

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 LLC

3a. 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/603H

9. API Well No. 3002549796

10. Field and Pool or Exploratory Area
PURPLE SAGE/FAIRVIEW MILLS;BONE SPRING11. 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: 2590 ft FNL & 1640 ft FWL 24-25S-34E

Change BHL TO: 50 ft FSL & 1640 ft FWL SESW 13-25S-34E NMNM108476 Lea Co, NM.

Change TD to: 20,284MD, 12,430 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

Title Regulatory Advisor

Signature

Date 11/14/2022

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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

Title Petroleum Engineer

Date 12/02/2022

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: SENW / 1896 FNL / 1493 FWL / TWSP: 25S / RANGE: 34E / SECTION: 12 / LAT: 32.147006 / LONG: -103.427377 (TVD: 0 feet, MD: 0 feet)

PPP: NESW / 2639 FSL / 1640 FWL / TWSP: 25S / RANGE: 34E / SECTION: 13 / LAT: 32.130473 / LONG: -103.426907 (TVD: 12533 feet, MD: 17954 feet)

PPP: NESW / 2540 FSL / 1640 FWL / TWSP: 25S / RANGE: 34E / SECTION: 12 / LAT: 32.144693 / LONG: -103.426899 (TVD: 12609 feet, MD: 12773 feet)

BHL: SENW / 2590 FNL / 1640 FWL / TWSP: 25S / RANGE: 34E / SECTION: 24 / LAT: 32.11608 / LONG: -103.426916 (TVD: 12430 feet, MD: 23179 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 30-025-49796	Pool Code 96340	Pool Name Fairview Mills; Bone Spring
Property Code 332421	Property Name BANDANA FEDERAL COM	Well Number 603H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3395.6'

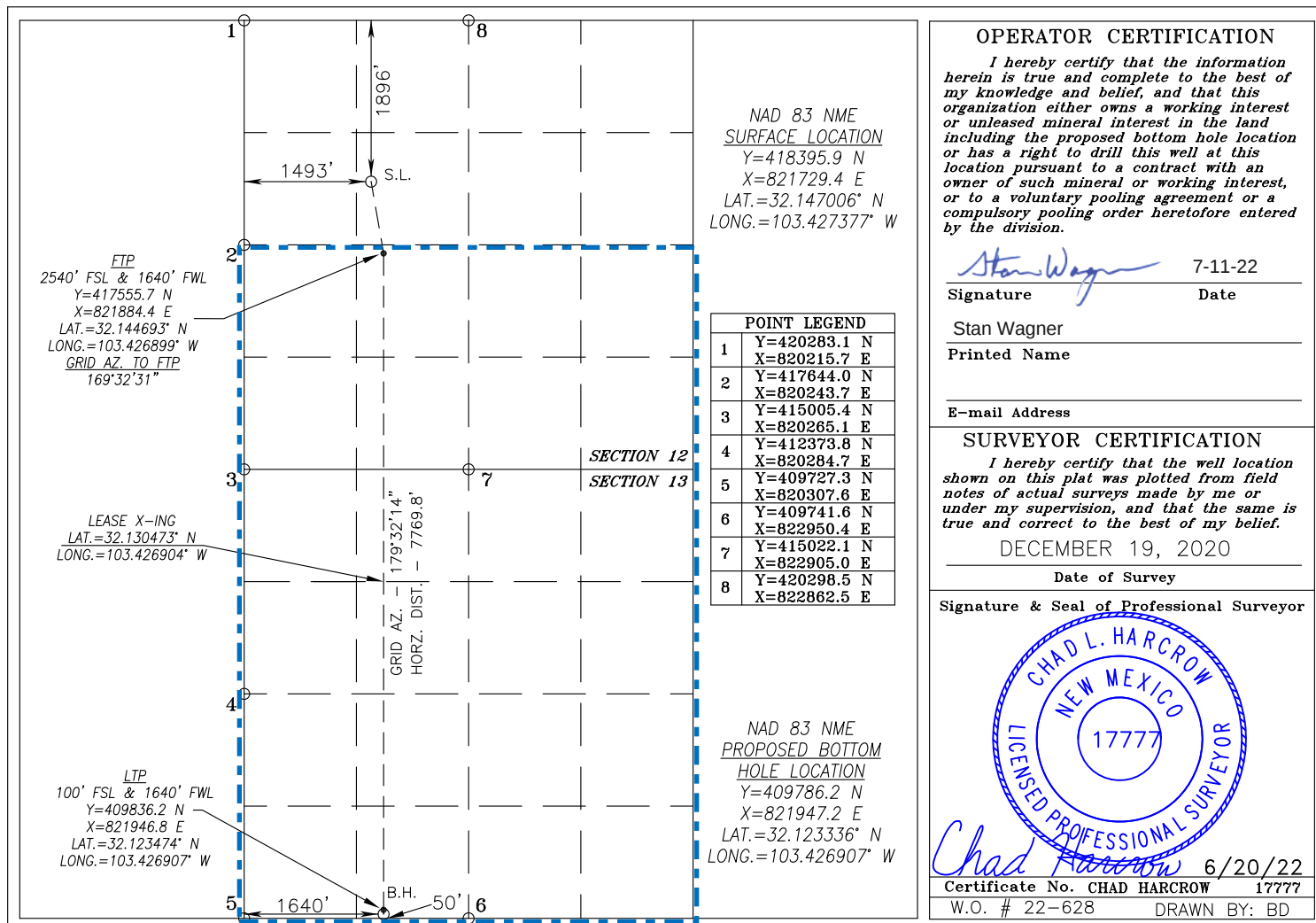
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	12	25-S	34-E		1896	NORTH	1493	WEST	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
N	13	25-S	34-E		50	SOUTH	1640	WEST	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 #603H
300254979600
OWB
PWP0**

Anticollision Report

07 July, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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	12,239.1	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction
12,239.1	20,284.0	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						Out of range
BANDANA FEDERAL COM #602H - OWB - PWP0						Out of range
BANDANA FEDERAL COM #604H - OWB - PWP0	1,995.0	1,994.0	59.5	52.4	8.445	CC, ES, SF
BANDANA FEDERAL COM #702H - OWB - PWP0						Out of range
BANDANA FEDERAL COM #703H - OWB - PWP0	1,995.0	1,994.8	30.3	23.3	4.327	CC, ES
BANDANA FEDERAL COM #703H - OWB - PWP0	2,185.0	2,182.8	32.1	24.3	4.149	SF
BANDANA FEDERAL COM #704H - OWB - PWP0	1,995.0	1,994.9	30.1	23.0	4.263	CC, ES, SF
GREEN EYESHAD FED PROJECT						
GREEN EYESHAD FEDERAL COM #601H - OWB - AW						Out of range
GREEN EYESHAD FEDERAL COM #601H - ST01 - AW						Out of range
GREEN EYESHAD FEDERAL COM #602H - OWB - AW						Out of range
GREEN EYESHAD FEDERAL COM #603H - OWB - AW	5,225.0	5,179.5	53.6	33.9	2.718	SF
GREEN EYESHAD FEDERAL COM #603H - OWB - AW	5,249.0	5,203.3	53.5	33.8	2.719	CC, ES
GREEN EYESHAD FEDERAL COM #702H - OWB - AW						Out of range
GREEN EYESHAD FEDERAL COM #703H - OWB - AW	9,058.1	8,987.8	70.3	35.8	2.041	CC, ES
GREEN EYESHAD FEDERAL COM #703H - OWB - AW	9,120.0	9,049.0	70.7	36.0	2.039	SF
GREEN EYESHAD FEDERAL COM #704H - OWB - AW	5,837.3	5,768.6	631.3	608.2	27.230	CC
GREEN EYESHAD FEDERAL COM #704H - OWB - AW	5,890.0	5,819.4	631.5	608.1	26.984	ES
GREEN EYESHAD FEDERAL COM #704H - OWB - AW	12,255.0	12,175.2	673.2	625.2	14.024	SF
PITCHBLENDE 24-25 FEDERAL PROJECT						
PITCHBLENDE 24-25 FED 604H - OWB - PWP1						Out of range
PITCHBLENDE 24-25 FED 605H - OWB - PWP1	20,284.0	12,290.8	546.9	472.1	7.315	CC, ES, SF
PITCHBLENDE 24-25 FED 606H - OWB - PWP1	20,284.0	12,319.8	676.6	561.9	5.901	CC, ES, SF
PITCHBLENDE 24-25 FED 703H - OWB - PWP1						Out of range
PITCHBLENDE 24-25 FED 704H - OWB - PWP1						Out of range
PITCHBLENDE 24-25 FED 705H - OWB - PWP1	20,284.0	12,392.4	193.4	119.5	2.615	CC, ES, SF
PITCHBLENDE 24-25 FED 706H - OWB - PWP1						Out of range
PITCHBLENDE 24-25 FED 803H - OWB - PWP1	20,284.0	12,445.4	455.6	375.1	5.666	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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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
Offset Well - Wellbore - Design						
BANDANA FEDERAL PROJECT						
*BANDANA FEDERAL COM #601H - OWB - PWP0	20,284.0	20,605.7				Out of Range @TD
BANDANA FEDERAL COM #602H - OWB - PWP0	20,284.0	20,303.1				Out of Range @TD
BANDANA FEDERAL COM #604H - OWB - PWP0	20,284.0	20,298.1				Out of Range @TD
BANDANA FEDERAL COM #702H - OWB - PWP0	20,284.0	20,527.1				Out of Range @TD
BANDANA FEDERAL COM #703H - OWB - PWP0	20,284.0	20,603.1	734.0	589.4	5.075	
BANDANA FEDERAL COM #704H - OWB - PWP0	20,284.0	20,595.7	697.3	552.8	4.824	
GREEN EYESHAD FED PROJECT						
GREEN EYESHAD FEDERAL COM #601H - OWB - AW	20,284.0	12,461.9				Out of Range @TD
GREEN EYESHAD FEDERAL COM #601H - ST01 - AW	20,284.0	12,159.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #602H - OWB - AW	20,284.0	12,205.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #603H - OWB - AW	20,284.0	12,185.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #702H - OWB - AW	20,284.0	12,444.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #703H - OWB - AW	20,284.0	12,372.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #704H - OWB - AW	20,284.0	12,468.0				Out of Range @TD
PITCHBLENDE 24-25 FEDERAL PROJECT						
PITCHBLENDE 24-25 FED 604H - OWB - PWP1	20,284.0	12,319.5				Out of Range @TD
PITCHBLENDE 24-25 FED 605H - OWB - PWP1	20,284.0	12,290.8	546.9	472.1	7.315	CC, ES, SF
PITCHBLENDE 24-25 FED 606H - OWB - PWP1	20,284.0	12,319.8	676.6	561.9	5.901	CC, ES, SF
PITCHBLENDE 24-25 FED 703H - OWB - PWP1	20,284.0	12,375.0				Out of Range @TD
PITCHBLENDE 24-25 FED 704H - OWB - PWP1	20,284.0	12,467.2				Out of Range @TD
PITCHBLENDE 24-25 FED 705H - OWB - PWP1	20,284.0	12,392.4	193.4	119.5	2.615	CC, ES, SF
PITCHBLENDE 24-25 FED 706H - OWB - PWP1	20,284.0	12,475.0				Out of Range @TD
PITCHBLENDE 24-25 FED 803H - OWB - PWP1	20,284.0	12,445.4	455.6	375.1	5.666	CC, ES, SF

Offset Design:	BANDANA FEDERAL PROJECT - BANDANA FEDERAL COM #604H - OWB - PWP0										Offset Site Error:	0.0 usft
Survey Program:	0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12255-MWD+IFR1+MS										Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:	Minimum Separation	Separation Factor	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)		
0.0	0.0	0.0	0.0	3.0	3.0	-54.31	34.7	-48.3	59.5			
95.0	95.0	94.0	94.0	3.0	3.0	-54.31	34.7	-48.3	59.5	53.5	6.00	9.912
190.0	190.0	189.0	189.0	3.0	3.0	-54.31	34.7	-48.3	59.5	53.5	6.00	9.904
285.0	285.0	284.0	284.0	3.0	3.0	-54.31	34.7	-48.3	59.5	53.5	6.01	9.888
380.0	380.0	379.0	379.0	3.0	3.0	-54.31	34.7	-48.3	59.5	53.4	6.03	9.863
475.0	475.0	474.0	474.0	3.0	3.0	-54.31	34.7	-48.3	59.5	53.4	6.05	9.829
570.0	570.0	569.0	569.0	3.1	3.1	-54.31	34.7	-48.3	59.5	53.4	6.08	9.787

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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 #604H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12255-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
665.0	665.0	664.0	664.0	3.1	3.1	-54.31	34.7	-48.3	59.5	53.4	6.11	9.736	
760.0	760.0	759.0	759.0	3.1	3.1	-54.31	34.7	-48.3	59.5	53.3	6.15	9.678	
855.0	855.0	854.0	854.0	3.2	3.2	-54.31	34.7	-48.3	59.5	53.3	6.19	9.613	
950.0	950.0	949.0	949.0	3.2	3.2	-54.31	34.7	-48.3	59.5	53.2	6.23	9.541	
1,045.0	1,045.0	1,044.0	1,044.0	3.3	3.3	-54.31	34.7	-48.3	59.5	53.2	6.29	9.462	
1,140.0	1,140.0	1,139.0	1,139.0	3.3	3.3	-54.31	34.7	-48.3	59.5	53.1	6.34	9.378	
1,235.0	1,235.0	1,234.0	1,234.0	3.4	3.4	-54.31	34.7	-48.3	59.5	53.1	6.40	9.288	
1,330.0	1,330.0	1,329.0	1,329.0	3.4	3.4	-54.31	34.7	-48.3	59.5	53.0	6.47	9.194	
1,425.0	1,425.0	1,424.0	1,424.0	3.5	3.5	-54.31	34.7	-48.3	59.5	52.9	6.54	9.096	
1,520.0	1,520.0	1,519.0	1,519.0	3.6	3.6	-54.31	34.7	-48.3	59.5	52.9	6.61	8.994	
1,615.0	1,615.0	1,614.0	1,614.0	3.6	3.6	-54.31	34.7	-48.3	59.5	52.8	6.69	8.888	
1,710.0	1,710.0	1,709.0	1,709.0	3.7	3.7	-54.31	34.7	-48.3	59.5	52.7	6.77	8.780	
1,805.0	1,805.0	1,804.0	1,804.0	3.8	3.8	-54.31	34.7	-48.3	59.5	52.6	6.86	8.670	
1,900.0	1,900.0	1,899.0	1,899.0	3.9	3.9	-54.31	34.7	-48.3	59.5	52.5	6.95	8.558	
1,995.0	1,995.0	1,994.0	1,994.0	3.9	3.9	-54.31	34.7	-48.3	59.5	52.4	7.04	8.445 CC, ES, SF	
2,090.0	2,090.0	2,088.5	2,088.5	4.1	4.0	135.81	33.8	-49.4	60.9	53.7	7.20	8.457	
2,185.0	2,184.9	2,182.8	2,182.6	4.7	4.4	134.75	31.1	-52.9	65.4	57.8	7.59	8.614	
2,280.0	2,279.6	2,276.8	2,276.3	5.3	4.9	133.23	26.4	-58.7	73.1	65.0	8.05	9.080	
2,375.0	2,373.9	2,370.3	2,369.2	5.9	5.5	131.54	19.8	-67.0	83.9	75.4	8.54	9.831	
2,470.0	2,467.9	2,463.1	2,461.1	6.4	6.0	129.88	11.4	-77.5	97.9	88.9	9.06	10.816	
2,565.0	2,561.3	2,555.3	2,551.8	6.9	6.5	128.35	1.2	-90.2	115.1	105.5	9.60	11.990	
2,660.0	2,654.3	2,647.4	2,642.0	7.2	6.9	127.14	-10.5	-104.9	134.9	124.8	10.09	13.365	
2,755.0	2,747.2	2,740.3	2,732.8	7.4	7.1	126.27	-22.5	-120.0	155.0	144.4	10.52	14.729	
2,850.0	2,840.2	2,833.1	2,823.6	7.6	7.3	125.59	-34.6	-135.1	175.1	164.1	10.95	15.993	
2,945.0	2,933.1	2,925.9	2,914.4	7.8	7.5	125.05	-46.6	-150.2	195.2	183.8	11.40	17.115	
3,040.0	3,026.0	3,018.7	3,005.2	8.0	7.7	124.61	-58.7	-165.3	215.3	203.4	11.89	18.108	
3,135.0	3,118.9	3,111.6	3,096.0	8.2	7.9	124.25	-70.7	-180.4	235.5	223.1	12.40	18.986	
3,230.0	3,211.8	3,204.4	3,186.8	8.4	8.1	123.95	-82.7	-195.5	255.6	242.7	12.93	19.763	
3,325.0	3,304.8	3,297.2	3,277.6	8.6	8.3	123.69	-94.8	-210.6	275.8	262.3	13.49	20.449	
3,420.0	3,397.7	3,390.1	3,368.4	8.9	8.5	123.46	-106.8	-225.6	296.0	281.9	14.05	21.057	
3,515.0	3,490.6	3,482.9	3,459.2	9.1	8.8	123.26	-118.9	-240.7	316.1	301.5	14.64	21.597	
3,610.0	3,583.5	3,575.7	3,550.0	9.3	9.0	123.09	-130.9	-255.8	336.3	321.1	15.23	22.078	
3,705.0	3,676.5	3,668.5	3,640.8	9.6	9.3	122.94	-142.9	-270.9	356.5	340.6	15.84	22.506	
3,800.0	3,769.4	3,761.4	3,731.6	9.9	9.6	122.80	-155.0	-286.0	376.6	360.2	16.45	22.890	
3,895.0	3,862.3	3,854.2	3,822.4	10.1	9.8	122.68	-167.0	-301.1	396.8	379.7	17.08	23.234	
3,990.0	3,955.2	3,947.0	3,913.2	10.4	10.1	122.57	-179.1	-316.2	417.0	399.3	17.71	23.543	
4,085.0	4,048.1	4,039.9	4,004.0	10.7	10.4	122.47	-191.1	-331.3	437.2	418.8	18.35	23.822	
4,180.0	4,141.1	4,132.7	4,094.8	11.0	10.7	122.38	-203.1	-346.3	457.4	438.4	19.00	24.075	
4,275.0	4,234.0	4,225.5	4,185.6	11.3	11.0	122.29	-215.2	-361.4	477.5	457.9	19.65	24.303	
4,370.0	4,326.9	4,318.3	4,276.4	11.6	11.3	122.21	-227.2	-376.5	497.7	477.4	20.31	24.511	
4,465.0	4,419.8	4,411.2	4,367.2	11.9	11.5	122.14	-239.3	-391.6	517.9	496.9	20.97	24.701	
4,560.0	4,512.8	4,504.0	4,458.0	12.2	11.9	122.08	-251.3	-406.7	538.1	516.5	21.63	24.874	
4,655.0	4,605.7	4,596.8	4,548.8	12.5	12.2	122.02	-263.3	-421.8	558.3	536.0	22.30	25.032	
4,750.0	4,698.6	4,689.7	4,639.6	12.8	12.5	121.96	-275.4	-436.9	578.5	555.5	22.98	25.178	
4,845.0	4,791.5	4,782.5	4,730.4	13.1	12.8	121.91	-287.4	-452.0	598.7	575.0	23.65	25.311	
4,940.0	4,884.5	4,875.3	4,821.2	13.4	13.1	121.86	-299.5	-467.0	618.8	594.5	24.33	25.434	
5,035.0	4,977.4	4,968.1	4,912.0	13.7	13.4	121.81	-311.5	-482.1	639.0	614.0	25.01	25.548	
5,130.0	5,070.3	5,061.0	5,002.8	14.1	13.7	121.77	-323.5	-497.2	659.2	633.5	25.70	25.653	
5,225.0	5,163.2	5,153.8	5,093.6	14.4	14.0	121.73	-335.6	-512.3	679.4	653.0	26.38	25.751	
5,320.0	5,256.1	5,246.6	5,184.4	14.7	14.4	121.69	-347.6	-527.4	699.6	672.5	27.07	25.842	
5,415.0	5,349.1	5,339.5	5,275.2	15.0	14.7	121.65	-359.7	-542.5	719.8	692.0	27.76	25.926	
5,510.0	5,442.0	5,432.3	5,366.0	15.4	15.0	121.62	-371.7	-557.6	740.0	711.5	28.46	26.004	

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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 #604H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12255-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		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		
5,605.0	5,534.9	5,525.1	5,456.8	15.7	15.3	121.58	-383.8	-572.7	760.2	731.0	29.15	26.078		
5,700.0	5,627.8	5,617.9	5,547.6	16.0	15.7	121.55	-395.8	-587.7	780.4	750.5	29.85	26.146		
5,795.0	5,720.8	5,710.8	5,638.4	16.4	16.0	121.52	-407.8	-602.8	800.5	770.0	30.54	26.210		
5,890.0	5,813.7	5,803.6	5,729.2	16.7	16.3	121.49	-419.9	-617.9	820.7	789.5	31.24	26.270		
5,985.0	5,906.6	5,896.4	5,820.0	17.0	16.7	121.47	-431.9	-633.0	840.9	809.0	31.94	26.326		
6,080.0	5,999.5	5,989.3	5,910.8	17.4	17.0	121.44	-444.0	-648.1	861.1	828.5	32.64	26.379		
6,175.0	6,092.6	6,082.2	6,001.7	17.7	17.3	121.62	-456.0	-663.2	880.9	847.5	33.34	26.417		
6,270.0	6,186.3	6,175.3	6,092.8	18.2	17.7	121.70	-468.1	-678.3	899.1	865.0	34.05	26.402		
6,365.0	6,280.4	6,268.7	6,184.1	18.6	18.0	121.59	-480.2	-693.5	915.7	880.9	34.76	26.343		
6,460.0	6,374.9	6,362.1	6,275.4	19.0	18.4	121.30	-492.3	-708.7	930.7	895.3	35.46	26.245		
6,555.0	6,469.7	6,455.4	6,366.7	19.5	18.7	120.84	-504.4	-723.9	944.2	908.1	36.16	26.115		
6,650.0	6,564.6	6,548.6	6,457.9	19.8	19.0	120.21	-516.5	-739.0	956.4	919.5	36.83	25.967		
6,745.0	6,659.6	6,641.6	6,548.8	20.1	19.4	-71.08	-528.6	-754.1	967.3	929.8	37.48	25.810		
6,840.0	6,754.6	6,734.5	6,639.7	20.4	19.7	-72.05	-540.6	-769.2	978.2	940.1	38.11	25.666		
6,935.0	6,849.6	6,827.4	6,730.6	20.6	20.1	-72.99	-552.7	-784.3	989.4	950.6	38.75	25.531		

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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 #703H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12557-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
0.0	0.0	0.0	0.0	3.0	3.0	123.69	-16.8	25.2	30.3				
95.0	95.0	94.8	94.8	3.0	3.0	123.69	-16.8	25.2	30.3	24.3	6.00	5.048	
190.0	190.0	189.8	189.8	3.0	3.0	123.69	-16.8	25.2	30.3	24.3	6.00	5.044	
285.0	285.0	284.8	284.8	3.0	3.0	123.69	-16.8	25.2	30.3	24.3	6.01	5.036	
380.0	380.0	379.8	379.8	3.0	3.0	123.69	-16.8	25.2	30.3	24.3	6.03	5.024	
475.0	475.0	474.8	474.8	3.0	3.0	123.69	-16.8	25.2	30.3	24.2	6.05	5.007	
570.0	570.0	569.8	569.8	3.1	3.1	123.69	-16.8	25.2	30.3	24.2	6.07	4.987	
665.0	665.0	664.8	664.8	3.1	3.1	123.69	-16.8	25.2	30.3	24.2	6.10	4.962	
760.0	760.0	759.8	759.8	3.1	3.1	123.69	-16.8	25.2	30.3	24.1	6.14	4.934	
855.0	855.0	854.8	854.8	3.2	3.2	123.69	-16.8	25.2	30.3	24.1	6.18	4.902	
950.0	950.0	949.8	949.8	3.2	3.2	123.69	-16.8	25.2	30.3	24.1	6.22	4.866	
1,045.0	1,045.0	1,044.8	1,044.8	3.3	3.3	123.69	-16.8	25.2	30.3	24.0	6.27	4.828	
1,140.0	1,140.0	1,139.8	1,139.8	3.3	3.3	123.69	-16.8	25.2	30.3	24.0	6.33	4.787	
1,235.0	1,235.0	1,234.8	1,234.8	3.4	3.4	123.69	-16.8	25.2	30.3	23.9	6.39	4.743	
1,330.0	1,330.0	1,329.8	1,329.8	3.4	3.4	123.69	-16.8	25.2	30.3	23.8	6.45	4.697	
1,425.0	1,425.0	1,424.8	1,424.8	3.5	3.5	123.69	-16.8	25.2	30.3	23.8	6.52	4.648	
1,520.0	1,520.0	1,519.8	1,519.8	3.6	3.6	123.69	-16.8	25.2	30.3	23.7	6.59	4.598	
1,615.0	1,615.0	1,614.8	1,614.8	3.6	3.6	123.69	-16.8	25.2	30.3	23.6	6.66	4.546	
1,710.0	1,710.0	1,709.8	1,709.8	3.7	3.7	123.69	-16.8	25.2	30.3	23.5	6.74	4.493	
1,805.0	1,805.0	1,804.8	1,804.8	3.8	3.8	123.69	-16.8	25.2	30.3	23.5	6.82	4.438	
1,900.0	1,900.0	1,899.8	1,899.8	3.9	3.9	123.69	-16.8	25.2	30.3	23.4	6.91	4.383	
1,995.0	1,995.0	1,994.8	1,994.8	3.9	3.9	123.69	-16.8	25.2	30.3	23.3	7.00	4.327 CC, ES	
2,090.0	2,090.0	2,088.9	2,088.9	4.1	4.1	-47.21	-17.8	26.2	30.7	23.5	7.20	4.261	
2,185.0	2,184.9	2,182.8	2,182.7	4.7	4.6	-51.31	-20.9	29.3	32.1	24.3	7.72	4.149 SF	
2,280.0	2,279.6	2,276.7	2,276.3	5.3	5.2	-57.44	-26.3	34.6	34.7	26.7	8.07	4.302	
2,375.0	2,373.9	2,370.4	2,369.4	5.9	5.8	-64.50	-33.8	42.0	39.0	30.8	8.22	4.752	
2,470.0	2,467.9	2,463.9	2,461.9	6.4	6.3	-71.43	-43.5	51.6	45.3	37.0	8.31	5.450	
2,565.0	2,561.3	2,557.2	2,553.7	6.9	6.8	-77.57	-55.2	63.2	53.6	45.1	8.49	6.319	
2,660.0	2,654.3	2,650.9	2,645.4	7.2	7.1	-82.58	-68.8	76.7	63.8	55.1	8.76	7.284	
2,755.0	2,747.2	2,745.2	2,737.7	7.4	7.4	-86.24	-82.8	90.4	74.6	65.4	9.14	8.158	
2,850.0	2,840.2	2,839.5	2,829.9	7.6	7.5	-88.97	-96.7	104.2	85.5	75.9	9.60	8.906	
2,945.0	2,933.1	2,933.8	2,922.1	7.8	7.7	-91.08	-110.7	118.0	96.7	86.5	10.12	9.546	
3,040.0	3,026.0	3,028.1	3,014.4	8.0	7.9	-92.75	-124.6	131.8	107.9	97.2	10.68	10.098	
3,135.0	3,118.9	3,122.4	3,106.6	8.2	8.1	-94.10	-138.5	145.6	119.2	107.9	11.27	10.575	
3,230.0	3,211.8	3,216.7	3,198.8	8.4	8.3	-95.22	-152.5	159.3	130.5	118.6	11.87	10.992	
3,325.0	3,304.8	3,311.0	3,291.1	8.6	8.5	-96.17	-166.4	173.1	141.9	129.4	12.49	11.357	
3,420.0	3,397.7	3,405.2	3,383.3	8.9	8.8	-96.97	-180.3	186.9	153.3	140.2	13.13	11.679	
3,515.0	3,490.6	3,499.5	3,475.5	9.1	9.0	-97.66	-194.3	200.7	164.8	151.0	13.77	11.964	
3,610.0	3,583.5	3,593.8	3,567.7	9.3	9.3	-98.26	-208.2	214.5	176.2	161.8	14.42	12.217	
3,705.0	3,676.5	3,688.1	3,660.0	9.6	9.5	-98.78	-222.1	228.2	187.7	172.6	15.08	12.444	
3,800.0	3,769.4	3,782.4	3,752.2	9.9	9.8	-99.25	-236.1	242.0	199.2	183.5	15.75	12.647	
3,895.0	3,862.3	3,876.7	3,844.4	10.1	10.0	-99.67	-250.0	255.8	210.7	194.3	16.42	12.830	
3,990.0	3,955.2	3,971.0	3,936.7	10.4	10.3	-100.04	-264.0	269.6	222.2	205.1	17.10	12.995	
4,085.0	4,048.1	4,065.3	4,028.9	10.7	10.6	-100.37	-277.9	283.4	233.8	216.0	17.78	13.145	
4,180.0	4,141.1	4,159.6	4,121.1	11.0	10.9	-100.68	-291.8	297.1	245.3	226.8	18.47	13.282	
4,275.0	4,234.0	4,253.8	4,213.3	11.3	11.2	-100.95	-305.8	310.9	256.8	237.7	19.16	13.406	
4,370.0	4,326.9	4,348.1	4,305.6	11.6	11.5	-101.21	-319.7	324.7	268.4	248.5	19.85	13.521	
4,465.0	4,419.8	4,442.4	4,397.8	11.9	11.8	-101.44	-333.6	338.5	279.9	259.4	20.54	13.626	
4,560.0	4,512.8	4,536.7	4,490.0	12.2	12.1	-101.65	-347.6	352.3	291.5	270.2	21.24	13.722	
4,655.0	4,605.7	4,631.0	4,582.3	12.5	12.4	-101.85	-361.5	366.0	303.0	281.1	21.94	13.811	
4,750.0	4,698.6	4,725.3	4,674.5	12.8	12.7	-102.03	-375.5	379.8	314.6	292.0	22.64	13.894	
4,845.0	4,791.5	4,819.6	4,766.7	13.1	13.0	-102.20	-389.4	393.6	326.2	302.8	23.35	13.970	

