

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/602H

9. API Well No. 3002549795

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: 1270 ft FNL & 2320 ft FEL 24-25S-34E

Change BHL TO: 50 ft FSL & 2320 ft FEL SWSE 13-25S-34E NMNM108476 Lea Co, NM.

Change TD to: 20,370MD, 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 12/20/2022

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: SWNE / 2380 FNL / 1535 FEL / TWSP: 25S / RANGE: 34E / SECTION: 12 / LAT: 32.145667 / LONG: -103.420082 (TVD: 0 feet, MD: 0 feet)

PPP: NWSE / 2639 FSL / 2320 FEL / TWSP: 25S / RANGE: 34E / SECTION: 13 / LAT: 32.130461 / LONG: -103.422623 (TVD: 12528 feet, MD: 17781 feet)

PPP: NWSE / 2540 FSL / 2320 FEL / TWSP: 25S / RANGE: 34E / SECTION: 12 / LAT: 32.144686 / LONG: -103.422617 (TVD: 12523 feet, MD: 12600 feet)

BHL: NWNE / 1270 FNL / 2320 FEL / TWSP: 25S / RANGE: 34E / SECTION: 24 / LAT: 32.119699 / LONG: -103.422628 (TVD: 12430 feet, MD: 21596 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 30-025-49795	Pool Code 96340	Pool Name Fairview Mills; Bone Spring
Property Code 332421	Property Name BANDANA FEDERAL COM	Well Number 602H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3380.1'

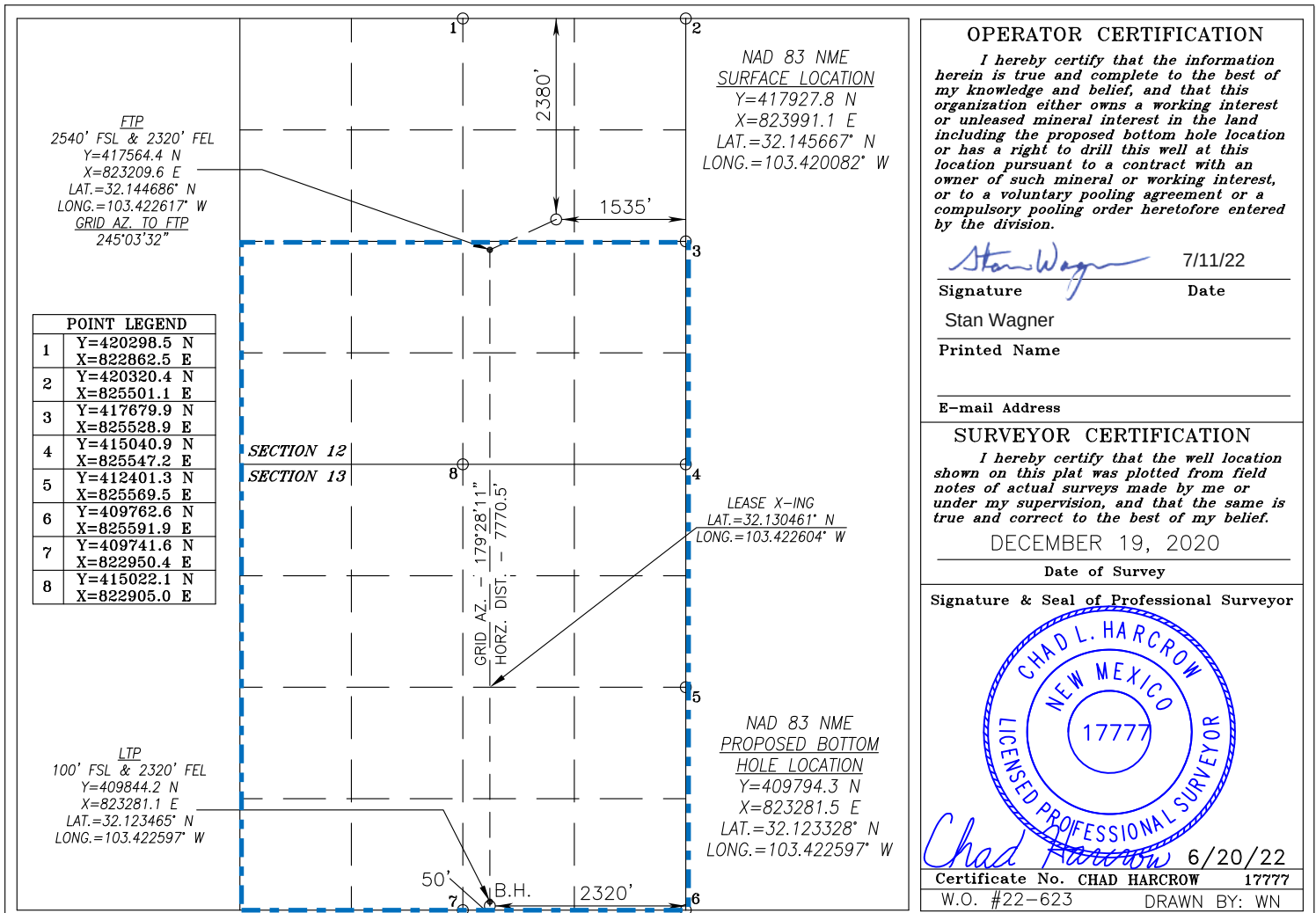
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	12	25-S	34-E		2380	NORTH	1535	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	13	25-S	34-E		50	SOUTH	2320	EAST	LEA
Dedicated Acres 960	Joint or Infill	Consolidation Code Com	Order No.						

