0	380.0	377.9	377.9	3.0	4.3	175.52	-534.7	41.9	536.3	529.0	7.28	73.620	
475.0	475.0	472.3	472.2	3.0	4.3	175.48	-535.4	42.3	537.1	529.8	7.32	73.425	
570.0	570.0	569.0	569.0	3.1	4.3	175.43	-536.0	42.8	537.8	530.4	7.35	73.133	
665.0	665.0	663.5	663.5	3.1	4.3	175.42	-536.6	43.0	538.4	531.0	7.40	72.752	
760.0	760.0	757.8	757.7	3.1	4.3	175.42	-537.3	43.1	539.0	531.6	7.46	72.300	
855.0	855.0	852.1	852.0	3.2	4.4	175.42	-538.1	43.1	539.9	532.4	7.52	71.802	
950.0	950.0	947.4	947.4	3.2	4.4	175.41	-539.0	43.3	540.8	533.2	7.59	71.245	
1,045.0	1,045.0	1,042.2	1,042.2	3.3	4.4	175.38	-539.8	43.6	541.6	533.9	7.67	70.625	
1,140.0	1,140.0	1,132.2	1,132.1	3.3	4.5	175.26	-540.8	44.8	542.8	535.0	7.75	70.071	
1,235.0	1,235.0	1,221.8	1,221.6	3.4	4.5	174.70	-542.5	50.4	545.1	537.3	7.82	69.701	
1,330.0	1,330.0	1,316.6	1,315.9	3.4	4.5	173.75	-544.4	59.7	547.9	540.0	7.90	69.350	
1,425.0	1,425.0	1,411.2	1,410.0	3.5	4.5	172.78	-546.2	69.2	550.8	542.8	7.99	68.976	
1,520.0	1,520.0	1,513.7	1,512.0	3.6	4.6	171.74	-547.5	79.4	553.3	545.2	8.08	68.491	
1,615.0	1,615.0	1,607.5	1,605.3	3.6	4.6	170.82	-547.9	88.5	555.1	547.0	8.17	67.953	
1,710.0	1,710.0	1,702.7	1,700.0	3.7	4.7	169.87	-548.4	97.9	557.2	549.0	8.27	67.412	
1,805.0	1,805.0	1,797.6	1,794.5	3.8	4.7	168.95	-548.8	107.2	559.3	550.9	8.37	66.846	
1,900.0	1,900.0	1,891.7	1,888.1	3.9	4.8	168.04	-549.2	116.3	561.5	553.1	8.47	66.289	
1,995.0	1,995.0	1,986.1	1,982.1	3.9	4.8	167.14	-549.7	125.5	564.0	555.4	8.58	65.738	
2,090.0	2,090.0	2,079.5	2,075.1	4.1	4.9	-33.96	-550.1	134.7	565.5	556.8	8.73	64.758	
2,185.0	2,184.9	2,175.0	2,170.0	4.6	4.9	-35.17	-550.7	144.5	564.7	555.6	9.05	62.385	
2,280.0	2,279.6	2,266.9	2,261.4	5.2	5.0	-36.54	-551.2	153.7	561.5	552.2	9.37	59.945	
2,375.0	2,374.0	2,368.5	2,362.6	5.6	5.0	-38.21	-551.2	164.0	556.6	547.0	9.55	58.269	
2,470.0	2,468.5	2,461.3	2,454.9	5.7	5.1	-39.76	-550.7	173.2	551.4	541.7	9.67	57.036	
2,565.0	2,563.0	2,556.2	2,549.3	5.9	5.1	-41.41	-550.0	183.0	546.6	536.8	9.79	55.823	
2,660.0	2,657.5	2,648.4	2,641.0	6.0	5.2	-43.03	-549.4	192.4	542.3	532.4	9.94	54.546	
2,755.0	2,752.0	2,741.1	2,733.2	6.2	5.3	-44.70	-548.8	202.0	538.5	528.4	10.12	53.227	
2,850.0	2,846.4	2,832.5	2,824.1	6.4	5.3	-46.38	-548.4	211.7	535.6	525.2	10.32	51.901	
2,945.0	2,940.9	2,922.3	2,913.3	6.6	5.4	-48.06	-548.5	221.7	533.7	523.1	10.54	50.614	
3,040.0	3,035.4	3,015.1	3,005.5	6.8	5.5	-49.82	-548.7	232.2	532.6	521.8	10.79	49.340	
3,115.6	3,110.5	3,087.9	3,077.9	7.0	5.5	-51.22	-548.9	240.7	532.3	521.3	11.01	48.353	
3,135.0	3,129.9	3,106.7	3,096.5	7.0	5.5	-51.58	-549.0	242.9	532.3	521.2	11.06	48.108	
3,230.0	3,224.3	3,198.2	3,187.3	7.3	5.6	-53.39	-549.5	254.2	533.0	521.6	11.36	46.936	
3,325.0	3,318.8	3,297.0	3,285.4	7.5	5.7	-55.36	-549.8	266.6	534.2	522.6	11.67	45.764	
3,415.0	3,408.4	3,392.4	3,380.2	7.7	5.8	-57.08	-549.7	276.1	534.2	522.2	11.99	44.552	
3,420.0	3,413.3	3,397.2	3,385.0	7.8	5.8	-57.17	-549.7	276.6	534.2	522.2	12.01	44.488	
3,515.0	3,507.8	3,490.5	3,477.8	8.0	5.9	-58.87	-549.3	286.0	534.6	522.2	12.35	43.281	
3,610.0	3,602.3	3,585.2	3,572.0	8.3	5.9	-60.68	-548.3	296.1	535.3	522.6	12.71	42.122	
3,705.0	3,696.7	3,677.7	3,663.9	8.6	6.0	-62.50	-546.9	306.3	536.5	523.4	13.08	41.031	
3,800.0	3,791.2	3,775.5	3,761.1	8.8	6.1	-64.38	-545.6	316.9	538.3	524.8	13.46	39.983	
3,895.0	3,885.7	3,875.7	3,861.0	9.1	6.2	-66.05	-544.9	325.0	539.1	525.2	13.86	38.891	
3,990.0	3,980.2	3,969.2	3,954.2	9.4	6.3	-67.59	-544.1	332.2	540.0	525.8	14.26	37.871	
4,085.0	4,074.7	4,063.2	4,047.9	9.7	6.4	-69.15	-543.2	339.7	541.5	526.8	14.67	36.916	
4,180.0	4,169.1	4,155.7	4,140.1	10.0	6.4	-70.69	-542.3	347.2	543.3	528.3	15.08	36.030	
4,275.0	4,263.6	4,250.1	4,234.2	10.3	6.5	-72.25	-541.4	354.8	545.6	530.1	15.50	35.194	
4,370.0	4,358.1	4,346.2	4,330.0	10.6	6.6	-73.80	-540.6	362.4	548.3	532.3	15.94	34.405	
4,465.0	4,452.6	4,440.4	4,424.0	10.9	6.7	-75.11	-541.0	368.3	550.8	534.4	16.37	33.645	
4,560.0	4,547.1	4,533.2	4,516.6	11.2	6.8	-76.41	-541.4	374.4	553.7	536.9	16.81	32.945	
4,655.0	4,641.5	4,626.5	4,609.7	11.5	6.9	-77.68	-542.1	380.8	557.4	540.1	17.25	32.311	

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #601H - ST01 - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12049-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		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,750.0	4,736.0	4,720.1	4,703.1	11.9	7.0	-78.80	-543.9	386.2	561.0	543.3	17.70	31.702	
4,845.0	4,830.5	4,811.9	4,794.7	12.2	7.1	-79.82	-546.6	391.9	565.7	547.5	18.14	31.187	
4,940.0	4,925.0	4,933.2	4,915.8	12.5	7.2	-81.03	-549.7	396.2	568.1	549.5	18.63	30.494	
5,035.0	5,019.4	5,025.0	5,007.6	12.8	7.3	-81.94	-550.9	397.6	568.5	549.5	19.08	29.803	
5,130.0	5,113.9	5,114.0	5,096.6	13.1	7.4	-82.82	-552.6	399.8	570.2	550.7	19.52	29.210	
5,225.0	5,208.4	5,221.7	5,204.3	13.5	7.5	-83.92	-554.2	402.2	571.6	551.6	19.99	28.587	
5,320.0	5,302.9	5,320.3	5,302.8	13.8	7.6	-85.01	-553.9	403.1	571.3	550.9	20.44	27.953	
5,415.0	5,397.4	5,429.3	5,411.9	14.1	7.6	-86.28	-552.6	403.3	570.3	549.5	20.83	27.383	
5,510.0	5,491.8	5,527.0	5,509.5	14.4	7.6	-87.31	-551.6	401.0	567.3	546.1	21.15	26.820	
5,605.0	5,586.4	5,620.0	5,602.5	14.8	7.5	-88.18	-550.7	398.9	564.5	543.1	21.48	26.286	
5,700.0	5,681.1	5,712.9	5,695.4	15.1	7.5	-88.86	-550.2	396.8	562.1	540.3	21.80	25.789	
5,795.0	5,775.9	5,807.1	5,789.5	15.4	7.5	-89.38	-549.9	394.6	559.9	537.8	22.12	25.318	
5,890.0	5,870.8	5,903.5	5,885.9	15.7	7.5	-89.75	-549.7	392.5	557.9	535.5	22.43	24.872	
5,985.0	5,965.8	5,996.0	5,978.4	16.1	7.4	-89.92	-549.8	390.5	556.0	533.2	22.74	24.445	
6,080.0	6,060.8	6,091.5	6,073.8	16.3	7.4	-89.94	-550.0	388.5	554.1	531.1	23.03	24.062	
6,175.0	6,155.8	6,186.9	6,169.3	16.6	7.4	-110.27	-550.0	386.4	552.3	529.0	23.30	23.703	
6,270.0	6,250.8	6,282.7	6,265.0	16.9	7.4	-110.35	-550.0	384.3	550.3	526.7	23.57	23.347	
6,365.0	6,345.8	6,376.9	6,359.1	17.2	7.4	-110.45	-550.2	382.1	548.3	524.4	23.84	22.995	
6,460.0	6,440.8	6,469.4	6,451.7	17.5	7.4	-110.53	-550.3	380.1	546.4	522.3	24.12	22.652	
6,555.0	6,535.8	6,565.7	6,547.9	17.8	7.4	-110.63	-550.6	378.2	544.8	520.3	24.41	22.320	
6,650.0	6,630.8	6,660.6	6,642.8	18.1	7.4	-110.74	-550.9	376.3	543.0	518.3	24.69	21.991	
6,745.0	6,725.8	6,755.5	6,737.7	18.4	7.4	-110.83	-551.2	374.4	541.4	516.4	24.98	21.669	
6,840.0	6,820.8	6,851.4	6,833.6	18.7	7.3	-110.92	-551.3	372.5	539.6	514.3	25.28	21.348	
6,935.0	6,915.8	6,946.2	6,928.3	19.0	7.4	-111.01	-551.5	370.5	537.8	512.2	25.57	21.030	
7,030.0	7,010.8	7,040.4	7,022.5	19.3	7.4	-111.10	-551.7	368.5	536.1	510.2	25.87	20.719	
7,125.0	7,105.8	7,127.4	7,109.6	19.6	7.4	-111.17	-551.8	367.2	534.8	508.6	26.17	20.434	
7,220.0	7,200.8	7,220.9	7,203.0	19.9	7.4	-111.17	-551.8	367.1	534.7	508.2	26.51	20.172	
7,315.0	7,295.8	7,316.4	7,298.6	20.2	7.4	-111.16	-551.7	367.1	534.6	507.8	26.86	19.905	
7,410.0	7,390.8	7,412.2	7,394.3	20.5	7.5	-111.12	-551.3	367.1	534.5	507.3	27.20	19.652	
7,485.5	7,466.3	7,486.4	7,468.5	20.8	7.5	-111.09	-551.0	367.1	534.4	506.9	27.46	19.459	
7,505.0	7,485.8	7,505.2	7,487.3	20.8	7.5	-111.09	-551.0	367.1	534.4	506.9	27.53	19.409	
7,584.4	7,565.2	7,585.3	7,567.4	21.1	7.5	-111.03	-550.4	367.3	534.4	506.6	27.83	19.201	
7,600.0	7,580.8	7,600.1	7,582.3	21.2	7.5	-111.02	-550.4	367.4	534.4	506.5	27.89	19.162	
7,695.0	7,675.8	7,694.9	7,677.0	21.5	7.6	-110.95	-549.8	367.7	534.5	506.3	28.25	18.919	
7,790.0	7,770.8	7,790.3	7,772.4	21.8	7.6	-110.87	-549.2	368.0	534.6	506.0	28.62	18.681	
7,885.0	7,865.8	7,884.4	7,866.5	22.1	7.7	-110.80	-548.5	368.4	534.7	505.7	28.98	18.450	
7,980.0	7,960.8	7,979.8	7,961.9	22.4	7.7	-110.72	-547.9	368.8	534.9	505.5	29.35	18.222	
8,075.0	8,055.8	8,073.6	8,055.7	22.7	7.8	-110.64	-547.4	369.3	535.1	505.4	29.73	18.001	
8,170.0	8,150.8	8,167.5	8,149.6	23.0	7.9	-110.60	-547.2	369.9	535.7	505.6	30.12	17.784	
8,265.0	8,245.8	8,260.5	8,242.6	23.3	8.0	-110.58	-547.3	370.7	536.5	505.9	30.52	17.575	
8,360.0	8,340.8	8,354.3	8,336.4	23.7	8.1	-110.56	-547.5	371.8	537.6	506.7	30.93	17.381	
8,455.0	8,435.8	8,446.2	8,428.3	24.0	8.2	-110.58	-548.2	373.1	539.1	507.7	31.33	17.204	
8,550.0	8,530.8	8,542.1	8,524.2	24.3	8.3	-110.63	-549.2	374.5	540.7	509.0	31.74	17.033	
8,645.0	8,625.8	8,636.1	8,618.1	24.6	8.4	-110.69	-550.2	375.7	542.3	510.1	32.15	16.865	
8,740.0	8,720.8	8,732.8	8,714.9	24.9	8.4	-110.74	-551.2	377.1	543.9	511.3	32.57	16.701	
8,835.0	8,815.8	8,832.1	8,814.1	25.3	8.5	-110.77	-551.9	378.0	544.9	511.9	32.99	16.518	
8,930.0	8,910.8	8,928.7	8,910.7	25.6	8.6	-110.78	-552.2	378.3	545.3	511.9	33.40	16.326	
9,025.0	9,005.8	9,026.7	9,008.7	25.9	8.7	-110.77	-552.2	378.5	545.5	511.7	33.80	16.138	
9,120.0	9,100.8	9,122.3	9,104.4	26.2	8.8	-110.72	-551.6	378.5	545.3	511.2	34.15	15.966	
9,215.0	9,195.8	9,217.9	9,199.9	26.5	8.8	-110.60	-550.5	378.6	545.0	510.4	34.51	15.791	
9,310.0	9,290.8	9,313.2	9,295.2	26.9	8.8	-110.44	-548.9	378.8	544.6	509.7	34.87	15.617	
9,405.0	9,385.8	9,409.6	9,391.5	27.2	8.9	-110.19	-546.5	379.2	544.1	508.8	35.24	15.439	

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FEED PROJECT - GREEN EYESHAD FEDERAL COM #601H - ST01 - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12049-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference												Rule Assigned:	
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		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,500.0	9,480.8	9,506.5	9,488.4	27.5	8.9	109.86	-543.2	379.5	543.3	507.7	35.61	15.257	
9,595.0	9,575.8	9,602.7	9,584.5	27.8	9.0	109.50	-539.7	379.6	542.3	506.3	35.98	15.073	
9,690.0	9,670.8	9,700.0	9,681.7	28.2	9.0	109.12	-535.9	379.4	540.8	504.5	36.34	14.881	
9,785.0	9,765.8	9,787.8	9,769.6	28.5	9.1	108.86	-533.2	379.3	539.7	503.0	36.70	14.708	
9,796.8	9,777.5	9,798.0	9,779.8	28.5	9.1	108.85	-533.1	379.3	539.7	503.0	36.74	14.690	
9,880.0	9,860.8	9,880.2	9,861.9	28.8	9.1	108.88	-533.4	379.3	539.9	502.8	37.08	14.558	
9,975.0	9,955.8	9,976.4	9,958.1	29.1	9.2	108.98	-534.4	379.1	540.0	502.5	37.46	14.413	
9,986.6	9,967.4	9,987.9	9,969.6	29.2	9.2	109.01	-534.6	379.0	540.0	502.5	37.51	14.396	
10,070.0	10,050.8	10,071.2	10,052.9	29.5	9.2	109.22	-536.5	378.4	540.0	502.2	37.83	14.273	
10,165.0	10,145.8	10,166.4	10,148.0	29.8	9.3	109.55	-539.4	377.3	540.0	501.8	38.20	14.135	
10,168.6	10,149.4	10,169.9	10,151.6	29.8	9.3	109.57	-539.5	377.3	540.0	501.8	38.22	14.130	
10,260.0	10,240.8	10,260.8	10,242.4	30.1	9.3	109.89	-542.5	376.3	540.0	501.5	38.57	14.001	
10,355.0	10,335.8	10,355.7	10,337.3	30.4	9.3	110.19	-545.1	375.5	540.2	501.2	38.94	13.871	
10,450.0	10,430.8	10,455.1	10,436.6	30.8	9.4	110.45	-547.4	374.5	540.1	500.8	39.32	13.736	
10,545.0	10,525.8	10,555.3	10,536.8	31.1	9.4	110.63	-548.5	372.7	538.8	499.1	39.67	13.581	
10,640.0	10,620.8	10,653.0	10,634.4	31.4	9.4	110.77	-549.1	370.5	537.0	496.9	40.02	13.417	
10,735.0	10,715.8	10,748.4	10,729.8	31.7	9.4	110.91	-549.6	368.1	534.9	494.6	40.36	13.253	
10,830.0	10,810.8	10,848.3	10,829.7	32.1	9.4	111.04	-549.8	365.3	532.5	491.8	40.71	13.079	
10,925.0	10,905.8	10,944.2	10,925.6	32.4	9.5	111.14	-549.5	362.0	529.4	488.4	41.06	12.895	
11,020.0	11,000.8	11,035.8	11,017.1	32.7	9.5	111.29	-549.8	358.9	526.5	485.1	41.39	12.721	
11,115.0	11,095.8	11,127.4	11,108.6	33.1	9.5	111.49	-550.7	356.3	524.4	482.7	41.73	12.566	
11,210.0	11,190.8	11,222.7	11,203.9	33.4	9.5	111.70	-551.9	353.9	522.5	480.4	42.09	12.415	
11,305.0	11,285.8	11,308.6	11,289.8	33.7	9.6	111.86	-552.8	352.3	521.2	478.8	42.43	12.286	
11,341.6	11,322.4	11,343.4	11,324.6	33.8	9.6	111.89	-553.0	352.1	521.2	478.6	42.57	12.243 CC	
11,400.0	11,380.8	11,400.0	11,381.2	34.0	9.6	111.89	-553.1	352.2	521.3	478.5	42.81	12.176	
11,495.0	11,475.8	11,496.4	11,477.6	34.4	9.7	111.87	-553.0	352.6	521.6	478.4	43.23	12.067	
11,590.0	11,570.8	11,589.9	11,571.1	34.7	9.8	111.87	-553.1	352.8	521.9	478.2	43.64	11.959 ES	
11,685.0	11,665.8	11,679.7	11,660.8	35.0	9.9	111.78	-552.6	353.7	522.5	478.5	44.04	11.866	
11,780.0	11,760.8	11,770.3	11,751.4	35.4	9.9	111.66	-552.2	355.7	524.3	479.9	44.45	11.795	
11,875.0	11,855.8	11,861.9	11,843.0	35.7	10.0	111.56	-552.2	358.2	526.7	481.8	44.87	11.738	
11,970.0	11,950.8	11,956.9	11,938.0	36.0	10.1	111.42	-552.0	361.1	529.3	484.0	45.30	11.686	
12,065.0	12,045.8	12,054.8	12,035.8	36.3	10.2	111.30	-551.9	364.1	532.0	486.3	45.70	11.642	
12,160.0	12,140.8	12,152.4	12,133.4	36.7	10.2	111.21	-551.9	366.2	534.0	487.9	46.05	11.597	
12,255.0	12,235.8	12,261.7	12,242.3	37.0	10.2	110.32	-544.2	369.6	534.3	487.9	46.45	11.504	
12,301.2	12,282.0	12,304.8	12,284.2	37.2	10.3	109.22	-534.5	372.9	534.1	487.5	46.62	11.456	
12,350.0	12,330.8	12,348.1	12,324.1	37.3	10.3	107.46	-519.0	378.3	534.5	487.7	46.82	11.416	
12,445.0	12,425.8	12,430.2	12,394.0	37.6	10.3	102.87	-478.4	392.5	538.6	491.4	47.19	11.412 SF	
12,540.0	12,520.6	12,512.2	12,457.8	37.7	10.4	-81.69	-429.1	406.7	546.2	498.7	47.52	11.495	
12,635.0	12,613.1	12,569.4	12,498.3	37.7	10.4	-85.07	-389.7	416.0	559.7	511.6	48.10	11.636	
12,730.0	12,699.5	12,597.7	12,517.0	37.7	10.5	-84.86	-368.9	420.2	583.8	534.7	49.07	11.897	
12,825.0	12,776.5	12,604.8	12,521.6	37.8	10.5	-81.00	-363.6	421.2	619.4	569.2	50.17	12.346	
12,920.0	12,841.1	12,593.0	12,513.9	37.8	10.5	-73.88	-372.5	419.5	664.1	613.0	51.17	12.979	
13,015.0	12,890.7	12,577.6	12,503.7	37.9	10.4	-65.86	-383.8	417.2	714.1	662.3	51.84	13.775	
13,110.0	12,923.3	12,546.0	12,482.1	37.9	10.4	-56.99	-406.3	412.3	765.5	713.2	52.34	14.625	
13,205.0	12,937.6	12,519.3	12,463.0	38.0	10.4	-49.75	-424.5	407.9	814.9	762.4	52.52	15.515	
13,300.0	12,936.1	12,498.0	12,447.3	38.1	10.4	-46.56	-438.3	404.3	861.6	809.2	52.44	16.430	
13,395.0	12,932.9	12,451.0	12,410.8	38.1	10.3	-44.17	-466.8	396.1	912.8	860.3	52.59	17.359	
13,490.0	12,929.6	12,435.6	12,398.4	38.2	10.3	-43.38	-475.4	393.4	969.1	916.6	52.41	18.491	