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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12557-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	4,884.5	4,913.9	4,859.0	13.4	13.3	-102.36	-403.3	407.4	337.7	313.7	24.05	14.042	
5,035.0	4,977.4	5,008.2	4,951.2	13.7	13.6	-102.51	-417.3	421.2	349.3	324.5	24.76	14.108	
5,130.0	5,070.3	5,102.4	5,043.4	14.1	13.9	-102.65	-431.2	434.9	360.9	335.4	25.47	14.170	
5,225.0	5,163.2	5,196.7	5,135.6	14.4	14.2	-102.78	-445.1	448.7	372.4	346.3	26.18	14.227	
5,320.0	5,256.1	5,291.0	5,227.9	14.7	14.6	-102.90	-459.1	462.5	384.0	357.1	26.89	14.281	
5,415.0	5,349.1	5,385.3	5,320.1	15.0	14.9	-103.01	-473.0	476.3	395.6	368.0	27.60	14.332	
5,510.0	5,442.0	5,479.6	5,412.3	15.4	15.2	-103.12	-486.9	490.1	407.2	378.9	28.32	14.380	
5,605.0	5,534.9	5,573.9	5,504.6	15.7	15.5	-103.22	-500.9	503.8	418.7	389.7	29.03	14.425	
5,700.0	5,627.8	5,668.2	5,596.8	16.0	15.9	-103.32	-514.8	517.6	430.3	400.6	29.75	14.467	
5,795.0	5,720.8	5,762.5	5,689.0	16.4	16.2	-103.41	-528.8	531.4	441.9	411.4	30.46	14.507	
5,890.0	5,813.7	5,856.8	5,781.2	16.7	16.5	-103.50	-542.7	545.2	453.5	422.3	31.18	14.544	
5,985.0	5,906.6	5,951.0	5,873.5	17.0	16.9	-103.58	-556.6	559.0	465.1	433.2	31.90	14.580	
6,080.0	5,999.5	6,045.3	5,965.7	17.4	17.2	-103.66	-570.6	572.7	476.7	444.0	32.62	14.613	
6,175.0	6,092.6	6,139.6	6,058.0	17.7	17.5	-103.80	-584.5	586.5	488.0	454.7	33.34	14.639	
6,270.0	6,186.3	6,234.0	6,150.2	18.2	17.9	-103.65	-598.4	600.3	498.7	464.7	34.05	14.646	
6,365.0	6,280.4	6,328.3	6,242.5	18.6	18.2	-103.15	-612.4	614.1	508.7	473.9	34.75	14.640	
6,460.0	6,374.9	6,422.4	6,334.5	19.0	18.5	-102.33	-626.3	627.8	518.1	482.7	35.42	14.625	
6,555.0	6,469.7	6,516.2	6,426.3	19.5	18.9	-101.21	-640.2	641.6	527.0	490.9	36.08	14.607	
6,650.0	6,564.6	6,609.6	6,517.7	19.8	19.2	-99.80	-654.0	655.2	535.7	499.0	36.69	14.599	
6,745.0	6,659.6	6,702.7	6,608.7	20.1	19.5	71.45	-667.7	668.8	544.3	507.0	37.27	14.603	
6,840.0	6,754.6	6,795.6	6,699.6	20.4	19.9	73.26	-681.5	682.4	553.5	515.6	37.86	14.619	
6,935.0	6,849.6	6,888.5	6,790.5	20.6	20.2	75.00	-695.2	696.0	563.1	524.7	38.45	14.648	
7,030.0	6,944.6	6,981.4	6,881.4	20.9	20.6	76.69	-708.9	709.6	573.3	534.3	39.04	14.686	
7,125.0	7,039.6	7,074.4	6,972.3	21.2	20.9	78.32	-722.7	723.1	584.0	544.4	39.64	14.732	
7,220.0	7,134.6	7,167.3	7,063.1	21.4	21.2	79.89	-736.4	736.7	595.2	554.9	40.25	14.787	
7,315.0	7,229.6	7,260.2	7,154.0	21.7	21.6	81.41	-750.1	750.3	606.8	565.9	40.87	14.848	
7,410.0	7,324.6	7,353.1	7,244.9	22.0	21.9	82.86	-763.9	763.9	618.8	577.3	41.49	14.915	
7,505.0	7,419.6	7,446.1	7,335.8	22.3	22.3	84.27	-777.6	777.5	631.1	589.0	42.11	14.987	
7,600.0	7,514.6	7,539.0	7,426.8	22.5	22.6	85.62	-791.3	791.0	643.9	601.2	42.74	15.064	
7,695.0	7,609.6	7,648.8	7,534.6	22.8	23.0	87.01	-806.1	805.6	655.8	612.3	43.48	15.082	
7,790.0	7,704.6	7,760.1	7,644.6	23.1	23.5	88.09	-818.0	817.4	665.5	621.3	44.22	15.050	
7,885.0	7,799.6	7,872.5	7,756.3	23.4	24.0	88.88	-827.0	826.3	672.8	627.9	44.94	14.971	
7,980.0	7,894.6	7,985.8	7,869.2	23.7	24.5	89.39	-832.9	832.1	677.6	632.0	45.63	14.850	
8,075.0	7,989.6	8,099.5	7,982.9	24.0	24.9	89.62	-835.6	834.8	679.9	633.6	46.29	14.686	
8,170.0	8,084.6	8,201.0	8,084.4	24.3	25.2	89.64	-835.8	835.0	680.0	633.1	46.87	14.508	
8,265.0	8,179.6	8,296.0	8,179.4	24.5	25.5	89.64	-835.8	835.0	680.0	632.6	47.45	14.330	
8,360.0	8,274.6	8,391.0	8,274.4	24.8	25.8	89.64	-835.8	835.0	680.0	632.0	48.04	14.155	
8,455.0	8,369.6	8,486.0	8,369.4	25.1	26.0	89.64	-835.8	835.0	680.0	631.4	48.63	13.983	
8,550.0	8,464.6	8,581.0	8,464.4	25.4	26.3	89.64	-835.8	835.0	680.0	630.8	49.22	13.815	
8,645.0	8,559.6	8,676.0	8,559.4	25.7	26.6	89.64	-835.8	835.0	680.0	630.2	49.82	13.650	
8,740.0	8,654.6	8,771.0	8,654.4	26.0	26.9	89.64	-835.8	835.0	680.0	629.6	50.41	13.489	
8,835.0	8,749.6	8,866.0	8,749.4	26.3	27.2	89.64	-835.8	835.0	680.0	629.0	51.01	13.330	
8,930.0	8,844.6	8,961.0	8,844.4	26.6	27.4	89.64	-835.8	835.0	680.0	628.4	51.61	13.175	
9,025.0	8,939.6	9,056.0	8,939.4	26.9	27.7	89.64	-835.8	835.0	680.0	627.8	52.22	13.023	
9,120.0	9,034.6	9,151.0	9,034.4	27.2	28.0	89.64	-835.8	835.0	680.0	627.2	52.82	12.874	
9,215.0	9,129.6	9,246.0	9,129.4	27.5	28.3	89.64	-835.8	835.0	680.0	626.6	53.43	12.728	
9,310.0	9,224.6	9,341.0	9,224.4	27.8	28.6	89.64	-835.8	835.0	680.0	626.0	54.03	12.585	
9,405.0	9,319.6	9,436.0	9,319.4	28.1	28.9	89.64	-835.8	835.0	680.0	625.4	54.64	12.445	
9,500.0	9,414.6	9,531.0	9,414.4	28.4	29.2	89.64	-835.8	835.0	680.0	624.8	55.26	12.307	
9,595.0	9,509.6	9,626.0	9,509.4	28.7	29.4	89.64	-835.8	835.0	680.0	624.1	55.87	12.172	
9,690.0	9,604.6	9,721.0	9,604.4	29.0	29.7	89.64	-835.8	835.0	680.0	623.5	56.48	12.039	
9,785.0	9,699.6	9,816.0	9,699.4	29.3	30.0	89.64	-835.8	835.0	680.0	622.9	57.10	11.909	

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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 #703H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12557-MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,880.0	9,794.6	9,911.0	9,794.4	29.6	30.3	89.64	-835.8	835.0	680.0	622.3	57.72	11.782	
9,975.0	9,889.6	10,006.0	9,889.4	29.9	30.6	89.64	-835.8	835.0	680.0	621.7	58.33	11.657	
10,070.0	9,984.6	10,101.0	9,984.4	30.3	30.9	89.64	-835.8	835.0	680.0	621.1	58.96	11.534	
10,165.0	10,079.6	10,196.0	10,079.4	30.6	31.2	89.64	-835.8	835.0	680.0	620.4	59.58	11.414	
10,260.0	10,174.6	10,291.0	10,174.4	30.9	31.5	89.64	-835.8	835.0	680.0	619.8	60.20	11.296	
10,355.0	10,269.6	10,386.0	10,269.4	31.2	31.8	89.64	-835.8	835.0	680.0	619.2	60.82	11.180	
10,450.0	10,364.6	10,481.0	10,364.4	31.5	32.1	89.64	-835.8	835.0	680.0	618.6	61.45	11.066	
10,545.0	10,459.6	10,576.0	10,459.4	31.8	32.4	89.64	-835.8	835.0	680.0	617.9	62.08	10.955	
10,640.0	10,554.6	10,671.0	10,554.4	32.1	32.7	89.64	-835.8	835.0	680.0	617.3	62.70	10.845	
10,735.0	10,649.6	10,766.0	10,649.4	32.4	33.0	89.64	-835.8	835.0	680.0	616.7	63.33	10.737	
10,830.0	10,744.6	10,861.0	10,744.4	32.7	33.3	89.64	-835.8	835.0	680.0	616.1	63.96	10.632	
10,925.0	10,839.6	10,956.0	10,839.4	33.1	33.6	89.64	-835.8	835.0	680.0	615.4	64.59	10.528	
11,020.0	10,934.6	11,051.0	10,934.4	33.4	33.9	89.64	-835.8	835.0	680.0	614.8	65.22	10.426	
11,115.0	11,029.6	11,146.0	11,029.4	33.7	34.2	89.64	-835.8	835.0	680.0	614.2	65.86	10.326	
11,210.0	11,124.6	11,241.0	11,124.4	34.0	34.5	89.64	-835.8	835.0	680.0	613.5	66.49	10.227	
11,305.0	11,219.6	11,336.0	11,219.4	34.3	34.8	89.64	-835.8	835.0	680.0	612.9	67.13	10.130	
11,400.0	11,314.6	11,431.0	11,314.4	34.6	35.2	89.64	-835.8	835.0	680.0	612.3	67.76	10.035	
11,495.0	11,409.6	11,526.0	11,409.4	35.0	35.5	89.64	-835.8	835.0	680.0	611.6	68.40	9.942	
11,590.0	11,504.6	11,621.0	11,504.4	35.3	35.8	89.64	-835.8	835.0	680.0	611.0	69.03	9.850	
11,685.0	11,599.6	11,716.0	11,599.4	35.6	36.1	89.64	-835.8	835.0	680.0	610.3	69.67	9.760	
11,780.0	11,694.6	11,811.0	11,694.4	35.9	36.4	89.64	-835.8	835.0	680.0	609.7	70.31	9.671	
11,875.0	11,789.6	11,906.0	11,789.4	36.2	36.7	89.64	-835.8	835.0	680.0	609.1	70.95	9.584	
11,970.0	11,884.6	12,001.0	11,884.4	36.6	37.0	89.64	-835.8	835.0	680.0	608.4	71.59	9.498	
12,065.0	11,979.6	12,096.0	11,979.4	36.9	37.3	89.64	-835.8	835.0	680.0	607.8	72.23	9.414	
12,160.0	12,074.6	12,191.0	12,074.4	37.2	37.6	89.64	-835.8	835.0	680.0	607.1	72.88	9.331	
12,255.0	12,169.6	12,286.0	12,169.4	37.4	38.0	-89.92	-835.8	835.0	680.0	606.6	73.40	9.265	
12,272.4	12,187.0	12,303.4	12,186.8	37.4	38.0	-90.00	-835.8	835.0	680.0	606.6	73.46	9.257	
12,350.0	12,263.6	12,380.0	12,263.4	37.4	38.3	-90.96	-835.8	835.0	680.1	606.4	73.75	9.222	
12,445.0	12,353.3	12,469.7	12,353.1	37.5	38.6	-93.25	-835.8	835.0	681.3	607.2	74.15	9.189	
12,540.0	12,435.1	12,551.5	12,434.9	37.5	38.8	-96.14	-835.8	835.0	686.0	611.4	74.58	9.198	
12,635.0	12,505.8	12,651.7	12,534.5	37.6	38.9	-99.92	-845.1	835.1	695.8	621.0	74.76	9.308	
12,730.0	12,562.6	12,775.3	12,651.2	37.7	39.0	-103.99	-884.7	835.4	709.2	634.6	74.65	9.500	
12,825.0	12,603.2	12,932.7	12,778.6	37.7	39.1	-108.26	-975.9	836.1	723.9	649.9	73.99	9.783	
12,920.0	12,626.2	13,134.8	12,887.3	37.8	39.2	-111.86	-1,144.4	837.5	735.2	662.4	72.75	10.105	
13,015.0	12,630.6	13,340.4	12,917.4	37.9	39.3	-112.89	-1,346.3	839.1	738.1	665.9	72.28	10.212	
13,110.0	12,628.0	13,435.4	12,914.7	37.9	39.4	-112.88	-1,441.3	839.9	738.1	665.5	72.61	10.166	
13,205.0	12,625.4	13,530.4	12,911.9	38.0	39.4	-112.87	-1,536.2	840.6	738.0	665.1	72.94	10.118	
13,300.0	12,622.8	13,625.4	12,909.1	38.1	39.5	-112.86	-1,631.2	841.4	738.0	664.7	73.31	10.066	
13,395.0	12,620.2	13,720.4	12,906.4	38.2	39.7	-112.85	-1,726.1	842.2	737.9	664.2	73.71	10.012	
13,490.0	12,617.5	13,815.4	12,903.6	38.3	39.8	-112.84	-1,821.1	842.9	737.9	663.7	74.13	9.954	
13,585.0	12,614.9	13,910.4	12,900.8	38.5	40.0	-112.83	-1,916.1	843.7	737.8	663.2	74.57	9.894	
13,680.0	12,612.3	14,005.4	12,898.1	38.7	40.2	-112.82	-2,011.0	844.4	737.8	662.7	75.05	9.831	
13,775.0	12,609.7	14,100.4	12,895.3	38.9	40.4	-112.81	-2,106.0	845.2	737.7	662.2	75.54	9.765	
13,870.0	12,607.0	14,195.4	12,892.6	39.1	40.6	-112.80	-2,200.9	846.0	737.6	661.6	76.07	9.697	
13,965.0	12,604.4	14,290.4	12,889.8	39.4	40.9	-112.79	-2,295.9	846.7	737.6	661.0	76.61	9.627	
14,060.0	12,601.8	14,385.4	12,887.0	39.6	41.2	-112.78	-2,390.8	847.5	737.5	660.3	77.18	9.556	
14,155.0	12,599.2	14,480.4	12,884.3	39.9	41.4	-112.77	-2,485.8	848.3	737.5	659.7	77.78	9.482	
14,250.0	12,596.6	14,575.4	12,881.5	40.2	41.7	-112.76	-2,580.7	849.0	737.4	659.0	78.39	9.407	
14,345.0	12,593.9	14,670.4	12,878.7	40.5	42.0	-112.75	-2,675.7	849.8	737.4	658.3	79.03	9.330	
14,440.0	12,591.3	14,765.4	12,876.0	40.8	42.3	-112.74	-2,770.7	850.5	737.3	657.6	79.69	9.252	
14,535.0	12,588.7	14,860.4	12,873.2	41.2	42.7	-112.73	-2,865.6	851.3	737.2	656.9	80.37	9.173	
14,630.0	12,586.1	14,955.4	12,870.4	41.5	43.0	-112.72	-2,960.6	852.1	737.2	656.1	81.07	9.093	

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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 #703H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12557-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
14,725.0	12,583.4	15,050.4	12,867.7	41.8	43.3	-112.71	-3,055.5	852.8	737.1	655.3	81.79	9.013	
14,820.0	12,580.8	15,145.4	12,864.9	42.2	43.7	-112.70	-3,150.5	853.6	737.1	654.6	82.53	8.931	
14,915.0	12,578.2	15,240.4	12,862.1	42.6	44.1	-112.68	-3,245.4	854.4	737.0	653.7	83.29	8.849	
15,010.0	12,575.6	15,335.4	12,859.4	43.0	44.4	-112.67	-3,340.4	855.1	737.0	652.9	84.06	8.767	
15,105.0	12,573.0	15,430.4	12,856.6	43.3	44.8	-112.66	-3,435.4	855.9	736.9	652.1	84.86	8.684	
15,200.0	12,570.3	15,525.4	12,853.8	43.7	45.2	-112.65	-3,530.3	856.6	736.9	651.2	85.67	8.601	
15,295.0	12,567.7	15,620.4	12,851.1	44.2	45.6	-112.64	-3,625.3	857.4	736.8	650.3	86.50	8.518	
15,390.0	12,565.1	15,715.4	12,848.3	44.6	46.0	-112.63	-3,720.2	858.2	736.8	649.4	87.34	8.435	
15,485.0	12,562.5	15,810.4	12,845.5	45.0	46.4	-112.62	-3,815.2	858.9	736.7	648.5	88.21	8.352	
15,580.0	12,559.8	15,905.4	12,842.8	45.4	46.8	-112.61	-3,910.1	859.7	736.6	647.6	89.08	8.269	
15,675.0	12,557.2	16,000.4	12,840.0	45.9	47.3	-112.60	-4,005.1	860.5	736.6	646.6	89.97	8.187	
15,770.0	12,554.6	16,095.4	12,837.2	46.3	47.7	-112.59	-4,100.1	861.2	736.5	645.6	90.88	8.104	
15,865.0	12,552.0	16,190.4	12,834.5	46.8	48.1	-112.58	-4,195.0	862.0	736.5	644.7	91.80	8.022	
15,960.0	12,549.4	16,285.4	12,831.7	47.2	48.6	-112.57	-4,290.0	862.7	736.4	643.7	92.74	7.941	
16,055.0	12,546.7	16,380.4	12,828.9	47.7	49.0	-112.56	-4,384.9	863.5	736.4	642.7	93.68	7.860	
16,150.0	12,544.1	16,475.4	12,826.2	48.2	49.5	-112.55	-4,479.9	864.3	736.3	641.7	94.64	7.780	
16,245.0	12,541.5	16,570.4	12,823.4	48.7	50.0	-112.54	-4,574.8	865.0	736.3	640.6	95.62	7.700	
16,340.0	12,538.9	16,665.4	12,820.6	49.1	50.4	-112.53	-4,669.8	865.8	736.2	639.6	96.60	7.621	
16,435.0	12,536.2	16,760.4	12,817.9	49.6	50.9	-112.52	-4,764.7	866.6	736.1	638.5	97.60	7.543	
16,530.0	12,533.6	16,855.4	12,815.1	50.1	51.4	-112.51	-4,859.7	867.3	736.1	637.5	98.61	7.465	
16,625.0	12,531.0	16,950.4	12,812.3	50.6	51.9	-112.50	-4,954.7	868.1	736.0	636.4	99.62	7.388	
16,720.0	12,528.4	17,045.4	12,809.6	51.1	52.4	-112.49	-5,049.6	868.8	736.0	635.3	100.65	7.312	
16,815.0	12,525.8	17,140.4	12,806.8	51.7	52.9	-112.48	-5,144.6	869.6	735.9	634.2	101.69	7.237	
16,910.0	12,523.1	17,235.4	12,804.0	52.2	53.4	-112.47	-5,239.5	870.4	735.9	633.1	102.74	7.162	
17,005.0	12,520.5	17,330.4	12,801.3	52.7	53.9	-112.46	-5,334.5	871.1	735.8	632.0	103.80	7.088	
17,100.0	12,517.9	17,425.4	12,798.5	53.2	54.4	-112.45	-5,429.4	871.9	735.8	630.9	104.87	7.016	
17,195.0	12,515.3	17,520.4	12,795.7	53.8	55.0	-112.44	-5,524.4	872.7	735.7	629.8	105.95	6.944	
17,290.0	12,512.6	17,615.4	12,793.0	54.3	55.5	-112.43	-5,619.4	873.4	735.6	628.6	107.04	6.873	
17,385.0	12,510.0	17,710.4	12,790.2	54.8	56.0	-112.42	-5,714.3	874.2	735.6	627.5	108.14	6.803	
17,480.0	12,507.4	17,805.4	12,787.5	55.4	56.6	-112.41	-5,809.3	874.9	735.5	626.3	109.24	6.733	
17,575.0	12,504.8	17,900.4	12,784.7	55.9	57.1	-112.40	-5,904.2	875.7	735.5	625.1	110.35	6.665	
17,670.0	12,502.2	17,995.4	12,781.9	56.5	57.6	-112.39	-5,999.2	876.5	735.4	624.0	111.47	6.597	
17,765.0	12,499.5	18,090.4	12,779.2	57.1	58.2	-112.38	-6,094.1	877.2	735.4	622.8	112.60	6.531	
17,860.0	12,496.9	18,185.4	12,776.4	57.6	58.7	-112.37	-6,189.1	878.0	735.3	621.6	113.74	6.465	
17,955.0	12,494.3	18,280.4	12,773.6	58.2	59.3	-112.35	-6,284.1	878.8	735.3	620.4	114.88	6.400	
18,050.0	12,491.7	18,375.4	12,770.9	58.8	59.9	-112.34	-6,379.0	879.5	735.2	619.2	116.03	6.336	
18,145.0	12,489.0	18,470.4	12,768.1	59.3	60.4	-112.33	-6,474.0	880.3	735.2	618.0	117.19	6.273	
18,240.0	12,486.4	18,565.4	12,765.3	59.9	61.0	-112.32	-6,568.9	881.0	735.1	616.8	118.35	6.211	
18,335.0	12,483.8	18,660.4	12,762.6	60.5	61.6	-112.31	-6,663.9	881.8	735.0	615.5	119.52	6.150	
18,430.0	12,481.2	18,755.4	12,759.8	61.1	62.1	-112.30	-6,758.8	882.6	735.0	614.3	120.70	6.090	
18,525.0	12,478.6	18,850.4	12,757.0	61.7	62.7	-112.29	-6,853.8	883.3	734.9	613.1	121.88	6.030	
18,620.0	12,475.9	18,945.4	12,754.3	62.2	63.3	-112.28	-6,948.7	884.1	734.9	611.8	123.07	5.972	
18,715.0	12,473.3	19,040.4	12,751.5	62.8	63.9	-112.27	-7,043.7	884.9	734.8	610.6	124.26	5.914	
18,810.0	12,470.7	19,135.4	12,748.7	63.4	64.4	-112.26	-7,138.7	885.6	734.8	609.3	125.46	5.857	
18,905.0	12,468.1	19,230.4	12,746.0	64.0	65.0	-112.25	-7,233.6	886.4	734.7	608.1	126.66	5.801	
19,000.0	12,465.4	19,325.4	12,743.2	64.6	65.6	-112.24	-7,328.6	887.1	734.7	606.8	127.87	5.745	
19,095.0	12,462.8	19,420.4	12,740.4	65.2	66.2	-112.23	-7,423.5	887.9	734.6	605.5	129.09	5.691	
19,190.0	12,460.2	19,515.4	12,737.7	65.8	66.8	-112.22	-7,518.5	888.7	734.6	604.3	130.30	5.637	
19,285.0	12,457.6	19,610.4	12,734.9	66.4	67.4	-112.21	-7,613.4	889.4	734.5	603.0	131.53	5.584	
19,380.0	12,455.0	19,705.4	12,732.1	67.0	68.0	-112.20	-7,708.4	890.2	734.4	601.7	132.76	5.532	
19,475.0	12,452.3	19,800.4	12,729.4	67.7	68.6	-112.19	-7,803.4	891.0	734.4	600.4	133.99	5.481	
19,570.0	12,449.7	19,895.4	12,726.6	68.3	69.2	-112.18	-7,898.3	891.7	734.3	599.1	135.23	5.430	

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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 #703H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12557-MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		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	
19,665.0	12,447.1	19,990.4	12,723.8	68.9	69.8	-112.17	-7,993.3	892.5	734.3	597.8	136.47	5.381	
19,760.0	12,444.5	20,085.4	12,721.1	69.5	70.4	-112.16	-8,088.2	893.2	734.2	596.5	137.72	5.331	
19,855.0	12,441.8	20,180.4	12,718.3	70.1	71.0	-112.15	-8,183.2	894.0	734.2	595.2	138.97	5.283	
19,950.0	12,439.2	20,275.4	12,715.5	70.7	71.7	-112.14	-8,278.1	894.8	734.1	593.9	140.22	5.235	
20,045.0	12,436.6	20,370.4	12,712.8	71.4	72.3	-112.13	-8,373.1	895.5	734.1	592.6	141.48	5.189	
20,140.0	12,434.0	20,465.4	12,710.0	72.0	72.9	-112.12	-8,468.1	896.3	734.0	591.3	142.74	5.142	
20,235.0	12,431.4	20,560.4	12,707.2	72.6	73.5	-112.11	-8,563.0	897.1	734.0	590.0	144.00	5.097	
20,277.9	12,430.2	20,603.1	12,706.0	72.9	73.8	-112.10	-8,605.7	897.4	733.9	589.4	144.57	5.077	
20,284.0	12,430.0	20,603.1	12,706.0	72.9	73.8	-112.10	-8,605.7	897.4	734.0	589.4	144.61	5.075	