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



DELAWARE BASIN EAST

**BULLDOG PROSPECT (NM-E)
BANDANA FEDERAL PROJECT
BANDANA FEDERAL COM #602H
300254979500
OWB
PWP0**

Anticollision Report

07 July, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	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	12,260.7	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction
12,260.7	20,307.0	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
Offset Well - Wellbore - Design						
BANDANA FEDERAL PROJECT						
*BANDANA FEDERAL COM #601H - OWB - PWP0	1,995.0	1,995.6	60.1	53.5	9.137	CC, ES, SF
BANDANA FEDERAL COM #603H - OWB - PWP0						Out of range
BANDANA FEDERAL COM #604H - OWB - PWP0						Out of range
BANDANA FEDERAL COM #702H - OWB - PWP0	1,995.0	1,993.9	30.0	23.4	4.561	CC, ES
BANDANA FEDERAL COM #702H - OWB - PWP0	2,185.0	2,184.5	33.5	25.8	4.359	SF
BANDANA FEDERAL COM #703H - OWB - PWP0	12,255.0	12,302.9	645.2	570.9	8.688	CC
BANDANA FEDERAL COM #703H - OWB - PWP0	20,307.0	20,603.1	704.4	560.7	4.904	ES, SF
BANDANA FEDERAL COM #704H - OWB - PWP0						Out of range
JAMAICA 12 FEDERAL #1 (P&A) - OWB - AWP						Out of range
GREEN EYESHAD FED PROJECT						
GREEN EYESHAD FEDERAL COM #601H - OWB - AW	0.0	0.0	536.9			
GREEN EYESHAD FEDERAL COM #601H - OWB - AW	5,035.0	4,979.1	992.5	971.8	47.762	SF
GREEN EYESHAD FEDERAL COM #601H - ST01 - AW	0.0	0.0	536.9			
GREEN EYESHAD FEDERAL COM #601H - ST01 - AW	5,035.0	4,979.1	992.5	971.8	47.762	SF
GREEN EYESHAD FEDERAL COM #602H - OWB - AW	12,616.6	12,609.3	213.1	163.7	4.315	CC, ES, SF
GREEN EYESHAD FEDERAL COM #603H - OWB - AW						Out of range
GREEN EYESHAD FEDERAL COM #702H - OWB - AW	3,755.2	3,768.0	278.0	263.3	18.970	CC
GREEN EYESHAD FEDERAL COM #702H - OWB - AW	3,800.0	3,811.7	278.1	263.3	18.692	ES
GREEN EYESHAD FEDERAL COM #702H - OWB - AW	12,305.9	12,258.0	700.9	653.8	14.884	SF
GREEN EYESHAD FEDERAL COM #703H - OWB - AW						Out of range
GREEN EYESHAD FEDERAL COM #704H - OWB - AW						Out of range

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
PITCHBLENDE 24-25 FEDERAL PROJECT						
PITCHBLENDE 24-25 FED 603H - OWB - PWP1						Out of range
PITCHBLENDE 24-25 FED 604H - OWB - PWP1	20,307.0	12,329.5	379.8	301.5	4.853	CC, ES, SF
PITCHBLENDE 24-25 FED 605H - OWB - PWP1	20,307.0	12,300.0	959.1	878.4	11.885	CC, ES, SF
PITCHBLENDE 24-25 FED 606H - OWB - PWP1						Out of range
PITCHBLENDE 24-25 FED 702H - OWB - PWP1						Out of range
PITCHBLENDE 24-25 FED 703H - OWB - PWP1	20,307.0	12,388.8	841.3	760.6	10.421	CC, ES, SF
PITCHBLENDE 24-25 FED 704H - OWB - PWP1	20,307.0	12,479.4	342.8	264.5	4.377	CC, ES, SF
PITCHBLENDE 24-25 FED 705H - OWB - PWP1						Out of range
PITCHBLENDE 24-25 FED 802H - OWB - PWP1						Out of range
PITCHBLENDE 24-25 FED 803H - OWB - PWP1	20,307.0	12,460.9	907.2	825.0	11.034	CC, ES, SF

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Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
BANDANA FEDERAL PROJECT						
*BANDANA FEDERAL COM #601H - OWB - PWP0	20,307.0	20,606.4				Out of Range @TD
BANDANA FEDERAL COM #603H - OWB - PWP0	20,307.0	20,284.0				Out of Range @TD
BANDANA FEDERAL COM #604H - OWB - PWP0	20,307.0	20,298.1				Out of Range @TD
BANDANA FEDERAL COM #702H - OWB - PWP0	20,307.0	20,527.1	717.6	574.8	5.024	
BANDANA FEDERAL COM #703H - OWB - PWP0	20,307.0	20,603.1	704.4	560.7	4.904	ES, SF
BANDANA FEDERAL COM #704H - OWB - PWP0	20,307.0	20,595.7				Out of Range @TD
JAMAICA 12 FEDERAL #1 (P&A) - AWP	20,307.0	12,424.5				Out of Range @TD
GREEN EYESHAD FED PROJECT						
GREEN EYESHAD FEDERAL COM #601H - OWB - AW	20,307.0	12,471.1				Out of Range @TD
GREEN EYESHAD FEDERAL COM #601H - ST01 - AW	20,307.0	12,159.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #602H - OWB - AW	20,307.0	12,205.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #603H - OWB - AW	20,307.0	12,185.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #702H - OWB - AW	20,307.0	12,444.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #703H - OWB - AW	20,307.0	12,372.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #704H - OWB - AW	20,307.0	12,468.0				Out of Range @TD
PITCHBLENDE 24-25 FEDERAL PROJECT						
PITCHBLENDE 24-25 FED 603H - OWB - PWP1	20,307.0	12,275.0				Out of Range @TD
PITCHBLENDE 24-25 FED 604H - OWB - PWP1	20,307.0	12,329.5	379.8	301.5	4.853	CC, ES, SF
PITCHBLENDE 24-25 FED 605H - OWB - PWP1	20,307.0	12,300.0	959.1	878.4	11.885	CC, ES, SF
PITCHBLENDE 24-25 FED 606H - OWB - PWP1	20,307.0	12,330.0				Out of Range @TD
PITCHBLENDE 24-25 FED 702H - OWB - PWP1	20,307.0	12,479.6				Out of Range @TD
PITCHBLENDE 24-25 FED 703H - OWB - PWP1	20,307.0	12,388.8	841.3	760.6	10.421	CC, ES, SF
PITCHBLENDE 24-25 FED 704H - OWB - PWP1	20,307.0	12,479.4	342.8	264.5	4.377	CC, ES, SF
PITCHBLENDE 24-25 FED 705H - OWB - PWP1	20,307.0	12,404.7				Out of Range @TD
PITCHBLENDE 24-25 FED 802H - OWB - PWP1	20,307.0	12,440.2				Out of Range @TD
PITCHBLENDE 24-25 FED 803H - OWB - PWP1	20,307.0	12,460.9	907.2	825.0	11.034	CC, ES, SF