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #602H - OWB - AWP													Offset Site Error: 3.0 usft
Survey Program: 100-Standard Keeper 104, 12018-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		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	5.8	5.8	3.0	4.2	-177.82	-532.9	-20.3	533.3				
95.0	95.0	106.9	106.9	3.0	4.2	-177.83	-532.2	-20.2	532.7	525.4	7.24	73.545	
190.0	190.0	202.7	202.7	3.0	4.2	-177.82	-530.9	-20.2	531.4	524.1	7.25	73.289	
285.0	285.0	298.9	298.8	3.0	4.3	-177.79	-529.6	-20.4	530.1	522.8	7.27	72.946	
380.0	380.0	393.5	393.5	3.0	4.3	-177.75	-528.2	-20.7	528.6	521.3	7.29	72.499	
475.0	475.0	488.7	488.6	3.0	4.3	-177.70	-526.7	-21.2	527.2	519.9	7.32	71.971	
570.0	570.0	582.9	582.9	3.1	4.3	-177.66	-525.2	-21.4	525.7	518.3	7.37	71.357	
656.2	656.2	661.6	661.6	3.1	4.3	-177.63	-524.7	-21.7	525.1	517.7	7.41	70.900	
665.0	665.0	670.1	670.0	3.1	4.3	-177.63	-524.7	-21.7	525.2	517.7	7.41	70.867	
760.0	760.0	763.2	763.1	3.1	4.3	-177.61	-524.9	-22.0	525.3	517.9	7.44	70.565	
855.0	855.0	858.7	858.7	3.2	4.3	-177.59	-525.1	-22.1	525.6	518.1	7.48	70.259	
950.0	950.0	951.2	951.1	3.2	4.3	-177.59	-525.7	-22.2	526.2	518.6	7.52	69.941	
1,045.0	1,045.0	1,046.7	1,046.6	3.3	4.3	-177.59	-526.3	-22.1	526.8	519.2	7.57	69.565	
1,140.0	1,140.0	1,134.1	1,134.1	3.3	4.3	-177.61	-527.6	-22.0	528.1	520.5	7.63	69.240	
1,235.0	1,235.0	1,227.9	1,227.8	3.4	4.3	-177.44	-529.6	-23.7	530.3	522.6	7.69	68.946	
1,330.0	1,330.0	1,328.3	1,328.0	3.4	4.4	-176.91	-531.3	-28.7	532.1	524.4	7.76	68.535	
1,425.0	1,425.0	1,425.0	1,424.2	3.5	4.4	-175.80	-531.8	-39.0	533.2	525.4	7.84	68.008	
1,520.0	1,520.0	1,516.5	1,515.1	3.6	4.4	-174.70	-532.3	-49.4	534.7	526.8	7.92	67.511	
1,615.0	1,615.0	1,611.9	1,609.9	3.6	4.4	-173.55	-532.9	-60.2	536.4	528.4	8.00	67.021	
1,710.0	1,710.0	1,708.6	1,705.6	3.7	4.5	-172.12	-533.0	-73.8	538.1	530.0	8.09	66.496	
1,805.0	1,805.0	1,800.6	1,796.6	3.8	4.5	-170.74	-533.0	-86.9	540.2	532.0	8.18	66.016	
1,900.0	1,900.0	1,895.9	1,891.0	3.9	4.5	-169.31	-533.1	-100.6	542.7	534.4	8.28	65.545	
1,995.0	1,995.0	1,989.3	1,983.5	3.9	4.6	-167.95	-533.0	-113.8	545.3	536.9	8.38	65.094	
2,090.0	2,090.0	2,082.5	2,075.7	4.1	4.6	-6.78	-533.2	-126.7	547.0	538.5	8.58	63.748	
2,185.0	2,184.9	2,176.1	2,168.5	4.6	4.7	-5.55	-533.7	-139.4	546.1	537.0	9.14	59.735	
2,280.0	2,279.6	2,270.5	2,262.0	5.2	4.7	-4.38	-534.4	-151.9	542.5	532.7	9.73	55.723	
2,375.0	2,374.0	2,364.2	2,354.9	5.6	4.8	-3.20	-535.2	-164.3	536.9	526.8	10.09	53.184	
2,470.0	2,468.5	2,458.2	2,448.2	5.7	4.8	-2.04	-536.0	-176.4	531.4	521.1	10.30	51.607	
2,565.0	2,563.0	2,554.0	2,543.2	5.9	4.9	-0.89	-536.8	-188.1	526.0	515.5	10.48	50.186	
2,660.0	2,657.5	2,648.3	2,636.8	6.0	5.0	0.22	-537.6	-199.2	520.6	509.9	10.68	48.729	
2,755.0	2,752.0	2,743.9	2,731.8	6.2	5.0	1.36	-538.3	-210.3	515.3	504.4	10.91	47.243	
2,850.0	2,846.4	2,840.3	2,827.6	6.4	5.1	2.47	-539.1	-221.0	510.0	498.9	11.15	45.745	
2,945.0	2,940.9	2,934.7	2,921.4	6.6	5.2	3.54	-539.7	-231.0	504.6	493.2	11.40	44.248	
3,040.0	3,035.4	3,026.9	3,012.9	6.8	5.2	4.79	-539.8	-242.3	499.7	488.0	11.68	42.791	
3,135.0	3,129.9	3,123.2	3,108.4	7.0	5.3	6.20	-539.7	-254.7	495.0	483.0	11.97	41.354	
3,230.0	3,224.3	3,222.5	3,207.1	7.3	5.4	7.61	-539.4	-266.7	490.1	477.8	12.28	39.921	
3,325.0	3,318.8	3,320.0	3,304.1	7.5	5.4	8.83	-538.9	-276.6	484.4	471.8	12.59	38.476	
3,420.0	3,413.3	3,412.3	3,395.9	7.8	5.5	10.00	-538.3	-285.7	478.7	465.8	12.91	37.084	
3,515.0	3,507.8	3,505.1	3,488.1	8.0	5.6	11.29	-537.8	-295.8	473.8	460.5	13.24	35.779	
3,610.0	3,602.3	3,597.8	3,580.2	8.3	5.7	12.65	-537.1	-306.3	469.2	455.6	13.58	34.540	
3,705.0	3,696.7	3,690.8	3,672.5	8.6	5.8	14.25	-536.0	-318.5	465.5	451.5	13.94	33.387	
3,800.0	3,791.2	3,786.8	3,767.6	8.8	5.8	15.98	-534.4	-331.2	461.9	447.6	14.31	32.276	
3,895.0	3,885.7	3,879.0	3,858.9	9.1	5.9	17.64	-532.8	-343.3	458.7	444.0	14.69	31.231	
3,990.0	3,980.2	3,963.7	3,942.9	9.4	6.0	19.08	-533.1	-354.7	457.4	442.3	15.06	30.379	
4,085.0	4,074.7	4,057.3	4,035.6	9.7	6.1	20.65	-533.9	-367.4	457.0	441.6	15.44	29.591	
4,086.8	4,086.4	4,086.9	4,047.1	9.7	6.1	20.84	-534.0	-369.0	457.0	441.5	15.49	29.498	
4,180.0	4,169.1	4,150.0	4,127.4	10.0	6.2	22.21	-534.8	-380.2	457.2	441.4	15.84	28.868	
4,275.0	4,263.6	4,237.5	4,214.2	10.3	6.2	23.37	-538.2	-391.1	458.9	442.7	16.22	28.287	
4,370.0	4,358.1	4,332.3	4,308.1	10.6	6.3	24.46	-543.1	-402.4	461.2	444.6	16.62	27.747	
4,465.0	4,452.6	4,428.8	4,403.9	10.9	6.4	25.54	-547.9	-413.6	463.5	446.4	17.03	27.216	
4,560.0	4,547.1	4,527.7	4,502.0	11.2	6.5	26.58	-552.9	-424.4	465.3	447.9	17.44	26.677	
4,655.0	4,641.5	4,628.2	4,602.0	11.5	6.6	27.56	-557.5	-434.1	466.2	448.4	17.86	26.104	

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FEED PROJECT - GREEN EYESHAD FEDERAL COM #602H - OWB - AWP													Offset Site Error: 3.0 usft
Survey Program: 100-Standard Keeper 104, 12018-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)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,750.0	4,736.0	4,733.7	4,707.0	11.9	6.7	28.47	-562.0	-442.5	465.7	447.4	18.28	25.471	
4,845.0	4,830.5	4,832.7	4,805.9	12.2	6.8	28.99	-566.9	-446.8	463.2	444.5	18.69	24.780	
4,940.0	4,925.0	4,927.2	4,900.1	12.5	6.8	29.41	-571.9	-450.5	460.7	441.6	19.10	24.120	
5,035.0	5,019.4	5,027.0	4,999.7	12.8	6.9	30.00	-576.2	-454.9	457.8	438.3	19.52	23.457	
5,130.0	5,113.9	5,121.3	5,093.9	13.1	7.0	30.49	-580.2	-458.1	454.3	434.4	19.93	22.794	
5,225.0	5,208.4	5,214.4	5,186.8	13.5	7.1	31.04	-584.2	-462.0	451.4	431.0	20.35	22.184	
5,320.0	5,302.9	5,304.7	5,276.9	13.8	7.2	31.67	-587.8	-466.5	449.0	428.3	20.77	21.621	
5,415.0	5,397.4	5,395.2	5,367.2	14.1	7.3	32.63	-589.9	-473.4	447.6	426.4	21.19	21.119	
5,442.5	5,424.7	5,419.1	5,391.0	14.2	7.3	32.93	-590.4	-475.5	447.5	426.2	21.32	20.993 CC, ES	
5,510.0	5,491.8	5,483.0	5,454.5	14.4	7.4	33.82	-591.2	-482.3	447.9	426.3	21.62	20.715	
5,605.0	5,586.4	5,584.7	5,555.6	14.8	7.5	35.15	-592.4	-492.4	448.9	426.8	22.07	20.341	
5,700.0	5,681.1	5,679.5	5,650.0	15.1	7.6	36.22	-593.3	-500.8	450.3	427.8	22.50	20.013	
5,795.0	5,775.9	5,772.1	5,742.3	15.4	7.7	37.24	-593.8	-509.8	453.6	430.7	22.93	19.784	
5,890.0	5,870.8	5,865.9	5,835.6	15.7	7.8	38.18	-594.2	-519.2	458.5	435.1	23.35	19.632	
5,985.0	5,965.8	5,960.9	5,930.1	16.1	7.9	38.99	-594.7	-528.7	464.8	441.0	23.78	19.543	
6,080.0	6,060.8	6,058.5	6,027.2	16.3	8.0	39.64	-595.4	-537.9	471.9	447.8	24.18	19.518	
6,175.0	6,155.8	6,156.7	6,125.0	16.6	8.1	-119.77	-596.2	-546.7	479.6	455.1	24.57	19.518	
6,270.0	6,250.8	6,264.1	6,232.2	16.9	8.2	-119.49	-597.2	-553.1	485.0	460.0	24.98	19.417	
6,365.0	6,345.8	6,359.3	6,327.3	17.2	8.3	-119.32	-598.2	-558.0	489.7	464.3	25.37	19.301	
6,460.0	6,440.8	6,462.8	6,430.7	17.5	8.4	-119.15	-599.1	-562.7	493.9	468.1	25.77	19.165	
6,555.0	6,535.8	6,564.2	6,532.1	17.8	8.5	-119.15	-600.2	-564.4	495.8	469.6	26.17	18.944	
6,650.0	6,630.8	6,659.7	6,627.6	18.1	8.6	-119.17	-601.1	-565.8	497.4	470.9	26.57	18.721	
6,745.0	6,725.8	6,755.6	6,723.4	18.4	8.7	-119.19	-602.0	-567.1	499.0	472.0	26.97	18.500	
6,840.0	6,820.8	6,849.1	6,816.9	18.7	8.8	-119.18	-602.8	-568.6	500.7	473.3	27.38	18.290	
6,935.0	6,915.8	6,944.0	6,911.8	19.0	8.9	-119.18	-603.6	-570.0	502.3	474.5	27.78	18.080	
7,030.0	7,010.8	7,039.7	7,007.5	19.3	9.0	-119.16	-604.2	-571.6	504.0	475.8	28.19	17.879	
7,125.0	7,105.8	7,135.7	7,103.5	19.6	9.1	-119.14	-604.8	-573.0	505.5	476.9	28.60	17.675	
7,220.0	7,200.8	7,231.1	7,198.9	19.9	9.2	-119.10	-605.2	-574.3	506.9	477.9	29.01	17.473	
7,315.0	7,295.8	7,325.8	7,293.6	20.2	9.4	-119.06	-605.7	-575.9	508.5	479.0	29.42	17.283	
7,410.0	7,390.8	7,420.8	7,388.5	20.5	9.5	-119.04	-606.2	-577.3	509.9	480.1	29.83	17.092	
7,505.0	7,485.8	7,515.5	7,483.2	20.8	9.6	-119.02	-606.7	-578.5	511.3	481.0	30.25	16.903	
7,600.0	7,580.8	7,611.4	7,579.2	21.2	9.7	-118.99	-607.1	-579.8	512.6	481.9	30.66	16.717	
7,695.0	7,675.8	7,706.1	7,673.8	21.5	9.8	-118.95	-607.5	-581.2	513.9	482.9	31.08	16.536	
7,790.0	7,770.8	7,809.4	7,777.1	21.8	9.9	-118.98	-608.1	-581.7	514.6	483.2	31.48	16.349	
7,885.0	7,865.8	7,906.3	7,874.1	22.1	9.9	-119.08	-608.7	-580.9	514.2	482.4	31.80	16.172	
7,980.0	7,960.8	7,999.4	7,967.1	22.4	9.9	-119.19	-609.3	-580.1	513.9	481.8	32.12	15.997	
8,075.0	8,055.8	8,095.7	8,063.4	22.7	9.9	-119.31	-610.1	-579.3	513.5	481.1	32.45	15.825	
8,170.0	8,150.8	8,191.7	8,159.4	23.0	9.8	-119.42	-610.7	-578.3	513.0	480.2	32.77	15.655	
8,265.0	8,245.8	8,285.1	8,252.9	23.3	9.8	-119.54	-611.3	-577.4	512.5	479.4	33.09	15.486	
8,360.0	8,340.8	8,379.5	8,347.3	23.7	9.8	-119.65	-612.1	-576.5	512.1	478.7	33.42	15.321	
8,455.0	8,435.8	8,475.7	8,443.4	24.0	9.9	-119.78	-612.9	-575.7	511.8	478.0	33.76	15.159	
8,550.0	8,530.8	8,570.8	8,538.5	24.3	9.9	-119.91	-613.7	-574.8	511.5	477.4	34.10	15.000	
8,645.0	8,625.8	8,666.3	8,634.0	24.6	9.9	-120.04	-614.5	-573.9	511.0	476.5	34.43	14.841	
8,740.0	8,720.8	8,761.6	8,729.3	24.9	9.9	-120.18	-615.4	-572.8	510.5	475.8	34.77	14.685	
8,835.0	8,815.8	8,856.7	8,824.4	25.3	9.9	-120.30	-616.0	-571.8	510.0	474.9	35.09	14.532	
8,930.0	8,910.8	8,953.9	8,921.6	25.6	9.9	-120.39	-616.3	-570.7	509.2	473.7	35.41	14.379	
9,025.0	9,005.8	9,049.6	9,017.3	25.9	9.9	-120.47	-616.4	-569.5	508.2	472.5	35.72	14.228	
9,120.0	9,100.8	9,145.0	9,112.7	26.2	9.8	-120.52	-616.2	-568.3	507.1	471.1	36.02	14.078	
9,215.0	9,195.8	9,243.4	9,211.0	26.5	9.8	-120.50	-615.2	-567.0	505.5	469.2	36.32	13.917	
9,310.0	9,290.8	9,340.2	9,307.8	26.9	9.8	-120.41	-613.6	-565.7	503.6	467.0	36.63	13.749	
9,405.0	9,385.8	9,429.3	9,396.9	27.2	9.8	-120.35	-612.2	-564.4	501.7	464.8	36.94	13.582	
9,500.0	9,480.8	9,521.8	9,489.4	27.5	9.8	-120.42	-612.5	-563.7	501.2	464.0	37.27	13.447	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FEED PROJECT - GREEN EYESHAD FEDERAL COM #602H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12018-MWD+IFR1+FDIR								Rule Assigned:				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,595.0	9,575.8	9,621.1	9,588.7	27.8	9.8	-120.42	-611.9	-562.7	500.1	462.5	37.59	13.306	
9,681.4	9,662.2	9,700.0	9,667.6	28.1	9.8	-120.40	-611.3	-562.0	499.1	461.2	37.88	13.175	
9,690.0	9,670.8	9,705.9	9,673.4	28.2	9.8	-120.40	-611.3	-562.0	499.1	461.2	37.92	13.163	
9,785.0	9,765.8	9,787.9	9,755.5	28.5	9.9	-120.45	-612.7	-563.6	501.4	463.1	38.33	13.082	
9,880.0	9,860.8	9,884.1	9,851.6	28.8	10.0	-120.50	-614.5	-565.9	504.3	465.6	38.76	13.011	
9,975.0	9,955.8	9,977.3	9,944.7	29.1	10.1	-120.56	-616.4	-567.9	507.0	467.9	39.19	12.939	
10,070.0	10,050.8	10,069.5	10,036.9	29.5	10.2	-120.66	-618.9	-570.3	510.5	470.9	39.61	12.886	
10,165.0	10,145.8	10,164.3	10,131.6	29.8	10.3	-120.85	-622.1	-572.6	514.1	474.1	40.04	12.840	
10,260.0	10,240.8	10,259.8	10,227.1	30.1	10.4	-121.03	-625.4	-574.8	517.7	477.2	40.47	12.793	
10,355.0	10,335.8	10,357.2	10,324.4	30.4	10.5	-121.18	-628.3	-577.0	521.0	480.1	40.90	12.740	
10,450.0	10,430.8	10,454.8	10,421.9	30.8	10.6	-121.30	-630.7	-578.8	523.7	482.4	41.33	12.672	
10,545.0	10,525.8	10,540.8	10,507.8	31.1	10.7	-121.31	-632.3	-581.4	527.1	485.3	41.75	12.623	
10,640.0	10,620.8	10,657.4	10,624.4	31.4	10.8	-121.02	-631.4	-585.0	529.2	487.0	42.18	12.547	
10,735.0	10,715.8	10,752.0	10,718.9	31.7	10.9	-120.71	-629.2	-586.9	529.7	487.2	42.56	12.447	
10,830.0	10,810.8	10,854.7	10,821.6	32.1	10.9	-120.36	-626.4	-588.5	529.7	486.7	42.94	12.335	
10,925.0	10,905.8	10,948.1	10,915.0	32.4	10.9	-120.05	-623.5	-589.2	528.7	485.5	43.29	12.214	
11,020.0	11,000.8	11,043.9	11,010.7	32.7	11.0	-119.87	-621.6	-589.3	527.9	484.3	43.64	12.098	
11,115.0	11,095.8	11,139.1	11,105.9	33.1	11.0	-119.70	-619.8	-589.4	527.1	483.2	43.99	11.985	
11,210.0	11,190.8	11,235.2	11,202.0	33.4	11.0	-119.59	-618.5	-589.1	526.2	481.9	44.32	11.873	
11,305.0	11,285.8	11,332.7	11,299.5	33.7	11.0	-119.61	-618.0	-587.7	524.8	480.2	44.64	11.756	
11,400.0	11,380.8	11,431.5	11,398.3	34.0	11.0	-119.70	-617.7	-585.7	523.0	478.1	44.97	11.630	
11,495.0	11,475.8	11,527.9	11,494.7	34.4	11.0	-119.84	-617.7	-583.1	520.7	475.4	45.30	11.495	
11,590.0	11,570.8	11,622.6	11,589.3	34.7	11.0	-119.98	-617.6	-580.2	518.2	472.6	45.63	11.356	
11,685.0	11,665.8	11,716.7	11,683.3	35.0	11.0	-120.16	-617.8	-577.4	515.9	469.9	45.96	11.224	
11,780.0	11,760.8	11,810.8	11,777.4	35.4	11.0	-120.37	-618.3	-574.6	513.7	467.4	46.30	11.095	
11,875.0	11,855.8	11,910.3	11,876.8	35.7	11.0	-120.72	-619.8	-570.8	511.3	464.6	46.66	10.958	
11,970.0	11,950.8	12,008.3	11,974.6	36.0	11.0	-121.41	-623.2	-564.8	508.0	460.9	47.02	10.803	
12,065.0	12,045.8	12,094.6	12,060.6	36.3	11.2	-122.06	-627.2	-560.1	505.9	458.5	47.36	10.681	
12,160.0	12,140.8	12,191.3	12,157.2	36.7	11.2	-122.62	-630.1	-555.5	503.6	455.9	47.69	10.558	
12,255.0	12,235.8	12,283.4	12,248.3	37.0	11.2	-121.35	-619.9	-560.2	502.0	453.9	48.06	10.445	
12,350.0	12,330.8	12,443.6	12,397.4	37.3	11.3	-114.89	-565.7	-577.7	495.7	447.3	48.34	10.253	
12,445.0	12,425.8	12,537.7	12,474.4	37.6	11.3	-108.63	-513.0	-589.2	484.9	436.4	48.55	9.988	
12,540.0	12,520.6	12,608.9	12,526.1	37.7	11.4	78.16	-465.3	-599.7	479.4	430.6	48.78	9.828	
12,565.7	12,546.1	12,623.5	12,536.1	37.7	11.4	79.65	-454.8	-602.0	479.1	430.1	48.92	9.793	
12,635.0	12,613.1	12,661.4	12,561.3	37.7	11.4	83.31	-427.2	-607.8	481.9	432.5	49.46	9.743 SF	
12,730.0	12,699.5	12,687.7	12,578.4	37.7	11.5	84.43	-407.5	-611.6	497.2	446.5	50.70	9.806	
12,825.0	12,776.5	12,692.5	12,581.4	37.8	11.5	81.24	-403.9	-612.3	527.0	475.0	52.08	10.119	
12,920.0	12,841.1	12,678.0	12,572.1	37.8	11.5	74.15	-414.8	-610.2	568.7	515.5	53.25	10.681	
13,015.0	12,890.7	12,662.1	12,561.8	37.9	11.4	66.08	-426.7	-607.9	617.6	563.7	53.89	11.460	
13,110.0	12,923.3	12,631.0	12,541.1	37.9	11.4	56.92	-449.4	-603.2	668.7	614.4	54.32	12.311	
13,205.0	12,937.6	12,584.0	12,508.7	38.0	11.4	48.18	-482.6	-595.9	718.0	663.4	54.61	13.149	
13,300.0	12,936.1	12,559.8	12,491.1	38.1	11.3	44.85	-498.9	-592.3	764.9	710.5	54.41	14.058	
13,395.0	12,932.9	12,537.0	12,473.9	38.1	11.3	43.64	-513.5	-589.1	817.0	762.8	54.18	15.079	
13,490.0	12,929.6	12,506.0	12,449.5	38.2	11.3	42.02	-532.2	-585.0	874.3	820.3	54.06	16.174	
13,585.0	12,926.3	12,490.0	12,436.6	38.3	11.3	41.20	-541.4	-583.0	936.4	882.6	53.78	17.412	