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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 #704H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12476-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)	Semi Major Axis (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	0.0	0.0	3.0	3.0	3.0	-53.51	17.9	-24.2	30.1				
95.0	95.0	94.9	94.9	3.0	3.0	3.0	-53.51	17.9	-24.2	30.1	24.1	6.00	5.016	
190.0	190.0	189.9	189.9	3.0	3.0	3.0	-53.51	17.9	-24.2	30.1	24.1	6.00	5.013	
285.0	285.0	284.9	284.9	3.0	3.0	3.0	-53.51	17.9	-24.2	30.1	24.1	6.01	5.004	
380.0	380.0	379.9	379.9	3.0	3.0	3.0	-53.51	17.9	-24.2	30.1	24.1	6.03	4.991	
475.0	475.0	474.9	474.9	3.0	3.0	3.0	-53.51	17.9	-24.2	30.1	24.0	6.05	4.974	
570.0	570.0	569.9	569.9	3.1	3.1	3.1	-53.51	17.9	-24.2	30.1	24.0	6.08	4.952	
665.0	665.0	664.9	664.9	3.1	3.1	3.1	-53.51	17.9	-24.2	30.1	24.0	6.11	4.926	
760.0	760.0	759.9	759.9	3.1	3.1	3.1	-53.51	17.9	-24.2	30.1	24.0	6.15	4.896	
855.0	855.0	854.9	854.9	3.2	3.2	3.2	-53.51	17.9	-24.2	30.1	23.9	6.19	4.863	
950.0	950.0	949.9	949.9	3.2	3.2	3.2	-53.51	17.9	-24.2	30.1	23.9	6.24	4.825	
1,045.0	1,045.0	1,044.9	1,044.9	3.3	3.3	3.3	-53.51	17.9	-24.2	30.1	23.8	6.29	4.785	
1,140.0	1,140.0	1,139.9	1,139.9	3.3	3.3	3.3	-53.51	17.9	-24.2	30.1	23.8	6.35	4.742	
1,235.0	1,235.0	1,234.9	1,234.9	3.4	3.4	3.4	-53.51	17.9	-24.2	30.1	23.7	6.41	4.696	
1,330.0	1,330.0	1,329.9	1,329.9	3.4	3.4	3.4	-53.51	17.9	-24.2	30.1	23.6	6.48	4.647	
1,425.0	1,425.0	1,424.9	1,424.9	3.5	3.5	3.5	-53.51	17.9	-24.2	30.1	23.6	6.55	4.597	
1,520.0	1,520.0	1,519.9	1,519.9	3.6	3.6	3.6	-53.51	17.9	-24.2	30.1	23.5	6.62	4.544	
1,615.0	1,615.0	1,614.9	1,614.9	3.6	3.6	3.6	-53.51	17.9	-24.2	30.1	23.4	6.70	4.490	
1,710.0	1,710.0	1,709.9	1,709.9	3.7	3.7	3.7	-53.51	17.9	-24.2	30.1	23.3	6.79	4.435	
1,805.0	1,805.0	1,804.9	1,804.9	3.8	3.8	3.8	-53.51	17.9	-24.2	30.1	23.2	6.87	4.379	
1,900.0	1,900.0	1,899.9	1,899.9	3.9	3.9	3.9	-53.51	17.9	-24.2	30.1	23.1	6.97	4.321	
1,995.0	1,995.0	1,994.9	1,994.9	3.9	3.9	3.9	-53.51	17.9	-24.2	30.1	23.0	7.06	4.263 CC, ES, SF	
2,090.0	2,090.0	2,090.0	2,090.0	4.1	4.1	4.1	136.13	16.6	-24.9	30.9	23.8	7.16	4.316	
2,185.0	2,184.9	2,185.1	2,185.0	4.7	4.6	4.6	133.78	12.6	-27.0	33.6	26.2	7.36	4.566	
2,280.0	2,279.6	2,280.1	2,279.6	5.3	5.2	5.2	130.55	5.8	-30.5	38.2	30.6	7.56	5.055	
2,375.0	2,373.9	2,374.8	2,373.8	5.9	5.7	5.7	127.12	-3.8	-35.5	44.8	37.0	7.81	5.741	
2,470.0	2,467.9	2,469.3	2,467.2	6.4	6.2	6.2	123.95	-16.1	-41.9	53.5	45.4	8.13	6.582	
2,565.0	2,561.3	2,563.5	2,559.9	6.9	6.5	6.5	121.25	-31.1	-49.7	64.3	55.8	8.49	7.572	
2,660.0	2,654.3	2,657.7	2,652.4	7.2	6.7	6.7	120.18	-47.0	-58.1	76.6	67.7	8.87	8.629	
2,755.0	2,747.2	2,751.9	2,744.8	7.4	6.8	6.8	119.58	-62.9	-66.4	88.9	79.6	9.30	9.566	
2,850.0	2,840.2	2,846.1	2,837.3	7.6	7.0	7.0	119.13	-78.9	-74.7	101.3	91.6	9.77	10.369	
2,945.0	2,933.1	2,940.3	2,929.8	7.8	7.2	7.2	118.78	-94.8	-83.0	113.7	103.5	10.28	11.063	
3,040.0	3,026.0	3,034.5	3,022.2	8.0	7.4	7.4	118.50	-110.7	-91.3	126.1	115.3	10.81	11.663	
3,135.0	3,118.9	3,128.7	3,114.7	8.2	7.6	7.6	118.26	-126.7	-99.6	138.5	127.2	11.37	12.183	
3,230.0	3,211.8	3,222.9	3,207.1	8.4	7.8	7.8	118.07	-142.6	-108.0	150.9	139.0	11.95	12.633	
3,325.0	3,304.8	3,317.0	3,299.6	8.6	8.1	8.1	117.90	-158.6	-116.3	163.3	150.8	12.54	13.024	
3,420.0	3,397.7	3,411.2	3,392.0	8.9	8.3	8.3	117.76	-174.5	-124.6	175.7	162.6	13.15	13.366	
3,515.0	3,490.6	3,505.4	3,484.5	9.1	8.5	8.5	117.64	-190.4	-132.9	188.1	174.4	13.77	13.665	
3,610.0	3,583.5	3,599.6	3,576.9	9.3	8.8	8.8	117.53	-206.4	-141.2	200.6	186.2	14.40	13.928	
3,705.0	3,676.5	3,693.8	3,669.4	9.6	9.1	9.1	117.44	-222.3	-149.5	213.0	197.9	15.04	14.160	
3,800.0	3,769.4	3,788.0	3,761.8	9.9	9.3	9.3	117.35	-238.2	-157.9	225.4	209.7	15.69	14.366	
3,895.0	3,862.3	3,882.2	3,854.3	10.1	9.6	9.6	117.28	-254.2	-166.2	237.8	221.4	16.34	14.549	
3,990.0	3,955.2	3,976.3	3,946.8	10.4	9.9	9.9	117.21	-270.1	-174.5	250.2	233.2	17.00	14.713	
4,085.0	4,048.1	4,070.5	4,039.2	10.7	10.2	10.2	117.15	-286.0	-182.8	262.6	244.9	17.67	14.860	
4,180.0	4,141.1	4,164.7	4,131.7	11.0	10.5	10.5	117.09	-302.0	-191.1	275.0	256.7	18.34	14.991	
4,275.0	4,234.0	4,258.9	4,224.1	11.3	10.8	10.8	117.04	-317.9	-199.4	287.4	268.4	19.02	15.111	
4,370.0	4,326.9	4,353.1	4,316.6	11.6	11.1	11.1	116.99	-333.9	-207.7	299.8	280.1	19.70	15.219	
4,465.0	4,419.8	4,447.3	4,409.0	11.9	11.4	11.4	116.95	-349.8	-216.1	312.2	291.8	20.39	15.317	
4,560.0	4,512.8	4,541.5	4,501.5	12.2	11.7	11.7	116.91	-365.7	-224.4	324.6	303.6	21.07	15.406	
4,655.0	4,605.7	4,635.6	4,593.9	12.5	12.0	12.0	116.87	-381.7	-232.7	337.1	315.3	21.76	15.488	
4,750.0	4,698.6	4,729.8	4,686.4	12.8	12.3	12.3	116.84	-397.6	-241.0	349.5	327.0	22.46	15.562	
4,845.0	4,791.5	4,824.0	4,778.8	13.1	12.6	12.6	116.81	-413.5	-249.3	361.9	338.7	23.15	15.631	

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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 #704H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12476-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	
4,940.0	4,884.5	4,918.2	4,871.3	13.4	13.0	116.78	-429.5	-257.6	374.3	350.4	23.85	15.694		
5,035.0	4,977.4	5,012.4	4,963.7	13.7	13.3	116.75	-445.4	-266.0	386.7	362.1	24.55	15.753		
5,130.0	5,070.3	5,106.6	5,056.2	14.1	13.6	116.72	-461.4	-274.3	399.1	373.9	25.25	15.807		
5,225.0	5,163.2	5,200.8	5,148.7	14.4	13.9	116.70	-477.3	-282.6	411.5	385.6	25.95	15.857		
5,320.0	5,256.1	5,294.9	5,241.1	14.7	14.3	116.67	-493.2	-290.9	423.9	397.3	26.66	15.903		
5,415.0	5,349.1	5,389.1	5,333.6	15.0	14.6	116.65	-509.2	-299.2	436.3	409.0	27.36	15.946		
5,510.0	5,442.0	5,483.3	5,426.0	15.4	14.9	116.63	-525.1	-307.5	448.7	420.7	28.07	15.987		
5,605.0	5,534.9	5,577.5	5,518.5	15.7	15.3	116.61	-541.0	-315.8	461.2	432.4	28.78	16.024		
5,700.0	5,627.8	5,671.7	5,610.9	16.0	15.6	116.59	-557.0	-324.2	473.6	444.1	29.49	16.060		
5,795.0	5,720.8	5,765.9	5,703.4	16.4	15.9	116.57	-572.9	-332.5	486.0	455.8	30.20	16.093		
5,890.0	5,813.7	5,860.1	5,795.8	16.7	16.3	116.56	-588.9	-340.8	498.4	467.5	30.91	16.124		
5,985.0	5,906.6	5,954.2	5,888.3	17.0	16.6	116.54	-604.8	-349.1	510.8	479.2	31.62	16.153		
6,080.0	5,999.5	6,048.4	5,980.7	17.4	16.9	116.53	-620.7	-357.4	523.2	490.9	32.34	16.180		
6,175.0	6,092.6	6,142.7	6,073.2	17.7	17.3	116.59	-636.7	-365.7	535.2	502.2	33.05	16.195		
6,270.0	6,186.3	6,237.0	6,165.8	18.2	17.6	116.40	-652.6	-374.1	545.9	512.2	33.77	16.168		
6,365.0	6,280.4	6,331.3	6,258.4	18.6	18.0	115.91	-668.6	-382.4	555.3	520.8	34.48	16.103		
6,460.0	6,374.9	6,425.5	6,350.9	19.0	18.3	115.14	-684.5	-390.7	563.4	528.2	35.20	16.007		
6,555.0	6,469.7	6,519.5	6,443.2	19.5	18.7	114.08	-700.4	-399.0	570.3	534.4	35.91	15.883		
6,650.0	6,564.6	6,613.2	6,535.2	19.8	19.0	112.77	-716.3	-407.3	576.3	539.7	36.60	15.746		
6,745.0	6,659.6	6,710.2	6,630.4	20.1	19.3	-79.29	-732.1	-415.6	581.4	544.1	37.29	15.592		
6,840.0	6,754.6	6,810.3	6,729.4	20.4	19.8	-80.72	-745.7	-422.6	585.8	547.9	37.99	15.419		
6,935.0	6,849.6	6,911.3	6,829.7	20.6	20.2	-81.82	-756.3	-428.2	589.5	550.8	38.71	15.228		
7,030.0	6,944.6	7,013.1	6,931.2	20.9	20.7	-82.59	-763.8	-432.1	592.2	552.8	39.41	15.025		
7,125.0	7,039.6	7,115.4	7,033.3	21.2	21.1	-83.03	-768.1	-434.3	593.7	553.7	40.08	14.812		
7,220.0	7,134.6	7,216.6	7,134.5	21.4	21.4	-83.15	-769.2	-434.9	594.1	553.5	40.68	14.606		
7,315.0	7,229.6	7,311.6	7,229.5	21.7	21.7	-83.15	-769.2	-434.9	594.1	552.9	41.23	14.409		
7,410.0	7,324.6	7,406.6	7,324.5	22.0	22.0	-83.15	-769.2	-434.9	594.1	552.3	41.80	14.215		
7,505.0	7,419.6	7,501.6	7,419.5	22.3	22.3	-83.15	-769.2	-434.9	594.1	551.8	42.36	14.025		
7,600.0	7,514.6	7,596.6	7,514.5	22.5	22.5	-83.15	-769.2	-434.9	594.1	551.2	42.93	13.839		
7,695.0	7,609.6	7,691.6	7,609.5	22.8	22.8	-83.15	-769.2	-434.9	594.1	550.6	43.51	13.657		
7,790.0	7,704.6	7,786.6	7,704.5	23.1	23.1	-83.15	-769.2	-434.9	594.1	550.1	44.08	13.478		
7,885.0	7,799.6	7,881.6	7,799.5	23.4	23.4	-83.15	-769.2	-434.9	594.1	549.5	44.66	13.304		
7,980.0	7,894.6	7,976.6	7,894.5	23.7	23.7	-83.15	-769.2	-434.9	594.1	548.9	45.24	13.133		
8,075.0	7,989.6	8,071.6	7,989.5	24.0	23.9	-83.15	-769.2	-434.9	594.1	548.3	45.83	12.965		
8,170.0	8,084.6	8,166.6	8,084.5	24.3	24.2	-83.15	-769.2	-434.9	594.1	547.7	46.41	12.801		
8,265.0	8,179.6	8,261.6	8,179.5	24.5	24.5	-83.15	-769.2	-434.9	594.1	547.1	47.00	12.641		
8,360.0	8,274.6	8,356.6	8,274.5	24.8	24.8	-83.15	-769.2	-434.9	594.1	546.6	47.59	12.484		
8,455.0	8,369.6	8,451.6	8,369.5	25.1	25.1	-83.15	-769.2	-434.9	594.1	546.0	48.19	12.330		
8,550.0	8,464.6	8,546.6	8,464.5	25.4	25.4	-83.15	-769.2	-434.9	594.1	545.4	48.78	12.179		
8,645.0	8,559.6	8,641.6	8,559.5	25.7	25.7	-83.15	-769.2	-434.9	594.1	544.8	49.38	12.031		
8,740.0	8,654.6	8,736.6	8,654.5	26.0	26.0	-83.15	-769.2	-434.9	594.1	544.2	49.98	11.887		
8,835.0	8,749.6	8,831.6	8,749.5	26.3	26.3	-83.15	-769.2	-434.9	594.1	543.6	50.59	11.745		
8,930.0	8,844.6	8,926.6	8,844.5	26.6	26.6	-83.15	-769.2	-434.9	594.1	543.0	51.19	11.606		
9,025.0	8,939.6	9,021.6	8,939.5	26.9	26.9	-83.15	-769.2	-434.9	594.1	542.3	51.80	11.470		
9,120.0	9,034.6	9,116.6	9,034.5	27.2	27.2	-83.15	-769.2	-434.9	594.1	541.7	52.41	11.337		
9,215.0	9,129.6	9,211.6	9,129.5	27.5	27.5	-83.15	-769.2	-434.9	594.1	541.1	53.02	11.207		
9,310.0	9,224.6	9,306.6	9,224.5	27.8	27.8	-83.15	-769.2	-434.9	594.1	540.5	53.63	11.079		
9,405.0	9,319.6	9,401.6	9,319.5	28.1	28.1	-83.15	-769.2	-434.9	594.1	539.9	54.24	10.954		
9,500.0	9,414.6	9,496.6	9,414.5	28.4	28.4	-83.15	-769.2	-434.9	594.1	539.3	54.86	10.831		
9,595.0	9,509.6	9,591.6	9,509.5	28.7	28.7	-83.15	-769.2	-434.9	594.1	538.7	55.47	10.710		
9,690.0	9,604.6	9,686.6	9,604.5	29.0	29.0	-83.15	-769.2	-434.9	594.1	538.1	56.09	10.592		
9,785.0	9,699.6	9,781.6	9,699.5	29.3	29.3	-83.15	-769.2	-434.9	594.1	537.4	56.71	10.477		

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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 #704H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12476-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	
9,880.0	9,794.6	9,876.6	9,794.5	29.6	29.6	-83.15	-769.2	-434.9	594.1	536.8	57.33	10.363		
9,975.0	9,889.6	9,971.6	9,889.5	29.9	29.9	-83.15	-769.2	-434.9	594.1	536.2	57.96	10.252		
10,070.0	9,984.6	10,066.6	9,984.5	30.3	30.2	-83.15	-769.2	-434.9	594.1	535.6	58.58	10.143		
10,165.0	10,079.6	10,161.6	10,079.5	30.6	30.5	-83.15	-769.2	-434.9	594.1	534.9	59.20	10.036		
10,260.0	10,174.6	10,256.6	10,174.5	30.9	30.8	-83.15	-769.2	-434.9	594.1	534.3	59.83	9.930		
10,355.0	10,269.6	10,351.6	10,269.5	31.2	31.1	-83.15	-769.2	-434.9	594.1	533.7	60.46	9.827		
10,450.0	10,364.6	10,446.6	10,364.5	31.5	31.5	-83.15	-769.2	-434.9	594.1	533.1	61.09	9.726		
10,545.0	10,459.6	10,541.6	10,459.5	31.8	31.8	-83.15	-769.2	-434.9	594.1	532.4	61.72	9.627		
10,640.0	10,554.6	10,636.6	10,554.5	32.1	32.1	-83.15	-769.2	-434.9	594.1	531.8	62.35	9.530		
10,735.0	10,649.6	10,731.6	10,649.5	32.4	32.4	-83.15	-769.2	-434.9	594.1	531.2	62.98	9.434		
10,830.0	10,744.6	10,826.6	10,744.5	32.7	32.7	-83.15	-769.2	-434.9	594.1	530.5	63.61	9.340		
10,925.0	10,839.6	10,921.6	10,839.5	33.1	33.0	-83.15	-769.2	-434.9	594.1	529.9	64.24	9.248		
11,020.0	10,934.6	11,016.6	10,934.5	33.4	33.3	-83.15	-769.2	-434.9	594.1	529.3	64.88	9.158		
11,115.0	11,029.6	11,111.6	11,029.5	33.7	33.6	-83.15	-769.2	-434.9	594.1	528.6	65.51	9.069		
11,210.0	11,124.6	11,206.6	11,124.5	34.0	34.0	-83.15	-769.2	-434.9	594.1	528.0	66.15	8.982		
11,305.0	11,219.6	11,301.6	11,219.5	34.3	34.3	-83.15	-769.2	-434.9	594.1	527.4	66.79	8.896		
11,400.0	11,314.6	11,396.6	11,314.5	34.6	34.6	-83.15	-769.2	-434.9	594.1	526.7	67.43	8.812		
11,495.0	11,409.6	11,491.6	11,409.5	35.0	34.9	-83.15	-769.2	-434.9	594.1	526.1	68.07	8.729		
11,590.0	11,504.6	11,586.6	11,504.5	35.3	35.2	-83.15	-769.2	-434.9	594.1	525.4	68.71	8.648		
11,685.0	11,599.6	11,681.6	11,599.5	35.6	35.5	-83.15	-769.2	-434.9	594.1	524.8	69.35	8.568		
11,780.0	11,694.6	11,776.6	11,694.5	35.9	35.9	-83.15	-769.2	-434.9	594.1	524.2	69.99	8.489		
11,875.0	11,789.6	11,871.6	11,789.5	36.2	36.2	-83.15	-769.2	-434.9	594.1	523.5	70.63	8.412		
11,970.0	11,884.6	11,966.6	11,884.5	36.6	36.5	-83.15	-769.2	-434.9	594.1	522.9	71.27	8.336		
12,065.0	11,979.6	12,061.6	11,979.5	36.9	36.8	-83.15	-769.2	-434.9	594.1	522.2	71.92	8.262		
12,160.0	12,074.6	12,156.6	12,074.5	37.2	37.1	-83.15	-769.2	-434.9	594.1	521.6	72.56	8.188		
12,164.3	12,078.9	12,160.9	12,078.8	37.2	37.2	97.31	-769.2	-434.9	594.1	521.6	72.58	8.186		
12,255.0	12,169.6	12,251.6	12,169.5	37.4	37.5	97.33	-769.2	-434.9	594.2	521.1	73.08	8.130		
12,350.0	12,263.6	12,345.6	12,263.5	37.4	37.8	98.31	-769.2	-434.9	595.9	522.5	73.37	8.122		
12,445.0	12,353.3	12,435.3	12,353.2	37.5	38.1	100.42	-769.2	-434.9	601.3	527.7	73.61	8.169		
12,540.0	12,435.1	12,530.4	12,448.2	37.5	38.3	103.40	-772.3	-435.1	612.2	538.4	73.71	8.305		
12,635.0	12,505.8	12,648.2	12,562.3	37.6	38.3	106.63	-799.9	-437.2	627.3	553.6	73.63	8.519		
12,730.0	12,562.6	12,787.3	12,683.6	37.7	38.4	109.49	-867.0	-442.3	644.4	571.0	73.39	8.779		
12,825.0	12,603.2	12,951.6	12,794.5	37.7	38.5	111.49	-986.7	-451.3	660.4	587.5	72.94	9.054		
12,920.0	12,626.2	13,136.8	12,862.9	37.8	38.6	111.77	-1,157.1	-464.1	672.1	599.4	72.73	9.242		
13,015.0	12,630.6	13,294.6	12,869.7	37.9	38.7	110.58	-1,314.0	-475.3	678.5	605.4	73.16	9.275		
13,110.0	12,628.0	13,416.7	12,867.0	37.9	38.9	110.48	-1,436.0	-479.3	682.4	608.8	73.61	9.271		
13,205.0	12,625.4	13,524.5	12,864.6	38.0	39.1	110.51	-1,543.8	-479.1	683.0	609.0	73.99	9.230		
13,300.0	12,622.8	13,619.5	12,862.5	38.1	39.2	110.55	-1,638.8	-478.3	683.2	608.8	74.34	9.189		
13,395.0	12,620.2	13,714.5	12,860.3	38.2	39.4	110.59	-1,733.7	-477.5	683.4	608.6	74.72	9.145		
13,490.0	12,617.5	13,809.5	12,858.2	38.3	39.6	110.63	-1,828.7	-476.8	683.5	608.4	75.13	9.098		
13,585.0	12,614.9	13,904.5	12,856.1	38.5	39.8	110.67	-1,923.7	-476.0	683.7	608.2	75.56	9.049		
13,680.0	12,612.3	13,999.5	12,854.0	38.7	40.0	110.71	-2,018.6	-475.3	683.9	607.9	76.01	8.997		
13,775.0	12,609.7	14,094.5	12,851.9	38.9	40.3	110.75	-2,113.6	-474.5	684.1	607.6	76.49	8.943		
13,870.0	12,607.0	14,189.5	12,849.8	39.1	40.5	110.79	-2,208.6	-473.7	684.3	607.3	77.00	8.887		
13,965.0	12,604.4	14,284.5	12,847.6	39.4	40.8	110.83	-2,303.6	-473.0	684.4	606.9	77.53	8.829		
14,060.0	12,601.8	14,379.5	12,845.5	39.6	41.1	110.87	-2,398.5	-472.2	684.6	606.6	78.08	8.768		
14,155.0	12,599.2	14,474.5	12,843.4	39.9	41.3	110.91	-2,493.5	-471.5	684.8	606.2	78.65	8.707		
14,250.0	12,596.6	14,569.5	12,841.3	40.2	41.6	110.95	-2,588.5	-470.7	685.0	605.7	79.25	8.643		
14,345.0	12,593.9	14,664.5	12,839.2	40.5	42.0	110.99	-2,683.5	-469.9	685.2	605.3	79.87	8.579		
14,440.0	12,591.3	14,759.5	12,837.1	40.8	42.3	111.03	-2,778.4	-469.2	685.4	604.9	80.51	8.513		
14,535.0	12,588.7	14,854.5	12,834.9	41.2	42.6	111.06	-2,873.4	-468.4	685.5	604.4	81.17	8.446		
14,630.0	12,586.1	14,949.5	12,832.8	41.5	42.9	111.10	-2,968.4	-467.7	685.7	603.9	81.85	8.377		

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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 #704H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12476-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	12,583.4	15,044.5	12,830.7	41.8	43.3	111.14	-3,063.3	-466.9	685.9	603.4	82.56	8.309		
14,820.0	12,580.8	15,139.5	12,828.6	42.2	43.7	111.18	-3,158.3	-466.1	686.1	602.8	83.28	8.239		
14,915.0	12,578.2	15,234.5	12,826.5	42.6	44.0	111.22	-3,253.3	-465.4	686.3	602.3	84.02	8.168		
15,010.0	12,575.6	15,329.5	12,824.4	43.0	44.4	111.26	-3,348.3	-464.6	686.5	601.7	84.78	8.098		
15,105.0	12,573.0	15,424.5	12,822.2	43.3	44.8	111.30	-3,443.2	-463.9	686.7	601.1	85.55	8.026		
15,200.0	12,570.3	15,519.5	12,820.1	43.7	45.2	111.34	-3,538.2	-463.1	686.8	600.5	86.34	7.955		
15,295.0	12,567.7	15,614.5	12,818.0	44.2	45.6	111.38	-3,633.2	-462.3	687.0	599.9	87.16	7.883		
15,390.0	12,565.1	15,709.5	12,815.9	44.6	46.0	111.42	-3,728.1	-461.6	687.2	599.2	87.98	7.811		
15,485.0	12,562.5	15,804.5	12,813.8	45.0	46.4	111.46	-3,823.1	-460.8	687.4	598.6	88.83	7.739		
15,580.0	12,559.8	15,899.5	12,811.7	45.4	46.9	111.50	-3,918.1	-460.1	687.6	597.9	89.69	7.667		
15,675.0	12,557.2	15,994.5	12,809.5	45.9	47.3	111.54	-4,013.1	-459.3	687.8	597.2	90.56	7.595		
15,770.0	12,554.6	16,089.5	12,807.4	46.3	47.7	111.57	-4,108.0	-458.5	688.0	596.5	91.45	7.523		
15,865.0	12,552.0	16,184.5	12,805.3	46.8	48.2	111.61	-4,203.0	-457.8	688.2	595.8	92.35	7.451		
15,960.0	12,549.4	16,279.5	12,803.2	47.2	48.6	111.65	-4,298.0	-457.0	688.4	595.1	93.27	7.380		
16,055.0	12,546.7	16,374.5	12,801.1	47.7	49.1	111.69	-4,392.9	-456.3	688.5	594.3	94.20	7.309		
16,150.0	12,544.1	16,469.5	12,798.9	48.2	49.6	111.73	-4,487.9	-455.5	688.7	593.6	95.14	7.239		
16,245.0	12,541.5	16,564.5	12,796.8	48.7	50.0	111.77	-4,582.9	-454.7	688.9	592.8	96.10	7.169		
16,340.0	12,538.9	16,659.5	12,794.7	49.1	50.5	111.81	-4,677.9	-454.0	689.1	592.0	97.07	7.099		
16,435.0	12,536.2	16,754.5	12,792.6	49.6	51.0	111.85	-4,772.8	-453.2	689.3	591.2	98.05	7.030		
16,530.0	12,533.6	16,849.5	12,790.5	50.1	51.5	111.89	-4,867.8	-452.5	689.5	590.4	99.04	6.962		
16,625.0	12,531.0	16,944.5	12,788.4	50.6	52.0	111.93	-4,962.8	-451.7	689.7	589.6	100.05	6.894		
16,720.0	12,528.4	17,039.5	12,786.2	51.1	52.5	111.96	-5,057.8	-450.9	689.9	588.8	101.06	6.826		
16,815.0	12,525.8	17,134.5	12,784.1	51.7	53.0	112.00	-5,152.7	-450.2	690.1	588.0	102.09	6.760		
16,910.0	12,523.1	17,229.5	12,782.0	52.2	53.5	112.04	-5,247.7	-449.4	690.3	587.1	103.12	6.694		
17,005.0	12,520.5	17,324.5	12,779.9	52.7	54.0	112.08	-5,342.7	-448.7	690.5	586.3	104.17	6.628		
17,100.0	12,517.9	17,419.5	12,777.8	53.2	54.6	112.12	-5,437.6	-447.9	690.6	585.4	105.22	6.564		
17,195.0	12,515.3	17,514.5	12,775.7	53.8	55.1	112.16	-5,532.6	-447.1	690.8	584.6	106.29	6.500		
17,290.0	12,512.6	17,609.5	12,773.5	54.3	55.6	112.20	-5,627.6	-446.4	691.0	583.7	107.36	6.437		
17,385.0	12,510.0	17,704.5	12,771.4	54.8	56.1	112.24	-5,722.6	-445.6	691.2	582.8	108.44	6.374		
17,480.0	12,507.4	17,799.5	12,769.3	55.4	56.7	112.27	-5,817.5	-444.9	691.4	581.9	109.53	6.312		
17,575.0	12,504.8	17,894.5	12,767.2	55.9	57.2	112.31	-5,912.5	-444.1	691.6	581.0	110.63	6.251		
17,670.0	12,502.2	17,989.5	12,765.1	56.5	57.8	112.35	-6,007.5	-443.3	691.8	580.1	111.74	6.191		
17,765.0	12,499.5	18,084.5	12,763.0	57.1	58.3	112.39	-6,102.4	-442.6	692.0	579.1	112.86	6.132		
17,860.0	12,496.9	18,179.5	12,760.8	57.6	58.9	112.43	-6,197.4	-441.8	692.2	578.2	113.98	6.073		
17,955.0	12,494.3	18,274.5	12,758.7	58.2	59.4	112.47	-6,292.4	-441.1	692.4	577.3	115.11	6.015		
18,050.0	12,491.7	18,369.5	12,756.6	58.8	60.0	112.51	-6,387.4	-440.3	692.6	576.3	116.25	5.958		
18,145.0	12,489.0	18,464.5	12,754.5	59.3	60.6	112.54	-6,482.3	-439.5	692.8	575.4	117.39	5.901		
18,240.0	12,486.4	18,559.5	12,752.4	59.9	61.1	112.58	-6,577.3	-438.8	693.0	574.4	118.54	5.846		
18,335.0	12,483.8	18,654.5	12,750.3	60.5	61.7	112.62	-6,672.3	-438.0	693.2	573.5	119.70	5.791		
18,430.0	12,481.2	18,749.5	12,748.1	61.1	62.3	112.66	-6,767.2	-437.3	693.4	572.5	120.87	5.737		
18,525.0	12,478.6	18,844.5	12,746.0	61.7	62.9	112.70	-6,862.2	-436.5	693.6	571.5	122.04	5.683		
18,620.0	12,475.9	18,939.5	12,743.9	62.2	63.4	112.74	-6,957.2	-435.7	693.8	570.6	123.21	5.631		
18,715.0	12,473.3	19,034.5	12,741.8	62.8	64.0	112.77	-7,052.2	-435.0	694.0	569.6	124.40	5.579		
18,810.0	12,470.7	19,129.5	12,739.7	63.4	64.6	112.81	-7,147.1	-434.2	694.2	568.6	125.58	5.528		
18,905.0	12,468.1	19,224.5	12,737.6	64.0	65.2	112.85	-7,242.1	-433.5	694.4	567.6	126.78	5.477		
19,000.0	12,465.4	19,319.5	12,735.4	64.6	65.8	112.89	-7,337.1	-432.7	694.6	566.6	127.98	5.427		
19,095.0	12,462.8	19,414.5	12,733.3	65.2	66.4	112.93	-7,432.1	-431.9	694.8	565.6	129.18	5.378		
19,190.0	12,460.2	19,509.5	12,731.2	65.8	67.0	112.97	-7,527.0	-431.2	695.0	564.6	130.39	5.330		
19,285.0	12,457.6	19,604.5	12,729.1	66.4	67.6	113.00	-7,622.0	-430.4	695.2	563.6	131.61	5.282		
19,380.0	12,455.0	19,699.5	12,727.0	67.0	68.2	113.04	-7,717.0	-429.7	695.4	562.5	132.82	5.235		
19,475.0	12,452.3	19,794.5	12,724.9	67.7	68.8	113.08	-7,811.9	-428.9	695.6	561.5	134.05	5.189		
19,570.0	12,449.7	19,889.5	12,722.7	68.3	69.4	113.12	-7,906.9	-428.1	695.8	560.5	135.28	5.143		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 #704H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12476-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		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	
19,665.0	12,447.1	19,984.4	12,720.6	68.9	70.0	113.16	-8,001.9	-427.4	696.0	559.5	136.51	5.098		
19,760.0	12,444.5	20,079.4	12,718.5	69.5	70.6	113.20	-8,096.9	-426.6	696.2	558.4	137.75	5.054		
19,855.0	12,441.8	20,174.4	12,716.4	70.1	71.2	113.23	-8,191.8	-425.9	696.4	557.4	138.99	5.010		
19,950.0	12,439.2	20,269.4	12,714.3	70.7	71.9	113.27	-8,286.8	-425.1	696.6	556.3	140.24	4.967		
20,045.0	12,436.6	20,364.4	12,712.2	71.4	72.5	113.31	-8,381.8	-424.3	696.8	555.3	141.49	4.925		
20,140.0	12,434.0	20,459.4	12,710.0	72.0	73.1	113.35	-8,476.7	-423.6	697.0	554.2	142.74	4.883		
20,235.0	12,431.4	20,554.4	12,707.9	72.6	73.7	113.39	-8,571.7	-422.8	697.2	553.2	144.00	4.842		
20,284.0	12,430.0	20,595.7	12,707.0	72.9	74.0	113.40	-8,612.9	-422.5	697.3	552.8	144.55	4.824		