Offset Design: BANDANA FEDERAL PROJECT - *BANDANA FEDERAL COM #601H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 12523-MWD+IFR1+FDIR													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.6	0.6	3.0	3.0	89.52	0.5	60.1	60.1				
95.0	95.0	95.6	95.6	3.0	3.0	89.52	0.5	60.1	60.1	54.1	6.00	10.017	
190.0	190.0	190.6	190.6	3.0	3.0	89.52	0.5	60.1	60.1	54.1	6.00	10.013	
285.0	285.0	285.6	285.6	3.0	3.0	89.52	0.5	60.1	60.1	54.1	6.01	10.004	

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - *BANDANA FEDERAL COM #601H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12523-MWD+IFR1+FDIR								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
380.0	380.0	380.6	380.6	3.0	3.0	3.0	89.52	0.5	60.1	60.1	54.1	6.02	9.990	
475.0	475.0	475.6	475.6	3.0	3.0	3.0	89.52	0.5	60.1	60.1	54.1	6.03	9.972	
570.0	570.0	570.6	570.6	3.1	3.1	3.1	89.52	0.5	60.1	60.1	54.1	6.04	9.948	
665.0	665.0	665.6	665.6	3.1	3.1	3.1	89.52	0.5	60.1	60.1	54.0	6.06	9.921	
760.0	760.0	760.6	760.6	3.1	3.1	3.1	89.52	0.5	60.1	60.1	54.0	6.08	9.888	
855.0	855.0	855.6	855.6	3.2	3.2	3.2	89.52	0.5	60.1	60.1	54.0	6.10	9.852	
950.0	950.0	950.6	950.6	3.2	3.2	3.2	89.52	0.5	60.1	60.1	54.0	6.13	9.811	
1,045.0	1,045.0	1,045.6	1,045.6	3.3	3.3	3.3	89.52	0.5	60.1	60.1	53.9	6.15	9.766	
1,140.0	1,140.0	1,140.6	1,140.6	3.3	3.3	3.3	89.52	0.5	60.1	60.1	53.9	6.19	9.717	
1,235.0	1,235.0	1,235.6	1,235.6	3.4	3.4	3.4	89.52	0.5	60.1	60.1	53.9	6.22	9.665	
1,330.0	1,330.0	1,330.6	1,330.6	3.4	3.4	3.4	89.52	0.5	60.1	60.1	53.8	6.25	9.609	
1,425.0	1,425.0	1,425.6	1,425.6	3.5	3.5	3.5	89.52	0.5	60.1	60.1	53.8	6.29	9.550	
1,520.0	1,520.0	1,520.6	1,520.6	3.6	3.6	3.6	89.52	0.5	60.1	60.1	53.8	6.33	9.488	
1,615.0	1,615.0	1,615.6	1,615.6	3.6	3.6	3.6	89.52	0.5	60.1	60.1	53.7	6.38	9.422	
1,710.0	1,710.0	1,710.6	1,710.6	3.7	3.7	3.7	89.52	0.5	60.1	60.1	53.7	6.42	9.355	
1,805.0	1,805.0	1,805.6	1,805.6	3.8	3.8	3.8	89.52	0.5	60.1	60.1	53.6	6.47	9.284	
1,900.0	1,900.0	1,900.6	1,900.6	3.9	3.9	3.9	89.52	0.5	60.1	60.1	53.6	6.52	9.212	
1,995.0	1,995.0	1,995.6	1,995.6	3.9	3.9	3.9	89.52	0.5	60.1	60.1	53.5	6.58	9.137 CC, ES, SF	
2,090.0	2,090.0	2,088.9	2,088.9	4.0	4.0	4.0	-155.44	-0.1	61.3	62.6	55.8	6.81	9.200	
2,185.0	2,184.9	2,181.6	2,181.5	4.2	4.0	4.0	-155.21	-2.2	65.2	70.7	63.2	7.49	9.447	
2,280.0	2,279.6	2,274.1	2,273.6	4.9	4.0	4.0	-154.93	-5.5	71.6	84.3	76.1	8.16	10.323	
2,375.0	2,373.9	2,367.5	2,366.7	5.5	4.0	4.0	-155.22	-9.3	78.8	101.4	92.6	8.79	11.534	
2,470.0	2,467.9	2,460.4	2,459.2	6.0	4.0	4.0	-155.99	-13.0	86.0	121.3	111.9	9.39	12.923	
2,565.0	2,561.3	2,552.6	2,551.1	6.5	4.0	4.0	-156.98	-16.8	93.1	144.1	134.1	9.96	14.462	
2,660.0	2,654.3	2,644.1	2,642.3	6.9	4.0	4.0	-158.10	-20.5	100.2	169.1	158.7	10.39	16.276	
2,755.0	2,747.2	2,735.7	2,733.5	7.1	4.1	4.1	-159.00	-24.2	107.3	194.4	183.8	10.67	18.222	
2,850.0	2,840.2	2,827.2	2,824.7	7.3	4.1	4.1	-159.70	-27.8	114.3	219.8	208.9	10.91	20.148	
2,945.0	2,933.1	2,918.7	2,915.8	7.5	4.1	4.1	-160.26	-31.5	121.4	245.2	234.0	11.16	21.969	
3,040.0	3,026.0	3,010.2	3,007.0	7.7	4.1	4.1	-160.71	-35.2	128.5	270.6	259.1	11.42	23.687	
3,135.0	3,118.9	3,101.7	3,098.2	7.9	4.2	4.2	-161.08	-38.9	135.6	296.0	284.3	11.70	25.302	
3,230.0	3,211.9	3,193.3	3,189.4	8.1	4.2	4.2	-161.39	-42.6	142.6	321.4	309.4	11.98	26.818	
3,325.0	3,304.8	3,284.8	3,280.5	8.3	4.3	4.3	-161.66	-46.3	149.7	346.8	334.5	12.28	28.239	
3,420.0	3,397.7	3,376.3	3,371.7	8.6	4.3	4.3	-161.89	-50.0	156.8	372.2	359.6	12.59	29.570	
3,515.0	3,490.6	3,467.8	3,462.9	8.8	4.4	4.4	-162.09	-53.7	163.8	397.7	384.8	12.90	30.816	
3,610.0	3,583.5	3,559.4	3,554.1	9.1	4.4	4.4	-162.27	-57.4	170.9	423.1	409.9	13.23	31.981	
3,705.0	3,676.5	3,650.9	3,645.2	9.4	4.5	4.5	-162.43	-61.1	178.0	448.5	435.0	13.56	33.071	
3,800.0	3,769.4	3,742.4	3,736.4	9.6	4.5	4.5	-162.57	-64.8	185.0	474.0	460.1	13.90	34.090	
3,895.0	3,862.3	3,833.9	3,827.6	9.9	4.6	4.6	-162.70	-68.5	192.1	499.4	485.2	14.25	35.043	
3,990.0	3,955.2	3,925.5	3,918.8	10.2	4.7	4.7	-162.81	-72.2	199.2	524.9	510.3	14.61	35.934	
4,085.0	4,048.2	4,017.0	4,009.9	10.5	4.7	4.7	-162.91	-75.9	206.3	550.3	535.4	14.97	36.769	
4,180.0	4,141.1	4,108.5	4,101.1	10.8	4.8	4.8	-163.01	-79.6	213.3	575.8	560.4	15.33	37.550	
4,275.0	4,234.0	4,200.0	4,192.3	11.1	4.9	4.9	-163.09	-83.3	220.4	601.2	585.5	15.70	38.283	
4,370.0	4,326.9	4,291.5	4,283.5	11.4	4.9	4.9	-163.17	-87.0	227.5	626.7	610.6	16.08	38.965	
4,465.0	4,419.9	4,383.1	4,374.6	11.7	5.0	5.0	-163.25	-90.7	234.5	652.1	635.7	16.46	39.612	
4,560.0	4,512.8	4,474.6	4,465.8	12.0	5.1	5.1	-163.31	-94.3	241.6	677.6	660.7	16.85	40.217	
4,655.0	4,605.7	4,566.1	4,557.0	12.3	5.1	5.1	-163.38	-98.0	248.7	703.0	685.8	17.24	40.785	
4,750.0	4,698.6	4,657.6	4,648.2	12.7	5.2	5.2	-163.44	-101.7	255.7	728.5	710.9	17.63	41.319	
4,845.0	4,791.6	4,749.2	4,739.3	13.0	5.3	5.3	-163.49	-105.4	262.8	754.0	735.9	18.03	41.822	
4,940.0	4,884.5	4,840.7	4,830.5	13.3	5.4	5.4	-163.54	-109.1	269.9	779.4	761.0	18.43	42.296	
5,035.0	4,977.4	4,932.2	4,921.7	13.6	5.5	5.5	-163.59	-112.8	276.9	804.9	786.0	18.83	42.742	
5,130.0	5,070.3	5,023.7	5,012.9	14.0	5.5	5.5	-163.63	-116.5	284.0	830.3	811.1	19.24	43.163	
5,225.0	5,163.3	5,115.3	5,104.0	14.3	5.6	5.6	-163.67	-120.2	291.1	855.8	836.2	19.65	43.560	