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #702H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12350-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	2.7	2.7	3.0	4.2	178.96	-532.7	9.7	532.8				
95.0	95.0	103.0	103.0	3.0	4.2	178.98	-532.2	9.4	532.3	525.1	7.24	73.494	
190.0	190.0	198.9	198.8	3.0	4.2	179.04	-531.0	8.9	531.1	523.9	7.25	73.261	
285.0	285.0	294.7	294.7	3.0	4.3	179.14	-529.9	8.0	530.0	522.7	7.26	72.952	
380.0	380.0	389.4	389.4	3.0	4.3	179.23	-528.6	7.1	528.7	521.4	7.29	72.545	
475.0	475.0	483.1	483.0	3.0	4.3	179.32	-527.6	6.3	527.6	520.3	7.32	72.100	
570.0	570.0	579.3	579.2	3.1	4.3	179.44	-526.5	5.2	526.5	519.2	7.36	71.585	
665.0	665.0	674.1	674.1	3.1	4.3	179.55	-525.3	4.1	525.3	517.9	7.40	70.993	
749.0	749.0	751.7	751.6	3.1	4.3	179.63	-524.7	3.4	524.8	517.3	7.44	70.512	
760.0	760.0	762.0	761.9	3.1	4.3	179.63	-524.8	3.4	524.8	517.3	7.45	70.471	
855.0	855.0	854.8	854.7	3.2	4.3	179.65	-525.2	3.2	525.2	517.7	7.48	70.192	
950.0	950.0	949.8	949.8	3.2	4.3	179.66	-525.7	3.1	525.7	518.2	7.52	69.876	
1,045.0	1,045.0	1,044.7	1,044.6	3.3	4.3	179.67	-526.2	3.0	526.2	518.6	7.57	69.486	
1,140.0	1,140.0	1,146.3	1,146.3	3.3	4.4	179.69	-526.5	2.9	526.5	518.9	7.63	68.980	
1,235.0	1,235.0	1,245.3	1,245.3	3.4	4.4	179.73	-525.3	2.5	525.3	517.6	7.71	68.160	
1,330.0	1,330.0	1,360.7	1,360.5	3.4	4.4	179.92	-521.1	0.7	521.8	514.0	7.78	67.031	
1,425.0	1,425.0	1,472.3	1,471.8	3.5	4.4	-179.75	-513.4	-2.2	515.3	507.4	7.86	65.546	
1,520.0	1,520.0	1,568.2	1,567.3	3.6	4.5	-179.42	-505.1	-5.1	507.1	499.1	7.95	63.747	
1,615.0	1,615.0	1,672.1	1,670.6	3.6	4.5	-179.01	-494.6	-8.5	497.5	489.5	8.05	61.839	
1,710.0	1,710.0	1,766.3	1,764.3	3.7	4.6	-178.62	-484.6	-11.7	487.4	479.3	8.15	59.800	
1,805.0	1,805.0	1,860.7	1,858.0	3.8	4.6	-178.21	-474.5	-14.9	477.4	469.1	8.26	57.780	
1,900.0	1,900.0	1,954.4	1,951.1	3.9	4.6	-177.80	-464.6	-17.9	467.4	459.0	8.38	55.789	
1,995.0	1,995.0	2,049.2	2,045.3	3.9	4.7	-177.38	-454.5	-20.8	457.5	449.0	8.50	53.827	
2,090.0	2,090.0	2,143.8	2,139.4	4.1	4.7	-17.19	-444.4	-23.8	446.2	437.5	8.71	51.212	
2,185.0	2,184.9	2,238.0	2,233.0	4.6	4.8	-17.03	-434.4	-26.4	431.9	422.7	9.21	46.909	
2,280.0	2,279.6	2,331.8	2,326.3	5.2	4.9	-17.03	-424.3	-28.8	414.6	404.8	9.72	42.651	
2,375.0	2,374.0	2,425.7	2,419.5	5.6	4.9	-17.07	-414.0	-31.0	394.9	384.9	10.03	39.370	
2,470.0	2,468.5	2,519.4	2,512.6	5.7	5.0	-17.08	-403.6	-33.2	375.1	364.9	10.22	36.714	
2,565.0	2,563.0	2,610.1	2,602.8	5.9	5.0	-17.08	-393.4	-35.4	355.2	344.8	10.39	34.172	
2,660.0	2,657.5	2,699.2	2,691.3	6.0	5.1	-16.88	-384.7	-38.8	336.7	326.1	10.60	31.773	
2,755.0	2,752.0	2,792.9	2,784.5	6.2	5.2	-16.62	-375.7	-42.6	318.3	307.5	10.81	29.440	
2,850.0	2,846.4	2,885.1	2,876.3	6.4	5.2	-16.40	-366.8	-45.9	300.0	288.9	11.05	27.150	
2,945.0	2,940.9	2,974.6	2,965.4	6.6	5.3	-16.15	-359.3	-49.3	282.8	271.5	11.30	25.015	
3,040.0	3,035.4	3,068.2	3,058.6	6.8	5.4	-15.86	-351.7	-52.7	265.9	254.3	11.57	22.984	
3,135.0	3,129.9	3,162.1	3,152.2	7.0	5.4	-15.64	-344.1	-55.8	249.0	237.1	11.85	21.016	
3,230.0	3,224.3	3,255.4	3,245.1	7.3	5.5	-15.38	-336.5	-58.9	232.0	219.8	12.14	19.111	
3,325.0	3,318.8	3,349.2	3,338.5	7.5	5.6	-15.08	-328.8	-61.9	215.0	202.6	12.44	17.283	
3,420.0	3,413.3	3,443.2	3,432.1	7.8	5.7	-14.59	-320.9	-65.5	197.8	185.0	12.75	15.510	
3,515.0	3,507.8	3,536.7	3,525.2	8.0	5.7	-13.94	-312.7	-69.1	180.4	167.3	13.08	13.794	
3,610.0	3,602.3	3,629.5	3,617.5	8.3	5.8	-12.70	-304.7	-74.1	163.2	149.8	13.42	12.169	
3,705.0	3,696.7	3,723.3	3,710.8	8.6	5.9	-10.88	-296.5	-79.8	146.2	132.5	13.76	10.628	
3,800.0	3,791.2	3,817.0	3,803.9	8.8	6.0	-8.64	-288.1	-85.3	129.1	115.0	14.11	9.148	
3,895.0	3,885.7	3,907.1	3,893.6	9.1	6.1	-6.17	-280.8	-90.2	112.9	98.4	14.49	7.789	
3,990.0	3,980.2	4,000.6	3,986.8	9.4	6.2	-3.63	-275.6	-94.4	99.0	84.2	14.84	6.670	
4,085.0	4,074.7	4,094.5	4,080.5	9.7	6.2	-0.24	-270.2	-98.7	85.3	70.1	15.20	5.610	
4,180.0	4,169.1	4,188.4	4,174.1	10.0	6.3	4.53	-264.8	-103.1	72.0	56.4	15.55	4.629	
4,275.0	4,263.6	4,282.2	4,267.7	10.3	6.4	11.49	-259.4	-107.6	59.4	43.6	15.88	3.743	
4,370.0	4,358.1	4,376.3	4,361.5	10.6	6.5	22.07	-253.6	-112.1	48.0	31.8	16.18	2.965	
4,465.0	4,452.6	4,470.2	4,455.1	10.9	6.6	38.29	-247.7	-116.2	38.6	22.2	16.42	2.350	
4,560.0	4,547.1	4,564.6	4,549.2	11.2	6.7	61.64	-241.4	-119.3	32.9	16.2	16.64	1.975 Advise and Monitor	
4,614.9	4,601.6	4,619.0	4,603.5	11.4	6.7	77.50	-237.8	-120.3	31.8	15.0	16.82	1.891 Advise and Monitor, CC, ES, SF	
4,655.0	4,641.5	4,658.8	4,643.3	11.5	6.8	89.17	-235.3	-120.7	32.3	15.3	16.97	1.904 Advise and Monitor	

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #702H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12350-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,750.0	4,736.0	4,753.6	4,737.9	11.9	6.9	113.14	-230.1	-120.3	36.7	19.3	17.45	2.105	
4,845.0	4,830.5	4,847.7	4,831.9	12.2	6.9	130.16	-226.4	-118.6	44.0	26.0	17.97	2.449	
4,940.0	4,925.0	4,941.4	4,925.6	12.5	7.0	138.88	-223.4	-119.6	54.1	35.7	18.45	2.933	
5,035.0	5,019.4	5,035.7	5,019.8	12.8	7.1	142.84	-220.7	-122.7	65.5	46.6	18.88	3.467	
5,130.0	5,113.9	5,131.4	5,115.4	13.1	7.2	146.61	-218.8	-124.4	75.9	56.5	19.33	3.925	
5,225.0	5,208.4	5,226.7	5,210.7	13.5	7.3	150.63	-217.9	-124.2	85.2	65.4	19.76	4.310	
5,320.0	5,302.9	5,321.2	5,305.1	13.8	7.3	154.63	-217.4	-122.5	94.4	74.2	20.14	4.684	
5,415.0	5,397.4	5,415.9	5,399.9	14.1	7.3	157.96	-217.2	-120.8	103.5	83.0	20.51	5.045	
5,510.0	5,491.8	5,511.1	5,495.0	14.4	7.3	160.93	-217.2	-118.7	112.8	91.9	20.88	5.402	
5,605.0	5,586.4	5,605.2	5,589.1	14.8	7.3	163.37	-217.7	-116.6	121.0	99.8	21.23	5.699	
5,700.0	5,681.1	5,699.6	5,683.5	15.1	7.4	164.69	-217.7	-115.8	128.2	106.6	21.59	5.936	
5,795.0	5,775.9	5,794.1	5,778.0	15.4	7.5	165.21	-217.4	-116.1	134.2	112.2	21.99	6.104	
5,890.0	5,870.8	5,889.2	5,873.1	15.7	7.5	165.40	-217.1	-116.8	138.6	116.2	22.36	6.198	
5,985.0	5,965.8	5,984.0	5,967.9	16.1	7.6	165.45	-216.8	-117.3	141.5	118.7	22.74	6.221	
6,080.0	6,060.8	6,078.9	6,062.8	16.3	7.7	165.37	-216.3	-117.8	143.0	119.9	23.11	6.188	
6,175.0	6,155.8	6,173.6	6,157.5	16.6	7.8	5.31	-215.8	-118.2	143.5	120.0	23.48	6.111	
6,270.0	6,250.8	6,269.0	6,252.9	16.9	7.9	5.08	-215.4	-118.8	143.9	120.0	23.85	6.033	
6,365.0	6,345.8	6,363.8	6,347.7	17.2	8.0	4.90	-214.9	-119.2	144.3	120.1	24.23	5.957	
6,460.0	6,440.8	6,458.7	6,442.6	17.5	8.1	4.77	-214.4	-119.5	144.8	120.2	24.61	5.882	
6,555.0	6,535.8	6,553.8	6,537.7	17.8	8.2	4.63	-213.9	-119.8	145.3	120.3	25.00	5.810	
6,650.0	6,630.8	6,648.9	6,632.8	18.1	8.3	4.50	-213.5	-120.1	145.7	120.3	25.39	5.738	
6,745.0	6,725.8	6,743.9	6,727.8	18.4	8.4	4.36	-212.9	-120.4	146.2	120.4	25.79	5.670	
6,840.0	6,820.8	6,838.4	6,822.3	18.7	8.5	4.19	-212.3	-120.8	146.8	120.6	26.17	5.607	
6,935.0	6,915.8	6,933.7	6,917.6	19.0	8.6	3.96	-211.7	-121.3	147.4	120.8	26.57	5.547	
7,030.0	7,010.8	7,028.9	7,012.7	19.3	8.7	3.68	-211.2	-122.0	147.8	120.9	26.95	5.486	
7,125.0	7,105.8	7,123.6	7,107.5	19.6	8.8	3.47	-210.6	-122.5	148.3	121.0	27.34	5.425	
7,220.0	7,200.8	7,218.8	7,202.7	19.9	9.0	3.24	-210.0	-123.1	148.9	121.2	27.74	5.369	
7,315.0	7,295.8	7,313.8	7,297.7	20.2	9.1	2.98	-209.6	-123.7	149.3	121.2	28.12	5.309	
7,410.0	7,390.8	7,409.0	7,392.8	20.5	9.2	2.74	-209.1	-124.3	149.8	121.3	28.52	5.252	
7,505.0	7,485.8	7,503.5	7,487.4	20.8	9.3	2.65	-208.6	-124.5	150.2	121.3	28.93	5.194	
7,600.0	7,580.8	7,598.9	7,582.7	21.2	9.4	2.47	-208.1	-125.0	150.7	121.4	29.33	5.138	
7,695.0	7,675.8	7,694.2	7,678.1	21.5	9.5	2.32	-207.8	-125.4	151.0	121.3	29.73	5.080	
7,790.0	7,770.8	7,789.1	7,772.9	21.8	9.6	2.26	-207.6	-125.5	151.2	121.1	30.13	5.019	
7,885.0	7,865.8	7,883.8	7,867.6	22.1	9.7	2.19	-207.1	-125.7	151.7	121.2	30.55	4.967	
7,980.0	7,960.8	7,979.1	7,963.0	22.4	9.8	2.01	-206.8	-126.2	152.0	121.1	30.95	4.912	
8,075.0	8,055.8	8,074.7	8,058.5	22.7	9.9	1.88	-206.6	-126.5	152.1	120.8	31.32	4.857	
8,083.2	8,064.0	8,082.7	8,066.6	22.7	9.9	1.88	-206.6	-126.5	152.1	120.8	31.35	4.853	
8,170.0	8,150.8	8,169.0	8,152.9	23.0	10.0	1.83	-206.4	-126.6	152.4	120.6	31.72	4.803	
8,265.0	8,245.8	8,264.6	8,248.5	23.3	10.1	1.71	-206.2	-126.9	152.6	120.5	32.13	4.750	
8,360.0	8,340.8	8,360.2	8,344.1	23.7	10.1	1.67	-206.4	-127.1	152.4	119.9	32.44	4.697	
8,455.0	8,435.8	8,455.3	8,439.2	24.0	10.1	1.71	-206.8	-127.0	151.9	119.2	32.74	4.641	
8,550.0	8,530.8	8,550.5	8,534.3	24.3	10.0	1.79	-207.4	-126.8	151.4	118.3	33.04	4.582	
8,645.0	8,625.8	8,645.3	8,629.2	24.6	10.0	1.90	-208.0	-126.5	150.8	117.5	33.34	4.524	
8,740.0	8,720.8	8,740.5	8,724.3	24.9	10.0	2.01	-208.4	-126.2	150.4	116.7	33.65	4.468	
8,835.0	8,815.8	8,834.9	8,818.7	25.3	9.9	2.13	-208.8	-125.9	150.0	116.0	33.97	4.416	
8,895.7	8,876.5	8,895.2	8,879.1	25.5	9.9	2.20	-208.9	-125.7	149.9	115.7	34.18	4.386	
8,930.0	8,910.8	8,929.0	8,912.9	25.6	9.9	2.26	-208.9	-125.6	150.0	115.7	34.31	4.371	
9,025.0	9,005.8	9,024.1	9,007.9	25.9	10.0	2.44	-208.6	-125.1	150.3	115.6	34.71	4.330	
9,120.0	9,100.8	9,118.4	9,102.3	26.2	10.0	2.58	-208.0	-124.7	150.9	115.8	35.12	4.296	
9,215.0	9,195.8	9,212.5	9,196.4	26.5	10.1	2.72	-207.1	-124.3	151.7	116.2	35.53	4.271	
9,310.0	9,290.8	9,307.1	9,290.9	26.9	10.2	2.77	-205.8	-124.1	153.1	117.2	35.96	4.259	
9,405.0	9,385.8	9,402.1	9,385.9	27.2	10.3	2.82	-204.0	-123.9	154.9	118.5	36.39	4.256	