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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 #603H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 11951-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	4.5	4.5	3.0	4.2	-168.75	-757.1	-150.6	771.9				
95.0	95.0	91.3	91.3	3.0	4.2	-168.73	-757.6	-150.9	772.5	765.2	7.24	106.658	
190.0	190.0	189.7	189.7	3.0	4.2	-168.71	-758.3	-151.4	773.3	766.1	7.25	106.668	
285.0	285.0	283.3	283.3	3.0	4.3	-168.67	-758.9	-152.0	774.0	766.7	7.26	106.553	
380.0	380.0	375.5	375.5	3.0	4.3	-168.65	-759.9	-152.6	775.1	767.8	7.29	106.373	
475.0	475.0	470.1	470.1	3.0	4.3	-168.65	-761.0	-152.8	776.2	768.9	7.32	106.067	
570.0	570.0	559.2	559.1	3.1	4.3	-168.67	-762.4	-152.8	777.7	770.3	7.36	105.716	
665.0	665.0	651.1	651.0	3.1	4.3	-168.74	-764.8	-152.2	780.0	772.6	7.40	105.374	
760.0	760.0	762.4	762.2	3.1	4.3	-168.95	-767.0	-149.8	781.5	774.0	7.45	104.837	
855.0	855.0	876.2	876.0	3.2	4.3	-169.13	-766.3	-147.2	780.5	773.0	7.49	104.156	
950.0	950.0	976.4	976.2	3.2	4.3	-169.23	-764.1	-145.4	778.1	770.6	7.53	103.311	
1,045.0	1,045.0	1,070.7	1,070.4	3.3	4.3	-169.30	-761.7	-144.0	775.4	767.8	7.58	102.325	
1,140.0	1,140.0	1,156.9	1,156.6	3.3	4.3	-169.42	-760.4	-142.1	773.6	766.0	7.63	101.326	
1,235.0	1,235.0	1,288.7	1,288.2	3.4	4.4	-169.82	-756.1	-135.8	769.7	762.0	7.69	100.118	
1,330.0	1,330.0	1,383.7	1,382.8	3.4	4.4	-170.21	-751.1	-129.6	763.7	755.9	7.76	98.458	
1,425.0	1,425.0	1,476.4	1,475.2	3.5	4.4	-170.59	-746.4	-123.8	757.9	750.1	7.83	96.769	
1,520.0	1,520.0	1,570.6	1,569.1	3.6	4.4	-170.96	-741.7	-118.0	752.3	744.4	7.91	95.075	
1,615.0	1,615.0	1,666.1	1,664.3	3.6	4.4	-171.34	-736.9	-112.2	746.7	738.7	8.00	93.357	
1,710.0	1,710.0	1,758.1	1,756.1	3.7	4.5	-171.71	-732.3	-106.7	741.2	733.1	8.09	91.608	
1,805.0	1,805.0	1,852.4	1,850.1	3.8	4.5	-172.06	-727.8	-101.5	735.9	727.8	8.19	89.893	
1,900.0	1,900.0	1,947.3	1,944.8	3.9	4.5	-172.41	-723.3	-96.3	730.8	722.5	8.29	88.178	
1,995.0	1,995.0	2,046.3	2,043.5	3.9	4.6	-172.80	-718.4	-90.8	725.4	717.0	8.39	86.427	
2,090.0	2,090.0	2,141.2	2,138.1	4.1	4.6	-173.31	-713.4	-84.8	718.3	709.7	8.63	83.221	
2,185.0	2,184.9	2,236.7	2,233.2	4.7	4.7	-174.01	-708.2	-78.5	708.2	698.9	9.25	76.556	
2,280.0	2,279.6	2,330.6	2,326.8	5.3	4.7	-174.78	-703.2	-71.8	695.1	685.2	9.87	70.399	
2,375.0	2,373.9	2,423.8	2,419.6	5.9	4.7	-175.63	-698.2	-65.3	678.9	668.5	10.45	64.946	
2,470.0	2,467.9	2,516.8	2,512.2	6.4	4.8	-176.55	-693.3	-58.7	660.0	649.0	11.00	59.977	
2,565.0	2,561.3	2,610.7	2,605.7	6.9	4.9	-177.51	-688.3	-51.5	637.9	626.3	11.53	55.321	
2,660.0	2,654.3	2,702.3	2,696.9	7.2	4.9	-178.44	-683.3	-44.4	613.4	601.4	11.91	51.479	
2,755.0	2,747.2	2,789.5	2,783.7	7.4	5.0	-179.32	-678.6	-37.6	588.7	576.6	12.16	48.408	
2,850.0	2,840.2	2,875.3	2,869.2	7.6	5.0	-180.24	-675.3	-31.4	565.6	553.2	12.37	45.715	
2,945.0	2,933.1	2,967.7	2,961.3	7.8	5.1	-181.12	-672.0	-24.6	542.6	530.0	12.59	43.098	
3,040.0	3,026.0	3,060.8	3,054.1	8.0	5.1	-182.01	-668.6	-16.8	519.5	506.6	12.82	40.522	
3,135.0	3,118.9	3,153.6	3,146.4	8.2	5.2	-182.91	-665.1	-8.8	496.3	483.2	13.06	37.995	
3,230.0	3,211.8	3,245.4	3,237.9	8.4	5.3	-183.81	-661.5	-2.4	473.0	459.7	13.32	35.518	
3,325.0	3,304.8	3,339.6	3,331.8	8.6	5.4	-184.71	-657.5	3.9	449.6	436.0	13.58	33.100	
3,420.0	3,397.7	3,432.5	3,424.4	8.9	5.4	-185.61	-653.3	10.5	425.8	411.9	13.86	30.725	
3,515.0	3,490.6	3,528.8	3,520.3	9.1	5.5	-186.51	-648.2	16.5	401.3	387.2	14.14	28.389	
3,610.0	3,583.5	3,621.9	3,613.1	9.3	5.6	-187.41	-642.6	22.0	376.3	361.9	14.43	26.075	
3,705.0	3,676.5	3,709.2	3,700.2	9.6	5.6	-188.31	-637.8	26.0	351.8	337.0	14.76	23.836	
3,800.0	3,769.4	3,800.7	3,791.6	9.9	5.7	-189.21	-633.1	29.3	327.7	312.6	15.08	21.729	
3,895.0	3,862.3	3,891.0	3,881.7	10.1	5.8	-190.11	-628.8	32.6	304.0	288.5	15.42	19.711	
3,990.0	3,955.2	3,981.5	3,972.1	10.4	5.9	-191.01	-625.0	35.7	280.8	265.0	15.77	17.807	
4,085.0	4,048.1	4,071.7	4,062.1	10.7	5.9	-191.91	-621.8	38.5	258.3	242.1	16.13	16.015	
4,180.0	4,141.1	4,163.4	4,153.8	11.0	6.0	-192.81	-619.0	41.5	236.2	219.7	16.48	14.329	
4,275.0	4,234.0	4,255.2	4,245.5	11.3	6.1	-193.71	-616.2	44.2	214.3	197.5	16.85	12.716	
4,370.0	4,326.9	4,345.5	4,335.7	11.6	6.2	-194.61	-614.2	45.9	193.4	176.1	17.25	11.207	
4,465.0	4,419.8	4,436.8	4,427.0	11.9	6.3	-195.51	-612.8	46.7	173.4	155.7	17.67	9.815	
4,560.0	4,512.8	4,529.9	4,520.1	12.2	6.3	-196.41	-611.7	47.4	154.0	135.9	18.08	8.519	
4,655.0	4,605.7	4,622.5	4,612.7	12.5	6.4	-197.31	-610.2	47.3	134.9	116.4	18.51	7.288	
4,750.0	4,698.6	4,715.3	4,705.4	12.8	6.5	-198.21	-608.6	47.2	116.5	97.6	18.94	6.151	
4,845.0	4,791.5	4,807.7	4,797.9	13.1	6.5	-199.11	-607.8	48.8	99.1	79.7	19.35	5.119	

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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 #603H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 11951-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
4,940.0	4,884.5	4,900.8	4,890.9	13.4	6.6	46.68	-607.7	51.7	82.8	63.1	19.71	4.202	
5,035.0	4,977.4	4,993.6	4,983.6	13.7	6.7	56.63	-607.6	54.6	68.4	48.4	20.00	3.420	
5,130.0	5,070.3	5,086.1	5,076.2	14.1	6.8	72.68	-606.5	55.8	58.0	38.0	20.03	2.895	
5,225.0	5,163.2	5,179.5	5,169.5	14.4	6.9	93.35	-605.3	57.2	53.6	33.9	19.74	2.718 SF	
5,249.0	5,186.7	5,203.3	5,193.3	14.5	6.9	98.67	-605.2	57.9	53.5	33.8	19.66	2.719 CC, ES	
5,320.0	5,256.1	5,273.2	5,263.2	14.7	7.0	113.46	-605.5	60.5	54.9	35.4	19.55	2.810	
5,415.0	5,349.1	5,364.2	5,354.1	15.0	7.0	129.31	-606.2	62.5	63.3	43.6	19.69	3.214	
5,510.0	5,442.0	5,456.7	5,446.6	15.4	7.0	140.17	-606.6	62.1	77.5	57.4	20.05	3.864	
5,605.0	5,534.9	5,550.0	5,539.9	15.7	7.0	147.21	-607.3	61.2	93.7	73.2	20.51	4.569	
5,700.0	5,627.8	5,643.1	5,633.0	16.0	7.0	151.64	-608.9	59.8	110.5	89.5	20.97	5.271	
5,795.0	5,720.8	5,734.6	5,724.5	16.4	7.0	154.86	-610.0	58.2	128.3	107.0	21.39	6.001	
5,890.0	5,813.7	5,824.8	5,814.7	16.7	7.0	158.49	-607.7	58.1	148.6	126.8	21.81	6.812	
5,985.0	5,906.6	5,917.0	5,906.8	17.0	7.1	161.67	-604.6	58.7	169.6	147.3	22.27	7.616	
6,080.0	5,999.5	6,008.7	5,998.5	17.4	7.2	164.12	-601.4	59.2	191.3	168.5	22.72	8.420	
6,175.0	6,092.6	6,101.5	6,091.2	17.7	7.2	166.01	-598.2	59.3	212.4	189.2	23.18	9.162	
6,270.0	6,186.3	6,193.8	6,183.4	18.2	7.3	167.42	-595.0	59.5	230.8	207.2	23.69	9.744	
6,365.0	6,280.4	6,286.5	6,276.0	18.6	7.4	168.46	-591.4	59.5	246.8	222.6	24.21	10.194	
6,460.0	6,374.9	6,385.4	6,374.9	19.0	7.4	169.10	-588.1	58.9	259.4	234.6	24.78	10.469	
6,555.0	6,469.7	6,481.4	6,470.8	19.5	7.5	169.30	-587.2	58.0	267.0	241.7	25.28	10.561	
6,650.0	6,564.6	6,576.0	6,565.5	19.8	7.5	169.31	-586.1	56.9	271.8	246.1	25.69	10.579	
6,745.0	6,659.6	6,671.8	6,661.2	20.1	7.5	-21.29	-585.2	55.7	273.6	247.5	26.04	10.507	
6,840.0	6,754.6	6,765.6	6,755.1	20.4	7.6	-21.41	-584.3	54.7	274.8	248.5	26.36	10.424	
6,935.0	6,849.6	6,860.1	6,849.5	20.6	7.6	-21.54	-582.9	53.5	276.6	249.9	26.69	10.365	
7,030.0	6,944.6	6,955.3	6,944.7	20.9	7.7	-21.72	-581.6	52.0	278.3	251.3	27.02	10.303	
7,125.0	7,039.6	7,050.0	7,039.4	21.2	7.7	-21.85	-580.4	50.8	279.9	252.5	27.35	10.234	
7,220.0	7,134.6	7,144.2	7,133.6	21.4	7.8	-21.97	-579.0	49.7	281.6	253.9	27.68	10.174	
7,315.0	7,229.6	7,239.1	7,228.5	21.7	7.8	-22.06	-577.5	48.6	283.5	255.4	28.02	10.117	
7,410.0	7,324.6	7,335.1	7,324.4	22.0	7.9	-22.18	-576.0	47.4	285.2	256.9	28.37	10.053	
7,505.0	7,419.6	7,430.2	7,419.5	22.3	7.9	-22.29	-574.5	46.1	287.1	258.4	28.72	9.994	
7,600.0	7,514.6	7,525.0	7,514.3	22.5	8.0	-22.37	-573.2	45.2	288.6	259.5	29.07	9.927	
7,695.0	7,609.6	7,621.2	7,610.5	22.8	8.1	-22.48	-572.0	44.0	290.2	260.7	29.44	9.857	
7,790.0	7,704.6	7,715.0	7,704.2	23.1	8.1	-22.55	-570.8	43.2	291.6	261.9	29.79	9.791	
7,885.0	7,799.6	7,810.8	7,800.1	23.4	8.2	-22.69	-569.6	41.9	293.2	263.1	30.15	9.725	
7,980.0	7,894.6	7,905.7	7,895.0	23.7	8.3	-22.79	-568.5	40.9	294.6	264.1	30.51	9.654	
8,075.0	7,989.6	8,000.4	7,989.6	24.0	8.3	-22.90	-567.3	39.8	296.2	265.3	30.87	9.594	
8,170.0	8,084.6	8,095.7	8,084.9	24.3	8.4	-23.06	-566.4	38.5	297.5	266.3	31.24	9.526	
8,265.0	8,179.6	8,190.6	8,179.8	24.5	8.4	-23.25	-565.3	36.9	299.1	267.5	31.59	9.467	
8,360.0	8,274.6	8,291.4	8,280.6	24.8	8.4	-23.49	-565.6	35.7	299.3	267.3	31.98	9.360	
8,455.0	8,369.6	8,386.9	8,376.0	25.1	8.4	-23.74	-566.6	34.7	298.8	266.5	32.29	9.253	
8,550.0	8,464.6	8,482.0	8,471.2	25.4	8.4	-23.94	-567.6	34.0	298.2	265.6	32.60	9.145	
8,645.0	8,559.6	8,578.2	8,567.3	25.7	8.4	-24.15	-568.7	33.3	297.4	264.5	32.93	9.034	
8,740.0	8,654.6	8,672.4	8,661.5	26.0	8.4	-24.36	-569.9	32.7	296.6	263.4	33.23	8.927	
8,835.0	8,749.6	8,768.3	8,757.4	26.3	8.4	-24.58	-571.0	31.9	295.9	262.4	33.56	8.819	
8,930.0	8,844.6	8,862.6	8,851.7	26.6	8.4	-24.77	-572.3	31.4	295.0	261.1	33.86	8.711	
9,025.0	8,939.6	8,956.5	8,945.6	26.9	8.4	-24.98	-573.1	30.6	294.5	260.3	34.18	8.617	
9,120.0	9,034.6	9,052.6	9,041.7	27.2	8.4	-25.24	-574.3	29.7	293.9	259.4	34.51	8.514	
9,215.0	9,129.6	9,146.0	9,135.1	27.5	8.4	-25.41	-575.0	29.1	293.5	258.6	34.83	8.425	
9,310.0	9,224.6	9,241.8	9,230.9	27.8	8.5	-25.63	-575.8	28.2	293.2	258.0	35.17	8.335	
9,405.0	9,319.6	9,336.3	9,325.4	28.1	8.5	-25.85	-576.5	27.3	292.9	257.4	35.51	8.249	
9,500.0	9,414.6	9,431.1	9,420.2	28.4	8.5	-26.08	-577.3	26.4	292.6	256.8	35.85	8.164	
9,595.0	9,509.6	9,527.0	9,516.1	28.7	8.5	-26.33	-578.3	25.4	292.2	256.0	36.19	8.073	
9,690.0	9,604.6	9,620.9	9,609.9	29.0	8.5	-26.60	-579.1	24.3	291.9	255.3	36.52	7.991	

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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 #603H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 11951-MWD+IFR1+FDIR								Rule Assigned:				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,785.0	9,699.6	9,716.9	9,705.9	29.3	8.6	-26.94	-580.2	22.9	291.5	254.7	36.87	7.907	
9,880.0	9,794.6	9,815.9	9,804.9	29.6	8.6	-27.10	-581.9	22.9	290.1	252.8	37.24	7.789	
9,975.0	9,889.6	9,910.5	9,899.5	29.9	8.6	-27.20	-583.6	23.2	288.4	250.9	37.57	7.678	
10,052.8	9,967.3	9,983.2	9,972.2	30.2	8.6	-27.31	-584.6	23.1	287.5	249.7	37.80	7.607	
10,070.0	9,984.6	10,000.0	9,989.0	30.3	8.6	-27.32	-584.6	23.0	287.6	249.7	37.86	7.595	
10,165.0	10,079.6	10,092.3	10,081.2	30.6	8.7	-27.49	-584.3	21.9	288.4	250.2	38.21	7.547	
10,260.0	10,174.6	10,185.3	10,174.2	30.9	8.7	-27.66	-583.6	20.6	289.6	251.0	38.57	7.508	
10,355.0	10,269.6	10,278.7	10,267.6	31.2	8.8	-27.74	-582.0	19.3	291.7	252.8	38.95	7.489	
10,450.0	10,364.6	10,374.9	10,363.8	31.5	8.9	-27.90	-580.5	17.6	293.8	254.4	39.34	7.467	
10,545.0	10,459.6	10,473.6	10,462.5	31.8	9.0	-28.20	-580.2	15.6	294.9	255.2	39.75	7.421	
10,640.0	10,554.6	10,570.1	10,559.0	32.1	9.0	-28.51	-580.7	14.1	295.2	255.0	40.12	7.357	
10,735.0	10,649.6	10,665.0	10,653.9	32.4	9.0	-28.85	-581.4	12.5	295.4	254.9	40.48	7.297	
10,830.0	10,744.6	10,757.9	10,746.7	32.7	9.1	-29.08	-581.6	11.2	295.9	255.0	40.83	7.245	
10,925.0	10,839.6	10,848.8	10,837.7	33.1	9.2	-29.09	-580.2	10.4	297.5	256.3	41.20	7.221	
11,020.0	10,934.6	10,946.4	10,935.3	33.4	9.3	-29.13	-578.6	9.3	299.4	257.8	41.61	7.195	
11,115.0	11,029.6	11,041.1	11,029.9	33.7	9.3	-28.99	-576.8	9.2	301.0	259.0	42.01	7.164	
11,210.0	11,124.6	11,136.7	11,125.5	34.0	9.4	-28.77	-575.0	9.4	302.5	260.1	42.42	7.131	
11,305.0	11,219.6	11,229.4	11,218.2	34.3	9.5	-28.40	-572.6	10.4	304.1	261.3	42.80	7.105	
11,400.0	11,314.6	11,328.9	11,317.7	34.6	9.6	-28.17	-570.7	10.7	305.6	262.4	43.24	7.068	
11,495.0	11,409.6	11,423.8	11,412.6	35.0	9.7	-28.07	-570.0	11.0	306.1	262.5	43.64	7.015	
11,590.0	11,504.6	11,519.0	11,507.8	35.3	9.8	-27.91	-569.1	11.5	306.6	262.6	44.03	6.963	
11,685.0	11,599.6	11,616.9	11,605.6	35.6	9.9	-27.82	-568.7	11.8	306.9	262.4	44.44	6.905	
11,780.0	11,694.6	11,714.6	11,703.3	35.9	9.9	-28.04	-570.0	11.2	306.0	261.2	44.81	6.830	
11,875.0	11,789.6	11,811.7	11,800.4	36.2	9.9	-28.39	-572.2	10.2	304.6	259.4	45.17	6.743	
11,970.0	11,884.6	11,904.3	11,892.9	36.6	9.9	-29.13	-575.6	7.6	302.9	257.4	45.49	6.658	
12,025.2	11,939.8	11,956.2	11,944.7	36.7	10.0	-29.72	-577.4	5.0	302.5	256.9	45.64	6.628	
12,065.0	11,979.6	11,994.4	11,982.8	36.9	10.0	-30.20	-578.6	2.8	302.6	256.8	45.78	6.611	
12,160.0	12,074.6	12,091.1	12,079.4	37.2	10.1	-31.31	-581.3	-2.4	302.9	256.9	46.08	6.574	
12,167.5	12,082.1	12,098.7	12,086.9	37.2	10.1	149.08	-581.5	-2.7	302.9	256.9	46.09	6.572	
12,255.0	12,169.6	12,185.0	12,173.2	37.4	10.1	148.53	-583.1	-5.2	303.1	256.8	46.27	6.550	
12,350.0	12,263.6	12,233.0	12,221.0	37.4	10.1	148.41	-580.0	-4.4	319.6	273.1	46.50	6.873	
12,445.0	12,353.3	12,280.0	12,266.7	37.5	10.1	148.12	-569.7	-1.6	362.9	315.6	47.31	7.670	
12,540.0	12,435.1	12,306.0	12,290.9	37.5	10.1	144.47	-560.5	0.6	429.2	380.8	48.35	8.876	
12,635.0	12,505.8	12,327.0	12,309.6	37.6	10.2	135.45	-551.2	2.6	510.9	461.9	49.05	10.416	
12,730.0	12,562.6	12,327.0	12,309.6	37.7	10.2	107.84	-551.2	2.6	600.4	550.8	49.63	12.098	
12,825.0	12,603.2	12,327.0	12,309.6	37.7	10.2	62.95	-551.2	2.6	692.6	642.8	49.85	13.894	
12,920.0	12,626.2	12,327.0	12,309.6	37.8	10.2	34.62	-551.2	2.6	783.6	733.8	49.81	15.732	
13,015.0	12,630.6	12,308.7	12,293.3	37.9	10.2	22.67	-559.4	0.8	870.0	820.2	49.76	17.483	
13,110.0	12,628.0	12,300.1	12,285.5	37.9	10.1	22.35	-562.8	0.0	955.4	905.9	49.58	19.269	