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - *BANDANA FEDERAL COM #601H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12523-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				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		
5,320.0	5,256.2	5,206.8	5,195.2	14.6	5.7	-163.71	-123.9	298.2	881.3	861.2	20.06	43.936		
5,415.0	5,349.1	5,298.3	5,286.4	15.0	5.8	-163.75	-127.6	305.2	906.7	886.2	20.47	44.291		
5,510.0	5,442.0	5,389.8	5,377.6	15.3	5.9	-163.79	-131.3	312.3	932.2	911.3	20.89	44.627		
5,605.0	5,534.9	5,481.3	5,468.7	15.6	6.0	-163.82	-135.0	319.4	957.6	936.3	21.31	44.945		
5,700.0	5,627.9	5,572.9	5,559.9	16.0	6.1	-163.85	-138.7	326.4	983.1	961.4	21.73	45.246		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	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 #702H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12480-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	89.81	0.1	30.0	30.0				
95.0	95.0	93.9	93.9	3.0	3.0	3.0	89.81	0.1	30.0	30.0	24.0	6.00	5.000	
190.0	190.0	188.9	188.9	3.0	3.0	3.0	89.81	0.1	30.0	30.0	24.0	6.00	4.998	
285.0	285.0	283.9	283.9	3.0	3.0	3.0	89.81	0.1	30.0	30.0	24.0	6.01	4.994	
380.0	380.0	378.9	378.9	3.0	3.0	3.0	89.81	0.1	30.0	30.0	24.0	6.02	4.987	
475.0	475.0	473.9	473.9	3.0	3.0	3.0	89.81	0.1	30.0	30.0	24.0	6.03	4.977	
570.0	570.0	568.9	568.9	3.1	3.1	3.1	89.81	0.1	30.0	30.0	24.0	6.04	4.966	
665.0	665.0	663.9	663.9	3.1	3.1	3.1	89.81	0.1	30.0	30.0	23.9	6.06	4.952	
760.0	760.0	758.9	758.9	3.1	3.1	3.1	89.81	0.1	30.0	30.0	23.9	6.08	4.936	
855.0	855.0	853.9	853.9	3.2	3.2	3.2	89.81	0.1	30.0	30.0	23.9	6.10	4.918	
950.0	950.0	948.9	948.9	3.2	3.2	3.2	89.81	0.1	30.0	30.0	23.9	6.13	4.897	
1,045.0	1,045.0	1,043.9	1,043.9	3.3	3.3	3.3	89.81	0.1	30.0	30.0	23.8	6.15	4.875	
1,140.0	1,140.0	1,138.9	1,138.9	3.3	3.3	3.3	89.81	0.1	30.0	30.0	23.8	6.18	4.851	
1,235.0	1,235.0	1,233.9	1,233.9	3.4	3.4	3.4	89.81	0.1	30.0	30.0	23.8	6.22	4.825	
1,330.0	1,330.0	1,328.9	1,328.9	3.4	3.4	3.4	89.81	0.1	30.0	30.0	23.7	6.25	4.797	
1,425.0	1,425.0	1,423.9	1,423.9	3.5	3.5	3.5	89.81	0.1	30.0	30.0	23.7	6.29	4.767	
1,520.0	1,520.0	1,518.9	1,518.9	3.6	3.6	3.6	89.81	0.1	30.0	30.0	23.7	6.33	4.736	
1,615.0	1,615.0	1,613.9	1,613.9	3.6	3.6	3.6	89.81	0.1	30.0	30.0	23.6	6.38	4.704	
1,710.0	1,710.0	1,708.9	1,708.9	3.7	3.7	3.7	89.81	0.1	30.0	30.0	23.6	6.42	4.670	
1,805.0	1,805.0	1,803.9	1,803.9	3.8	3.8	3.8	89.81	0.1	30.0	30.0	23.5	6.47	4.635	
1,900.0	1,900.0	1,898.9	1,898.9	3.9	3.9	3.9	89.81	0.1	30.0	30.0	23.5	6.52	4.599	
1,995.0	1,995.0	1,993.9	1,993.9	3.9	3.9	3.9	89.81	0.1	30.0	30.0	23.4	6.58	4.561 CC, ES	
2,090.0	2,090.0	2,089.2	2,089.2	4.0	4.1	-153.92	-153.92	-1.2	29.5	30.8	24.0	6.86	4.494	