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FEED PROJECT - GREEN EYESHAD FEDERAL COM #702H - OWB - AWP													Offset Site Error: 3.0 usft
Survey Program: 100-Standard Keeper 104, 12350-MWD+IFR1+FDIR													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (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)			
9,500.0	9,480.8	9,496.7	9,480.5	27.5	10.4	2.62	-202.4	-124.3	156.5	119.7	36.81	4.251	
9,595.0	9,575.8	9,591.9	9,575.7	27.8	10.5	2.36	-200.6	-125.0	158.3	121.0	37.25	4.249	
9,690.0	9,670.8	9,687.0	9,670.8	28.2	10.6	2.14	-199.0	-125.5	159.8	122.1	37.68	4.241	
9,785.0	9,765.8	9,782.7	9,766.5	28.5	10.8	2.02	-197.6	-125.8	161.2	123.1	38.12	4.228	
9,880.0	9,860.8	9,878.5	9,862.2	28.8	10.9	1.97	-196.7	-125.9	162.1	123.5	38.56	4.203	
9,975.0	9,955.8	9,974.7	9,958.5	29.1	11.0	1.93	-196.4	-126.0	162.4	123.4	38.98	4.167	
10,070.0	10,050.8	10,070.8	10,054.6	29.5	11.0	1.77	-196.7	-126.5	162.0	122.7	39.32	4.121	
10,165.0	10,145.8	10,165.4	10,149.1	29.8	11.0	1.65	-197.5	-126.8	161.3	121.7	39.64	4.069	
10,244.0	10,225.2	10,244.0	10,227.8	30.1	11.0	1.47	-197.6	-127.4	161.1	121.2	39.93	4.035	
10,260.0	10,240.8	10,259.4	10,243.2	30.1	11.1	1.44	-197.6	-127.4	161.1	121.1	39.99	4.029	
10,355.0	10,335.8	10,353.4	10,337.1	30.4	11.2	1.25	-197.2	-128.0	161.6	121.2	40.39	4.000	
10,450.0	10,430.8	10,448.3	10,432.0	30.8	11.3	1.15	-196.4	-128.2	162.4	121.6	40.83	3.977	
10,545.0	10,525.8	10,545.1	10,528.8	31.1	11.3	1.40	-195.8	-127.5	163.0	121.7	41.25	3.951	
10,640.0	10,620.8	10,639.7	10,623.4	31.4	11.3	2.07	-196.1	-125.6	162.7	121.1	41.60	3.911	
10,640.2	10,620.9	10,639.8	10,623.5	31.4	11.3	2.07	-196.1	-125.6	162.7	121.1	41.60	3.911	
10,735.0	10,715.8	10,733.3	10,717.0	31.7	11.4	2.74	-195.7	-123.7	163.2	121.2	41.96	3.889	
10,830.0	10,810.8	10,827.5	10,811.2	32.1	11.4	3.30	-194.8	-122.0	164.2	121.8	42.35	3.877	
10,925.0	10,905.8	10,921.5	10,905.1	32.4	11.5	3.83	-193.4	-120.4	165.7	123.0	42.76	3.877	
11,020.0	11,000.8	11,016.6	11,000.2	32.7	11.5	4.23	-191.5	-119.1	167.7	124.5	43.18	3.883	
11,115.0	11,095.8	11,111.3	11,094.9	33.1	11.6	4.56	-189.7	-118.0	169.5	125.9	43.60	3.888	
11,210.0	11,190.8	11,206.4	11,190.0	33.4	11.7	4.79	-187.9	-117.2	171.4	127.4	44.04	3.893	
11,305.0	11,285.8	11,301.4	11,284.9	33.7	11.8	5.01	-186.0	-116.4	173.4	129.0	44.47	3.900	
11,400.0	11,380.8	11,394.5	11,378.0	34.0	11.9	5.19	-183.8	-115.6	175.7	130.8	44.89	3.914	
11,495.0	11,475.8	11,490.6	11,474.0	34.4	12.0	5.02	-180.7	-115.9	178.7	133.4	45.34	3.942	
11,590.0	11,570.8	11,586.1	11,569.5	34.7	12.1	4.22	-178.4	-118.2	180.9	135.1	45.77	3.952	
11,685.0	11,665.8	11,686.6	11,670.0	35.0	12.2	3.46	-177.4	-120.5	181.6	135.4	46.22	3.929	
11,780.0	11,760.8	11,783.9	11,767.2	35.4	12.2	2.69	-178.7	-123.1	180.3	133.7	46.61	3.868	
11,875.0	11,855.8	11,878.0	11,861.3	35.7	12.3	1.87	-180.3	-125.7	178.5	131.5	46.95	3.801	
11,970.0	11,950.8	11,971.9	11,955.1	36.0	12.3	1.10	-181.4	-128.1	177.3	130.0	47.31	3.749	
12,065.0	12,045.8	12,066.4	12,049.6	36.3	12.4	0.33	-182.1	-130.5	176.6	129.0	47.68	3.705	
12,160.0	12,140.8	12,161.6	12,144.7	36.7	12.4	-0.41	-182.7	-132.7	176.0	128.0	48.05	3.663	
12,255.0	12,235.8	12,256.4	12,239.5	37.0	12.5	-1.15	-183.4	-135.0	175.3	126.9	48.42	3.620	
12,350.0	12,330.8	12,351.8	12,335.0	37.3	12.5	-1.83	-184.2	-137.1	174.6	125.9	48.79	3.579	
12,443.7	12,424.5	12,444.0	12,427.1	37.6	12.5	-2.57	-185.3	-139.3	173.6	124.5	49.06	3.538	
12,445.0	12,425.8	12,444.0	12,427.1	37.6	12.5	-2.57	-185.3	-139.3	173.6	124.5	49.07	3.538	
12,540.0	12,520.6	12,516.3	12,499.1	37.7	12.6	177.31	-181.1	-141.2	183.2	133.8	49.45	3.705	
12,635.0	12,613.1	12,569.2	12,551.0	37.7	12.6	176.91	-170.6	-142.8	222.9	172.4	50.52	4.413	
12,730.0	12,699.5	12,603.7	12,583.2	37.7	12.6	176.35	-158.5	-143.9	290.0	238.3	51.69	5.609	
12,825.0	12,776.5	12,633.0	12,609.2	37.8	12.6	175.15	-145.1	-144.9	374.0	321.7	52.27	7.155	
12,920.0	12,841.1	12,633.0	12,609.2	37.8	12.6	168.35	-145.1	-144.9	465.9	413.0	52.91	8.806	
13,015.0	12,890.7	12,633.0	12,609.2	37.9	12.6	14.42	-145.1	-144.9	560.7	507.6	53.08	10.564	
13,110.0	12,923.3	12,633.0	12,609.2	37.9	12.6	4.06	-145.1	-144.9	654.2	601.3	52.95	12.355	
13,205.0	12,937.6	12,633.0	12,609.2	38.0	12.6	2.26	-145.1	-144.9	743.9	691.3	52.62	14.137	
13,300.0	12,936.1	12,608.2	12,587.2	38.1	12.6	1.66	-156.7	-144.0	827.9	775.5	52.46	15.781	
13,395.0	12,932.9	12,586.0	12,566.8	38.1	12.6	1.48	-165.2	-143.3	913.6	861.3	52.31	17.467	

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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	PITCHBLEND 24-25 FEDERAL PROJECT - PITCHBLEND 24-25 FED 603H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program:	0-Standard Keeper 104, 12067-MWD+IFR1+FDIR											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:							
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)	Minimum Separation (usft)	Separation Factor	Warning
20,330.0	12,692.8	12,339.6	12,293.5	70.4	13.7	-61.08	-8,507.6	571.9	940.9	869.1	71.80	13.103	
20,425.0	12,689.5	12,360.9	12,311.2	71.0	13.7	-62.33	-8,519.5	572.0	883.4	809.3	74.13	11.918	
20,520.0	12,686.2	12,385.6	12,331.0	71.6	13.7	-63.78	-8,534.3	572.2	831.4	754.9	76.50	10.868	
20,527.1	12,686.0	12,387.6	12,332.5	71.7	13.7	-63.89	-8,535.5	572.2	827.8	748.7	79.07	10.469	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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: PITCHBLEND 24-25 FEDERAL PROJECT - PITCHBLEND 24-25 FED 604H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12070-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		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)	Minimum Separation (usft)	Separation Factor		
19,950.0	12,706.0	12,300.0	12,257.0	68.0	14.2	42.99	-8,315.6	-438.3	945.9	882.3	63.60	14.872		
20,045.0	12,702.7	12,325.0	12,278.8	68.6	14.2	44.64	-8,327.8	-438.2	868.9	803.8	65.11	13.345		
20,140.0	12,699.4	12,342.2	12,293.5	69.2	14.2	45.81	-8,336.8	-438.1	794.9	727.7	67.20	11.828		
20,235.0	12,696.1	12,363.3	12,311.0	69.8	14.3	47.26	-8,348.6	-438.0	724.5	654.9	69.57	10.415		
20,330.0	12,692.8	12,387.6	12,330.5	70.4	14.3	48.98	-8,363.1	-437.9	658.5	586.3	72.23	9.117		
20,425.0	12,689.5	12,415.9	12,352.2	71.0	14.3	51.01	-8,381.2	-437.7	597.9	522.8	75.13	7.959		
20,520.0	12,686.2	12,450.0	12,376.9	71.6	14.3	53.48	-8,404.7	-437.5	543.8	465.7	78.08	6.965		
20,527.1	12,686.0	12,450.0	12,376.9	71.7	14.3	53.48	-8,404.7	-437.5	540.0	458.7	81.31	6.641	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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: PITCHBLEND 24-25 FEDERAL PROJECT - PITCHBLEND 24-25 FED 703H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12323-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				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)	Minimum Separation (usft)	Separation Factor		
19,760.0	12,712.5	12,450.0	12,444.2	66.8	16.4	-37.25	-8,273.7	91.4	958.2	900.3	57.90	16.550		
19,855.0	12,709.2	12,450.0	12,444.2	67.4	16.4	-37.25	-8,273.7	91.4	867.3	808.8	58.49	14.828		
19,950.0	12,706.0	12,464.4	12,458.0	68.0	16.4	-39.15	-8,277.7	91.5	777.0	718.0	59.03	13.163		
20,045.0	12,702.7	12,475.0	12,468.1	68.6	16.4	-40.66	-8,281.0	91.5	687.8	627.9	59.83	11.496		
20,140.0	12,699.4	12,486.6	12,479.1	69.2	16.4	-42.41	-8,284.7	91.5	599.8	538.8	60.91	9.846		
20,235.0	12,696.1	12,500.0	12,491.7	69.8	16.4	-44.55	-8,289.4	91.6	513.5	451.1	62.42	8.227		
20,330.0	12,692.8	12,518.1	12,508.4	70.4	16.4	-47.70	-8,296.3	91.6	429.8	365.4	64.44	6.670		
20,425.0	12,689.5	12,539.1	12,527.5	71.0	16.4	-51.73	-8,305.1	91.7	350.0	282.6	67.39	5.194		
20,520.0	12,686.2	12,565.4	12,550.8	71.6	16.4	-57.33	-8,317.2	91.8	276.6	205.0	71.59	3.864		
20,527.1	12,686.0	12,567.6	12,552.7	71.7	16.4	-57.84	-8,318.3	91.8	271.5	194.9	76.53	3.547	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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: PITCHBLENDE 24-25 FEDERAL PROJECT - PITCHBLENDE 24-25 FED 802H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12545-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		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)	Minimum Separation (usft)	Separation Factor	
20,045.0	12,702.7	12,625.0	12,587.4	68.6	14.6	-84.72	-8,258.9	666.4	964.6	896.0	68.63	14.054	
20,140.0	12,699.4	12,625.0	12,587.4	69.2	14.6	-84.72	-8,258.9	666.4	906.4	835.5	70.90	12.784	
20,235.0	12,696.1	12,625.0	12,587.4	69.8	14.6	-84.72	-8,258.9	666.4	854.8	781.5	73.35	11.654	
20,330.0	12,692.8	12,638.6	12,600.8	70.4	14.6	-85.76	-8,261.3	666.4	810.9	735.1	75.80	10.698	
20,425.0	12,689.5	12,650.0	12,611.9	71.0	14.7	-86.63	-8,263.6	666.4	776.1	697.9	78.23	9.921	
20,520.0	12,686.2	12,661.4	12,623.1	71.6	14.7	-87.51	-8,266.2	666.4	751.5	671.0	80.44	9.342	
20,527.1	12,686.0	12,662.6	12,624.2	71.7	14.7	-87.59	-8,266.5	666.4	750.1	669.3	80.81	9.282 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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to *KB=30' @ 3409.0usft (TBD)

Offset Depths are relative to Offset Datum

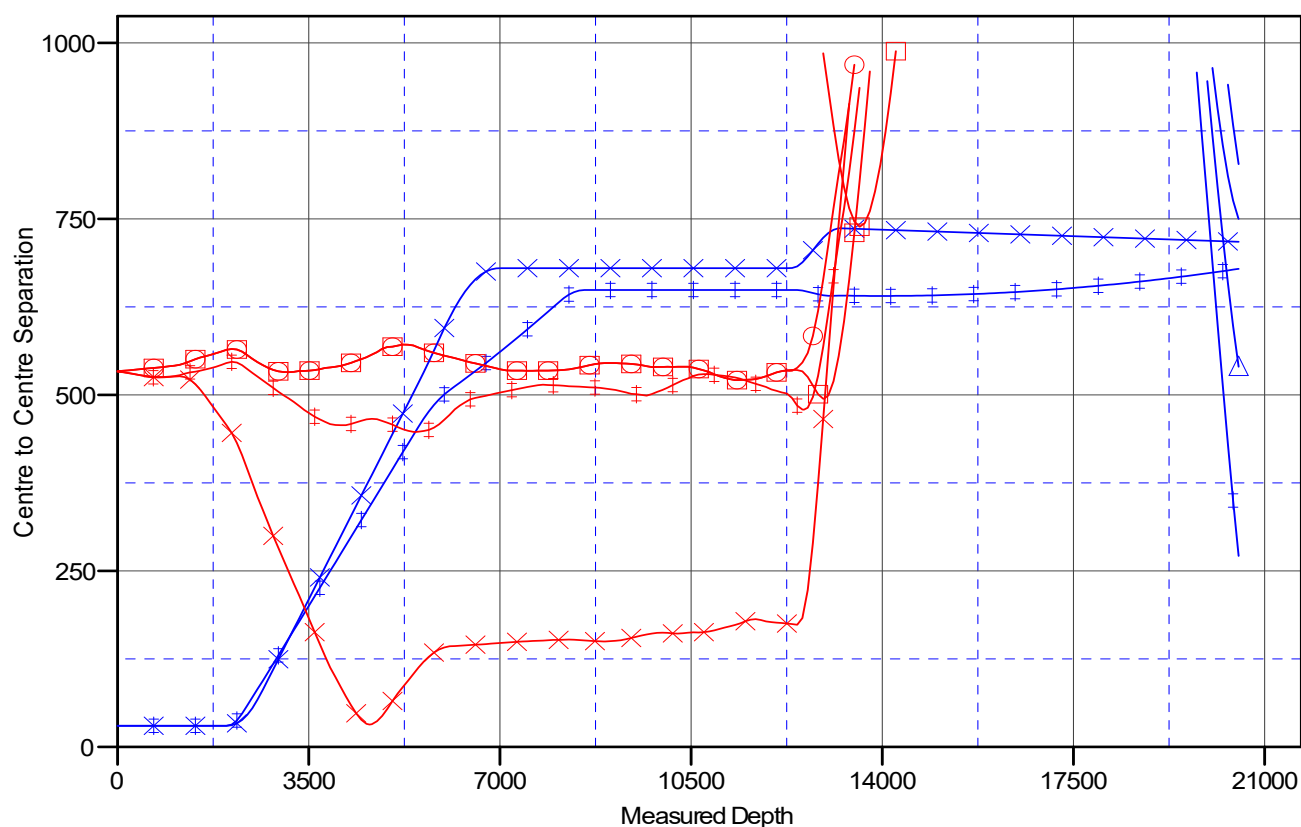
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: BANDANA FEDERAL COM #702H

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

Grid Convergence at Surface is: 0.49°

Ladder Plot



LEGEND

*BANDANA FEDERAL COM#601H, OWB, PWP0 V0	GREEN EYESHAD FEDERAL COM #601H, STD1, AWP V0	PITCHBLEND 24-25 FED 604H, OWB, PWP1 V0
BANDANA FEDERAL COM #602H, OWB, PWP0 V0	GREEN EYESHAD FEDERAL COM #602H, OWB, AWP V0	PITCHBLEND 24-25 FED 703H, OWB, PWP1 V0
JAMACA 12 FEDERAL #1 (P&A), OWB, AWP V0	GREEN EYESHAD FEDERAL COM #702H, OWB, AWP V0	PITCHBLEND 24-25 FED 802H, OWB, PWP1 V0
GREEN EYESHAD FEDERAL COM #601H, OWB, AWP V0	PITCHBLEND 24-25 FED 603H, OWB, PWP1 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 BANDANA FEDERAL COM #702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to *KB=30' @ 3409.0usft (TBD)