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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 #703H - OWB - AWP													Offset Site Error: 3.0 usft
Survey Program: 100-Standard Keeper 104, 12241-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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	5.6	5.6	3.0	4.2	-170.95	-756.8	-120.6	766.3				
95.0	95.0	106.8	106.8	3.0	4.2	-170.88	-756.1	-121.4	765.9	758.6	7.24	105.741	
190.0	190.0	204.3	204.3	3.0	4.2	-170.75	-754.9	-123.0	764.9	757.7	7.25	105.533	
262.0	262.0	267.2	267.2	3.0	4.2	-170.73	-754.5	-123.1	764.5	757.2	7.26	105.333	
285.0	285.0	289.2	289.1	3.0	4.2	-170.76	-754.6	-122.7	764.5	757.2	7.26	105.289	
380.0	380.0	379.4	379.3	3.0	4.2	-170.87	-755.2	-121.4	764.9	757.7	7.28	105.117	
475.0	475.0	472.2	472.1	3.0	4.3	-170.87	-756.2	-121.5	765.9	758.6	7.30	104.932	
570.0	570.0	566.3	566.3	3.1	4.3	-170.86	-757.3	-121.9	767.1	759.8	7.33	104.649	
665.0	665.0	660.2	660.1	3.1	4.3	-170.84	-758.4	-122.2	768.3	760.9	7.37	104.256	
760.0	760.0	756.3	756.2	3.1	4.3	-170.83	-759.6	-122.6	769.5	762.0	7.42	103.744	
855.0	855.0	851.8	851.8	3.2	4.3	-170.82	-760.6	-122.9	770.5	763.1	7.47	103.118	
950.0	950.0	947.0	946.9	3.2	4.3	-170.82	-761.7	-123.1	771.6	764.1	7.54	102.392	
1,045.0	1,045.0	1,041.4	1,041.3	3.3	4.3	-170.82	-762.8	-123.3	772.8	765.2	7.61	101.590	
1,140.0	1,140.0	1,133.1	1,133.0	3.3	4.4	-170.82	-764.1	-123.4	774.1	766.4	7.68	100.744	
1,235.0	1,235.0	1,226.3	1,226.2	3.4	4.4	-170.84	-765.8	-123.5	775.9	768.1	7.77	99.878	
1,330.0	1,330.0	1,331.8	1,331.7	3.4	4.4	-170.89	-767.5	-123.0	777.3	769.4	7.86	98.884	
1,425.0	1,425.0	1,429.2	1,429.0	3.5	4.5	-171.08	-768.1	-120.6	777.6	769.6	7.94	97.936	
1,520.0	1,520.0	1,523.2	1,523.0	3.6	4.5	-171.27	-768.8	-118.1	777.8	769.8	8.02	96.965	
1,615.0	1,615.0	1,616.1	1,615.9	3.6	4.5	-171.41	-769.3	-116.3	778.0	769.9	8.11	95.935	
1,710.0	1,710.0	1,711.3	1,711.1	3.7	4.5	-171.40	-769.8	-116.4	778.6	770.3	8.22	94.721	
1,805.0	1,805.0	1,805.0	1,804.7	3.8	4.6	-171.38	-770.3	-116.7	779.1	770.8	8.33	93.495	
1,900.0	1,900.0	1,900.8	1,900.6	3.9	4.6	-171.36	-770.9	-117.2	779.8	771.4	8.45	92.259	
1,995.0	1,995.0	1,996.6	1,996.4	3.9	4.7	-171.32	-771.3	-117.7	780.3	771.7	8.57	91.024	
2,090.0	2,090.0	2,091.3	2,091.1	4.1	4.7	19.20	-771.8	-118.1	779.5	770.7	8.82	88.355	
2,185.0	2,184.9	2,194.9	2,194.7	4.7	4.7	19.39	-771.7	-118.7	775.1	765.7	9.43	82.190	
2,280.0	2,279.6	2,292.2	2,291.9	5.3	4.7	19.67	-770.9	-119.1	767.2	757.2	10.02	76.582	
2,375.0	2,373.9	2,385.3	2,385.1	5.9	4.7	20.06	-770.1	-119.4	756.2	745.7	10.56	71.588	
2,470.0	2,467.9	2,479.4	2,479.1	6.4	4.7	20.56	-769.3	-119.7	742.4	731.3	11.08	67.013	
2,565.0	2,561.3	2,572.2	2,571.9	6.9	4.7	21.17	-768.4	-119.8	725.5	714.0	11.57	62.711	
2,660.0	2,654.3	2,666.0	2,665.8	7.2	4.7	21.83	-767.6	-120.0	706.5	694.6	11.92	59.275	
2,755.0	2,747.2	2,760.3	2,760.1	7.4	4.7	22.46	-766.6	-120.0	687.2	675.1	12.13	56.676	
2,850.0	2,840.2	2,854.9	2,854.6	7.6	4.7	23.10	-765.5	-119.5	667.8	655.5	12.30	54.309	
2,945.0	2,933.1	2,950.2	2,949.9	7.8	4.8	23.72	-764.3	-118.3	648.2	635.7	12.48	51.915	
3,040.0	3,026.0	3,044.3	3,043.9	8.0	4.8	24.30	-762.9	-116.3	628.3	615.6	12.69	49.509	
3,135.0	3,118.9	3,139.6	3,139.2	8.2	4.8	24.90	-761.3	-113.9	608.1	595.2	12.91	47.109	
3,230.0	3,211.8	3,226.9	3,226.4	8.4	4.8	25.47	-759.8	-111.6	588.1	574.9	13.15	44.724	
3,325.0	3,304.8	3,317.5	3,317.1	8.6	4.8	26.10	-759.2	-109.4	569.0	555.6	13.40	42.466	
3,420.0	3,397.7	3,412.3	3,411.8	8.9	4.9	26.80	-758.4	-106.9	549.8	536.1	13.65	40.268	
3,515.0	3,490.6	3,509.5	3,509.0	9.1	4.9	27.45	-757.3	-103.3	530.2	516.2	13.92	38.098	
3,610.0	3,583.5	3,593.6	3,593.0	9.3	4.9	28.02	-756.4	-99.8	510.6	496.4	14.21	35.945	
3,705.0	3,676.5	3,680.6	3,680.0	9.6	5.0	28.64	-757.5	-96.7	493.2	478.7	14.50	34.011	
3,800.0	3,769.4	3,771.8	3,771.0	9.9	5.0	29.34	-758.8	-93.6	476.2	461.4	14.80	32.171	
3,895.0	3,862.3	3,852.7	3,851.9	10.1	5.1	30.15	-761.2	-92.4	461.0	445.9	15.12	30.489	
3,990.0	3,955.2	3,942.6	3,941.7	10.4	5.1	31.03	-765.4	-91.2	447.6	432.2	15.44	28.991	
4,085.0	4,048.1	4,035.9	4,034.8	10.7	5.2	31.93	-770.3	-89.5	434.7	418.9	15.76	27.582	
4,180.0	4,141.1	4,142.1	4,141.0	11.0	5.2	33.36	-773.0	-89.1	420.0	403.9	16.06	26.145	
4,275.0	4,234.0	4,234.8	4,233.7	11.3	5.3	34.92	-774.0	-89.8	404.8	388.4	16.39	24.699	
4,370.0	4,326.9	4,327.6	4,326.5	11.6	5.3	36.68	-774.8	-91.1	389.9	373.2	16.71	23.329	
4,465.0	4,419.8	4,421.3	4,420.2	11.9	5.3	38.66	-775.5	-92.7	375.5	358.4	17.04	22.039	
4,560.0	4,512.8	4,524.1	4,522.9	12.2	5.4	41.03	-774.3	-93.6	359.6	342.3	17.32	20.766	
4,655.0	4,605.7	4,620.0	4,618.8	12.5	5.4	43.55	-771.8	-94.2	343.0	325.4	17.61	19.480	
4,750.0	4,698.6	4,714.5	4,713.3	12.8	5.4	46.12	-769.2	-93.6	326.3	308.4	17.90	18.224	

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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 #703H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12241-MWD+IFR1+FDIR								Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,845.0	4,791.5	4,807.6	4,806.3	13.1	5.4	48.46	-767.8	-90.8	309.9	291.7	18.21	17.015		
4,940.0	4,884.5	4,899.7	4,898.4	13.4	5.5	50.73	-767.4	-86.8	294.1	275.6	18.53	15.870		
5,035.0	4,977.4	4,990.1	4,988.6	13.7	5.5	53.15	-767.6	-83.2	279.4	260.6	18.86	14.815		
5,130.0	5,070.3	5,078.1	5,076.6	14.1	5.6	55.72	-768.9	-80.6	266.8	247.6	19.20	13.898		
5,225.0	5,163.2	5,172.7	5,171.1	14.4	5.6	58.53	-771.2	-77.5	255.2	235.7	19.51	13.084		
5,320.0	5,256.1	5,266.9	5,265.1	14.7	5.7	61.18	-774.5	-72.8	243.8	224.0	19.83	12.299		
5,415.0	5,349.1	5,359.7	5,357.9	15.0	5.8	64.67	-775.8	-69.8	233.0	212.9	20.13	11.575		
5,510.0	5,442.0	5,451.9	5,450.0	15.4	5.8	68.90	-775.7	-68.2	223.6	203.2	20.43	10.945		
5,605.0	5,534.9	5,544.3	5,542.4	15.7	5.9	73.48	-775.7	-66.9	216.0	195.2	20.73	10.419		
5,700.0	5,627.8	5,637.0	5,635.2	16.0	6.0	78.35	-775.9	-65.7	210.1	189.0	21.03	9.988		
5,795.0	5,720.8	5,730.2	5,728.3	16.4	6.0	83.46	-776.2	-64.6	205.8	184.5	21.34	9.646		
5,890.0	5,813.7	5,823.2	5,821.3	16.7	6.1	88.79	-776.2	-63.5	203.3	181.7	21.66	9.388		
5,985.0	5,906.6	5,920.8	5,918.9	17.0	6.1	94.91	-774.5	-61.0	201.3	179.3	21.99	9.153		
6,051.6	5,971.8	5,985.6	5,983.6	17.3	6.2	99.16	-772.8	-58.9	200.7	178.4	22.23	9.025		
6,080.0	5,999.5	6,013.8	6,011.8	17.4	6.2	101.02	-772.0	-57.9	200.7	178.4	22.34	8.986		
6,175.0	6,092.6	6,109.0	6,106.8	17.7	6.3	107.19	-769.0	-53.5	201.2	178.5	22.71	8.857		
6,270.0	6,186.3	6,201.9	6,199.6	18.2	6.3	112.47	-765.8	-49.1	202.6	179.5	23.10	8.771		
6,365.0	6,280.4	6,296.2	6,293.8	18.6	6.4	116.96	-762.5	-44.4	204.2	180.7	23.50	8.688		
6,460.0	6,374.9	6,394.2	6,391.5	19.0	6.5	120.47	-760.5	-38.5	204.0	180.1	23.94	8.522		
6,555.0	6,469.7	6,488.4	6,485.5	19.5	6.5	122.91	-759.4	-32.4	202.2	177.8	24.36	8.299		
6,650.0	6,564.6	6,585.2	6,582.2	19.8	6.6	124.67	-758.3	-26.2	198.9	174.1	24.78	8.028		
6,745.0	6,659.6	6,682.6	6,679.2	20.1	6.7	-64.62	-757.9	-18.3	192.3	167.1	25.17	7.642		
6,840.0	6,754.6	6,777.8	6,774.1	20.4	6.8	-63.48	-757.7	-10.1	185.1	159.6	25.53	7.251		
6,935.0	6,849.6	6,871.3	6,867.2	20.6	6.9	-62.25	-757.4	-2.2	178.1	152.2	25.88	6.879		
7,030.0	6,944.6	6,966.2	6,961.8	20.9	6.9	-60.86	-756.8	5.6	171.4	145.2	26.25	6.530		
7,125.0	7,039.6	7,061.0	7,056.2	21.2	7.0	-59.33	-756.3	13.6	164.8	138.1	26.62	6.188		
7,220.0	7,134.6	7,155.9	7,150.8	21.4	7.1	-57.67	-755.7	21.6	158.2	131.2	27.00	5.861		
7,315.0	7,229.6	7,253.2	7,247.7	21.7	7.2	-55.96	-755.0	30.5	150.8	123.4	27.40	5.505		
7,410.0	7,324.6	7,347.7	7,341.7	22.0	7.3	-54.20	-756.9	39.7	142.7	114.9	27.78	5.136		
7,505.0	7,419.6	7,441.8	7,435.5	22.3	7.4	-52.30	-757.8	48.5	135.0	106.8	28.16	4.793		
7,600.0	7,514.6	7,536.0	7,529.2	22.5	7.5	-50.32	-758.8	57.0	127.7	99.2	28.54	4.475		
7,695.0	7,609.6	7,630.6	7,623.5	22.8	7.6	-48.18	-759.7	65.1	120.9	92.0	28.93	4.179		
7,790.0	7,704.6	7,725.1	7,717.6	23.1	7.7	-45.84	-760.8	73.3	114.1	84.8	29.32	3.891		
7,885.0	7,799.6	7,819.3	7,811.5	23.4	7.7	-43.66	-762.2	80.6	107.9	78.2	29.70	3.632		
7,980.0	7,894.6	7,914.0	7,906.0	23.7	7.8	-41.35	-763.6	87.7	102.0	71.9	30.10	3.390		
8,075.0	7,989.6	8,008.6	8,000.3	24.0	7.9	-38.96	-765.2	94.4	96.5	66.0	30.49	3.164		
8,170.0	8,084.6	8,102.6	8,094.1	24.3	8.0	-36.42	-766.6	100.8	91.4	60.6	30.87	2.963		
8,265.0	8,179.6	8,197.1	8,188.3	24.5	8.1	-33.09	-767.0	107.3	87.4	56.1	31.25	2.795		
8,360.0	8,274.6	8,291.3	8,282.4	24.8	8.2	-29.75	-767.2	113.3	84.0	52.4	31.63	2.657		
8,455.0	8,369.6	8,386.1	8,377.0	25.1	8.3	-26.68	-767.4	118.5	81.4	49.4	32.02	2.543		
8,550.0	8,464.6	8,481.1	8,471.9	25.4	8.4	-23.70	-768.0	123.3	78.8	46.4	32.41	2.431		
8,645.0	8,559.6	8,575.9	8,566.5	25.7	8.5	-20.96	-768.9	127.7	76.3	43.5	32.79	2.327		
8,740.0	8,654.6	8,670.8	8,661.4	26.0	8.6	-18.36	-769.7	131.6	74.2	41.0	33.17	2.237		
8,835.0	8,749.6	8,765.6	8,756.2	26.3	8.7	-15.95	-770.5	135.1	72.4	38.8	33.55	2.157		
8,930.0	8,844.6	8,860.2	8,850.5	26.6	8.8	-12.06	-770.7	140.2	71.0	37.0	33.91	2.092		
9,025.0	8,939.6	8,954.8	8,945.0	26.9	8.9	-7.53	-770.4	145.8	70.3	36.0	34.29	2.051		
9,058.1	8,972.7	8,987.8	8,977.9	27.0	9.0	-6.08	-770.2	147.6	70.3	35.8	34.42	2.041 CC, ES		
9,120.0	9,034.6	9,049.0	9,039.0	27.2	9.0	-2.58	-769.5	151.8	70.7	36.0	34.66	2.039 SF		
9,215.0	9,129.6	9,143.6	9,133.3	27.5	9.1	2.76	-768.1	158.5	72.1	37.1	35.05	2.058		
9,310.0	9,224.6	9,238.1	9,227.7	27.8	9.2	6.67	-766.1	163.6	74.5	39.1	35.43	2.103		
9,405.0	9,319.6	9,332.2	9,321.6	28.1	9.3	10.73	-763.7	169.5	77.9	42.1	35.81	2.174		
9,500.0	9,414.6	9,427.6	9,416.7	28.4	9.4	14.33	-761.0	175.2	81.7	45.5	36.24	2.255		

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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 #703H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12241-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)			
9,595.0	9,509.6	9,522.7	9,511.7	28.7	9.5	17.37	-758.7	180.5	85.4	48.7	36.66	2.329	
9,690.0	9,604.6	9,617.9	9,606.7	29.0	9.6	20.18	-757.0	185.6	88.6	51.6	37.08	2.391	
9,785.0	9,699.6	9,713.6	9,702.3	29.3	9.7	22.97	-755.8	190.7	91.6	54.1	37.52	2.442	
9,880.0	9,794.6	9,808.6	9,797.0	29.6	9.8	27.18	-756.3	198.0	94.3	56.3	37.96	2.483	
9,975.0	9,889.6	9,904.5	9,892.7	29.9	9.9	31.05	-757.3	204.9	96.7	58.3	38.43	2.517	
10,070.0	9,984.6	9,999.4	9,987.5	30.3	10.0	33.68	-757.8	209.8	98.9	60.0	38.85	2.545	
10,165.0	10,079.6	10,092.9	10,080.8	30.6	10.1	35.73	-757.4	214.5	102.0	62.8	39.25	2.599	
10,260.0	10,174.6	10,187.0	10,174.8	30.9	10.2	37.78	-756.5	219.8	105.9	66.3	39.66	2.671	
10,355.0	10,269.6	10,281.8	10,269.3	31.2	10.3	40.11	-755.6	226.2	110.6	70.5	40.10	2.758	
10,450.0	10,364.6	10,376.3	10,363.6	31.5	10.4	42.60	-755.1	233.2	115.7	75.1	40.54	2.853	
10,545.0	10,459.6	10,472.0	10,459.0	31.8	10.6	45.21	-755.4	240.4	120.4	79.4	41.00	2.937	
10,640.0	10,554.6	10,568.2	10,555.0	32.1	10.7	47.29	-755.8	246.4	124.4	83.0	41.46	3.001	
10,735.0	10,649.6	10,660.8	10,647.4	32.4	10.8	48.74	-755.2	251.8	129.0	87.1	41.86	3.082	
10,830.0	10,744.6	10,755.8	10,742.2	32.7	10.9	49.98	-753.8	257.8	134.5	92.2	42.30	3.180	
10,925.0	10,839.6	10,848.7	10,835.0	33.1	11.0	50.97	-751.9	263.9	140.5	97.8	42.71	3.289	
11,020.0	10,934.6	10,945.0	10,930.9	33.4	11.1	52.16	-750.2	270.7	146.8	103.7	43.17	3.402	
11,115.0	11,029.6	11,041.2	11,027.0	33.7	11.2	53.07	-749.0	276.3	151.9	108.3	43.62	3.483	
11,210.0	11,124.6	11,135.7	11,121.4	34.0	11.3	53.99	-748.0	281.7	156.8	112.8	44.05	3.560	
11,305.0	11,219.6	11,232.7	11,218.2	34.3	11.4	55.00	-747.6	287.1	161.4	116.9	44.51	3.627	
11,400.0	11,314.6	11,324.0	11,309.4	34.6	11.5	55.86	-747.0	292.2	166.1	121.2	44.91	3.699	
11,495.0	11,409.6	11,421.9	11,407.0	35.0	11.6	56.70	-746.0	298.3	171.6	126.2	45.37	3.782	
11,590.0	11,504.6	11,518.8	11,503.9	35.3	11.7	56.80	-744.4	301.2	174.9	129.0	45.82	3.816	
11,685.0	11,599.6	11,610.7	11,595.7	35.6	11.8	57.01	-743.0	304.6	178.6	132.3	46.22	3.863	
11,780.0	11,694.6	11,703.3	11,688.1	35.9	12.0	57.64	-741.9	310.1	184.0	137.3	46.64	3.944	
11,875.0	11,789.6	11,799.7	11,784.3	36.2	12.1	58.67	-741.5	317.0	189.9	142.8	47.10	4.032	
11,970.0	11,884.6	11,892.0	11,876.4	36.6	12.2	59.55	-741.0	323.6	196.0	148.5	47.52	4.124	
12,065.0	11,979.6	11,991.8	11,975.9	36.9	12.3	60.27	-740.4	329.6	201.2	153.2	48.00	4.192	
12,160.0	12,074.6	12,084.0	12,068.0	37.2	12.4	60.81	-739.8	334.5	206.0	157.6	48.42	4.254	
12,255.0	12,169.6	12,181.8	12,165.7	37.4	12.5	-117.97	-739.7	340.3	211.0	162.3	48.75	4.329	
12,350.0	12,263.6	12,277.8	12,261.5	37.4	12.6	-119.13	-740.5	344.8	220.6	171.8	48.83	4.519	
12,445.0	12,353.3	12,368.5	12,352.1	37.5	12.6	-122.79	-741.4	348.7	240.1	191.4	48.76	4.926	
12,540.0	12,435.1	12,432.0	12,415.5	37.5	12.6	-124.96	-740.5	352.5	275.5	227.0	48.56	5.674	
12,635.0	12,505.8	12,467.0	12,450.3	37.6	12.6	-122.32	-738.4	355.8	330.7	282.1	48.65	6.798	
12,730.0	12,562.6	12,491.8	12,474.7	37.7	12.7	-114.31	-735.5	359.4	402.8	354.0	48.80	8.255	
12,825.0	12,603.2	12,514.0	12,495.8	37.7	12.7	-99.92	-731.3	364.4	486.2	437.5	48.73	9.977	
12,920.0	12,626.2	12,514.0	12,495.8	37.8	12.7	-74.15	-731.3	364.4	573.2	524.5	48.72	11.766	
13,015.0	12,630.6	12,514.0	12,495.8	37.9	12.7	-53.29	-731.3	364.4	660.7	612.2	48.50	13.622	
13,110.0	12,628.0	12,493.6	12,476.4	37.9	12.7	-49.41	-735.2	359.8	747.7	699.3	48.45	15.431	
13,205.0	12,625.4	12,489.5	12,472.4	38.0	12.7	-48.67	-735.8	359.0	836.9	788.6	48.30	17.328	
13,300.0	12,622.8	12,485.9	12,468.9	38.1	12.7	-48.04	-736.3	358.4	927.2	879.0	48.18	19.244	

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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 #704H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12139-MWD+IFR1+FDIR												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
0.0	0.0	7.6	7.6	3.0	4.2	-166.58	-757.2	-180.6	778.4				
95.0	95.0	120.8	120.8	3.0	4.2	-166.58	-755.5	-180.3	777.0	769.7	7.24	107.299	
190.0	190.0	238.4	238.3	3.0	4.2	-166.54	-751.3	-179.8	773.7	766.4	7.24	106.830	
285.0	285.0	309.3	309.1	3.0	4.3	-166.44	-747.8	-180.4	769.5	762.2	7.27	105.910	
318.6	318.6	325.0	324.8	3.0	4.3	-166.42	-747.5	-180.6	769.0	761.8	7.27	105.744	
380.0	380.0	364.6	364.4	3.0	4.3	-166.39	-748.0	-181.1	769.9	762.7	7.28	105.771	
475.0	475.0	466.7	466.5	3.0	4.3	-166.41	-751.4	-181.7	773.2	765.9	7.30	105.926	
570.0	570.0	585.3	585.0	3.1	4.3	-166.62	-752.0	-178.9	773.1	765.7	7.33	105.466	
665.0	665.0	690.2	689.8	3.1	4.3	-166.63	-750.3	-178.3	771.4	764.1	7.37	104.697	
760.0	760.0	781.1	780.8	3.1	4.3	-166.52	-747.9	-179.2	769.2	761.7	7.41	103.737	
849.9	849.9	856.5	856.1	3.2	4.3	-166.42	-747.1	-180.4	768.5	761.1	7.46	103.031	
855.0	855.0	861.2	860.9	3.2	4.3	-166.42	-747.0	-180.5	768.5	761.1	7.46	102.997	
950.0	950.0	950.0	949.6	3.2	4.3	-166.27	-746.9	-182.4	768.9	761.4	7.51	102.373	
1,045.0	1,045.0	1,040.0	1,039.5	3.3	4.3	-166.09	-747.3	-185.1	770.0	762.4	7.56	101.824	
1,140.0	1,140.0	1,126.5	1,126.0	3.3	4.3	-165.95	-748.5	-187.4	771.9	764.3	7.62	101.350	
1,235.0	1,235.0	1,200.0	1,199.4	3.4	4.3	-165.77	-750.5	-190.4	775.4	767.7	7.67	101.126	
1,330.0	1,330.0	1,289.3	1,288.4	3.4	4.4	-165.34	-754.3	-197.3	781.2	773.4	7.73	101.049	
1,425.0	1,425.0	1,393.6	1,392.4	3.5	4.4	-164.94	-758.4	-204.0	786.3	778.5	7.81	100.705	
1,520.0	1,520.0	1,490.3	1,488.9	3.6	4.4	-164.65	-761.9	-209.1	790.9	783.0	7.89	100.287	
1,615.0	1,615.0	1,585.9	1,584.3	3.6	4.4	-164.38	-765.2	-214.0	795.4	787.4	7.97	99.796	
1,710.0	1,710.0	1,686.8	1,685.0	3.7	4.5	-164.06	-768.3	-219.4	799.6	791.5	8.06	99.191	
1,805.0	1,805.0	1,781.1	1,779.1	3.8	4.5	-163.68	-770.3	-225.5	803.2	795.1	8.15	98.529	
1,900.0	1,900.0	1,875.0	1,872.8	3.9	4.5	-163.31	-772.3	-231.5	807.0	798.7	8.25	97.841	
1,995.0	1,995.0	1,958.8	1,956.3	3.9	4.6	-162.97	-774.6	-237.3	811.3	803.0	8.34	97.268	
2,090.0	2,090.0	2,045.6	2,042.8	4.1	4.6	27.87	-778.2	-244.1	816.1	807.5	8.56	95.338	
2,185.0	2,184.9	2,140.3	2,137.1	4.7	4.7	28.42	-782.2	-251.6	818.2	809.0	9.15	89.371	
2,280.0	2,279.6	2,236.0	2,232.4	5.3	4.7	29.10	-786.3	-259.2	817.7	807.9	9.76	83.817	
2,375.0	2,373.9	2,338.2	2,334.2	5.9	4.8	29.99	-790.4	-267.4	814.3	804.0	10.32	78.898	
2,470.0	2,467.9	2,437.9	2,433.6	6.4	4.8	31.04	-792.9	-275.1	807.0	796.2	10.85	74.373	
2,565.0	2,561.3	2,531.6	2,527.0	6.9	4.9	32.20	-795.2	-282.4	797.3	785.9	11.35	70.225	
2,660.0	2,654.3	2,625.8	2,620.9	7.2	4.9	33.43	-797.5	-289.6	785.6	773.9	11.72	67.035	
2,755.0	2,747.2	2,717.1	2,711.9	7.4	5.0	34.62	-799.8	-296.4	774.1	762.1	11.95	64.763	
2,850.0	2,840.2	2,811.2	2,805.7	7.6	5.1	35.85	-802.1	-303.2	762.9	750.7	12.15	62.764	
2,945.0	2,933.1	2,906.3	2,900.6	7.8	5.1	37.12	-804.5	-309.9	751.9	739.5	12.37	60.765	
3,040.0	3,026.0	2,994.1	2,988.1	8.0	5.2	38.34	-806.6	-316.2	741.3	728.7	12.60	58.809	
3,135.0	3,118.9	3,085.1	3,078.8	8.2	5.2	39.69	-809.1	-323.7	731.8	719.0	12.85	56.947	
3,230.0	3,211.8	3,178.2	3,171.5	8.4	5.3	41.10	-811.5	-331.2	722.6	709.5	13.11	55.113	
3,325.0	3,304.8	3,265.8	3,258.8	8.6	5.4	42.44	-814.1	-338.2	714.1	700.7	13.38	53.356	
3,420.0	3,397.7	3,354.7	3,347.3	8.9	5.5	43.85	-817.4	-345.9	707.0	693.3	13.67	51.723	
3,515.0	3,490.6	3,449.4	3,441.6	9.1	5.5	45.38	-820.9	-354.3	700.5	686.5	13.97	50.149	
3,610.0	3,583.5	3,549.5	3,541.3	9.3	5.6	46.99	-824.2	-362.4	693.6	679.4	14.28	48.571	
3,705.0	3,676.5	3,648.5	3,640.0	9.6	5.7	48.59	-826.9	-369.4	686.4	671.8	14.60	47.004	
3,800.0	3,769.4	3,739.7	3,731.0	9.9	5.8	50.07	-829.3	-375.5	679.4	664.4	14.93	45.497	
3,895.0	3,862.3	3,825.3	3,816.2	10.1	5.8	51.49	-832.3	-381.8	673.8	658.5	15.27	44.133	
3,990.0	3,955.2	3,919.8	3,910.4	10.4	5.9	53.06	-835.8	-388.8	668.9	653.3	15.62	42.835	
4,085.0	4,048.1	4,012.9	4,003.3	10.7	6.0	54.61	-839.3	-395.5	664.5	648.5	15.97	41.604	
4,180.0	4,141.1	4,092.9	4,082.9	11.0	6.1	55.99	-842.8	-402.1	661.6	645.3	16.32	40.529	
4,275.0	4,234.0	4,184.8	4,174.3	11.3	6.2	57.59	-847.2	-410.4	660.2	643.5	16.69	39.554	
4,370.0	4,326.9	4,276.8	4,265.8	11.6	6.3	59.19	-851.8	-418.8	659.5	642.4	17.06	38.649	
4,419.8	4,375.6	4,324.6	4,313.3	11.7	6.3	60.02	-854.3	-423.1	659.3	642.1	17.26	38.201	
4,465.0	4,419.8	4,367.8	4,356.3	11.9	6.3	60.74	-856.8	-426.9	659.4	642.0	17.44	37.812	
4,560.0	4,512.8	4,461.1	4,449.1	12.2	6.4	62.24	-862.9	-434.7	660.1	642.2	17.83	37.029	