2,185.0	2,184.9	2,184.5	2,184.3	4.2	4.6	-149.97	-149.97	-5.5	28.0	33.5	25.8	7.69	4.359 SF	
2,280.0	2,279.6	2,279.5	2,279.1	4.9	5.2	-144.57	-144.57	-12.7	25.3	38.3	29.9	8.41	4.560	
2,375.0	2,373.9	2,374.2	2,373.3	5.5	5.5	-140.15	-140.15	-21.9	21.9	45.6	36.7	8.99	5.076	
2,470.0	2,467.9	2,468.7	2,467.2	6.0	5.7	-139.05	-139.05	-31.2	18.5	55.5	45.8	9.63	5.760	
2,565.0	2,561.3	2,562.9	2,560.9	6.5	5.9	-140.00	-140.00	-40.5	15.1	67.7	57.3	10.35	6.538	
2,660.0	2,654.3	2,656.8	2,654.3	6.9	6.0	-141.82	-141.82	-49.7	11.8	81.8	70.8	11.01	7.433	
2,755.0	2,747.2	2,750.7	2,747.7	7.1	6.2	-143.24	-143.24	-58.9	8.4	96.2	84.7	11.54	8.342	
2,850.0	2,840.2	2,844.6	2,841.0	7.3	6.4	-144.28	-144.28	-68.1	5.0	110.7	98.7	12.02	9.207	
2,945.0	2,933.1	2,938.5	2,934.4	7.5	6.6	-145.08	-145.08	-77.3	1.6	125.2	112.6	12.52	9.997	
3,040.0	3,026.0	3,032.3	3,027.8	7.7	6.8	-145.72	-145.72	-86.6	-1.8	139.7	126.6	13.03	10.718	
3,135.0	3,118.9	3,126.2	3,121.1	7.9	7.0	-146.24	-146.24	-95.8	-5.1	154.2	140.6	13.55	11.375	
3,230.0	3,211.9	3,220.1	3,214.5	8.1	7.2	-146.66	-146.66	-105.0	-8.5	168.7	154.6	14.09	11.972	
3,325.0	3,304.8	3,314.0	3,307.9	8.3	7.5	-147.02	-147.02	-114.2	-11.9	183.2	168.6	14.64	12.516	
3,420.0	3,397.7	3,407.8	3,401.2	8.6	7.7	-147.33	-147.33	-123.4	-15.3	197.7	182.5	15.20	13.011	
3,515.0	3,490.6	3,501.7	3,494.6	8.8	8.0	-147.60	-147.60	-132.7	-18.7	212.3	196.5	15.77	13.462	
3,610.0	3,583.5	3,595.6	3,587.9	9.1	8.2	-147.83	-147.83	-141.9	-22.0	226.8	210.5	16.35	13.874	
3,705.0	3,676.5	3,689.5	3,681.3	9.4	8.5	-148.03	-148.03	-151.1	-25.4	241.3	224.4	16.94	14.250	
3,800.0	3,769.4	3,783.4	3,774.7	9.6	8.8	-148.21	-148.21	-160.3	-28.8	255.9	238.3	17.53	14.594	
3,895.0	3,862.3	3,877.2	3,868.0	9.9	9.1	-148.37	-148.37	-169.5	-32.2	270.4	252.3	18.14	14.909	
3,990.0	3,955.2	3,971.1	3,961.4	10.2	9.4	-148.51	-148.51	-178.8	-35.6	285.0	266.2	18.75	15.198	
4,085.0	4,048.2	4,065.0	4,054.8	10.5	9.6	-148.65	-148.65	-188.0	-38.9	299.5	280.2	19.37	15.464	
4,180.0	4,141.1	4,158.9	4,148.1	10.8	9.9	-148.76	-148.76	-197.2	-42.3	314.1	294.1	19.99	15.710	
4,275.0	4,234.0	4,252.7	4,241.5	11.1	10.2	-148.87	-148.87	-206.4	-45.7	328.6	308.0	20.62	15.936	
4,370.0	4,326.9	4,346.6	4,334.8	11.4	10.5	-148.97	-148.97	-215.6	-49.1	343.2	321.9	21.26	16.146	
4,465.0	4,419.9	4,440.5	4,428.2	11.7	10.8	-149.06	-149.06	-224.9	-52.5	357.7	335.8	21.89	16.339	
4,560.0	4,512.8	4,534.4	4,521.6	12.0	11.1	-149.14	-149.14	-234.1	-55.8	372.3	349.8	22.54	16.518	
4,655.0	4,605.7	4,628.2	4,614.9	12.3	11.5	-149.22	-149.22	-243.3	-59.2	386.8	363.7	23.18	16.685	
4,750.0	4,698.6	4,722.1	4,708.3	12.7	11.8	-149.29	-149.29	-252.5	-62.6	401.4	377.6	23.84	16.841	
4,845.0	4,791.6	4,816.0	4,801.6	13.0	12.1	-149.36	-149.36	-261.7	-66.0	416.0	391.5	24.49	16.985	