Offset Depths are relative to Offset Datum

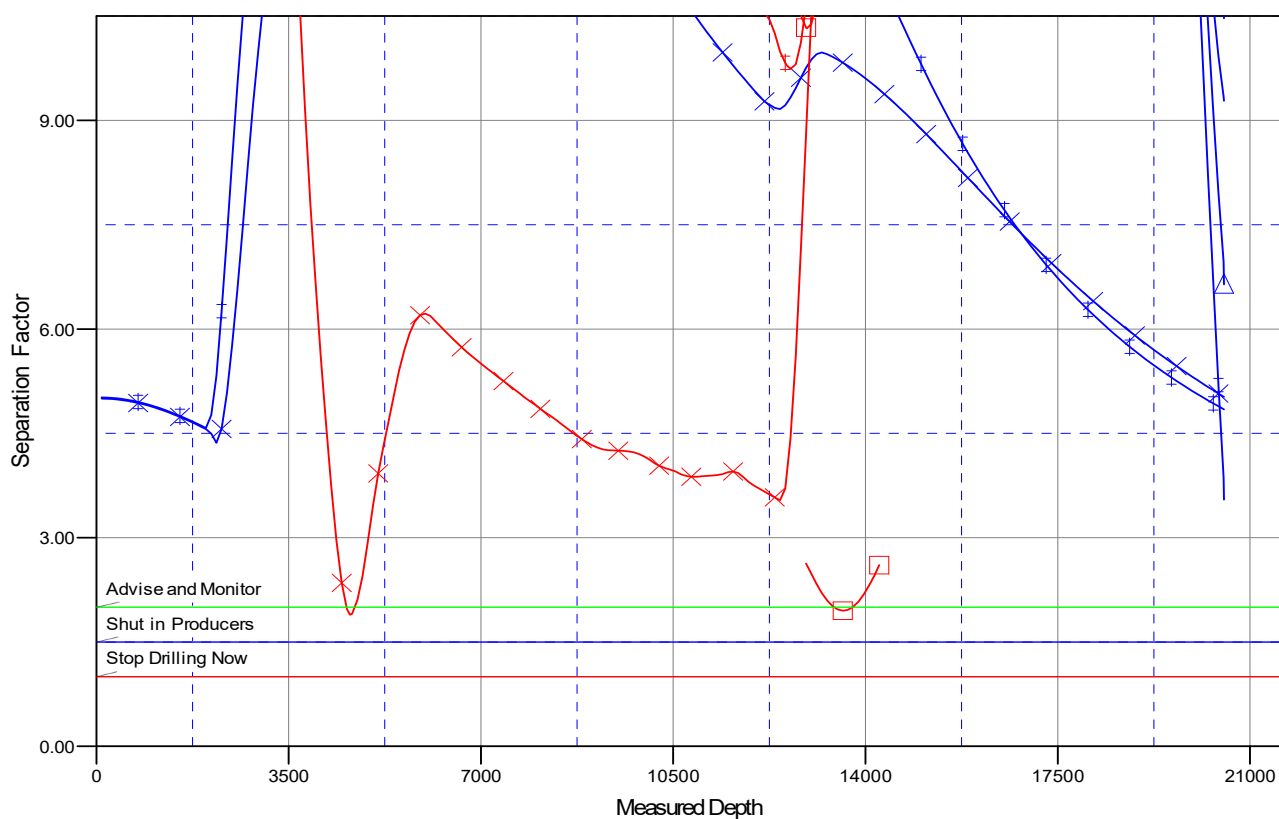
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: BANDANA FEDERAL COM #702H

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

Grid Convergence at Surface is: 0.49°

Separation Factor Plot



LEGEND

	*BANDANA FEDERAL COM #601H, OWB, PWP0 V0		GREEN EYESHAD FEDERAL COM #601H, ST01, AWP V0		PITCHBLEND 24-25 FED 604H, OWB, PWP1 V0
	BANDANA FEDERAL COM #602H, OWB, PWP0 V0		GREEN EYESHAD FEDERAL COM #602H, OWB, AWP V0		PITCHBLEND 24-25 FED 703H, OWB, PWP1 V0
	JAMAICA 12 FEDERAL #1 (P&A), OWB, AWP V0		GREEN EYESHAD FEDERAL COM #702H, OWB, AWP V0		PITCHBLEND 24-25 FED 802H, OWB, PWP1 V0
	GREEN EYESHAD FEDERAL COM #601H, OWB, AWP V0		PITCHBLEND 24-25 FED 603H, OWB, PWP1 V0		

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

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

BANDANA FEDERAL PROJECT

BANDANA FEDERAL COM #702H

300254979800

OWB

Plan: PWP0

Standard Planning Report

07 July, 2022

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #702H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	BULLDOG PROSPECT (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		BANDANA FEDERAL PROJECT				
Site Position:		Northing:	420,262.07 usft	Latitude:	32° 9' 7.497 N	
From:	Map	Easting:	784,314.91 usft	Longitude:	103° 24' 52.813 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.49 °

Well	BANDANA FEDERAL COM #702H					
Well Position	+N/-S	-2,392.4 usft	Northing:	417,869.70 usft	Latitude:	32° 8' 43.949 N
	+E/-W	-1,480.0 usft	Easting:	782,834.90 usft	Longitude:	103° 25' 10.263 W
Position Uncertainty		3.0 usft	Wellhead Elevation:		Ground Level:	3,379.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	1/1/2023	6.27	59.74	47,467.64472928

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	180.49

Plan Survey Tool Program	Date	7/7/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	2,000.0 PWP0 (OWB)	Standard Keeper 104	
			Standard Wireline Keeper ver 1	
2	2,000.0	12,480.0 PWP0 (OWB)	MWD+IFR1+MS	
			OWSG MWD + IFR1 + Multi-St	
3	12,480.0	20,526.7 PWP0 (OWB)	MWD+IFR1+MS	
			OWSG MWD + IFR1 + Multi-St	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #702H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #702H	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	
2,300.2	6.00	200.13	2,299.7	-14.8	-5.4	2.00	2.00	0.00	200.13	
5,501.8	6.00	200.13	5,483.7	-329.2	-120.7	0.00	0.00	0.00	0.00	
6,102.2	0.00	0.00	6,083.0	-358.7	-131.5	1.00	-1.00	0.00	180.00	
12,480.0	0.00	0.00	12,460.8	-358.7	-131.5	0.00	0.00	0.00	0.00	
13,246.6	91.98	179.55	12,938.0	-852.7	-127.6	12.00	12.00	23.42	179.55	
20,476.6	91.98	179.55	12,687.7	-8,078.2	-70.4	0.00	0.00	0.00	0.00	
20,526.7	91.98	179.55	12,686.0	-8,128.2	-70.0	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #702H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #702H	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
Start Build 2.00									
2,100.0	2.00	200.13	2,100.0	-1.6	-0.6	1.6	2.00	2.00	0.00
2,200.0	4.00	200.13	2,199.8	-6.6	-2.4	6.6	2.00	2.00	0.00
2,300.2	6.00	200.13	2,299.7	-14.8	-5.4	14.8	2.00	2.00	0.00
Start 3201.6 hold at 2300.2 MD									
2,400.0	6.00	200.13	2,398.9	-24.6	-9.0	24.6	0.00	0.00	0.00
2,500.0	6.00	200.13	2,498.4	-34.4	-12.6	34.5	0.00	0.00	0.00
2,600.0	6.00	200.13	2,597.8	-44.2	-16.2	44.3	0.00	0.00	0.00
2,700.0	6.00	200.13	2,697.3	-54.0	-19.8	54.2	0.00	0.00	0.00
2,800.0	6.00	200.13	2,796.7	-63.8	-23.4	64.0	0.00	0.00	0.00
2,900.0	6.00	200.13	2,896.2	-73.7	-27.0	73.9	0.00	0.00	0.00
3,000.0	6.00	200.13	2,995.6	-83.5	-30.6	83.7	0.00	0.00	0.00
3,100.0	6.00	200.13	3,095.1	-93.3	-34.2	93.6	0.00	0.00	0.00
3,200.0	6.00	200.13	3,194.5	-103.1	-37.8	103.4	0.00	0.00	0.00
3,300.0	6.00	200.13	3,294.0	-112.9	-41.4	113.3	0.00	0.00	0.00
3,400.0	6.00	200.13	3,393.4	-122.8	-45.0	123.2	0.00	0.00	0.00
3,500.0	6.00	200.13	3,492.9	-132.6	-48.6	133.0	0.00	0.00	0.00
3,600.0	6.00	200.13	3,592.3	-142.4	-52.2	142.9	0.00	0.00	0.00
3,700.0	6.00	200.13	3,691.8	-152.2	-55.8	152.7	0.00	0.00	0.00
3,800.0	6.00	200.13	3,791.2	-162.1	-59.4	162.6	0.00	0.00	0.00
3,900.0	6.00	200.13	3,890.7	-171.9	-63.0	172.4	0.00	0.00	0.00
4,000.0	6.00	200.13	3,990.1	-181.7	-66.6	182.3	0.00	0.00	0.00
4,100.0	6.00	200.13	4,089.6	-191.5	-70.2	192.1	0.00	0.00	0.00
4,200.0	6.00	200.13	4,189.0	-201.3	-73.8	202.0	0.00	0.00	0.00
4,300.0	6.00	200.13	4,288.5	-211.2	-77.4	211.8	0.00	0.00	0.00
4,400.0	6.00	200.13	4,387.9	-221.0	-81.0	221.7	0.00	0.00	0.00
4,500.0	6.00	200.13	4,487.4	-230.8	-84.6	231.5	0.00	0.00	0.00
4,600.0	6.00	200.13	4,586.8	-240.6	-88.2	241.4	0.00	0.00	0.00
4,700.0	6.00	200.13	4,686.3	-250.4	-91.8	251.2	0.00	0.00	0.00
4,800.0	6.00	200.13	4,785.7	-260.3	-95.4	261.1	0.00	0.00	0.00
4,900.0	6.00	200.13	4,885.2	-270.1	-99.0	270.9	0.00	0.00	0.00
5,000.0	6.00	200.13	4,984.6	-279.9	-102.6	280.8	0.00	0.00	0.00
5,100.0	6.00	200.13	5,084.1	-289.7	-106.2	290.6	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #702H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.0	6.00	200.13	5,183.5	-299.5	-109.8	300.5	0.00	0.00	0.00
5,300.0	6.00	200.13	5,283.0	-309.4	-113.4	310.3	0.00	0.00	0.00
5,400.0	6.00	200.13	5,382.4	-319.2	-117.0	320.2	0.00	0.00	0.00
5,501.8	6.00	200.13	5,483.7	-329.2	-120.7	330.2	0.00	0.00	0.00
Start Drop -1.00									
5,600.0	5.02	200.13	5,581.4	-338.0	-123.9	339.1	1.00	-1.00	0.00
5,700.0	4.02	200.13	5,681.1	-345.5	-126.6	346.5	1.00	-1.00	0.00
5,800.0	3.02	200.13	5,780.9	-351.2	-128.8	352.3	1.00	-1.00	0.00
5,900.0	2.02	200.13	5,880.8	-355.4	-130.3	356.5	1.00	-1.00	0.00
6,000.0	1.02	200.13	5,980.8	-357.8	-131.2	359.0	1.00	-1.00	0.00
6,102.2	0.00	0.00	6,083.0	-358.7	-131.5	359.8	1.00	-1.00	0.00
Start 6377.8 hold at 6102.2 MD									
6,200.0	0.00	0.00	6,180.8	-358.7	-131.5	359.8	0.00	0.00	0.00
6,300.0	0.00	0.00	6,280.8	-358.7	-131.5	359.8	0.00	0.00	0.00
6,400.0	0.00	0.00	6,380.8	-358.7	-131.5	359.8	0.00	0.00	0.00
6,500.0	0.00	0.00	6,480.8	-358.7	-131.5	359.8	0.00	0.00	0.00
6,600.0	0.00	0.00	6,580.8	-358.7	-131.5	359.8	0.00	0.00	0.00
6,700.0	0.00	0.00	6,680.8	-358.7	-131.5	359.8	0.00	0.00	0.00
6,800.0	0.00	0.00	6,780.8	-358.7	-131.5	359.8	0.00	0.00	0.00
6,900.0	0.00	0.00	6,880.8	-358.7	-131.5	359.8	0.00	0.00	0.00
7,000.0	0.00	0.00	6,980.8	-358.7	-131.5	359.8	0.00	0.00	0.00
7,100.0	0.00	0.00	7,080.8	-358.7	-131.5	359.8	0.00	0.00	0.00
7,200.0	0.00	0.00	7,180.8	-358.7	-131.5	359.8	0.00	0.00	0.00
7,300.0	0.00	0.00	7,280.8	-358.7	-131.5	359.8	0.00	0.00	0.00
7,400.0	0.00	0.00	7,380.8	-358.7	-131.5	359.8	0.00	0.00	0.00
7,500.0	0.00	0.00	7,480.8	-358.7	-131.5	359.8	0.00	0.00	0.00
7,600.0	0.00	0.00	7,580.8	-358.7	-131.5	359.8	0.00	0.00	0.00
7,700.0	0.00	0.00	7,680.8	-358.7	-131.5	359.8	0.00	0.00	0.00
7,800.0	0.00	0.00	7,780.8	-358.7	-131.5	359.8	0.00	0.00	0.00
7,900.0	0.00	0.00	7,880.8	-358.7	-131.5	359.8	0.00	0.00	0.00
8,000.0	0.00	0.00	7,980.8	-358.7	-131.5	359.8	0.00	0.00	0.00
8,100.0	0.00	0.00	8,080.8	-358.7	-131.5	359.8	0.00	0.00	0.00
8,200.0	0.00	0.00	8,180.8	-358.7	-131.5	359.8	0.00	0.00	0.00
8,300.0	0.00	0.00	8,280.8	-358.7	-131.5	359.8	0.00	0.00	0.00
8,400.0	0.00	0.00	8,380.8	-358.7	-131.5	359.8	0.00	0.00	0.00
8,500.0	0.00	0.00	8,480.8	-358.7	-131.5	359.8	0.00	0.00	0.00
8,600.0	0.00	0.00	8,580.8	-358.7	-131.5	359.8	0.00	0.00	0.00
8,700.0	0.00	0.00	8,680.8	-358.7	-131.5	359.8	0.00	0.00	0.00
8,800.0	0.00	0.00	8,780.8	-358.7	-131.5	359.8	0.00	0.00	0.00
8,900.0	0.00	0.00	8,880.8	-358.7	-131.5	359.8	0.00	0.00	0.00
9,000.0	0.00	0.00	8,980.8	-358.7	-131.5	359.8	0.00	0.00	0.00
9,100.0	0.00	0.00	9,080.8	-358.7	-131.5	359.8	0.00	0.00	0.00
9,200.0	0.00	0.00	9,180.8	-358.7	-131.5	359.8	0.00	0.00	0.00
9,300.0	0.00	0.00	9,280.8	-358.7	-131.5	359.8	0.00	0.00	0.00
9,400.0	0.00	0.00	9,380.8	-358.7	-131.5	359.8	0.00	0.00	0.00
9,500.0	0.00	0.00	9,480.8	-358.7	-131.5	359.8	0.00	0.00	0.00
9,600.0	0.00	0.00	9,580.8	-358.7	-131.5	359.8	0.00	0.00	0.00
9,700.0	0.00	0.00	9,680.8	-358.7	-131.5	359.8	0.00	0.00	0.00
9,800.0	0.00	0.00	9,780.8	-358.7	-131.5	359.8	0.00	0.00	0.00
9,900.0	0.00	0.00	9,880.8	-358.7	-131.5	359.8	0.00	0.00	0.00
10,000.0	0.00	0.00	9,980.8	-358.7	-131.5	359.8	0.00	0.00	0.00
10,100.0	0.00	0.00	10,080.8	-358.7	-131.5	359.8	0.00	0.00	0.00
10,200.0	0.00	0.00	10,180.8	-358.7	-131.5	359.8	0.00	0.00	0.00
10,300.0	0.00	0.00	10,280.8	-358.7	-131.5	359.8	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #702H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #702H	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)
10,400.0	0.00	0.00	10,380.8	-358.7	-131.5	359.8	0.00	0.00	0.00
10,500.0	0.00	0.00	10,480.8	-358.7	-131.5	359.8	0.00	0.00	0.00
10,600.0	0.00	0.00	10,580.8	-358.7	-131.5	359.8	0.00	0.00	0.00
10,700.0	0.00	0.00	10,680.8	-358.7	-131.5	359.8	0.00	0.00	0.00
10,800.0	0.00	0.00	10,780.8	-358.7	-131.5	359.8	0.00	0.00	0.00
10,900.0	0.00	0.00	10,880.8	-358.7	-131.5	359.8	0.00	0.00	0.00
11,000.0	0.00	0.00	10,980.8	-358.7	-131.5	359.8	0.00	0.00	0.00
11,100.0	0.00	0.00	11,080.8	-358.7	-131.5	359.8	0.00	0.00	0.00
11,200.0	0.00	0.00	11,180.8	-358.7	-131.5	359.8	0.00	0.00	0.00
11,300.0	0.00	0.00	11,280.8	-358.7	-131.5	359.8	0.00	0.00	0.00
11,400.0	0.00	0.00	11,380.8	-358.7	-131.5	359.8	0.00	0.00	0.00
11,500.0	0.00	0.00	11,480.8	-358.7	-131.5	359.8	0.00	0.00	0.00
11,600.0	0.00	0.00	11,580.8	-358.7	-131.5	359.8	0.00	0.00	0.00
11,700.0	0.00	0.00	11,680.8	-358.7	-131.5	359.8	0.00	0.00	0.00
11,800.0	0.00	0.00	11,780.8	-358.7	-131.5	359.8	0.00	0.00	0.00
11,900.0	0.00	0.00	11,880.8	-358.7	-131.5	359.8	0.00	0.00	0.00
12,000.0	0.00	0.00	11,980.8	-358.7	-131.5	359.8	0.00	0.00	0.00
12,100.0	0.00	0.00	12,080.8	-358.7	-131.5	359.8	0.00	0.00	0.00
12,200.0	0.00	0.00	12,180.8	-358.7	-131.5	359.8	0.00	0.00	0.00
12,300.0	0.00	0.00	12,280.8	-358.7	-131.5	359.8	0.00	0.00	0.00
12,400.0	0.00	0.00	12,380.8	-358.7	-131.5	359.8	0.00	0.00	0.00
12,480.0	0.00	0.00	12,460.8	-358.7	-131.5	359.8	0.00	0.00	0.00
Start DLS 12.00 TFO 179.55									
12,500.0	2.40	179.55	12,480.8	-359.1	-131.5	360.2	12.00	12.00	0.00
12,525.0	5.40	179.55	12,505.7	-360.8	-131.5	361.9	12.00	12.00	0.00
12,550.0	8.40	179.55	12,530.5	-363.8	-131.5	364.9	12.00	12.00	0.00
12,575.0	11.40	179.55	12,555.2	-368.1	-131.4	369.2	12.00	12.00	0.00
12,600.0	14.40	179.55	12,579.5	-373.7	-131.4	374.8	12.00	12.00	0.00
12,625.0	17.40	179.55	12,603.6	-380.5	-131.3	381.7	12.00	12.00	0.00
12,650.0	20.40	179.55	12,627.2	-388.6	-131.3	389.7	12.00	12.00	0.00
12,675.0	23.40	179.55	12,650.4	-398.0	-131.2	399.1	12.00	12.00	0.00
12,700.0	26.40	179.55	12,673.1	-408.5	-131.1	409.6	12.00	12.00	0.00
12,725.0	29.40	179.55	12,695.2	-420.2	-131.0	421.3	12.00	12.00	0.00
12,750.0	32.40	179.55	12,716.6	-433.0	-130.9	434.1	12.00	12.00	0.00
12,775.0	35.40	179.55	12,737.4	-446.9	-130.8	448.1	12.00	12.00	0.00
12,800.0	38.40	179.55	12,757.4	-462.0	-130.7	463.1	12.00	12.00	0.00
12,825.0	41.40	179.55	12,776.5	-478.0	-130.6	479.1	12.00	12.00	0.00
12,850.0	44.40	179.55	12,794.9	-495.0	-130.4	496.1	12.00	12.00	0.00
12,875.0	47.40	179.55	12,812.3	-513.0	-130.3	514.1	12.00	12.00	0.00
12,900.0	50.40	179.55	12,828.7	-531.8	-130.1	532.9	12.00	12.00	0.00
12,925.0	53.40	179.55	12,844.1	-551.5	-130.0	552.6	12.00	12.00	0.00
12,950.0	56.40	179.55	12,858.5	-571.9	-129.8	573.0	12.00	12.00	0.00
12,975.0	59.40	179.55	12,871.8	-593.1	-129.6	594.2	12.00	12.00	0.00
13,000.0	62.40	179.55	12,883.9	-614.9	-129.5	616.0	12.00	12.00	0.00
13,025.0	65.40	179.55	12,894.9	-637.4	-129.3	638.5	12.00	12.00	0.00
13,050.0	68.40	179.55	12,904.7	-660.4	-129.1	661.4	12.00	12.00	0.00
13,075.0	71.40	179.55	12,913.3	-683.8	-128.9	684.9	12.00	12.00	0.00
13,100.0	74.40	179.55	12,920.7	-707.7	-128.7	708.8	12.00	12.00	0.00
13,125.0	77.40	179.55	12,926.8	-732.0	-128.5	733.0	12.00	12.00	0.00
13,150.0	80.40	179.55	12,931.6	-756.5	-128.4	757.6	12.00	12.00	0.00
13,175.0	83.40	179.55	12,935.1	-781.2	-128.2	782.3	12.00	12.00	0.00
13,200.0	86.40	179.55	12,937.3	-806.1	-128.0	807.2	12.00	12.00	0.00
13,225.0	89.40	179.55	12,938.3	-831.1	-127.8	832.2	12.00	12.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #702H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,246.6	91.98	179.55	12,938.0	-852.7	-127.6	853.7	12.00	12.00	0.00
Start 7230.1 hold at 13246.6 MD									
13,300.0	91.98	179.55	12,936.1	-906.1	-127.2	907.1	0.00	0.00	0.00
13,400.0	91.98	179.55	12,932.7	-1,006.0	-126.4	1,007.1	0.00	0.00	0.00
13,500.0	91.98	179.55	12,929.2	-1,106.0	-125.6	1,107.0	0.00	0.00	0.00
13,600.0	91.98	179.55	12,925.8	-1,205.9	-124.8	1,206.9	0.00	0.00	0.00
13,700.0	91.98	179.55	12,922.3	-1,305.8	-124.0	1,306.8	0.00	0.00	0.00
13,800.0	91.98	179.55	12,918.8	-1,405.8	-123.2	1,406.8	0.00	0.00	0.00
13,900.0	91.98	179.55	12,915.4	-1,505.7	-122.4	1,506.7	0.00	0.00	0.00
14,000.0	91.98	179.55	12,911.9	-1,605.6	-121.6	1,606.6	0.00	0.00	0.00
14,100.0	91.98	179.55	12,908.5	-1,705.6	-120.8	1,706.6	0.00	0.00	0.00
14,200.0	91.98	179.55	12,905.0	-1,805.5	-120.0	1,806.5	0.00	0.00	0.00
14,300.0	91.98	179.55	12,901.5	-1,905.4	-119.3	1,906.4	0.00	0.00	0.00
14,400.0	91.98	179.55	12,898.1	-2,005.4	-118.5	2,006.3	0.00	0.00	0.00
14,500.0	91.98	179.55	12,894.6	-2,105.3	-117.7	2,106.3	0.00	0.00	0.00
14,600.0	91.98	179.55	12,891.2	-2,205.3	-116.9	2,206.2	0.00	0.00	0.00
14,700.0	91.98	179.55	12,887.7	-2,305.2	-116.1	2,306.1	0.00	0.00	0.00
14,800.0	91.98	179.55	12,884.2	-2,405.1	-115.3	2,406.0	0.00	0.00	0.00
14,900.0	91.98	179.55	12,880.8	-2,505.1	-114.5	2,506.0	0.00	0.00	0.00
15,000.0	91.98	179.55	12,877.3	-2,605.0	-113.7	2,605.9	0.00	0.00	0.00
15,100.0	91.98	179.55	12,873.8	-2,704.9	-112.9	2,705.8	0.00	0.00	0.00
15,200.0	91.98	179.55	12,870.4	-2,804.9	-112.1	2,805.7	0.00	0.00	0.00
15,300.0	91.98	179.55	12,866.9	-2,904.8	-111.3	2,905.7	0.00	0.00	0.00
15,400.0	91.98	179.55	12,863.5	-3,004.8	-110.6	3,005.6	0.00	0.00	0.00
15,500.0	91.98	179.55	12,860.0	-3,104.7	-109.8	3,105.5	0.00	0.00	0.00
15,600.0	91.98	179.55	12,856.5	-3,204.6	-109.0	3,205.4	0.00	0.00	0.00
15,700.0	91.98	179.55	12,853.1	-3,304.6	-108.2	3,305.4	0.00	0.00	0.00
15,800.0	91.98	179.55	12,849.6	-3,404.5	-107.4	3,405.3	0.00	0.00	0.00
15,900.0	91.98	179.55	12,846.2	-3,504.4	-106.6	3,505.2	0.00	0.00	0.00
16,000.0	91.98	179.55	12,842.7	-3,604.4	-105.8	3,605.2	0.00	0.00	0.00
16,100.0	91.98	179.55	12,839.2	-3,704.3	-105.0	3,705.1	0.00	0.00	0.00
16,200.0	91.98	179.55	12,835.8	-3,804.3	-104.2	3,805.0	0.00	0.00	0.00
16,300.0	91.98	179.55	12,832.3	-3,904.2	-103.4	3,904.9	0.00	0.00	0.00
16,400.0	91.98	179.55	12,828.8	-4,004.1	-102.6	4,004.9	0.00	0.00	0.00
16,500.0	91.98	179.55	12,825.4	-4,104.1	-101.9	4,104.8	0.00	0.00	0.00
16,600.0	91.98	179.55	12,821.9	-4,204.0	-101.1	4,204.7	0.00	0.00	0.00
16,700.0	91.98	179.55	12,818.5	-4,303.9	-100.3	4,304.6	0.00	0.00	0.00
16,800.0	91.98	179.55	12,815.0	-4,403.9	-99.5	4,404.6	0.00	0.00	0.00
16,900.0	91.98	179.55	12,811.5	-4,503.8	-98.7	4,504.5	0.00	0.00	0.00
17,000.0	91.98	179.55	12,808.1	-4,603.7	-97.9	4,604.4	0.00	0.00	0.00
17,100.0	91.98	179.55	12,804.6	-4,703.7	-97.1	4,704.3	0.00	0.00	0.00
17,200.0	91.98	179.55	12,801.2	-4,803.6	-96.3	4,804.3	0.00	0.00	0.00
17,300.0	91.98	179.55	12,797.7	-4,903.6	-95.5	4,904.2	0.00	0.00	0.00
17,400.0	91.98	179.55	12,794.2	-5,003.5	-94.7	5,004.1	0.00	0.00	0.00
17,500.0	91.98	179.55	12,790.8	-5,103.4	-93.9	5,104.1	0.00	0.00	0.00
17,600.0	91.98	179.55	12,787.3	-5,203.4	-93.2	5,204.0	0.00	0.00	0.00
17,700.0	91.98	179.55	12,783.8	-5,303.3	-92.4	5,303.9	0.00	0.00	0.00
17,800.0	91.98	179.55	12,780.4	-5,403.2	-91.6	5,403.8	0.00	0.00	0.00
17,900.0	91.98	179.55	12,776.9	-5,503.2	-90.8	5,503.8	0.00	0.00	0.00
18,000.0	91.98	179.55	12,773.5	-5,603.1	-90.0	5,603.7	0.00	0.00	0.00
18,100.0	91.98	179.55	12,770.0	-5,703.1	-89.2	5,703.6	0.00	0.00	0.00
18,200.0	91.98	179.55	12,766.5	-5,803.0	-88.4	5,803.5	0.00	0.00	0.00
18,300.0	91.98	179.55	12,763.1	-5,902.9	-87.6	5,903.5	0.00	0.00	0.00
18,400.0	91.98	179.55	12,759.6	-6,002.9	-86.8	6,003.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #702H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
18,500.0	91.98	179.55	12,756.2	-6,102.8	-86.0	6,103.3	0.00	0.00	0.00	
18,600.0	91.98	179.55	12,752.7	-6,202.7	-85.2	6,203.2	0.00	0.00	0.00	
18,700.0	91.98	179.55	12,749.2	-6,302.7	-84.5	6,303.2	0.00	0.00	0.00	
18,800.0	91.98	179.55	12,745.8	-6,402.6	-83.7	6,403.1	0.00	0.00	0.00	
18,900.0	91.98	179.55	12,742.3	-6,502.5	-82.9	6,503.0	0.00	0.00	0.00	
19,000.0	91.98	179.55	12,738.8	-6,602.5	-82.1	6,602.9	0.00	0.00	0.00	
19,100.0	91.98	179.55	12,735.4	-6,702.4	-81.3	6,702.9	0.00	0.00	0.00	
19,200.0	91.98	179.55	12,731.9	-6,802.4	-80.5	6,802.8	0.00	0.00	0.00	
19,300.0	91.98	179.55	12,728.5	-6,902.3	-79.7	6,902.7	0.00	0.00	0.00	
19,400.0	91.98	179.55	12,725.0	-7,002.2	-78.9	7,002.7	0.00	0.00	0.00	
19,500.0	91.98	179.55	12,721.5	-7,102.2	-78.1	7,102.6	0.00	0.00	0.00	
19,600.0	91.98	179.55	12,718.1	-7,202.1	-77.3	7,202.5	0.00	0.00	0.00	
19,700.0	91.98	179.55	12,714.6	-7,302.0	-76.5	7,302.4	0.00	0.00	0.00	
19,800.0	91.98	179.55	12,711.2	-7,402.0	-75.8	7,402.4	0.00	0.00	0.00	
19,900.0	91.98	179.55	12,707.7	-7,501.9	-75.0	7,502.3	0.00	0.00	0.00	
20,000.0	91.98	179.55	12,704.2	-7,601.9	-74.2	7,602.2	0.00	0.00	0.00	
20,100.0	91.98	179.55	12,700.8	-7,701.8	-73.4	7,702.1	0.00	0.00	0.00	
20,200.0	91.98	179.55	12,697.3	-7,801.7	-72.6	7,802.1	0.00	0.00	0.00	
20,300.0	91.98	179.55	12,693.8	-7,901.7	-71.8	7,902.0	0.00	0.00	0.00	
20,400.0	91.98	179.55	12,690.4	-8,001.6	-71.0	8,001.9	0.00	0.00	0.00	
20,476.6	91.98	179.55	12,687.7	-8,078.2	-70.4	8,078.5	0.00	0.00	0.00	
Start 50.0 hold at 20476.6 MD										
20,500.0	91.98	179.55	12,686.9	-8,101.5	-70.2	8,101.8	0.00	0.00	0.00	
20,526.7	91.98	179.55	12,686.0	-8,128.2	-70.0	8,128.5	0.00	0.00	0.00	
TD at 20526.7										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
PBHL (BANDANA FED C - plan hits target center - Rectangle (sides W100.0 H7,769.7 D20.0)	1.98	359.55	12,686.0	-8,128.2	-70.0	409,741.50	782,764.90	32° 7' 23.524 N		103° 25' 11.879 W
LTP (BANDANA FED C - plan hits target center - Point	0.00	0.00	12,687.7	-8,078.2	-70.4	409,791.50	782,764.50	32° 7' 24.019 N		103° 25' 11.879 W
FTP (BANDANA FED C - plan misses target center by 197.6usft at 12851.7usft MD (12796.1 TVD, -496.2 N, -130.4 E) - Circle (radius 50.0)	0.00	0.00	12,938.0	-358.7	-131.5	417,511.00	782,703.40	32° 8' 40.410 N		103° 25' 11.828 W