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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 #704H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12139-MWD+IFR1+FDIR								Rule Assigned:				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,655.0	4,605.7	4,557.4	4,544.8	12.5	6.5	63.71	-869.7	-442.1	661.0	642.8	18.22	36.278	
4,750.0	4,698.6	4,668.3	4,655.2	12.8	6.6	65.36	-877.0	-449.2	661.1	642.5	18.63	35.481	
4,845.0	4,791.5	4,779.1	4,765.8	13.1	6.7	67.02	-882.6	-453.7	659.0	640.0	19.04	34.607	
4,940.0	4,884.5	4,877.1	4,863.7	13.4	6.8	68.56	-886.1	-456.9	655.9	636.4	19.45	33.730	
5,035.0	4,977.4	4,974.3	4,960.9	13.7	6.9	70.12	-889.2	-459.7	652.7	632.9	19.85	32.884	
5,130.0	5,070.3	5,064.7	5,051.2	14.1	7.0	71.73	-890.3	-463.0	649.8	629.6	20.25	32.093	
5,225.0	5,163.2	5,167.3	5,153.7	14.4	7.1	73.62	-891.0	-466.4	647.0	626.3	20.65	31.327	
5,320.0	5,256.1	5,267.2	5,253.6	14.7	7.2	75.34	-892.5	-467.8	643.4	622.3	21.06	30.556	
5,415.0	5,349.1	5,360.8	5,347.2	15.0	7.3	76.93	-894.0	-468.4	639.8	618.3	21.45	29.829	
5,510.0	5,442.0	5,453.3	5,439.7	15.4	7.3	78.54	-895.3	-469.2	636.8	615.0	21.85	29.150	
5,605.0	5,534.9	5,544.7	5,531.0	15.7	7.4	80.12	-896.9	-470.0	634.4	612.2	22.24	28.531	
5,700.0	5,627.8	5,638.0	5,624.3	16.0	7.5	81.71	-898.8	-470.7	632.7	610.1	22.62	27.966	
5,795.0	5,720.8	5,729.9	5,716.1	16.4	7.6	83.34	-900.2	-471.7	631.5	608.5	23.01	27.441	
5,837.3	5,762.2	5,768.6	5,754.9	16.5	7.6	84.10	-900.1	-472.5	631.3	608.2	23.19	27.230 CC	
5,890.0	5,813.7	5,819.4	5,805.6	16.7	7.7	85.11	-899.7	-473.8	631.5	608.1	23.40	26.984 ES	
5,985.0	5,906.6	5,911.6	5,897.8	17.0	7.8	86.96	-899.1	-476.1	632.2	608.5	23.79	26.576	
6,080.0	5,999.5	6,006.5	5,992.7	17.4	7.8	88.85	-898.3	-478.4	633.7	609.5	24.18	26.202	
6,175.0	6,092.6	6,098.4	6,084.6	17.7	7.9	90.64	-897.5	-480.5	635.6	611.1	24.57	25.867	
6,270.0	6,186.3	6,191.0	6,177.1	18.2	8.0	92.15	-897.1	-482.8	638.3	613.3	24.97	25.562	
6,365.0	6,280.4	6,286.6	6,272.8	18.6	8.1	93.42	-896.8	-485.0	641.1	615.7	25.37	25.267	
6,460.0	6,374.9	6,380.2	6,366.3	19.0	8.2	94.38	-896.4	-487.2	643.9	618.1	25.78	24.981	
6,555.0	6,469.7	6,474.5	6,460.6	19.5	8.3	95.07	-896.0	-489.5	646.7	620.6	26.18	24.704	
6,650.0	6,564.6	6,569.5	6,555.6	19.8	8.4	95.50	-895.3	-491.7	649.2	622.6	26.57	24.432	
6,745.0	6,659.6	6,663.3	6,649.3	20.1	8.5	-94.82	-894.8	-494.0	651.5	624.6	26.95	24.172	
6,840.0	6,754.6	6,760.1	6,746.1	20.4	8.6	-94.75	-894.2	-496.4	653.8	626.5	27.34	23.915	
6,935.0	6,849.6	6,853.9	6,839.8	20.6	8.7	-94.69	-893.7	-498.6	655.9	628.2	27.72	23.666	
7,030.0	6,944.6	6,949.2	6,935.2	20.9	8.8	-94.63	-893.2	-500.9	658.2	630.1	28.10	23.422	
7,125.0	7,039.6	7,045.0	7,030.8	21.2	8.9	-94.57	-892.7	-503.2	660.4	632.0	28.49	23.181	
7,220.0	7,134.6	7,140.7	7,126.6	21.4	9.0	-94.51	-892.2	-505.4	662.6	633.7	28.88	22.943	
7,315.0	7,229.6	7,234.3	7,220.1	21.7	9.1	-94.44	-891.6	-507.6	664.8	635.5	29.27	22.714	
7,410.0	7,324.6	7,328.7	7,328.7	22.0	9.2	-94.38	-890.9	-508.7	665.6	635.9	29.66	22.442	
7,505.0	7,419.6	7,437.3	7,423.1	22.3	9.2	-94.33	-890.4	-509.0	665.9	635.9	30.02	22.184	
7,600.0	7,514.6	7,533.0	7,518.9	22.5	9.3	-94.28	-889.8	-509.4	666.2	635.8	30.38	21.930	
7,695.0	7,609.6	7,627.4	7,613.2	22.8	9.3	-94.22	-889.2	-509.8	666.6	635.8	30.74	21.682	
7,790.0	7,704.6	7,723.0	7,708.8	23.1	9.4	-94.18	-888.7	-510.1	666.8	635.7	31.11	21.436	
7,885.0	7,799.6	7,817.0	7,802.8	23.4	9.5	-94.13	-888.1	-510.4	667.2	635.7	31.48	21.195	
7,980.0	7,894.6	7,912.1	7,897.9	23.7	9.5	-94.08	-887.6	-510.9	667.6	635.7	31.86	20.956	
8,075.0	7,989.6	8,007.0	7,992.8	24.0	9.6	-94.03	-887.0	-511.3	668.0	635.7	32.23	20.725	
8,170.0	8,084.6	8,100.1	8,085.9	24.3	9.7	-93.98	-886.5	-511.9	668.5	635.9	32.62	20.497	
8,265.0	8,179.6	8,195.8	8,181.6	24.5	9.8	-93.94	-886.1	-512.6	669.2	636.2	33.02	20.268	
8,360.0	8,274.6	8,285.6	8,271.4	24.8	9.9	-93.92	-885.9	-513.6	670.2	636.8	33.41	20.058	
8,455.0	8,369.6	8,382.9	8,368.7	25.1	10.0	-93.93	-886.1	-514.9	671.5	637.7	33.83	19.847	
8,550.0	8,464.6	8,485.0	8,470.8	25.4	10.1	-93.99	-886.8	-515.1	671.7	637.5	34.21	19.635	
8,550.2	8,464.8	8,485.2	8,471.0	25.4	10.1	-93.99	-886.8	-515.1	671.7	637.5	34.21	19.635	
8,645.0	8,559.6	8,579.9	8,565.7	25.7	10.1	-94.07	-887.8	-515.1	671.8	637.2	34.56	19.437	
8,740.0	8,654.6	8,675.4	8,661.2	26.0	10.2	-94.16	-888.8	-515.0	671.7	636.8	34.91	19.244	
8,835.0	8,749.6	8,771.0	8,756.8	26.3	10.2	-94.25	-889.8	-514.8	671.6	636.4	35.25	19.054	
8,930.0	8,844.6	8,869.2	8,854.9	26.6	10.2	-94.35	-891.0	-514.3	671.3	635.7	35.58	18.865	
9,025.0	8,939.6	8,965.0	8,950.7	26.9	10.2	-94.46	-892.2	-513.5	670.6	634.7	35.90	18.678	
9,120.0	9,034.6	9,060.3	9,046.0	27.2	10.3	-94.56	-893.4	-512.8	669.9	633.7	36.22	18.494	
9,215.0	9,129.6	9,154.6	9,140.3	27.5	10.3	-94.68	-894.7	-512.0	669.2	632.7	36.55	18.312	
9,310.0	9,224.6	9,251.2	9,236.9	27.8	10.3	-94.78	-895.8	-511.0	668.4	631.5	36.86	18.131	

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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 #704H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12139-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)			
9,405.0	9,319.6	9,345.4	9,331.1	28.1	10.3	-94.89	-897.0	-510.0	667.5	630.3	37.18	17.952	
9,500.0	9,414.6	9,442.9	9,428.6	28.4	10.3	-94.98	-898.0	-509.0	666.6	629.1	37.50	17.777	
9,595.0	9,509.6	9,538.9	9,524.6	28.7	10.3	-95.04	-898.6	-507.7	665.3	627.5	37.80	17.602	
9,690.0	9,604.6	9,633.6	9,619.3	29.0	10.3	-95.09	-899.0	-506.3	664.0	625.9	38.10	17.430	
9,785.0	9,699.6	9,726.6	9,712.2	29.3	10.3	-95.09	-899.0	-505.4	663.1	624.7	38.39	17.272	
9,880.0	9,794.6	9,819.3	9,805.0	29.6	10.3	-95.11	-899.1	-504.7	662.3	623.6	38.69	17.120	
9,975.0	9,889.6	9,911.8	9,897.5	29.9	10.3	-95.15	-899.5	-504.2	661.9	622.9	39.00	16.970	
10,070.0	9,972.5	9,993.1	9,978.7	30.2	10.3	-95.20	-900.0	-503.9	661.7	622.4	39.30	16.837	
10,165.0	10,079.6	10,100.6	10,086.2	30.6	10.4	-95.28	-900.9	-503.8	661.7	621.9	39.71	16.663	
10,175.4	10,090.0	10,110.6	10,096.2	30.6	10.4	-95.28	-901.0	-503.8	661.6	621.9	39.75	16.646	
10,260.0	10,174.6	10,194.0	10,179.7	30.9	10.4	-95.35	-901.8	-503.8	661.7	621.7	40.08	16.511	
10,355.0	10,269.6	10,287.5	10,273.1	31.2	10.5	-95.43	-902.8	-504.0	662.0	621.5	40.46	16.362	
10,450.0	10,364.6	10,377.4	10,363.0	31.5	10.6	-95.49	-903.5	-504.5	662.6	621.7	40.85	16.218	
10,545.0	10,459.6	10,472.8	10,458.4	31.8	10.7	-95.56	-904.4	-505.4	663.6	622.3	41.27	16.079	
10,640.0	10,554.6	10,567.0	10,552.6	32.1	10.8	-95.65	-905.5	-506.3	664.6	622.9	41.68	15.944	
10,735.0	10,649.6	10,671.8	10,657.4	32.4	10.9	-95.74	-906.6	-506.8	665.2	623.1	42.09	15.802	
10,830.0	10,744.6	10,766.7	10,752.3	32.7	11.0	-95.79	-907.2	-506.5	664.9	622.5	42.44	15.667	
10,925.0	10,839.6	10,863.1	10,848.7	33.1	11.0	-95.85	-907.9	-506.2	664.6	621.8	42.79	15.533	
11,020.0	10,934.6	10,960.7	10,946.3	33.4	11.0	-95.91	-908.4	-505.6	664.1	621.0	43.12	15.401	
11,115.0	11,029.6	11,057.4	11,043.0	33.7	11.0	-95.90	-908.3	-504.7	663.3	619.8	43.44	15.270	
11,210.0	11,124.6	11,151.2	11,136.8	34.0	11.0	-95.82	-907.3	-504.0	662.4	618.6	43.76	15.137	
11,305.0	11,219.6	11,244.4	11,230.0	34.3	11.0	-95.69	-905.7	-503.4	661.7	617.6	44.10	15.005	
11,357.2	11,271.8	11,292.5	11,278.0	34.5	11.0	-95.62	-904.8	-503.3	661.5	617.2	44.28	14.937	
11,400.0	11,314.6	11,332.5	11,318.1	34.6	11.0	-95.56	-904.2	-503.4	661.6	617.1	44.45	14.884	
11,495.0	11,409.6	11,423.5	11,409.0	35.0	11.1	-95.50	-903.6	-504.2	662.3	617.5	44.85	14.768	
11,590.0	11,504.6	11,519.8	11,505.4	35.3	11.2	-95.51	-903.8	-505.2	663.3	618.0	45.28	14.650	
11,685.0	11,599.6	11,617.5	11,603.0	35.6	11.3	-95.67	-905.7	-505.4	663.7	618.0	45.67	14.531	
11,780.0	11,694.6	11,706.9	11,692.4	35.9	11.4	-95.85	-907.7	-505.7	664.3	618.2	46.06	14.422	
11,875.0	11,789.6	11,802.0	11,787.4	36.2	11.4	-96.06	-910.3	-506.3	665.1	618.6	46.46	14.315	
11,970.0	11,884.6	11,894.4	11,879.9	36.6	11.5	-96.28	-913.0	-507.4	666.5	619.7	46.87	14.221	
12,065.0	11,979.6	11,984.8	11,970.2	36.9	11.6	-96.44	-915.0	-509.0	668.4	621.1	47.29	14.136	
12,160.0	12,074.6	12,075.8	12,061.1	37.2	11.7	-96.57	-916.8	-511.2	670.9	623.2	47.71	14.061	
12,255.0	12,169.6	12,175.2	12,160.5	37.4	11.8	83.74	-918.6	-513.5	673.2	625.2	48.00	14.024 SF	
12,350.0	12,263.6	12,267.1	12,252.4	37.4	11.9	84.48	-920.8	-515.5	674.2	626.2	48.00	14.045	
12,445.0	12,353.3	12,356.3	12,341.5	37.5	11.9	86.76	-922.9	-517.7	674.4	626.5	47.93	14.071	
12,540.0	12,435.1	12,434.9	12,420.0	37.5	11.9	89.82	-924.4	-519.8	676.0	628.2	47.80	14.142	
12,635.0	12,505.8	12,486.5	12,471.6	37.6	11.9	91.85	-924.0	-521.7	682.9	635.3	47.62	14.340	
12,730.0	12,562.6	12,515.0	12,499.6	37.7	11.9	91.84	-919.4	-523.5	700.4	653.0	47.46	14.757	
12,825.0	12,603.2	12,515.0	12,499.6	37.7	11.9	88.18	-919.4	-523.5	729.5	682.0	47.46	15.368	
12,920.0	12,626.2	12,515.0	12,499.6	37.8	11.9	83.03	-919.4	-523.5	768.6	721.2	47.44	16.202	
13,015.0	12,630.6	12,515.0	12,499.6	37.9	11.9	77.62	-919.4	-523.5	815.1	767.8	47.33	17.223	
13,110.0	12,628.0	12,515.0	12,499.6	37.9	11.9	77.62	-919.4	-523.5	868.5	821.3	47.22	18.393	
13,205.0	12,625.4	12,515.0	12,499.6	38.0	11.9	77.62	-919.4	-523.5	928.5	881.4	47.16	19.691	
13,300.0	12,622.8	12,515.0	12,499.6	38.1	11.9	77.62	-919.4	-523.5	994.1	946.9	47.13	21.093	

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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 605H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12092-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		
19,760.0	12,444.5	12,211.5	12,166.3	69.5	13.8	-64.20	-8,874.8	655.2	933.9	873.8	60.17	15.522		
19,855.0	12,441.8	12,225.0	12,179.2	70.1	13.8	-65.60	-8,878.8	655.2	854.0	792.2	61.77	13.825		
19,950.0	12,439.2	12,225.0	12,179.2	70.7	13.8	-65.60	-8,878.8	655.2	777.1	713.0	64.09	12.126		
20,045.0	12,436.6	12,250.0	12,202.8	71.4	13.8	-68.25	-8,887.1	655.3	704.1	637.8	66.29	10.622		
20,140.0	12,434.0	12,260.7	12,212.7	72.0	13.8	-69.40	-8,891.1	655.3	636.2	566.8	69.42	9.165		
20,235.0	12,431.4	12,275.0	12,225.9	72.6	13.8	-70.95	-8,896.7	655.4	575.2	502.1	73.02	7.876		
20,284.0	12,430.0	12,290.8	12,240.1	72.9	13.8	-72.66	-8,903.3	655.4	546.9	472.1	74.76	7.315 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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 606H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1												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	
19,760.0	12,444.5	12,225.0	12,202.5	69.5	44.2	73.10	-8,768.5	-420.0	955.3	855.5	99.78	9.574	
19,855.0	12,441.8	12,225.0	12,202.5	70.1	44.2	73.10	-8,768.5	-420.0	889.8	787.7	102.12	8.713	
19,950.0	12,439.2	12,250.0	12,226.0	70.7	44.2	75.06	-8,777.2	-419.9	829.6	724.8	104.81	7.916	
20,045.0	12,436.6	12,260.1	12,235.3	71.4	44.3	75.85	-8,781.0	-419.9	775.8	668.2	107.64	7.208	
20,140.0	12,434.0	12,275.0	12,248.9	72.0	44.3	77.02	-8,787.1	-419.8	729.6	619.1	110.54	6.600	
20,235.0	12,431.4	12,304.7	12,275.5	72.6	44.4	79.34	-8,800.4	-419.7	692.1	578.8	113.35	6.106	
20,284.0	12,430.0	12,319.8	12,288.6	72.9	44.4	80.50	-8,807.8	-419.6	676.6	561.9	114.66	5.901 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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 705H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12054-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)				
19,475.0	12,452.3	12,375.0	12,368.3	67.7	15.7	78.37	-8,741.6	78.6	951.7	894.5	57.22	16.631		
19,570.0	12,449.7	12,375.0	12,368.3	68.3	15.7	78.37	-8,741.6	78.6	857.9	800.4	57.51	14.917		
19,665.0	12,447.1	12,375.0	12,368.3	68.9	15.7	78.37	-8,741.6	78.6	764.4	706.5	57.88	13.207		
19,760.0	12,444.5	12,375.0	12,368.3	69.5	15.7	78.37	-8,741.6	78.6	671.3	612.9	58.37	11.502		
19,855.0	12,441.8	12,375.0	12,368.3	70.1	15.7	78.37	-8,741.6	78.6	578.8	519.8	59.05	9.802		
19,950.0	12,439.2	12,375.0	12,368.3	70.7	15.7	78.37	-8,741.6	78.6	487.3	427.2	60.08	8.111		
20,045.0	12,436.6	12,380.8	12,374.1	71.4	15.7	80.68	-8,742.1	78.6	397.4	335.7	61.74	6.437		
20,140.0	12,434.0	12,384.6	12,377.8	72.0	15.7	82.16	-8,742.5	78.6	310.5	245.9	64.60	4.806		
20,235.0	12,431.4	12,389.3	12,382.6	72.6	15.7	84.09	-8,742.9	78.6	229.9	160.0	69.86	3.291		
20,284.0	12,430.0	12,392.4	12,385.6	72.9	15.7	85.32	-8,743.3	78.6	193.4	119.5	73.96	2.615 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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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 803H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12362-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		
19,570.0	12,449.7	12,465.1	12,421.0	68.3	14.3	-93.06	-8,736.9	654.7	950.8	891.9	58.87	16.151		
19,665.0	12,447.1	12,462.5	12,418.4	68.9	14.3	-92.72	-8,736.9	654.7	867.5	807.3	60.18	14.414		
19,760.0	12,444.5	12,459.9	12,415.8	69.5	14.3	-92.37	-8,736.9	654.7	786.8	725.0	61.85	12.721		
19,855.0	12,441.8	12,457.3	12,413.1	70.1	14.3	-92.03	-8,736.9	654.7	709.8	645.8	63.98	11.093		
19,950.0	12,439.2	12,454.7	12,410.5	70.7	14.3	-91.68	-8,736.9	654.7	637.5	570.9	66.68	9.561		
20,045.0	12,436.6	12,452.0	12,407.9	71.4	14.3	-91.34	-8,736.9	654.7	572.0	502.0	70.02	8.169		
20,140.0	12,434.0	12,449.4	12,405.3	72.0	14.3	-91.00	-8,736.9	654.7	515.7	441.7	73.99	6.970		
20,235.0	12,431.4	12,446.8	12,402.7	72.6	14.3	-90.65	-8,736.9	654.7	472.0	393.7	78.28	6.030		
20,284.0	12,430.0	12,445.4	12,401.3	72.9	14.3	-90.47	-8,736.9	654.7	455.6	375.1	80.40	5.666	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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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' @ 3425.6usft (TBD)

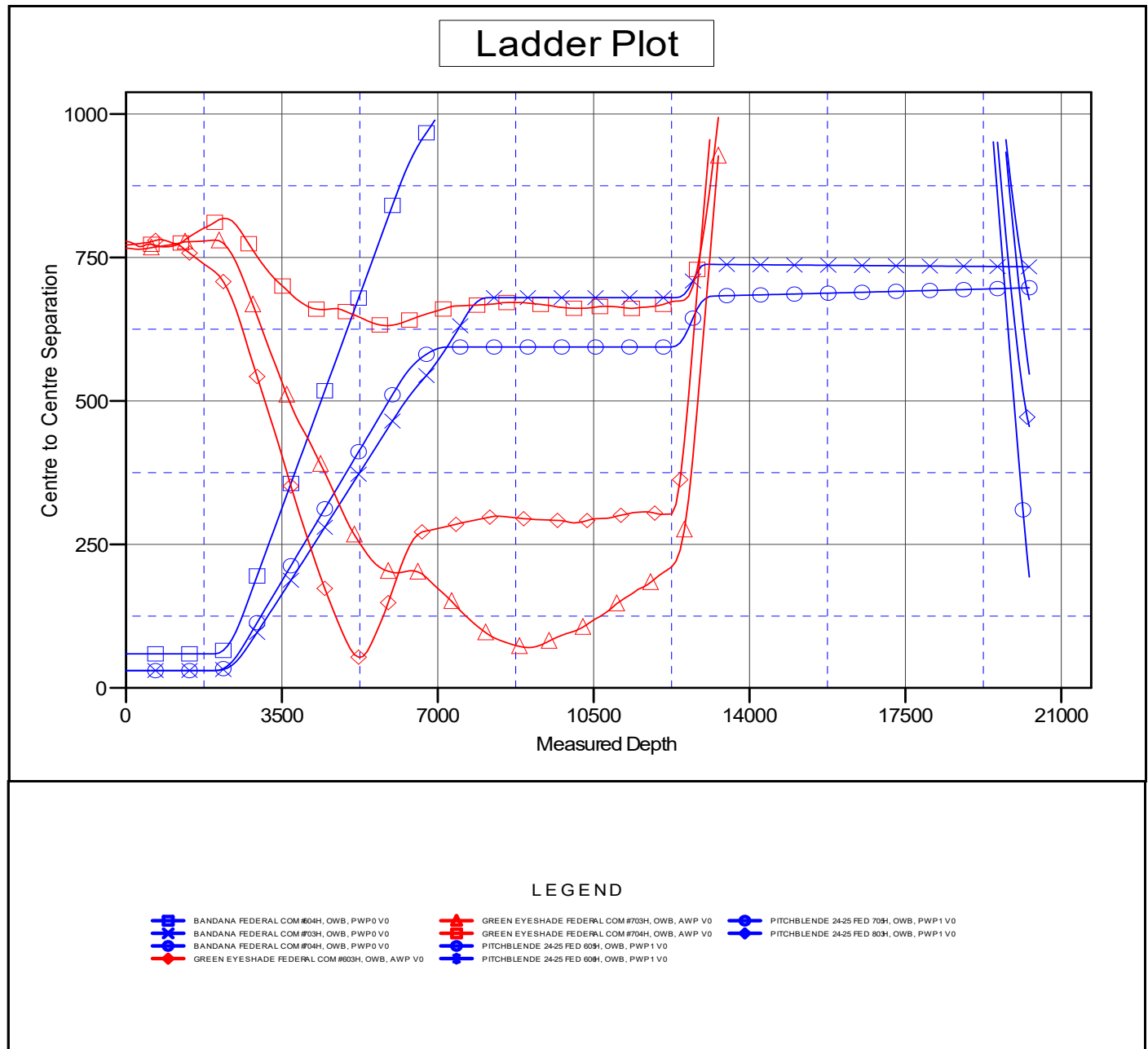
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: BANDANA FEDERAL COM #603H

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

Grid Convergence at Surface is: 0.48°



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 #603H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #603H	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' @ 3425.6usft (TBD)

Offset Depths are relative to Offset Datum

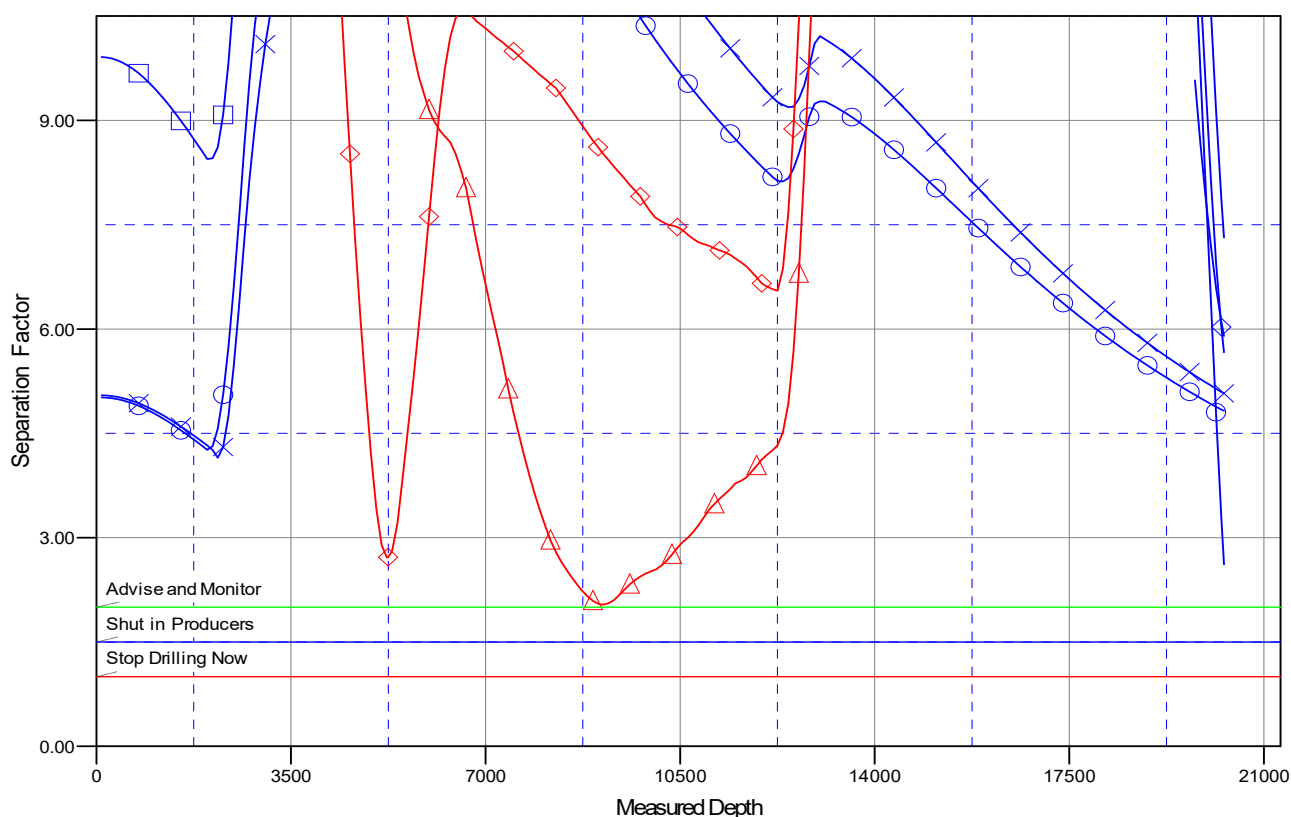
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: BANDANA FEDERAL COM #603H

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

Grid Convergence at Surface is: 0.48°

Separation Factor Plot



LEGEND

BANDANA FEDERAL COM #604H, OWB, PWP0 V0	GREEN EYESHAD FEDERAL COM #603H, OWB, AWP V0	PITCHBLEND 24-25 FED 709H, OWB, PWP1 V0
BANDANA FEDERAL COM #603H, OWB, PWP0 V0	GREEN EYESHAD FEDERAL COM #709H, OWB, AWP V0	PITCHBLEND 24-25 FED 803H, OWB, PWP1 V0
BANDANA FEDERAL COM #604H, OWB, PWP0 V0	PITCHBLEND 24-25 FED 808H, OWB, PWP1 V0	
GREEN EYESHAD FEDERAL COM #603H, OWB, AWP 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 #603H

300254979600

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 #603H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #603H	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
From:	Map	Easting:	784,314.91 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 9' 7.497 N
		Longitude:	103° 24' 52.813 W
		Grid Convergence:	0.49 °

Well	BANDANA FEDERAL COM #603H		
Well Position	+N/-S	-1,924.5 usft	Northing: 418,337.60 usft
	+E/-W	-3,771.7 usft	Easting: 780,543.20 usft
Position Uncertainty	3.0 usft	Wellhead Elevation:	Latitude: 32° 8' 48.771 N
			Longitude: 103° 25' 36.870 W
			Ground Level: 3,395.6 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	1/1/2023	6.28	59.74	47,469.30482705