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	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 #702H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12480-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	4,909.9	4,895.0	13.3	12.4	-149.42	-271.0	-69.4	430.5	405.4	25.15	17.121	
5,035.0	4,977.4	5,003.8	4,988.4	13.6	12.7	-149.48	-280.2	-72.7	445.1	419.3	25.81	17.247	
5,130.0	5,070.3	5,097.6	5,081.7	14.0	13.0	-149.53	-289.4	-76.1	459.6	433.2	26.47	17.365	
5,225.0	5,163.3	5,191.5	5,175.1	14.3	13.3	-149.58	-298.6	-79.5	474.2	447.1	27.13	17.477	
5,320.0	5,256.2	5,285.4	5,268.5	14.6	13.7	-149.63	-307.8	-82.9	488.7	460.9	27.80	17.581	
5,415.0	5,349.1	5,379.3	5,361.8	15.0	14.0	-149.68	-317.1	-86.3	503.3	474.8	28.47	17.679	
5,510.0	5,442.0	5,473.1	5,455.2	15.3	14.3	-149.72	-326.3	-89.6	517.9	488.7	29.14	17.771	
5,605.0	5,534.9	5,565.5	5,547.0	15.6	14.6	-149.80	-335.0	-92.9	532.5	502.7	29.80	17.867	
5,700.0	5,627.9	5,656.9	5,638.2	16.0	14.9	-150.01	-342.4	-95.5	547.6	517.1	30.46	17.974	
5,795.0	5,720.8	5,748.2	5,729.2	16.3	15.2	-150.36	-348.3	-97.7	563.0	531.9	31.12	18.089	
5,890.0	5,813.8	5,839.3	5,820.1	16.6	15.6	-150.86	-352.9	-99.4	578.7	547.0	31.77	18.218	
5,985.0	5,907.0	5,930.3	5,911.1	17.0	15.9	-151.44	-356.2	-100.6	593.7	561.3	32.41	18.317	
6,080.0	6,000.5	6,021.2	6,002.0	17.3	16.2	-152.05	-358.1	-101.3	607.8	574.8	33.05	18.390	
6,175.0	6,094.3	6,112.4	6,093.2	17.6	16.4	-152.69	-358.6	-101.5	621.1	587.4	33.66	18.449	
6,270.0	6,188.3	6,206.5	6,187.2	18.0	16.7	-153.31	-358.6	-101.5	633.1	598.9	34.28	18.468	
6,365.0	6,282.6	6,300.7	6,281.5	18.3	17.0	-153.83	-358.6	-101.5	643.9	609.0	34.90	18.449	
6,460.0	6,377.0	6,395.1	6,375.9	18.6	17.3	-154.28	-358.6	-101.5	653.3	617.7	35.52	18.392	
6,555.0	6,471.6	6,489.7	6,470.5	19.0	17.6	-154.64	-358.6	-101.5	661.3	625.1	36.13	18.300	
6,650.0	6,566.3	6,584.4	6,565.2	19.3	17.9	-154.94	-358.6	-101.5	667.8	631.1	36.75	18.173	
6,745.0	6,661.1	6,679.3	6,660.0	19.6	18.2	-155.17	-358.6	-101.5	673.0	635.7	37.36	18.014	
6,840.0	6,756.1	6,774.2	6,755.0	19.9	18.5	-155.33	-358.6	-101.5	676.8	638.8	37.97	17.823	
6,935.0	6,851.0	6,869.1	6,849.9	20.2	18.8	-155.43	-358.6	-101.5	679.1	640.5	38.58	17.602	
7,030.0	6,946.0	6,964.1	6,944.9	20.5	19.1	-155.47	-358.6	-101.5	680.0	640.8	39.18	17.356	
7,125.0	7,041.0	7,059.1	7,039.9	20.8	19.4	89.59	-358.6	-101.5	680.0	640.3	39.75	17.107	
7,220.0	7,136.0	7,154.1	7,134.9	21.1	19.7	89.59	-358.6	-101.5	680.0	639.7	40.33	16.862	
7,315.0	7,231.0	7,249.1	7,229.9	21.4	20.0	89.59	-358.6	-101.5	680.0	639.1	40.91	16.622	
7,410.0	7,326.0	7,344.1	7,324.9	21.6	20.3	89.59	-358.6	-101.5	680.0	638.5	41.50	16.387	
7,505.0	7,421.0	7,439.1	7,419.9	21.9	20.6	89.59	-358.6	-101.5	680.0	637.9	42.08	16.158	
7,600.0	7,516.0	7,534.1	7,514.9	22.2	20.9	89.59	-358.6	-101.5	680.0	637.3	42.68	15.934	
7,695.0	7,611.0	7,629.1	7,609.9	22.5	21.2	89.59	-358.6	-101.5	680.0	636.7	43.27	15.716	
7,790.0	7,706.0	7,724.1	7,704.9	22.8	21.6	89.59	-358.6	-101.5	680.0	636.2	43.87	15.502	
7,885.0	7,801.0	7,819.1	7,799.9	23.0	21.9	89.59	-358.6	-101.5	680.0	635.6	44.47	15.293	
7,980.0	7,896.0	7,914.1	7,894.9	23.3	22.2	89.59	-358.6	-101.5	680.0	635.0	45.07	15.089	
8,075.0	7,991.0	8,009.1	7,989.9	23.6	22.5	89.59	-358.6	-101.5	680.0	634.3	45.67	14.890	
8,170.0	8,086.0	8,104.1	8,084.9	23.9	22.8	89.59	-358.6	-101.5	680.0	633.7	46.27	14.695	
8,265.0	8,181.0	8,199.1	8,179.9	24.2	23.1	89.59	-358.6	-101.5	680.0	633.1	46.88	14.505	
8,360.0	8,276.0	8,294.1	8,274.9	24.5	23.4	89.59	-358.6	-101.5	680.0	632.5	47.49	14.319	
8,455.0	8,371.0	8,389.1	8,369.9	24.8	23.8	89.59	-358.6	-101.5	680.0	631.9	48.10	14.137	
8,550.0	8,466.0	8,484.1	8,464.9	25.1	24.1	89.59	-358.6	-101.5	680.0	631.3	48.72	13.959	
8,645.0	8,561.0	8,579.1	8,559.9	25.4	24.4	89.59	-358.6	-101.5	680.0	630.7	49.33	13.785	
8,740.0	8,656.0	8,674.1	8,654.9	25.7	24.7	89.59	-358.6	-101.5	680.0	630.1	49.95	13.615	
8,835.0	8,751.0	8,769.1	8,749.9	26.0	25.0	89.59	-358.6	-101.5	680.0	629.5	50.57	13.448	
8,930.0	8,846.0	8,864.1	8,844.9	26.3	25.4	89.59	-358.6	-101.5	680.0	628.8	51.19	13.285	
9,025.0	8,941.0	8,959.1	8,939.9	26.6	25.7	89.59	-358.6	-101.5	680.0	628.2	51.81	13.126	
9,120.0	9,036.0	9,054.1	9,034.9	26.9	26.0	89.59	-358.6	-101.5	680.0	627.6	52.43	12.970	
9,215.0	9,131.0	9,149.1	9,129.9	27.2	26.3	89.59	-358.6	-101.5	680.0	627.0	53.05	12.817	
9,310.0	9,226.0	9,244.1	9,224.9	27.5	26.6	89.59	-358.6	-101.5	680.0	626.3	53.68	12.668	
9,405.0	9,321.0	9,339.1	9,319.9	27.8	27.0	89.59	-358.6	-101.5	680.0	625.7	54.31	12.522	
9,500.0	9,416.0	9,434.1	9,414.9	28.1	27.3	89.59	-358.6	-101.5	680.0	625.1	54.94	12.379	
9,595.0	9,511.0	9,529.1	9,509.9	28.4	27.6	89.59	-358.6	-101.5	680.0	624.5	55.56	12.238	
9,690.0	9,606.0	9,624.1	9,604.9	28.7	27.9	89.59	-358.6	-101.5	680.0	623.8	56.20	12.101	
9,785.0	9,701.0	9,719.1	9,699.9	29.0	28.3	89.59	-358.6	-101.5	680.0	623.2	56.83	11.966	