ConocoPhillips

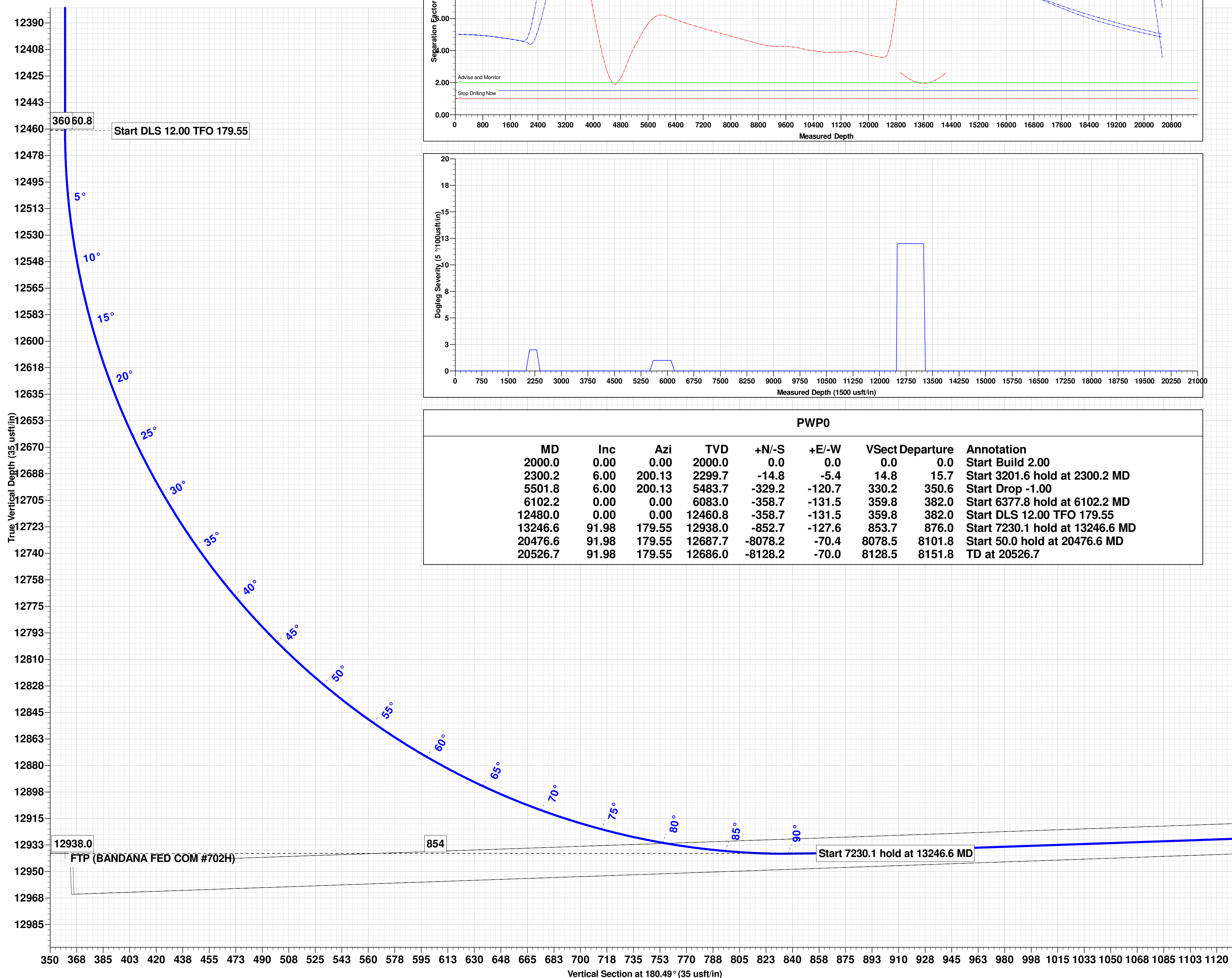
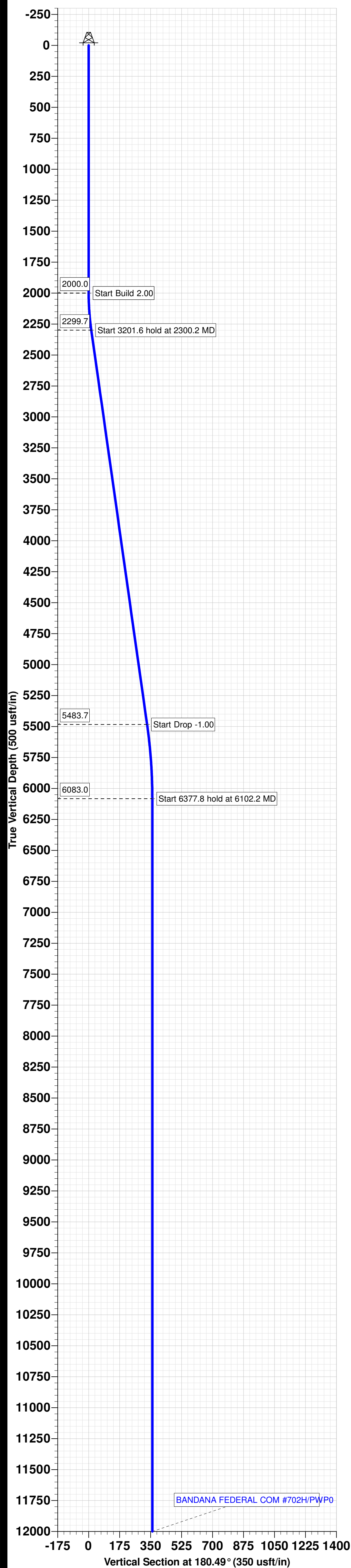
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #702H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3409.0usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3409.0usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.0	2,000.0	0.0	0.0	Start Build 2.00
2,300.2	2,299.7	-14.8	-5.4	Start 3201.6 hold at 2300.2 MD
5,501.8	5,483.7	-329.2	-120.7	Start Drop -1.00
6,102.2	6,083.0	-358.7	-131.5	Start 6377.8 hold at 6102.2 MD
12,480.0	12,460.8	-358.7	-131.5	Start DLS 12.00 TFO 179.55
13,246.6	12,938.0	-852.7	-127.6	Start 7230.1 hold at 13246.6 MD
20,476.6	12,687.7	-8,078.2	-70.4	Start 50.0 hold at 20476.6 MD
20,526.7	12,686.0	-8,128.2	-70.0	TD at 20526.7