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	178.55

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	12,239.1 PWP0 (OWB)	MWD+IFR1+MS	
			OWSG MWD + IFR1 + Multi-St	
3	12,239.1	20,284.0 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 #603H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #603H	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	
2,600.2	12.00	169.55	2,595.8	-61.6	11.4	2.00	2.00	0.00	169.55	
6,105.2	12.00	169.55	6,024.2	-778.5	143.6	0.00	0.00	0.00	0.00	
6,705.4	0.00	0.00	6,620.0	-840.1	155.0	2.00	-2.00	0.00	180.00	
12,239.1	0.00	0.00	12,153.7	-840.1	155.0	0.00	0.00	0.00	0.00	
13,002.3	91.58	179.54	12,631.0	-1,330.7	158.9	12.00	12.00	23.53	179.54	
20,234.0	91.58	179.54	12,431.4	-8,559.4	217.0	0.00	0.00	0.00	0.00	
20,284.0	91.58	179.54	12,430.0	-8,609.4	217.4	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #603H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #603H	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	169.55	2,100.0	-1.7	0.3	1.7	2.00	2.00	0.00
2,200.0	4.00	169.55	2,199.8	-6.9	1.3	6.9	2.00	2.00	0.00
2,300.0	6.00	169.55	2,299.5	-15.4	2.8	15.5	2.00	2.00	0.00
2,400.0	8.00	169.55	2,398.7	-27.4	5.1	27.5	2.00	2.00	0.00
2,500.0	10.00	169.55	2,497.5	-42.8	7.9	43.0	2.00	2.00	0.00
2,600.2	12.00	169.55	2,595.8	-61.6	11.4	61.9	2.00	2.00	0.00
Start 3505.0 hold at 2600.2 MD									
2,700.0	12.00	169.55	2,693.4	-82.0	15.1	82.4	0.00	0.00	0.00
2,800.0	12.00	169.55	2,791.2	-102.5	18.9	102.9	0.00	0.00	0.00
2,900.0	12.00	169.55	2,889.1	-122.9	22.7	123.5	0.00	0.00	0.00
3,000.0	12.00	169.55	2,986.9	-143.4	26.5	144.0	0.00	0.00	0.00
3,100.0	12.00	169.55	3,084.7	-163.8	30.2	164.5	0.00	0.00	0.00
3,200.0	12.00	169.55	3,182.5	-184.3	34.0	185.1	0.00	0.00	0.00
3,300.0	12.00	169.55	3,280.3	-204.7	37.8	205.6	0.00	0.00	0.00
3,400.0	12.00	169.55	3,378.1	-225.2	41.5	226.2	0.00	0.00	0.00
3,500.0	12.00	169.55	3,475.9	-245.6	45.3	246.7	0.00	0.00	0.00
3,600.0	12.00	169.55	3,573.8	-266.1	49.1	267.3	0.00	0.00	0.00
3,700.0	12.00	169.55	3,671.6	-286.6	52.9	287.8	0.00	0.00	0.00
3,800.0	12.00	169.55	3,769.4	-307.0	56.6	308.3	0.00	0.00	0.00
3,900.0	12.00	169.55	3,867.2	-327.5	60.4	328.9	0.00	0.00	0.00
4,000.0	12.00	169.55	3,965.0	-347.9	64.2	349.4	0.00	0.00	0.00
4,100.0	12.00	169.55	4,062.8	-368.4	68.0	370.0	0.00	0.00	0.00
4,200.0	12.00	169.55	4,160.6	-388.8	71.7	390.5	0.00	0.00	0.00
4,300.0	12.00	169.55	4,258.4	-409.3	75.5	411.0	0.00	0.00	0.00
4,400.0	12.00	169.55	4,356.3	-429.7	79.3	431.6	0.00	0.00	0.00
4,500.0	12.00	169.55	4,454.1	-450.2	83.1	452.1	0.00	0.00	0.00
4,600.0	12.00	169.55	4,551.9	-470.6	86.8	472.7	0.00	0.00	0.00
4,700.0	12.00	169.55	4,649.7	-491.1	90.6	493.2	0.00	0.00	0.00
4,800.0	12.00	169.55	4,747.5	-511.5	94.4	513.8	0.00	0.00	0.00
4,900.0	12.00	169.55	4,845.3	-532.0	98.2	534.3	0.00	0.00	0.00
5,000.0	12.00	169.55	4,943.1	-552.4	101.9	554.8	0.00	0.00	0.00
5,100.0	12.00	169.55	5,041.0	-572.9	105.7	575.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #603H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #603H	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	12.00	169.55	5,138.8	-593.3	109.5	595.9	0.00	0.00	0.00
5,300.0	12.00	169.55	5,236.6	-613.8	113.2	616.5	0.00	0.00	0.00
5,400.0	12.00	169.55	5,334.4	-634.3	117.0	637.0	0.00	0.00	0.00
5,500.0	12.00	169.55	5,432.2	-654.7	120.8	657.6	0.00	0.00	0.00
5,600.0	12.00	169.55	5,530.0	-675.2	124.6	678.1	0.00	0.00	0.00
5,700.0	12.00	169.55	5,627.8	-695.6	128.3	698.6	0.00	0.00	0.00
5,800.0	12.00	169.55	5,725.6	-716.1	132.1	719.2	0.00	0.00	0.00
5,900.0	12.00	169.55	5,823.5	-736.5	135.9	739.7	0.00	0.00	0.00
6,000.0	12.00	169.55	5,921.3	-757.0	139.7	760.3	0.00	0.00	0.00
6,105.2	12.00	169.55	6,024.2	-778.5	143.6	781.9	0.00	0.00	0.00
Start Drop -2.00									
6,200.0	10.11	169.55	6,117.2	-796.4	146.9	799.8	2.00	-2.00	0.00
6,300.0	8.11	169.55	6,215.9	-811.9	149.8	815.5	2.00	-2.00	0.00
6,400.0	6.11	169.55	6,315.2	-824.1	152.0	827.7	2.00	-2.00	0.00
6,500.0	4.11	169.55	6,414.8	-832.9	153.7	836.5	2.00	-2.00	0.00
6,600.0	2.11	169.55	6,514.6	-838.2	154.6	841.8	2.00	-2.00	0.00
6,705.4	0.00	0.00	6,620.0	-840.1	155.0	843.7	2.00	-2.00	0.00
Start 5533.7 hold at 6705.4 MD									
6,800.0	0.00	0.00	6,714.6	-840.1	155.0	843.7	0.00	0.00	0.00
6,900.0	0.00	0.00	6,814.6	-840.1	155.0	843.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,914.6	-840.1	155.0	843.7	0.00	0.00	0.00
7,100.0	0.00	0.00	7,014.6	-840.1	155.0	843.7	0.00	0.00	0.00
7,200.0	0.00	0.00	7,114.6	-840.1	155.0	843.7	0.00	0.00	0.00
7,300.0	0.00	0.00	7,214.6	-840.1	155.0	843.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,314.6	-840.1	155.0	843.7	0.00	0.00	0.00
7,500.0	0.00	0.00	7,414.6	-840.1	155.0	843.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,514.6	-840.1	155.0	843.7	0.00	0.00	0.00
7,700.0	0.00	0.00	7,614.6	-840.1	155.0	843.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,714.6	-840.1	155.0	843.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,814.6	-840.1	155.0	843.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,914.6	-840.1	155.0	843.7	0.00	0.00	0.00
8,100.0	0.00	0.00	8,014.6	-840.1	155.0	843.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,114.6	-840.1	155.0	843.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,214.6	-840.1	155.0	843.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,314.6	-840.1	155.0	843.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,414.6	-840.1	155.0	843.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,514.6	-840.1	155.0	843.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,614.6	-840.1	155.0	843.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,714.6	-840.1	155.0	843.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,814.6	-840.1	155.0	843.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,914.6	-840.1	155.0	843.7	0.00	0.00	0.00
9,100.0	0.00	0.00	9,014.6	-840.1	155.0	843.7	0.00	0.00	0.00
9,200.0	0.00	0.00	9,114.6	-840.1	155.0	843.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,214.6	-840.1	155.0	843.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,314.6	-840.1	155.0	843.7	0.00	0.00	0.00
9,500.0	0.00	0.00	9,414.6	-840.1	155.0	843.7	0.00	0.00	0.00
9,600.0	0.00	0.00	9,514.6	-840.1	155.0	843.7	0.00	0.00	0.00
9,700.0	0.00	0.00	9,614.6	-840.1	155.0	843.7	0.00	0.00	0.00
9,800.0	0.00	0.00	9,714.6	-840.1	155.0	843.7	0.00	0.00	0.00
9,900.0	0.00	0.00	9,814.6	-840.1	155.0	843.7	0.00	0.00	0.00
10,000.0	0.00	0.00	9,914.6	-840.1	155.0	843.7	0.00	0.00	0.00
10,100.0	0.00	0.00	10,014.6	-840.1	155.0	843.7	0.00	0.00	0.00
10,200.0	0.00	0.00	10,114.6	-840.1	155.0	843.7	0.00	0.00	0.00
10,300.0	0.00	0.00	10,214.6	-840.1	155.0	843.7	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #603H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #603H	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	10,314.6	-840.1	155.0	843.7	0.00	0.00	0.00
10,500.0	0.00	0.00	10,414.6	-840.1	155.0	843.7	0.00	0.00	0.00
10,600.0	0.00	0.00	10,514.6	-840.1	155.0	843.7	0.00	0.00	0.00
10,700.0	0.00	0.00	10,614.6	-840.1	155.0	843.7	0.00	0.00	0.00
10,800.0	0.00	0.00	10,714.6	-840.1	155.0	843.7	0.00	0.00	0.00
10,900.0	0.00	0.00	10,814.6	-840.1	155.0	843.7	0.00	0.00	0.00
11,000.0	0.00	0.00	10,914.6	-840.1	155.0	843.7	0.00	0.00	0.00
11,100.0	0.00	0.00	11,014.6	-840.1	155.0	843.7	0.00	0.00	0.00
11,200.0	0.00	0.00	11,114.6	-840.1	155.0	843.7	0.00	0.00	0.00
11,300.0	0.00	0.00	11,214.6	-840.1	155.0	843.7	0.00	0.00	0.00
11,400.0	0.00	0.00	11,314.6	-840.1	155.0	843.7	0.00	0.00	0.00
11,500.0	0.00	0.00	11,414.6	-840.1	155.0	843.7	0.00	0.00	0.00
11,600.0	0.00	0.00	11,514.6	-840.1	155.0	843.7	0.00	0.00	0.00
11,700.0	0.00	0.00	11,614.6	-840.1	155.0	843.7	0.00	0.00	0.00
11,800.0	0.00	0.00	11,714.6	-840.1	155.0	843.7	0.00	0.00	0.00
11,900.0	0.00	0.00	11,814.6	-840.1	155.0	843.7	0.00	0.00	0.00
12,000.0	0.00	0.00	11,914.6	-840.1	155.0	843.7	0.00	0.00	0.00
12,100.0	0.00	0.00	12,014.6	-840.1	155.0	843.7	0.00	0.00	0.00
12,200.0	0.00	0.00	12,114.6	-840.1	155.0	843.7	0.00	0.00	0.00
12,239.1	0.00	0.00	12,153.7	-840.1	155.0	843.7	0.00	0.00	0.00
Start DLS 12.00 TFO 179.54									
12,250.0	1.30	179.54	12,164.6	-840.2	155.0	843.9	12.00	12.00	0.00
12,275.0	4.30	179.54	12,189.6	-841.4	155.0	845.1	12.00	12.00	0.00
12,300.0	7.30	179.54	12,214.4	-844.0	155.0	847.6	12.00	12.00	0.00
12,325.0	10.30	179.54	12,239.1	-847.8	155.1	851.4	12.00	12.00	0.00
12,350.0	13.30	179.54	12,263.6	-852.9	155.1	856.6	12.00	12.00	0.00
12,375.0	16.30	179.54	12,287.8	-859.3	155.2	862.9	12.00	12.00	0.00
12,400.0	19.30	179.54	12,311.6	-866.9	155.2	870.6	12.00	12.00	0.00
12,425.0	22.30	179.54	12,334.9	-875.8	155.3	879.5	12.00	12.00	0.00
12,450.0	25.30	179.54	12,357.8	-885.9	155.4	889.6	12.00	12.00	0.00
12,475.0	28.30	179.54	12,380.1	-897.2	155.5	900.8	12.00	12.00	0.00
12,500.0	31.30	179.54	12,401.8	-909.6	155.6	913.2	12.00	12.00	0.00
12,525.0	34.30	179.54	12,422.8	-923.2	155.7	926.8	12.00	12.00	0.00
12,550.0	37.30	179.54	12,443.1	-937.8	155.8	941.4	12.00	12.00	0.00
12,575.0	40.30	179.54	12,462.6	-953.4	155.9	957.1	12.00	12.00	0.00
12,600.0	43.30	179.54	12,481.2	-970.1	156.0	973.7	12.00	12.00	0.00
12,625.0	46.30	179.54	12,498.9	-987.7	156.2	991.3	12.00	12.00	0.00
12,650.0	49.30	179.54	12,515.7	-1,006.2	156.3	1,009.9	12.00	12.00	0.00
12,675.0	52.30	179.54	12,531.5	-1,025.6	156.5	1,029.2	12.00	12.00	0.00
12,700.0	55.30	179.54	12,546.3	-1,045.8	156.7	1,049.4	12.00	12.00	0.00
12,725.0	58.30	179.54	12,560.0	-1,066.7	156.8	1,070.3	12.00	12.00	0.00
12,750.0	61.30	179.54	12,572.5	-1,088.3	157.0	1,091.9	12.00	12.00	0.00
12,775.0	64.30	179.54	12,584.0	-1,110.5	157.2	1,114.1	12.00	12.00	0.00
12,800.0	67.30	179.54	12,594.2	-1,133.3	157.4	1,136.9	12.00	12.00	0.00
12,825.0	70.30	179.54	12,603.2	-1,156.6	157.5	1,160.2	12.00	12.00	0.00
12,850.0	73.30	179.54	12,611.1	-1,180.4	157.7	1,184.0	12.00	12.00	0.00
12,875.0	76.30	179.54	12,617.6	-1,204.5	157.9	1,208.1	12.00	12.00	0.00
12,900.0	79.30	179.54	12,622.9	-1,228.9	158.1	1,232.5	12.00	12.00	0.00
12,925.0	82.30	179.54	12,626.9	-1,253.6	158.3	1,257.2	12.00	12.00	0.00
12,950.0	85.30	179.54	12,629.6	-1,278.5	158.5	1,282.1	12.00	12.00	0.00
12,975.0	88.30	179.54	12,631.0	-1,303.4	158.7	1,307.0	12.00	12.00	0.00
13,002.3	91.58	179.54	12,631.0	-1,330.7	158.9	1,334.3	12.00	12.00	0.00
Start 7231.7 hold at 13002.3 MD									

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #603H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #603H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,100.0	91.58	179.54	12,628.3	-1,428.4	159.7	1,432.0	0.00	0.00	0.00	
13,200.0	91.58	179.54	12,625.5	-1,528.3	160.5	1,531.9	0.00	0.00	0.00	
13,300.0	91.58	179.54	12,622.8	-1,628.3	161.3	1,631.9	0.00	0.00	0.00	
13,400.0	91.58	179.54	12,620.0	-1,728.3	162.1	1,731.8	0.00	0.00	0.00	
13,500.0	91.58	179.54	12,617.3	-1,828.2	162.9	1,831.7	0.00	0.00	0.00	
13,600.0	91.58	179.54	12,614.5	-1,928.2	163.7	1,931.7	0.00	0.00	0.00	
13,700.0	91.58	179.54	12,611.7	-2,028.1	164.5	2,031.6	0.00	0.00	0.00	
13,800.0	91.58	179.54	12,609.0	-2,128.1	165.3	2,131.6	0.00	0.00	0.00	
13,900.0	91.58	179.54	12,606.2	-2,228.0	166.1	2,231.5	0.00	0.00	0.00	
14,000.0	91.58	179.54	12,603.5	-2,328.0	167.0	2,331.5	0.00	0.00	0.00	
14,100.0	91.58	179.54	12,600.7	-2,428.0	167.8	2,431.4	0.00	0.00	0.00	
14,200.0	91.58	179.54	12,597.9	-2,527.9	168.6	2,531.4	0.00	0.00	0.00	
14,300.0	91.58	179.54	12,595.2	-2,627.9	169.4	2,631.3	0.00	0.00	0.00	
14,400.0	91.58	179.54	12,592.4	-2,727.8	170.2	2,731.3	0.00	0.00	0.00	
14,500.0	91.58	179.54	12,589.7	-2,827.8	171.0	2,831.2	0.00	0.00	0.00	
14,600.0	91.58	179.54	12,586.9	-2,927.8	171.8	2,931.2	0.00	0.00	0.00	
14,700.0	91.58	179.54	12,584.1	-3,027.7	172.6	3,031.1	0.00	0.00	0.00	
14,800.0	91.58	179.54	12,581.4	-3,127.7	173.4	3,131.1	0.00	0.00	0.00	
14,900.0	91.58	179.54	12,578.6	-3,227.6	174.2	3,231.0	0.00	0.00	0.00	
15,000.0	91.58	179.54	12,575.9	-3,327.6	175.0	3,331.0	0.00	0.00	0.00	
15,100.0	91.58	179.54	12,573.1	-3,427.6	175.8	3,430.9	0.00	0.00	0.00	
15,200.0	91.58	179.54	12,570.3	-3,527.5	176.6	3,530.8	0.00	0.00	0.00	
15,300.0	91.58	179.54	12,567.6	-3,627.5	177.4	3,630.8	0.00	0.00	0.00	
15,400.0	91.58	179.54	12,564.8	-3,727.4	178.2	3,730.7	0.00	0.00	0.00	
15,500.0	91.58	179.54	12,562.1	-3,827.4	179.0	3,830.7	0.00	0.00	0.00	
15,600.0	91.58	179.54	12,559.3	-3,927.3	179.8	3,930.6	0.00	0.00	0.00	
15,700.0	91.58	179.54	12,556.5	-4,027.3	180.6	4,030.6	0.00	0.00	0.00	
15,800.0	91.58	179.54	12,553.8	-4,127.3	181.4	4,130.5	0.00	0.00	0.00	
15,900.0	91.58	179.54	12,551.0	-4,227.2	182.2	4,230.5	0.00	0.00	0.00	
16,000.0	91.58	179.54	12,548.3	-4,327.2	183.0	4,330.4	0.00	0.00	0.00	
16,100.0	91.58	179.54	12,545.5	-4,427.1	183.8	4,430.4	0.00	0.00	0.00	
16,200.0	91.58	179.54	12,542.7	-4,527.1	184.6	4,530.3	0.00	0.00	0.00	
16,300.0	91.58	179.54	12,540.0	-4,627.1	185.4	4,630.3	0.00	0.00	0.00	
16,400.0	91.58	179.54	12,537.2	-4,727.0	186.2	4,730.2	0.00	0.00	0.00	
16,500.0	91.58	179.54	12,534.5	-4,827.0	187.0	4,830.2	0.00	0.00	0.00	
16,600.0	91.58	179.54	12,531.7	-4,926.9	187.8	4,930.1	0.00	0.00	0.00	
16,700.0	91.58	179.54	12,528.9	-5,026.9	188.6	5,030.1	0.00	0.00	0.00	
16,800.0	91.58	179.54	12,526.2	-5,126.9	189.4	5,130.0	0.00	0.00	0.00	
16,900.0	91.58	179.54	12,523.4	-5,226.8	190.2	5,229.9	0.00	0.00	0.00	
17,000.0	91.58	179.54	12,520.6	-5,326.8	191.0	5,329.9	0.00	0.00	0.00	
17,100.0	91.58	179.54	12,517.9	-5,426.7	191.8	5,429.8	0.00	0.00	0.00	
17,200.0	91.58	179.54	12,515.1	-5,526.7	192.6	5,529.8	0.00	0.00	0.00	
17,300.0	91.58	179.54	12,512.4	-5,626.6	193.4	5,629.7	0.00	0.00	0.00	
17,400.0	91.58	179.54	12,509.6	-5,726.6	194.2	5,729.7	0.00	0.00	0.00	
17,500.0	91.58	179.54	12,506.8	-5,826.6	195.1	5,829.6	0.00	0.00	0.00	
17,600.0	91.58	179.54	12,504.1	-5,926.5	195.9	5,929.6	0.00	0.00	0.00	
17,700.0	91.58	179.54	12,501.3	-6,026.5	196.7	6,029.5	0.00	0.00	0.00	
17,800.0	91.58	179.54	12,498.6	-6,126.4	197.5	6,129.5	0.00	0.00	0.00	
17,900.0	91.58	179.54	12,495.8	-6,226.4	198.3	6,229.4	0.00	0.00	0.00	
18,000.0	91.58	179.54	12,493.0	-6,326.4	199.1	6,329.4	0.00	0.00	0.00	
18,100.0	91.58	179.54	12,490.3	-6,426.3	199.9	6,429.3	0.00	0.00	0.00	
18,200.0	91.58	179.54	12,487.5	-6,526.3	200.7	6,529.3	0.00	0.00	0.00	
18,300.0	91.58	179.54	12,484.8	-6,626.2	201.5	6,629.2	0.00	0.00	0.00	
18,400.0	91.58	179.54	12,482.0	-6,726.2	202.3	6,729.2	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #603H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3425.6usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3425.6usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #603H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

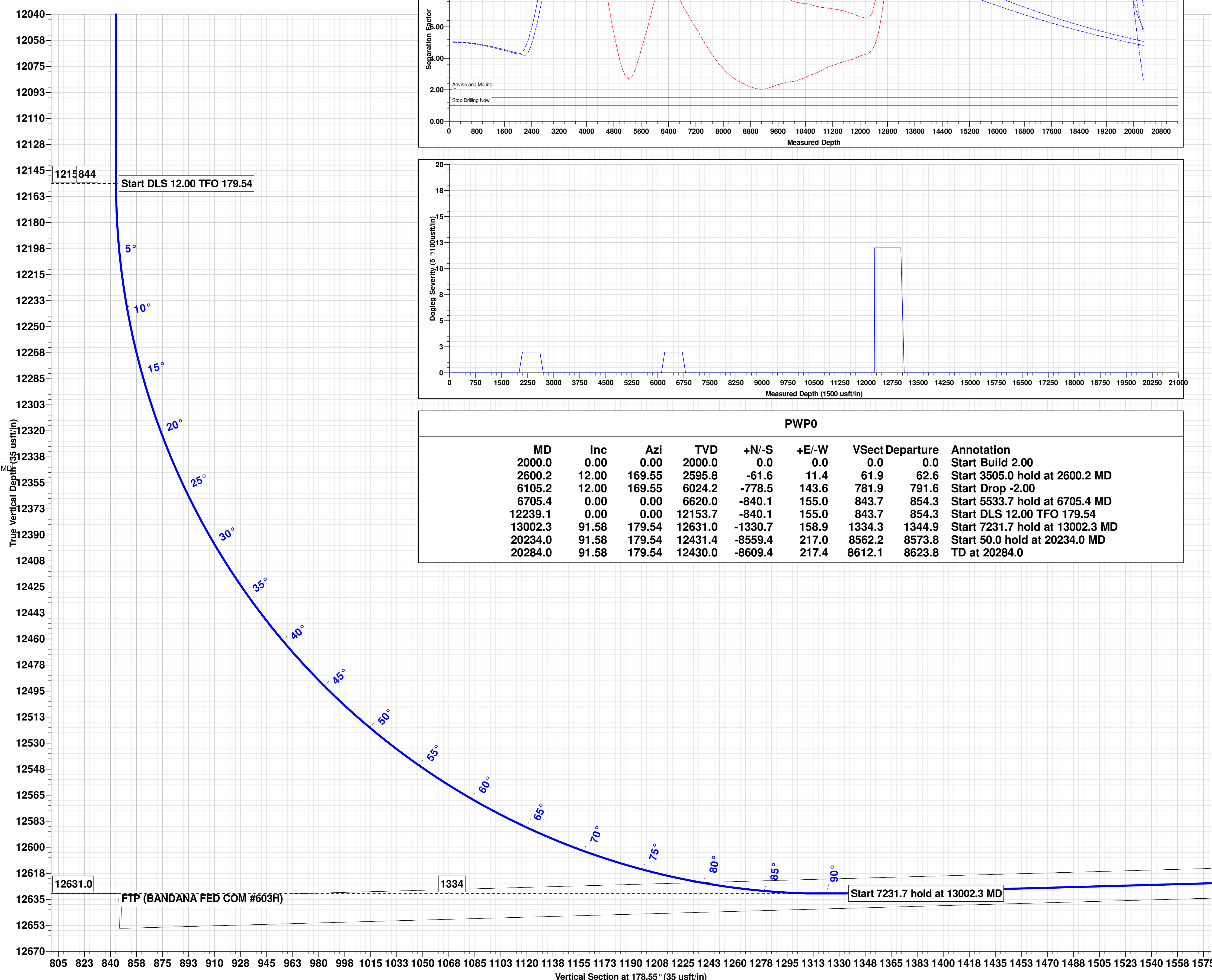
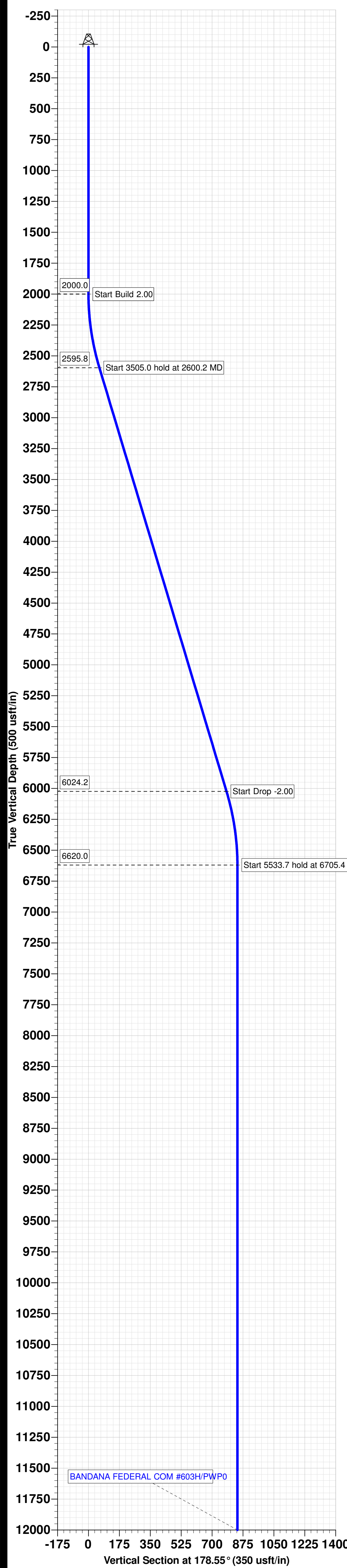
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
18,500.0	91.58	179.54	12,479.2	-6,826.1	203.1	6,829.1	0.00	0.00	0.00	
18,600.0	91.58	179.54	12,476.5	-6,926.1	203.9	6,929.0	0.00	0.00	0.00	
18,700.0	91.58	179.54	12,473.7	-7,026.1	204.7	7,029.0	0.00	0.00	0.00	
18,800.0	91.58	179.54	12,471.0	-7,126.0	205.5	7,128.9	0.00	0.00	0.00	
18,900.0	91.58	179.54	12,468.2	-7,226.0	206.3	7,228.9	0.00	0.00	0.00	
19,000.0	91.58	179.54	12,465.4	-7,325.9	207.1	7,328.8	0.00	0.00	0.00	
19,100.0	91.58	179.54	12,462.7	-7,425.9	207.9	7,428.8	0.00	0.00	0.00	
19,200.0	91.58	179.54	12,459.9	-7,525.9	208.7	7,528.7	0.00	0.00	0.00	
19,300.0	91.58	179.54	12,457.2	-7,625.8	209.5	7,628.7	0.00	0.00	0.00	
19,400.0	91.58	179.54	12,454.4	-7,725.8	210.3	7,728.6	0.00	0.00	0.00	
19,500.0	91.58	179.54	12,451.6	-7,825.7	211.1	7,828.6	0.00	0.00	0.00	
19,600.0	91.58	179.54	12,448.9	-7,925.7	211.9	7,928.5	0.00	0.00	0.00	
19,700.0	91.58	179.54	12,446.1	-8,025.7	212.7	8,028.5	0.00	0.00	0.00	
19,800.0	91.58	179.54	12,443.4	-8,125.6	213.5	8,128.4	0.00	0.00	0.00	
19,900.0	91.58	179.54	12,440.6	-8,225.6	214.3	8,228.4	0.00	0.00	0.00	
20,000.0	91.58	179.54	12,437.8	-8,325.5	215.1	8,328.3	0.00	0.00	0.00	
20,100.0	91.58	179.54	12,435.1	-8,425.5	215.9	8,428.3	0.00	0.00	0.00	
20,200.0	91.58	179.54	12,432.3	-8,525.4	216.7	8,528.2	0.00	0.00	0.00	
20,234.0	91.58	179.54	12,431.4	-8,559.4	217.0	8,562.2	0.00	0.00	0.00	
Start 50.0 hold at 20234.0 MD										
20,284.0	91.58	179.54	12,430.0	-8,609.4	217.4	8,612.1	0.00	0.00	0.00	
TD at 20284.0										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		
- hit/miss target										
- Shape								Longitude		
PBHL (BANDANA FED C	1.58	359.54	12,430.0	-8,609.4	217.4	409,728.20	780,760.60	32° 7' 23.560 N		
- plan hits target center								103° 25' 35.185 W		
- Rectangle (sides W100.0 H7,769.6 D20.0)										
LTP (BANDANA FED C)	0.00	0.00	12,431.4	-8,559.4	217.0	409,778.20	780,760.20	32° 7' 24.055 N		
- plan hits target center								103° 25' 35.185 W		
- Point										
FTP (BANDANA FED C)	0.00	0.00	12,631.0	-840.1	155.0	417,497.50	780,698.20	32° 8' 40.445 N		
- plan misses target center by 197.6usft at 12614.7usft MD (12491.7 TVD, -980.3 N, 156.1 E)								103° 25' 35.150 W		
- Circle (radius 50.0)										

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
2,000.0	2,000.0	0.0	0.0	Start Build 2.00	
2,600.2	2,595.8	-61.6	11.4	Start 3505.0 hold at 2600.2 MD	
6,105.2	6,024.2	-778.5	143.6	Start Drop -2.00	
6,705.4	6,620.0	-840.1	155.0	Start 5533.7 hold at 6705.4 MD	
12,239.1	12,153.7	-840.1	155.0	Start DLS 12.00 TFO 179.54	
13,002.3	12,631.0	-1,330.7	158.9	Start 7231.7 hold at 13002.3 MD	
20,234.0	12,431.4	-8,559.4	217.0	Start 50.0 hold at 20234.0 MD	
20,284.0	12,430.0	-8,609.4	217.4	TD at 20284.0	