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	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 #702H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12480-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	9,796.0	9,814.1	9,794.9	29.3	28.6	89.59	-358.6	-101.5	680.0	622.6	57.46	11.835		
9,975.0	9,891.0	9,909.1	9,889.9	29.6	28.9	89.59	-358.6	-101.5	680.0	621.9	58.09	11.705		
10,070.0	9,986.0	10,004.1	9,984.9	29.9	29.2	89.59	-358.6	-101.5	680.0	621.3	58.73	11.579		
10,165.0	10,081.0	10,099.1	10,079.9	30.3	29.6	89.59	-358.6	-101.5	680.0	620.7	59.37	11.455		
10,260.0	10,176.0	10,194.1	10,174.9	30.6	29.9	89.59	-358.6	-101.5	680.0	620.0	60.00	11.333		
10,355.0	10,271.0	10,289.1	10,269.9	30.9	30.2	89.59	-358.6	-101.5	680.0	619.4	60.64	11.214		
10,450.0	10,366.0	10,384.1	10,364.9	31.2	30.5	89.59	-358.6	-101.5	680.0	618.7	61.28	11.097		
10,545.0	10,461.0	10,479.1	10,459.9	31.5	30.9	89.59	-358.6	-101.5	680.0	618.1	61.92	10.982		
10,640.0	10,556.0	10,574.1	10,554.9	31.8	31.2	89.59	-358.6	-101.5	680.0	617.5	62.56	10.870		
10,735.0	10,651.0	10,669.1	10,649.9	32.1	31.5	89.59	-358.6	-101.5	680.0	616.8	63.20	10.760		
10,830.0	10,746.0	10,764.1	10,744.9	32.5	31.8	89.59	-358.6	-101.5	680.0	616.2	63.84	10.651		
10,925.0	10,841.0	10,859.1	10,839.9	32.8	32.2	89.59	-358.6	-101.5	680.0	615.5	64.49	10.545		
11,020.0	10,936.0	10,954.1	10,934.9	33.1	32.5	89.59	-358.6	-101.5	680.0	614.9	65.13	10.441		
11,115.0	11,031.0	11,049.1	11,029.9	33.4	32.8	89.59	-358.6	-101.5	680.0	614.2	65.78	10.338		
11,210.0	11,126.0	11,144.1	11,124.9	33.7	33.2	89.59	-358.6	-101.5	680.0	613.6	66.42	10.238		
11,305.0	11,221.0	11,239.1	11,219.9	34.0	33.5	89.59	-358.6	-101.5	680.0	613.0	67.07	10.139		
11,400.0	11,316.0	11,334.1	11,314.9	34.4	33.8	89.59	-358.6	-101.5	680.0	612.3	67.71	10.043		
11,495.0	11,411.0	11,429.1	11,409.9	34.7	34.1	89.59	-358.6	-101.5	680.0	611.7	68.36	9.947		
11,590.0	11,506.0	11,524.1	11,504.9	35.0	34.5	89.59	-358.6	-101.5	680.0	611.0	69.01	9.854		
11,685.0	11,601.0	11,619.1	11,599.9	35.3	34.8	89.59	-358.6	-101.5	680.0	610.4	69.66	9.762		
11,780.0	11,696.0	11,714.1	11,694.9	35.6	35.1	89.59	-358.6	-101.5	680.0	609.7	70.31	9.672		
11,875.0	11,791.0	11,809.1	11,789.9	36.0	35.5	89.59	-358.6	-101.5	680.0	609.1	70.96	9.584		
11,970.0	11,886.0	11,904.1	11,884.9	36.3	35.8	89.59	-358.6	-101.5	680.0	608.4	71.61	9.496		
12,065.0	11,981.0	11,999.1	11,979.9	36.6	36.1	89.59	-358.6	-101.5	680.0	607.8	72.26	9.411		
12,160.0	12,076.0	12,094.1	12,074.9	36.9	36.5	89.59	-358.6	-101.5	680.0	607.1	72.91	9.327		
12,255.0	12,171.0	12,189.1	12,169.9	37.2	36.8	89.59	-358.6	-101.5	680.0	606.5	73.47	9.256		
12,292.2	12,208.2	12,226.3	12,207.1	37.2	36.9	-90.00	-358.6	-101.5	680.0	606.4	73.61	9.239		
12,350.0	12,265.5	12,283.6	12,264.4	37.2	37.1	-90.58	-358.6	-101.5	680.1	606.2	73.83	9.211		
12,445.0	12,356.5	12,374.6	12,355.4	37.2	37.4	-92.63	-358.6	-101.5	680.9	606.7	74.20	9.176		
12,540.0	12,440.4	12,458.5	12,439.3	37.2	37.6	-95.46	-358.6	-101.5	684.5	610.0	74.48	9.190		
12,635.0	12,513.9	12,552.7	12,533.2	37.2	37.7	-99.04	-364.1	-101.5	693.1	618.4	74.70	9.278		
12,730.0	12,574.0	12,670.9	12,646.7	37.3	37.7	-103.05	-396.3	-101.2	705.6	630.8	74.88	9.424		
12,825.0	12,618.5	12,819.9	12,772.7	37.4	37.8	-107.29	-474.5	-100.6	720.0	645.3	74.74	9.633		
12,920.0	12,645.6	13,011.1	12,889.0	37.5	37.9	-111.13	-624.7	-99.4	732.2	658.0	74.16	9.872		
13,015.0	12,654.2	13,239.4	12,938.2	37.6	38.0	-112.77	-845.4	-97.6	736.8	662.9	73.87	9.974		
13,110.0	12,651.4	13,338.7	12,934.8	37.7	38.1	-112.74	-944.6	-96.9	736.5	662.4	74.11	9.938		
13,205.0	12,648.5	13,433.7	12,931.5	37.8	38.2	-112.72	-1,039.6	-96.1	736.3	661.9	74.37	9.900		
13,300.0	12,645.6	13,528.7	12,928.2	38.0	38.3	-112.70	-1,134.5	-95.4	736.0	661.3	74.66	9.858		
13,395.0	12,642.6	13,623.7	12,924.9	38.1	38.4	-112.67	-1,229.4	-94.6	735.8	660.8	74.98	9.813		
13,490.0	12,639.7	13,718.7	12,921.7	38.3	38.5	-112.65	-1,324.4	-93.9	735.5	660.2	75.32	9.765		
13,585.0	12,636.8	13,813.7	12,918.4	38.5	38.7	-112.63	-1,419.3	-93.1	735.2	659.5	75.69	9.713		
13,680.0	12,633.9	13,908.7	12,915.1	38.7	38.9	-112.61	-1,514.3	-92.4	735.0	658.9	76.09	9.659		
13,775.0	12,630.9	14,003.7	12,911.8	38.9	39.0	-112.58	-1,609.2	-91.6	734.7	658.2	76.51	9.603		
13,870.0	12,628.0	14,098.7	12,908.5	39.1	39.2	-112.56	-1,704.1	-90.8	734.5	657.5	76.96	9.543		
13,965.0	12,625.1	14,193.7	12,905.2	39.4	39.5	-112.54	-1,799.1	-90.1	734.2	656.8	77.44	9.482		
14,060.0	12,622.2	14,288.7	12,901.9	39.6	39.7	-112.51	-1,894.0	-89.3	734.0	656.0	77.93	9.418		
14,155.0	12,619.3	14,383.7	12,898.6	39.9	39.9	-112.49	-1,989.0	-88.6	733.7	655.3	78.45	9.352		
14,250.0	12,616.3	14,478.7	12,895.4	40.1	40.2	-112.47	-2,083.9	-87.8	733.5	654.5	79.00	9.284		
14,345.0	12,613.4	14,573.7	12,892.1	40.4	40.5	-112.45	-2,178.8	-87.1	733.2	653.6	79.57	9.215		
14,440.0	12,610.5	14,668.7	12,888.8	40.7	40.8	-112.42	-2,273.8	-86.3	733.0	652.8	80.16	9.144		
14,535.0	12,607.6	14,763.7	12,885.5	41.0	41.1	-112.40	-2,368.7	-85.6	732.7	651.9	80.77	9.072		
14,630.0	12,604.6	14,858.7	12,882.2	41.3	41.4	-112.38	-2,463.7	-84.8	732.5	651.0	81.40	8.998		