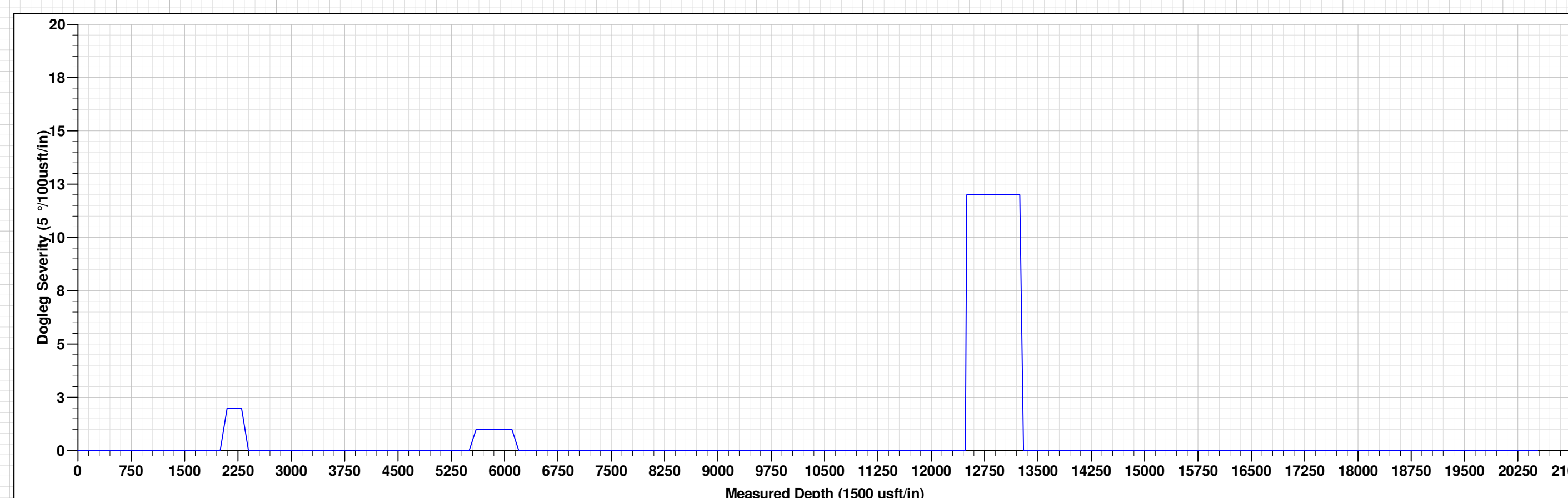
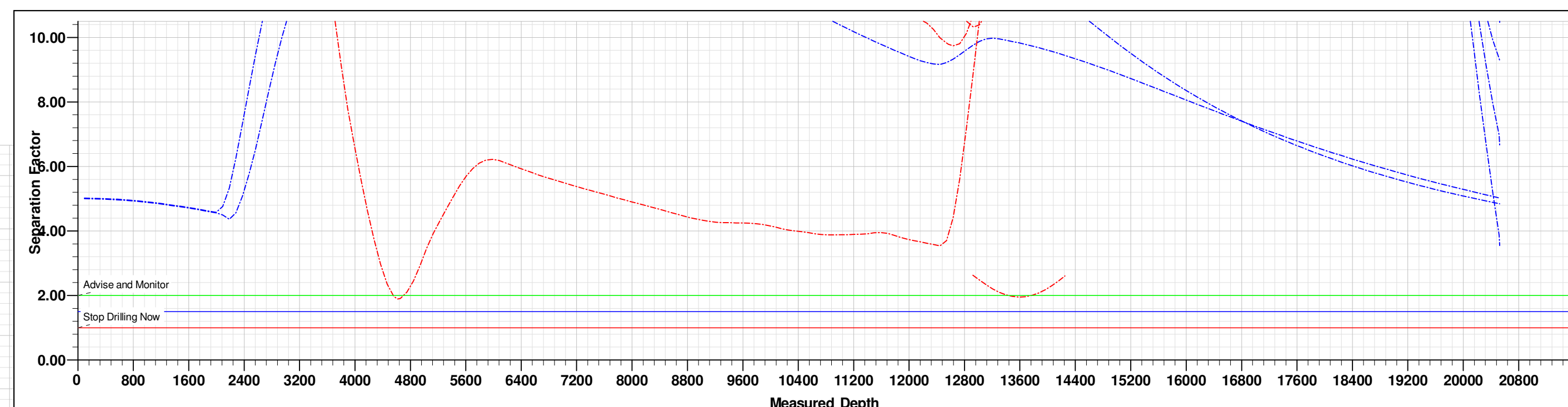


Project: BULLDOG PROSPECT (NM-E)
Site: BANDANA FEDERAL PROJECT
Well: BANDANA FEDERAL COM #702H
Wellbore: OWB
Design: PWP0
GL: 3379.0
*KB=30' @ 3409.0usft (TBD)

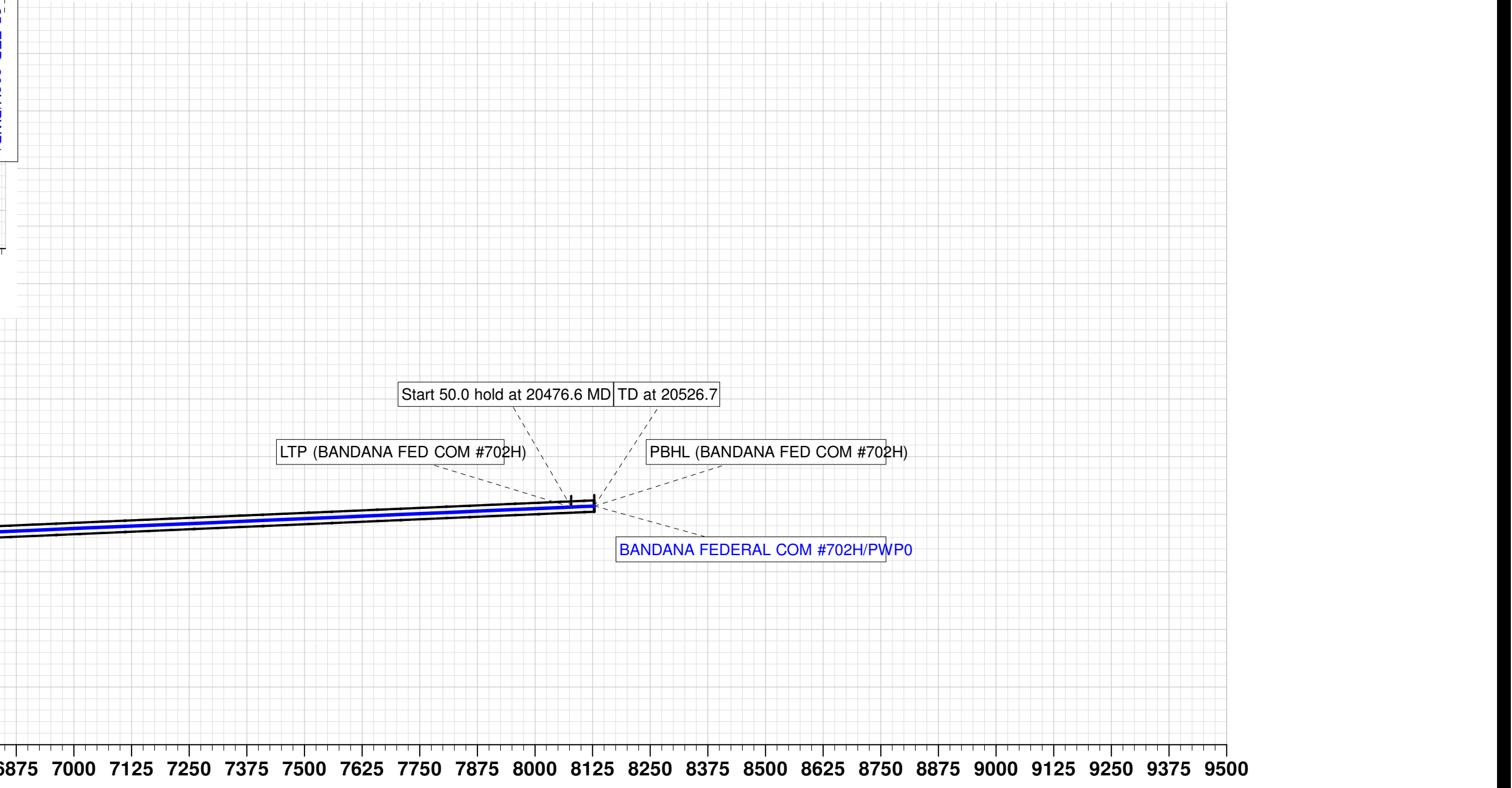
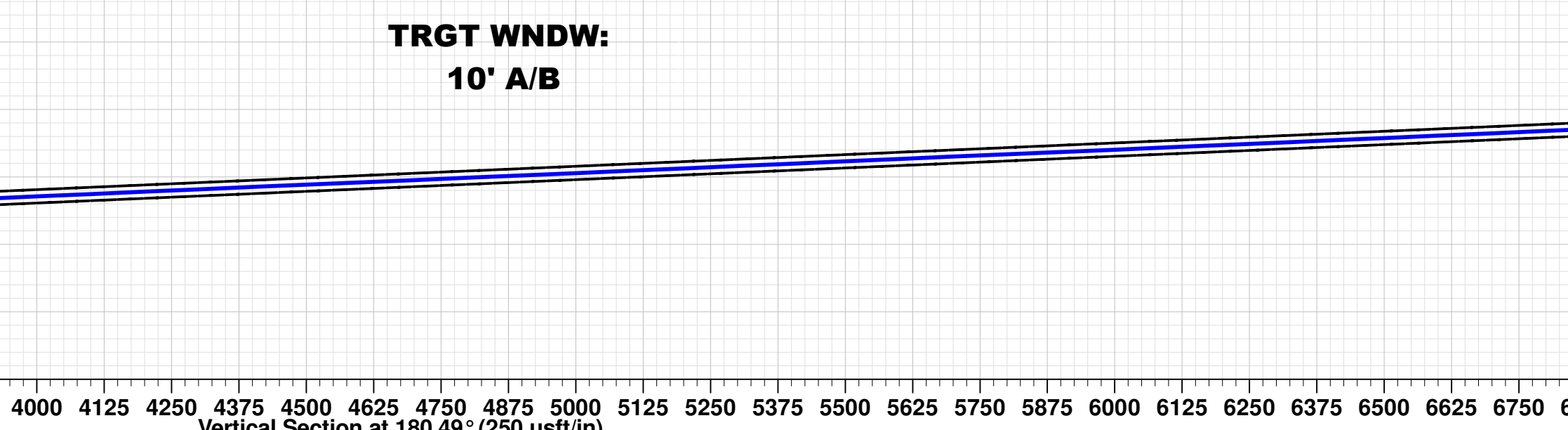
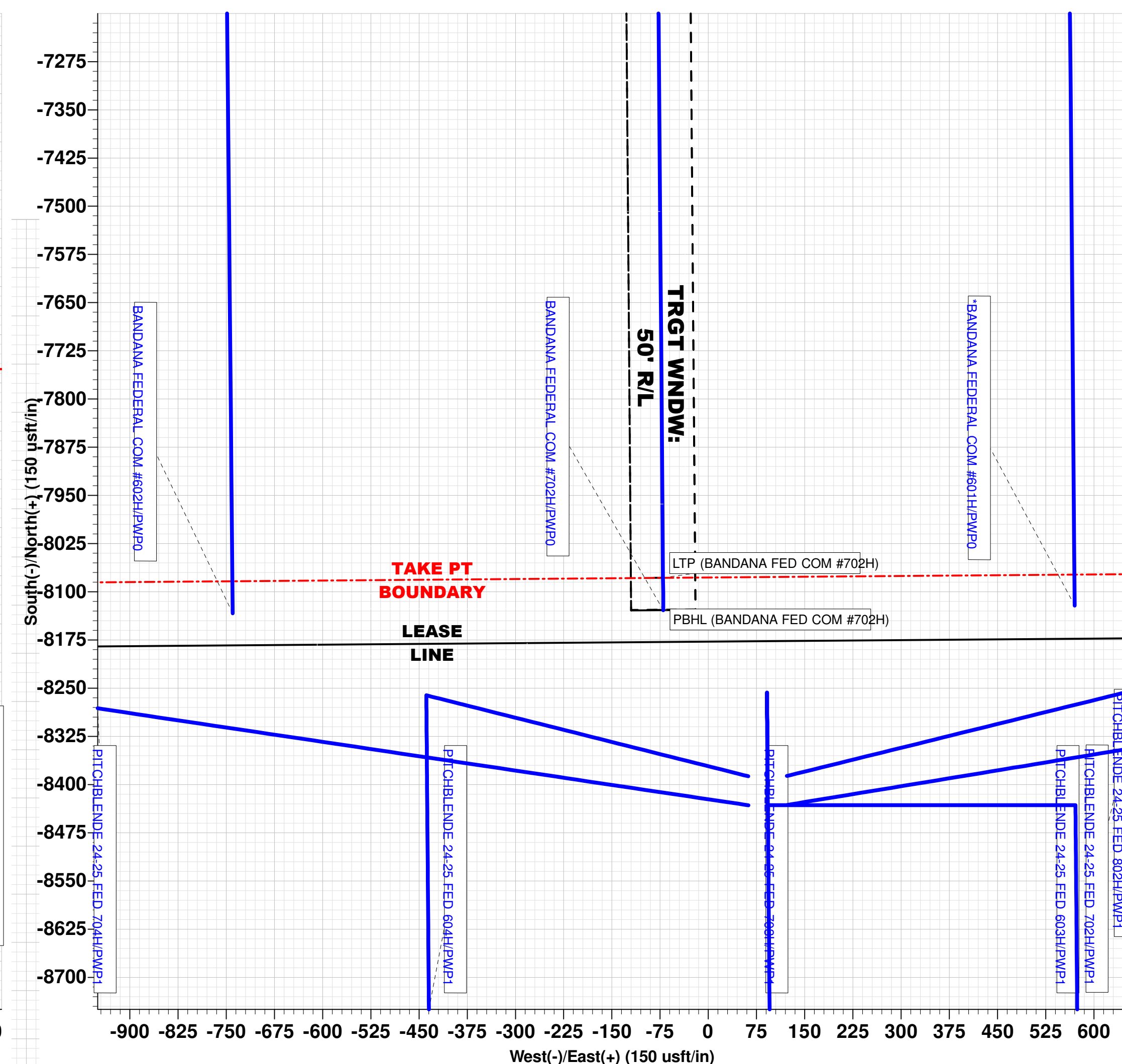
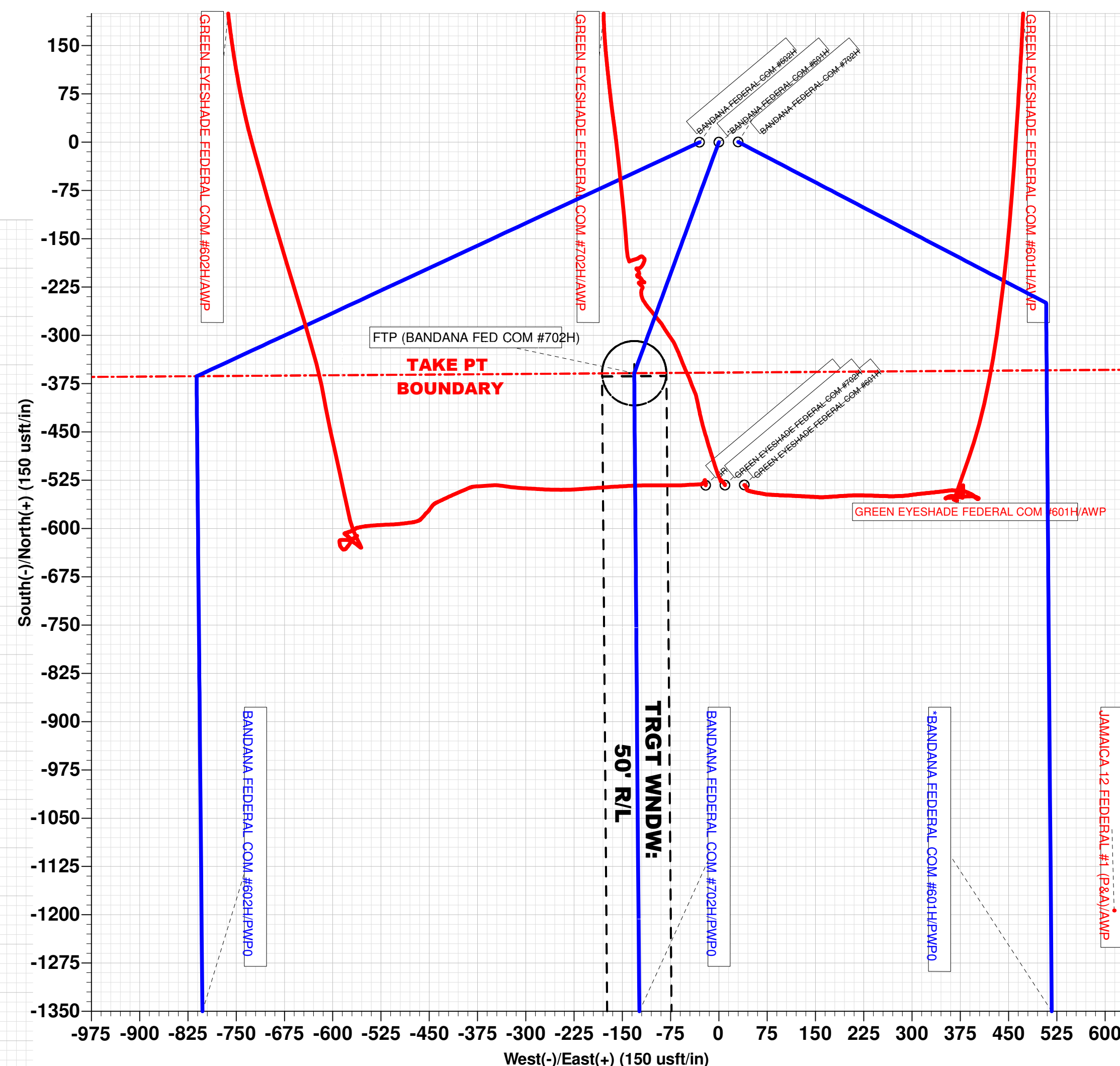
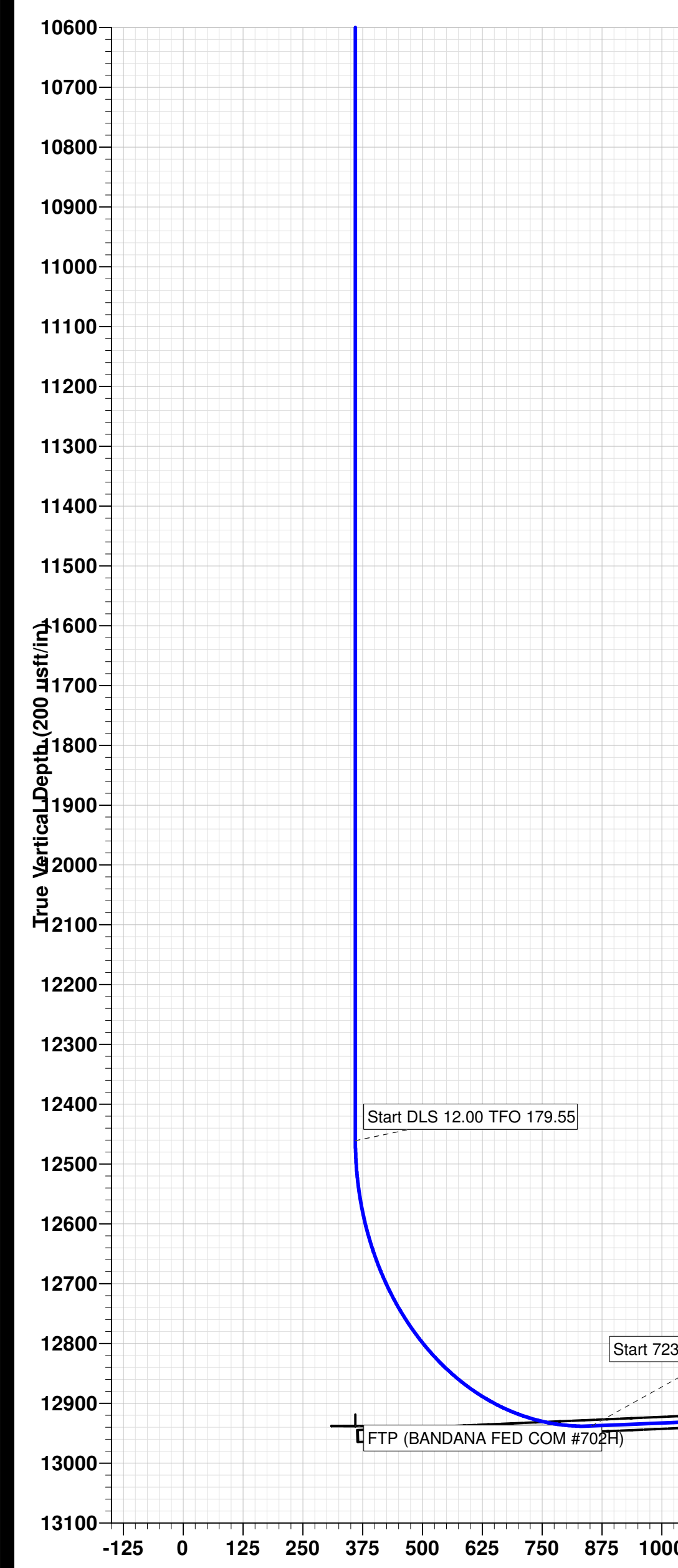
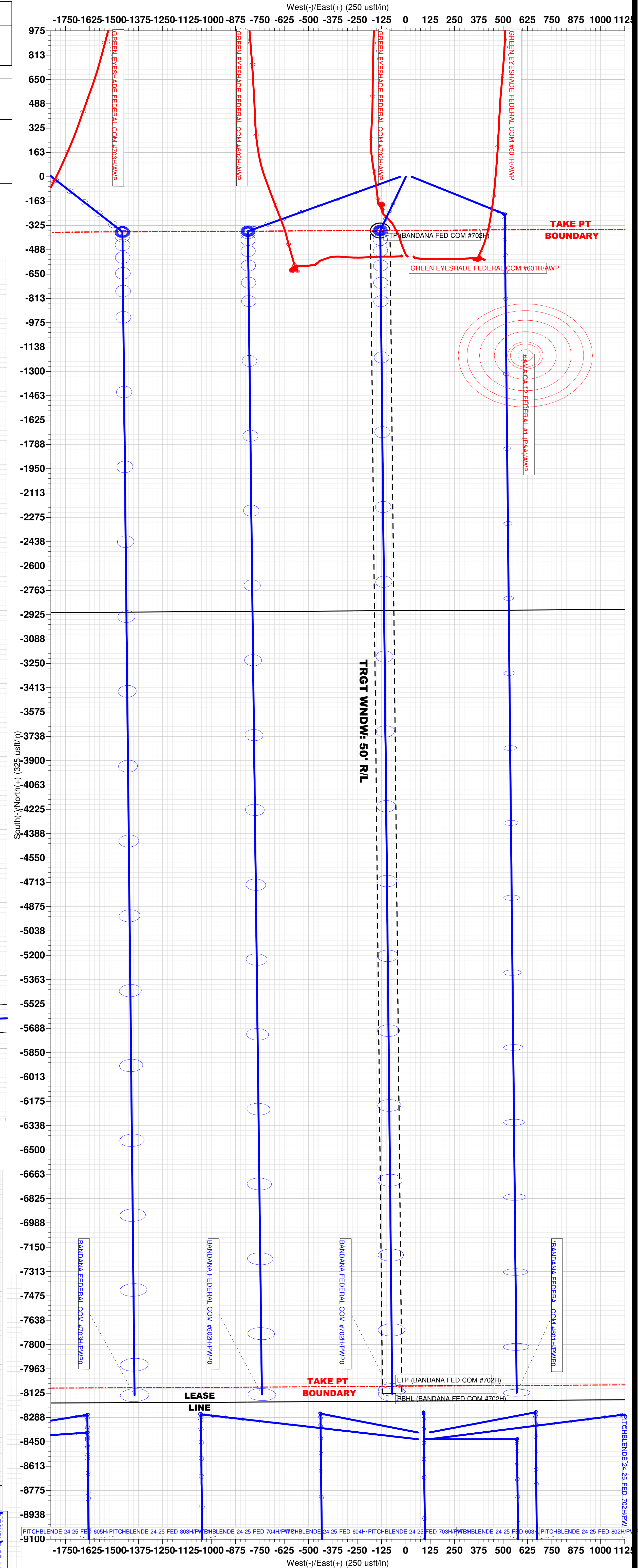