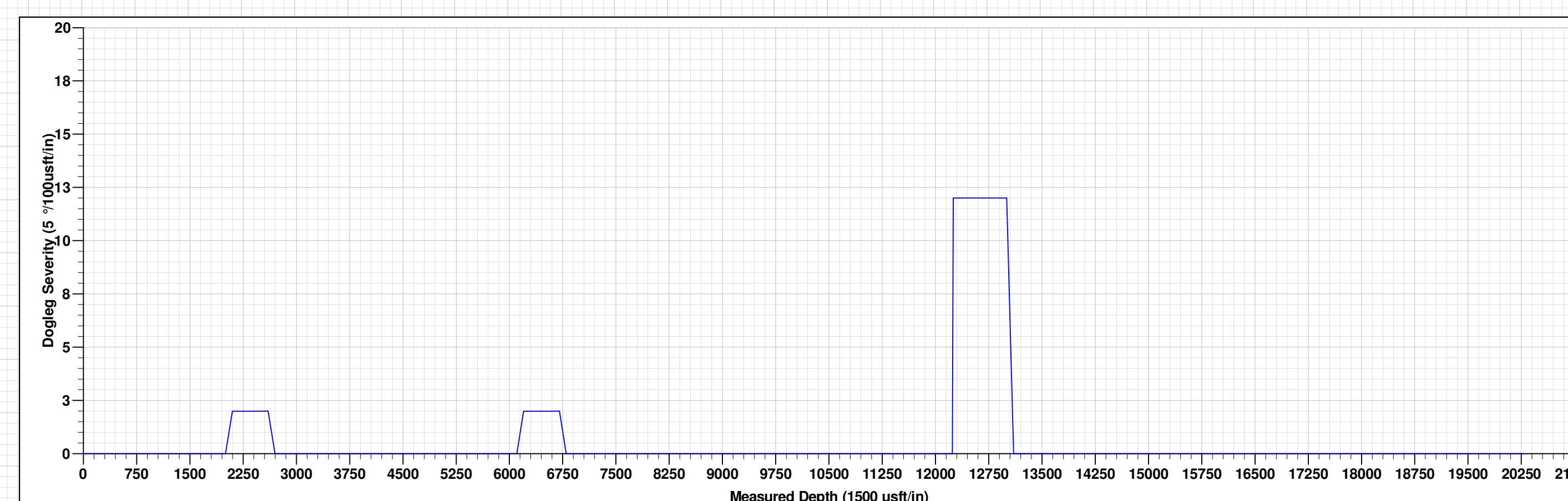
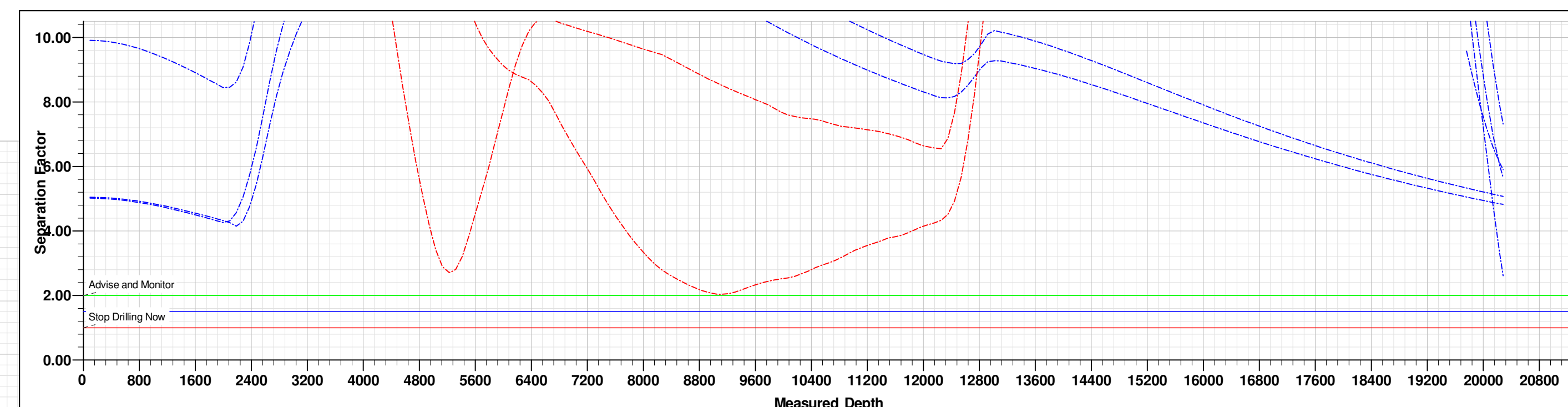


Project: BULLDOG PROSPECT (NM-E)
Site: BANDANA FEDERAL PROJECT
Well: BANDANA FEDERAL COM #603H
Wellbore: OWB
Design: PWP0
GL: 3395.6
*KB=30' @ 3425.6usft (TBD)

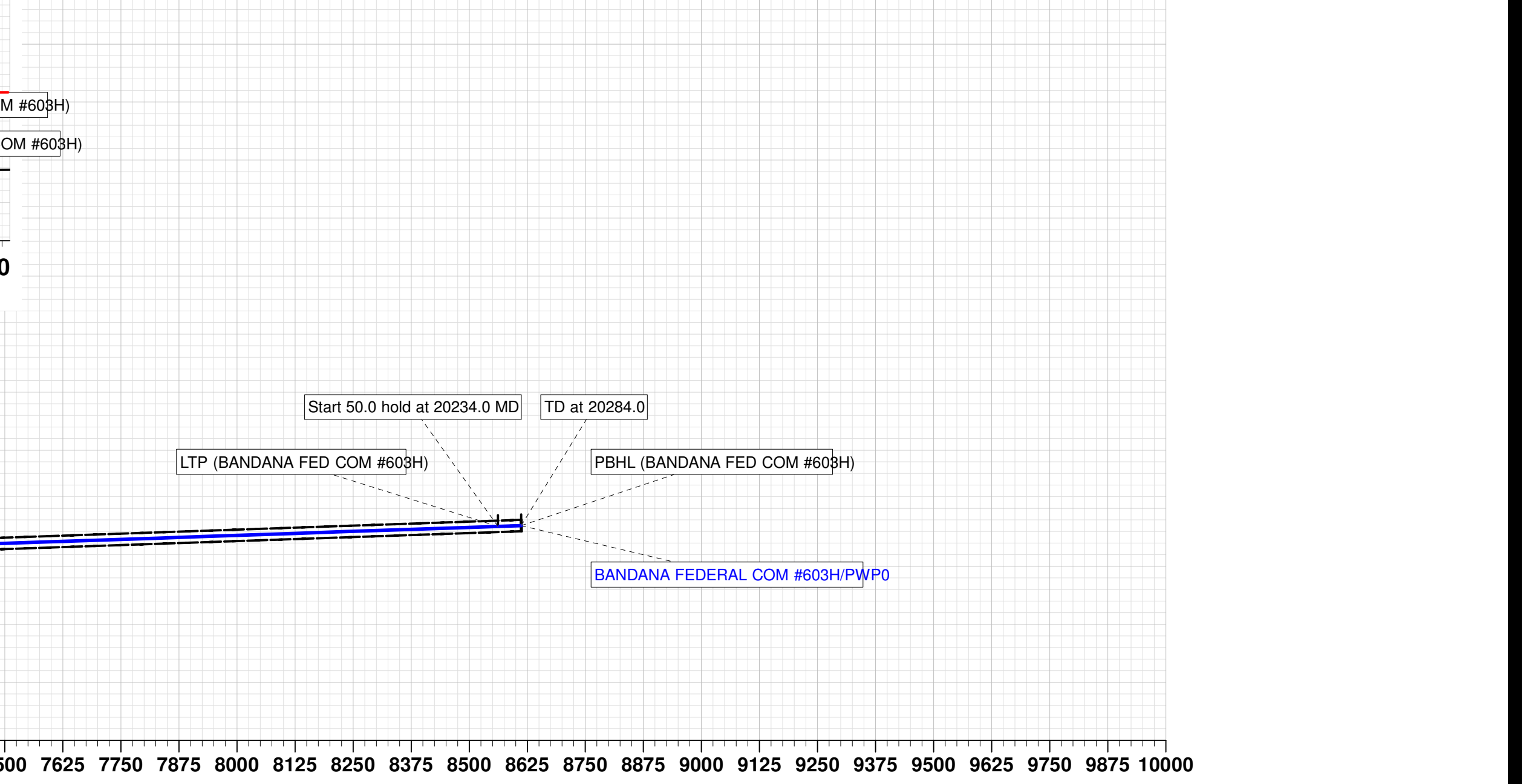
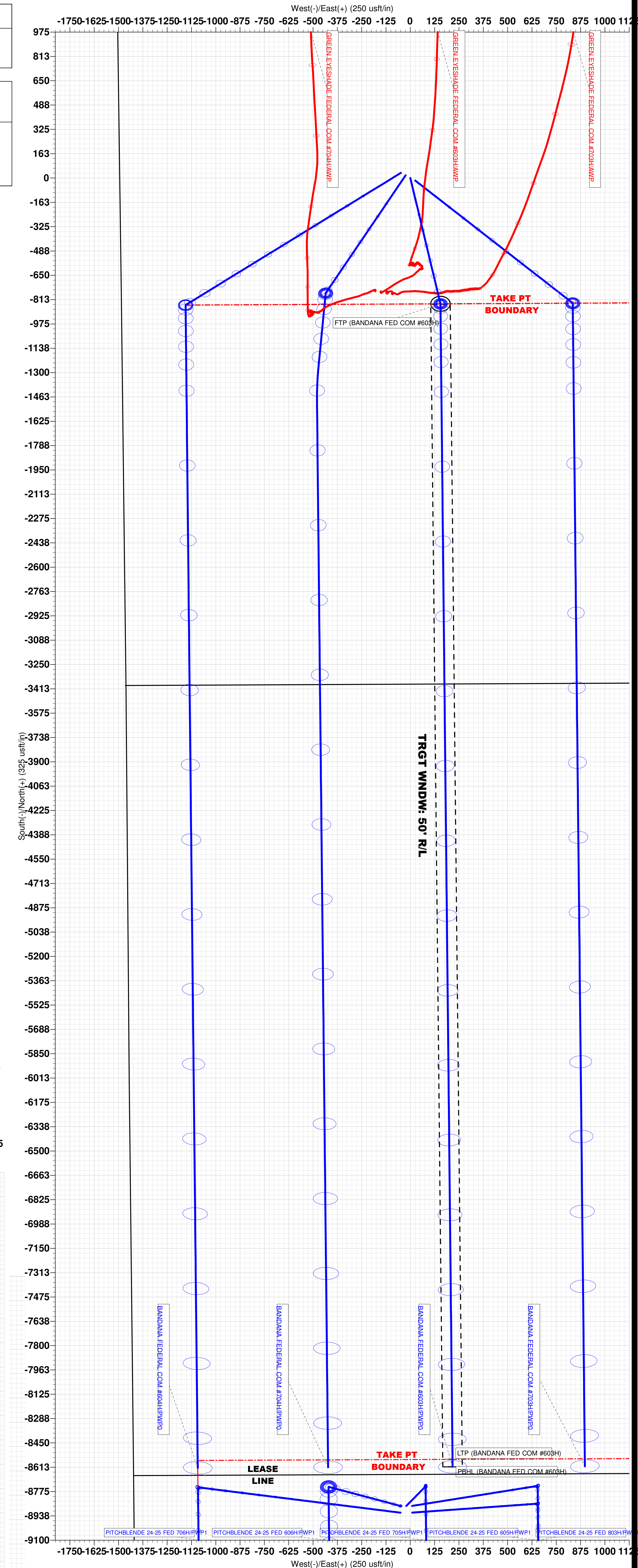
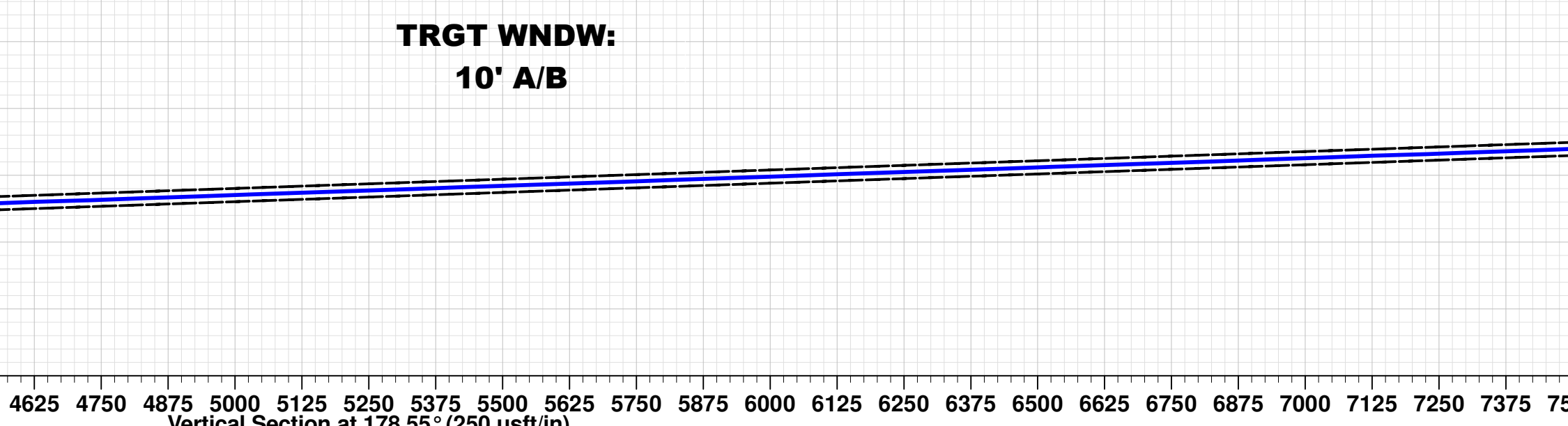
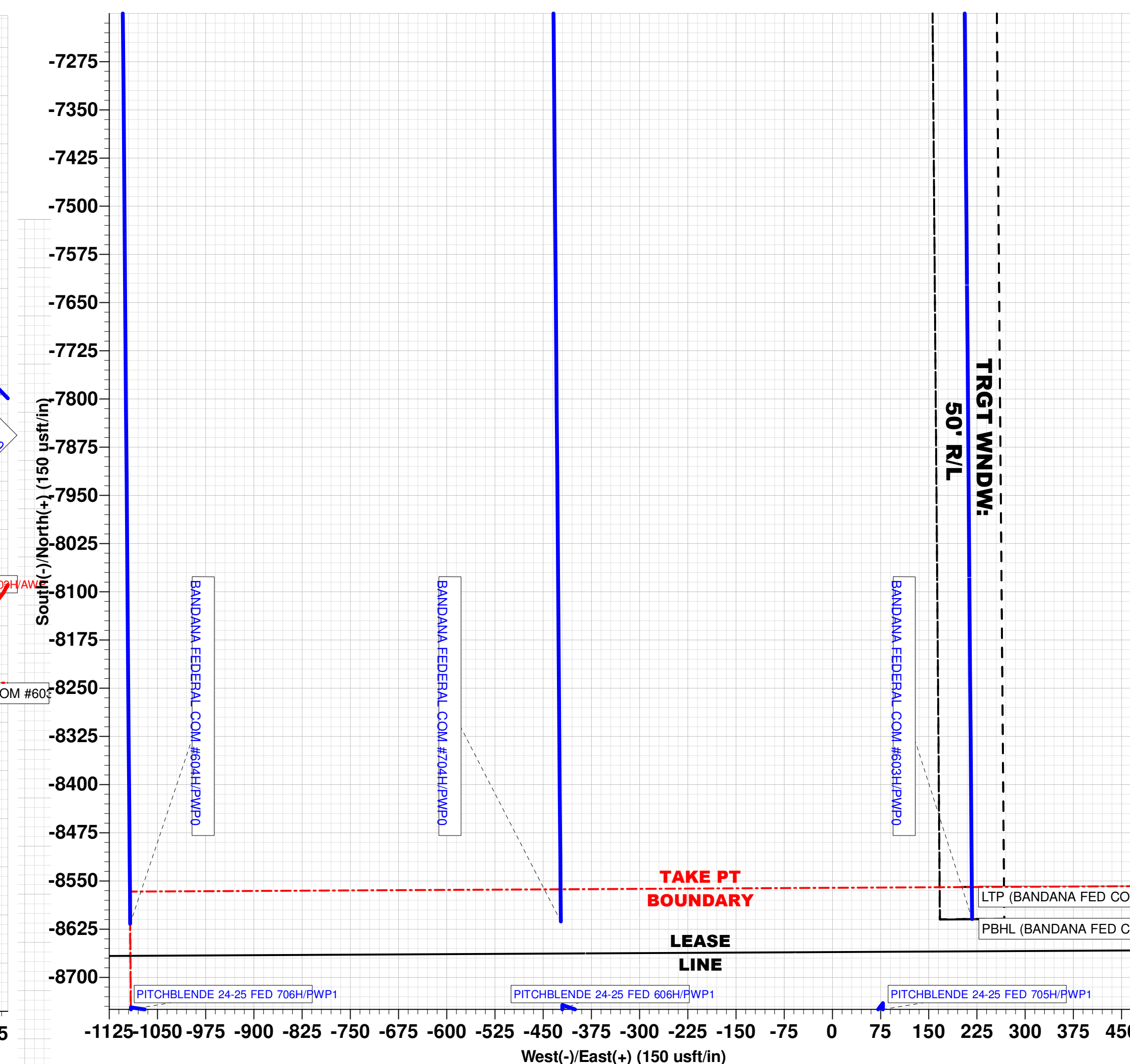
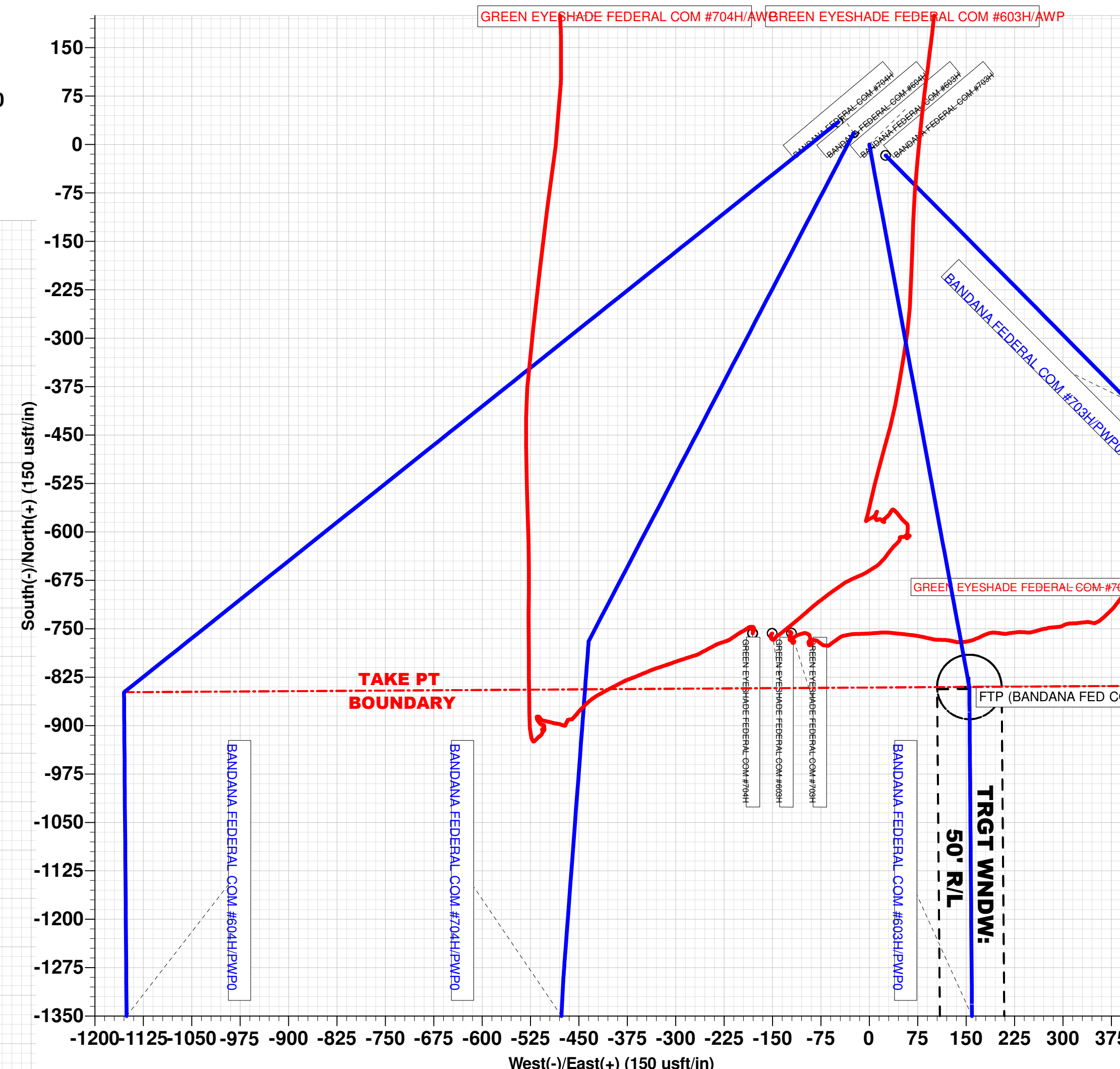
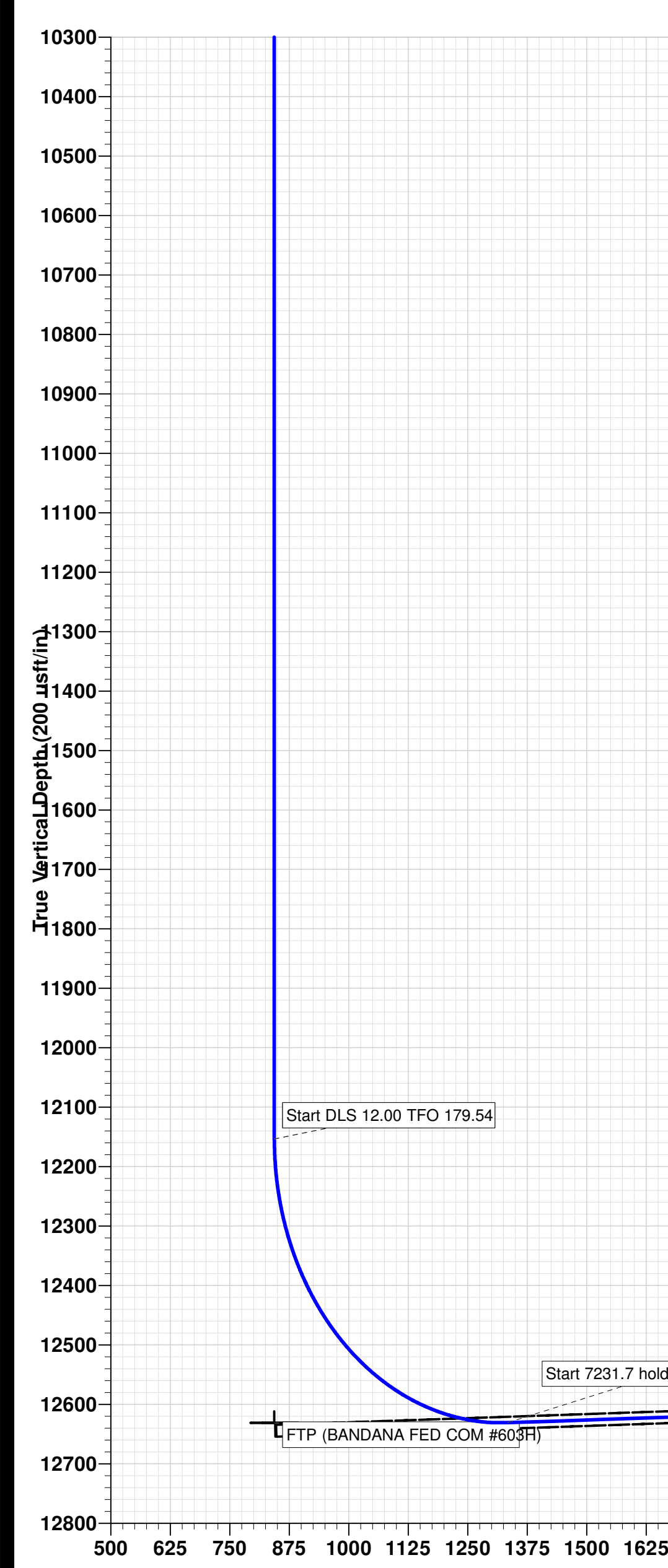


WELL DETAILS: BANDANA FEDERAL COM #603H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	418337.60	780543.20	32° 8' 48.771 N	103° 25' 36.870 W

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL (BANDANA FED COM #603H)	12430.0	-8609.4	217.4	409728.20	780760.60
LTP (BANDANA FED COM #603H)	12431.4	-8559.4	217.0	409778.20	780760.20
FTP (BANDANA FED COM #603H)	12631.0	-840.1	155.0	417497.50	780698.20



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	
2600.2	12.00	169.55	2595.8	-61.6	11.4	61.9	62.6	Start 3505.0 hold at 2600.2 MD	
6105.2	12.00	169.55	6024.2	-778.5	143.6	781.9	791.6	Start Drop -2.00	
6705.4	0.00	0.00	6620.0	-840.1	155.0	843.7	854.3	Start 5533.7 hold at 6705.4 MD	
12239.1	0.00	0.00	12153.7	-840.1	155.0	843.7	854.3	Start DLS 12.00 TFO 179.54	
13002.3	91.58	179.54	12631.0	-1330.7	158.9	1334.3	1344.9	Start 7231.7 hold at 13002.3 MD	
20234.0	91.58	179.54	12431.4	-8559.4	217.0	8562.2	8573.8	Start 50.0 hold at 20234.0 MD	
20284.0	91.58	179.54	12430.0	-8609.4	217.4	8612.1	8623.8	TD at 20284.0	



**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. 23333
ORDER NO. R-22628-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-22628, which only approved the Composolary Pooling portion of the application.
3. Order R-22628 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-22628 is hereby superseded by this Order.
25. The Unit is approved as a non-standard horizontal spacing unit.

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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

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ORDER NO. R-22628-A

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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

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Exhibit A

COMPULSORY POOLING APPLICATION CHECKLIST	
ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS	
Case: 23333	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:	Bone Spring
Primary Product (Oil or Gas):	Oil
Pooling this vertical extent:	Base of the Avalon interval of the Bone Spring Formation to the base of the Bone Spring Formation
Pool Name and Pool Code:	Fairview Mills; Bone Spring Pool (Code 96340)
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 and is approval of non-standard unit requested in this application?	No. Approval of Non-Standard Spacing Unit requested in this application.
Other Situations	
Depth Severance: Y/N. If yes, description	Yes. COG seeks to pool interests from the base of the Avalon interval of the Bone Spring formation at a stratigraphic equivalent of approximately 10,625' to the base of the Bone Spring formation at a stratigraphic equivalent of approximately 12,671' as shown on the Jamaica 12 Federal 1 well log (API # 30-025-33451).
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 601H (API # ---) SHL: 2380' FNL & 1475' FEL (Unit G), Section 12, T25S, R34E BHL: 50' FSL & 1000' FEL (Unit P), Section 13, T25S, R34E Completion Target: Bone Spring (Approx. 12,682' TVD)

COG Operating LLC
Case No. 23333 Exhibit D-2

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Well #2	Bandana Fed Com 602H (API # ---) SHL: 2380' FNL & 1535' FEL (Unit G), Section 12, T25S, R34E BHL: 50' FSL & 2320' FEL (Unit O), Section 13, T25S, R34E Completion Target: Bone Spring (Approx. 12,654' TVD)
Well #3	Bandana Fed Com 603H (API # ---) SHL: 1896' FNL & 1493' FWL (Unit F), Section 12, T25S, R34E BHL: 50' FSL & 1640' FWL (Unit N), Section 13, T25S, R34E Completion Target: Bone Spring (Approx. 12,631' TVD)
Well #4	Bandana Fed Com 604H (API # ---) SHL: 1861' FNL & 1445' FWL (Unit F), Section 12, T25S, R34E BHL: 50' FSL & 330' FWL (Unit M), Section 13, T25S, R34E Completion Target: Bone Spring (Approx. 12,588' TVD)
Horizontal Well First and Last Take Points	Exhibit A-3
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)	Exhibit A-4
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

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Target Formation	Exhibit B	Page 7 of 11
HSU Cross Section	Exhibit B-3	
Depth Severance Discussion	Exhibit A	
Forms, Figures and Tables		
C-102	Exhibit A-3	
Tracts	Exhibit A-4	
Summary of Interests, Unit Recapitulation (Tracts)	Exhibit A-5	
General Location Map (including basin)	Exhibit B-1	
Well Bore Location Map	Exhibit B-1	
Structure Contour Map - Subsea Depth	Exhibit B-2	
Cross Section Location Map (including wells)	Exhibit B-3	
Cross Section (including Landing Zone)	Exhibit B-4	
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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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 240862

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 240862
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	8/11/2023