WELL DETAILS: BANDANA FEDERAL COM #702H					
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.0	0.0	417869.70	782834.90	32° 8' 43.949 N	103° 25' 10.263 W

DESIGN TARGET DETAILS					
Name	TVD	+N-S	+E-W	Northing	Easting
PBHL (BANDANA FED COM #702H)	12686.0	-8128.2	-70.0	409741.50	782764.90
LTP (BANDANA FED COM #702H)	12687.7	-8078.2	-70.4	409791.50	782764.50
FTP (BANDANA FED COM #702H)	12938.0	-358.7	-131.5	417511.00	782703.40
Shape	Rectangle (Sides: L7769.7 W100.0)				
	Point				
	Circle (Radius: 50.0)				



PWP0									
MD	Inc	Azi	TVD	+N-S	+E-W	Vsect	Departure	Annotation	
2000.0	0.00	0.00	2000.0	0.0	0.0	0.0	0.0	Start Build 2.00	
2300.2	6.00	200.13	2299.7	-14.8	-5.4	14.8	15.7	Start 3201.6 hold at 2300.2 MD	
5501.8	6.00	200.13	5483.7	-329.2	-120.7	330.2	350.6	Start Drop -1.00	
6102.2	0.00	0.00	6083.0	-358.7	-131.5	359.8	382.0	Start 6377.8 hold at 6102.2 MD	
12480.0	0.00	0.00	12460.8	-358.7	-131.5	359.8	382.0	Start DLS 12.00 TFO 179.55	
13246.6	91.98	179.55	12938.0	-852.7	-127.6	853.7	876.0	Start 7230.1 hold at 13246.6 MD	
20476.6	91.98	179.55	12687.7	-8078.2	-70.4	8078.5	8101.8	Start 50.0 hold at 20476.6 MD	
20526.7	91.98	179.55	12686.0	-8128.2	-70.0	8128.5	8151.8	TD at 20526.7	



**STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

**IN THE MATTER OF APPLICATION FOR
COMPULSORY POOLING AND APPROVAL
OF NON-STANDARD SPACING UNIT
SUBMITTED BY COG OPERATING, LLC**

**CASE NO. 23334
ORDER NO. R-22629-A**

ORDER

The Director of the New Mexico Oil Conservation Division (“OCD”), having heard this matter through a Hearing Examiner on March 2, 2023, and after considering the testimony, evidence, and recommendation of the Hearing Examiner, issues the following Order.

FINDINGS OF FACT

1. COG Operating, LLC (“Operator”) submitted an application (“Application”) to compulsory pool the uncommitted oil and gas interests within the spacing unit (“Unit”) described in Exhibit A.
2. On April 16, 2023, OCD issued Order R-22629, which only approved the Composolary Pooling portion of the application.
3. Order R-22629 also had an incorrect Exhibit A attached to it.
4. The Application also seeks approval of a Non-Standard horizontal spacing unit for production from all Division-designated pools underlying the Unit.
5. Operator seeks to be designated the operator of the Unit.
6. Operator will dedicate the well(s) described in Exhibit A (“Well(s)”) to the Unit.
7. Operator proposes the supervision and risk charges for the Well(s) described in Exhibit A.
8. Operator identified the owners of uncommitted interests in oil and gas minerals in the Unit and provided evidence that notice was given.
9. Operator identified the owners of interest in the offset oil and gas minerals from the Unit and provided evidence that notice was given.
10. The Application was heard by the Hearing Examiner on the date specified above, during which Operator presented evidence through affidavits in support of the Application. No other party presented evidence at the hearing.

CONCLUSIONS OF LAW

11. OCD has jurisdiction to issue this Order pursuant to NMSA 1978, Section 70-2-17.
12. Operator is the owner of an oil and gas working interest within the Unit.
13. Operator satisfied the notice requirements for the Application and the hearing as required by 19.15.4.12 NMAC.
14. Operator has met the notice requirements for approval of non-standard horizontal spacing units in accordance with 19.15.16.15(B)(5) NMAC.
15. OCD satisfied the notice requirements for the hearing as required by 19.15.4.9 NMAC.
16. Operator has the right to drill the Well(s) to a common source of supply at the depth(s) and location(s) in the Unit described in Exhibit A.
17. OCD's rules allow the approval of a non-standard horizontal spacing unit, after notice and opportunity for hearing, "if necessary to prevent waste or protect correlative rights" 19.15.16.15(B)(5)(a) NMAC.
18. While the OCD is authorized to approve a non-standard spacing unit, Rutter & Wilbanks Corp. v. Oil Conservation Comm'n, 1975-NMSC-006, OCD lacks the authority to approve unitization and will disapprove an application if it determines that it is actually unitization. Order R-13554 (May 18, 2012) (disapproving application for a non-standard spacing unit consisting of 16 standard spacing units).
19. Approval of the Non-Standard Spacing Unit promotes effective well spacing and allows the Operator to therefore prevent waste and protect correlative rights.
20. The Unit contains separately owned uncommitted interests in oil and gas minerals.
21. Some of the owners of the uncommitted interests have not agreed to commit their interests to the Unit.
22. The pooling of uncommitted interests in the Unit will prevent waste and protect correlative rights, including the drilling of unnecessary wells.
23. This Order affords to the owner of an uncommitted interest the opportunity to produce his just and equitable share of the oil or gas in the pool.

ORDER

24. Order R-22629 is hereby superseded by this Order.
25. The Unit is approved as a non-standard horizontal spacing unit.

CASE NO. 23334

ORDER NO. R-22629-A

Page 2 of 8

26. Operator shall file Forms C-102 reflecting the correct acreage dedicated for each of the Wells.
27. The uncommitted interests in the Unit are pooled as set forth in Exhibit A.
28. The Unit shall be dedicated to the Well(s) set forth in Exhibit A.
29. Operator is designated as operator of the Unit and the Well(s).
30. If the location of a well will be unorthodox under the spacing rules in effect at the time of completion, Operator shall obtain the OCD's approval for a non-standard location in accordance with 19.15.16.15(C) NMAC.
31. The Operator shall commence drilling the Well(s) within one year after the date of this Order, and complete each Well no later than one (1) year after the commencement of drilling the Well.
32. This Order shall terminate automatically if Operator fails to comply with Paragraph 31 unless Operator obtains an extension by amending this Order for good cause shown.
33. The infill well requirements in 19.15.13.9 NMAC through 19.15.13.12 NMAC shall be applicable.
34. Operator shall submit each owner of an uncommitted working interest in the pool ("Pooled Working Interest") an itemized schedule of estimated costs to drill, complete, and equip the well ("Estimated Well Costs").
35. No later than thirty (30) days after Operator submits the Estimated Well Costs, the owner of a Pooled Working Interest shall elect whether to pay its share of the Estimated Well Costs or its share of the actual costs to drill, complete and equip the well ("Actual Well Costs") out of production from the well. An owner of a Pooled Working Interest who elects to pay its share of the Estimated Well Costs shall render payment to Operator no later than thirty (30) days after the expiration of the election period, and shall be liable for operating costs, but not risk charges, for the well. An owner of a Pooled Working Interest who fails to pay its share of the Estimated Well Costs or who elects to pay its share of the Actual Well Costs out of production from the well shall be considered to be a "Non-Consenting Pooled Working Interest."
36. No later than one hundred eighty (180) days after Operator submits a Form C-105 for a well, Operator shall submit to each owner of a Pooled Working Interest an itemized schedule of the Actual Well Costs. The Actual Well Costs shall be considered to be the Reasonable Well Costs unless an owner of a Pooled Working Interest files a written objection no later than forty-five (45) days after receipt of the schedule. If an owner of a Pooled Working Interest files a timely written

CASE NO. 23334

ORDER NO. R-22629-A

Page 3 of 8

objection, OCD shall determine the Reasonable Well Costs after public notice and hearing.

37. No later than sixty (60) days after the expiration of the period to file a written objection to the Actual Well Costs or OCD's order determining the Reasonable Well Costs, whichever is later, each owner of a Pooled Working Interest who paid its share of the Estimated Well Costs shall pay to Operator its share of the Reasonable Well Costs that exceed the Estimated Well Costs, or Operator shall pay to each owner of a Pooled Working Interest who paid its share of the Estimated Well Costs its share of the Estimated Well Costs that exceed the Reasonable Well Costs.
38. The reasonable charges for supervision to drill and produce a well ("Supervision Charges") shall not exceed the rates specified in Exhibit A, provided however that the rates shall be adjusted annually pursuant to the COPAS form entitled "Accounting Procedure-Joint Operations."
39. No later than within ninety (90) days after Operator submits a Form C-105 for a well, Operator shall submit to each owner of a Pooled Working Interest an itemized schedule of the reasonable charges for operating and maintaining the well ("Operating Charges"), provided however that Operating Charges shall not include the Reasonable Well Costs or Supervision Charges. The Operating Charges shall be considered final unless an owner of a Pooled Working Interest files a written objection no later than forty-five (45) days after receipt of the schedule. If an owner of a Pooled Working Interest files a timely written objection, OCD shall determine the Operating Charges after public notice and hearing.
40. Operator may withhold the following costs and charges from the share of production due to each owner of a Pooled Working Interest who paid its share of the Estimated Well Costs: (a) the proportionate share of the Supervision Charges; and (b) the proportionate share of the Operating Charges.
41. Operator may withhold the following costs and charges from the share of production due to each owner of a Non-Consenting Pooled Working Interest: (a) the proportionate share of the Reasonable Well Costs; (b) the proportionate share of the Supervision and Operating Charges; and (c) the percentage of the Reasonable Well Costs specified as the charge for risk described in Exhibit A.
42. Operator shall distribute a proportionate share of the costs and charges withheld pursuant to paragraph 38 to each Pooled Working Interest that paid its share of the Estimated Well Costs.
43. Each year on the anniversary of this Order, and no later than ninety (90) days after each payout, Operator shall provide to each owner of a Non-Consenting Pooled Working Interest a schedule of the revenue attributable to a well and the Supervision and Operating Costs charged against that revenue.

44. Any cost or charge that is paid out of production shall be withheld only from the share due to an owner of a Pooled Working Interest. No cost or charge shall be withheld from the share due to an owner of a royalty interests. For the purpose of this Order, an unleased mineral interest shall consist of a seven-eighths (7/8) working interest and a one-eighth (1/8) royalty interest.
45. Except as provided above, Operator shall hold the revenue attributable to a well that is not disbursed for any reason for the account of the person(s) entitled to the revenue as provided in the Oil and Gas Proceeds Payment Act, NMSA 1978, Sections 70-10-1 *et seq.*, and relinquish such revenue as provided in the Uniform Unclaimed Property Act, NMSA 1978, Sections 7-8A-1 *et seq.*
46. The Unit shall terminate if (a) the owners of all Pooled Working Interests reach a voluntary agreement; or (b) the well(s) drilled on the Unit are plugged and abandoned in accordance with the applicable rules. Operator shall inform OCD no later than thirty (30) days after such occurrence.
47. OCD retains jurisdiction of this matter for the entry of such orders as may be deemed necessary.

**STATE OF NEW MEXICO
OIL CONSERVATION DIVISION**


DYLAN M FUGE
DIRECTOR (ACTING)
DMF/jag

Date: 4/30/2023

CASE NO. 23334
ORDER NO. R-22629-A

Page 5 of 8

Exhibit A

Released to Imaging: 3/7/2023 4:38:28 PM COMPULSORY POOLING APPLICATION CHECKLIST Page 5 of 10	
ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS	
Case: 23334	APPLICANT'S RESPONSE
Date	March 2, 2023
Applicant	COG Operating LLC
Designated Operator & OGRID (affiliation if applicable)	OGRID No. 229137
Applicant's Counsel:	Hinkle Shanor LLP
Case Title:	Application of COG Operating LLC for Compulsory Pooling and Approval of Non-Standard Spacing Unit, Lea County, New Mexico
Entries of Appearance/Intervenors:	None
Well Family	Bandana
Formation/Pool	
Formation Name(s) or Vertical Extent:	Wolfcamp
Primary Product (Oil or Gas):	Oil
Pooling this vertical extent:	Wolfcamp
Pool Name and Pool Code:	Dogie Draw; Wolfcamp Pool (Code 17980)
Well Location Setback Rules:	Statewide
Spacing Unit	
Type (Horizontal/Vertical)	Horizontal
Size (Acres)	960 acres
Building Blocks:	quarter-quarter
Orientation:	North/South
Description: TRS/County	S/2 of Section 12 and all of Section 13, Township 25 South, Range 34 East, Lea County
Standard Horizontal Well Spacing Unit (Y/N), If No, describe <u>and is approval of non-standard unit requested in this application?</u>	No. Approval of Non-Standard Spacing Unit requested in this application.
Other Situations	
Depth Severance: Y/N. If yes, description	No
Proximity Tracts: If yes, description	No
Proximity Defining Well: if yes, description	N/A
Applicant's Ownership in Each Tract	Exhibit A-4
Well(s)	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)	Add wells as needed
Well #1	Bandana Fed Com 702H (API # ---) SHL: 2380' FNL & 1505' FEL (Unit G), Section 12, T25S, R34E BHL: 50' FSL & 1640' FEL (Unit O), Section 13, T25S, R34E Completion Target: Wolfcamp (Approx. 12,938' TVD)
Well #2	Bandana Fed Com 703H (API # ---) SHL: 1913' FNL & 1518' FWL (Unit F), Section 12, T25S, R34E BHL: 50' FSL & 2320' FWL (Unit N), Section 13, T25S, R34E Completion Target: Wolfcamp (Approx. 12,918' TVD)
Well #3	Bandana Fed Com 704H (API # ---) SHL: 1878' FNL & 1469' FWL (Unit F), Section 12, T25S, R34E BHL: 50' FSL & 1000' FWL (Unit M), Section 13, T25S, R34E Completion Target: Wolfcamp (Approx. 12,871' TVD)
COG Operating LLC Case No. 23333 Exhibit D-2	

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CASE NO. 23334
ORDER NO. R-22629-A

Page 6 of 8

Horizontal Well Form and Log Take Report	Exhibit A-3	Page 6 of 10
Completion Target (Formation, TVD and MD)	Exhibit A-5	
AFE Capex and Operating Costs		
Drilling Supervision/Month \$	\$8,000.00	
Production Supervision/Month \$	\$800.00	
Justification for Supervision Costs	Exhibit A	
Requested Risk Charge	200%	
Notice of Hearing		
Proposed Notice of Hearing	Exhibit A-2	
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit C-1, Exhibit C-2, Exhibit C-3	
Proof of Published Notice of Hearing (10 days before hearing)	Exhibit C-4	
Ownership Determination		
Land Ownership Schematic of the Spacing Unit	Exhibit A-4	
Tract List (including lease numbers and owners)	Exhibit A-4	
If approval of Non-Standard Spacing Unit is requested, Tract List (including lease numbers and owners) of Tracts subject to notice requirements.	Exhibit A-6	
Pooled Parties (including ownership type)	Exhibit A-4	
Unlocatable Parties to be Pooled	N/A	
Ownership Depth Severance (including percentage above & below)	N/A	
Joinder		
Sample Copy of Proposal Letter	Exhibit A-5	
List of Interest Owners (ie Exhibit A of JOA)	Exhibit A-4	
Chronology of Contact with Non-Joined Working Interests	Exhibit A-7	
Overhead Rates In Proposal Letter	Exhibit A-5	
Cost Estimate to Drill and Complete	Exhibit A-5	
Cost Estimate to Equip Well	Exhibit A-5	
Cost Estimate for Production Facilities	Exhibit A-5	
Geology		
Summary (including special considerations)	Exhibit B	
Spacing Unit Schematic	Exhibit B-1	
Gunbarrel/Lateral Trajectory Schematic	N/A	
Well Orientation (with rationale)	Exhibit B	
Target Formation	Exhibit B	
HSU Cross Section	Exhibit B-3	
Depth Severance Discussion	N/A	
Forms, Figures and Tables		
C-102	Exhibit A-3	
Tracts	Exhibit A-4	
Summary of Interests, Unit Recapitulation (Tracts)	Exhibit A-4	
General Location Map (including basin)	Exhibit B-1	
Well Bore Location Map	Exhibit B-1	
Structure Contour Map - Subsea Depth	Exhibit B-2	

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CASE NO. 23334
ORDER NO. R-22629-A

Page 7 of 8

Received by OCD: 3/7/2023 4:36:30 PM	Exhibit B-3	Page 7 of 10
Cross Section Location Map (including WEL)	Exhibit B-4	
Cross Section (including Landing Zone)		
Additional Information		
Special Provisions/Stipulations	N/A	
CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.		
Printed Name (Attorney or Party Representative):	Dana S. Hardy	
Signed Name (Attorney or Party Representative):	/s/ Dana S. Hardy	
Date:		3/07/2023

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CASE NO. 23334
ORDER NO. R-22629-A

Page 8 of 8

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 221799

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 221799
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	7/26/2023