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	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 #702H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12480-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	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre	Distance	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,725.0	12,601.7	14,953.7	12,878.9	41.7	41.7	-112.35	-2,558.6	-84.1	732.2	650.1	82.05	8.923		
14,820.0	12,598.8	15,048.7	12,875.6	42.0	42.0	-112.33	-2,653.5	-83.3	731.9	649.2	82.73	8.848		
14,915.0	12,595.9	15,143.7	12,872.3	42.3	42.3	-112.31	-2,748.5	-82.6	731.7	648.3	83.42	8.771		
15,010.0	12,592.9	15,238.7	12,869.0	42.7	42.7	-112.29	-2,843.4	-81.8	731.4	647.3	84.14	8.694		
15,105.0	12,590.0	15,333.7	12,865.8	43.0	43.1	-112.26	-2,938.4	-81.1	731.2	646.3	84.87	8.616		
15,200.0	12,587.1	15,428.7	12,862.5	43.4	43.4	-112.24	-3,033.3	-80.3	730.9	645.3	85.62	8.537		
15,295.0	12,584.2	15,523.7	12,859.2	43.8	43.8	-112.22	-3,128.2	-79.6	730.7	644.3	86.39	8.458		
15,390.0	12,581.3	15,618.7	12,855.9	44.2	44.2	-112.19	-3,223.2	-78.8	730.4	643.3	87.17	8.379		
15,485.0	12,578.3	15,713.7	12,852.6	44.6	44.6	-112.17	-3,318.1	-78.1	730.2	642.2	87.98	8.300		
15,580.0	12,575.4	15,808.7	12,849.3	45.0	45.0	-112.15	-3,413.1	-77.3	729.9	641.1	88.80	8.220		
15,675.0	12,572.5	15,903.7	12,846.0	45.4	45.4	-112.13	-3,508.0	-76.6	729.7	640.0	89.63	8.141		
15,770.0	12,569.6	15,998.7	12,842.7	45.8	45.8	-112.10	-3,602.9	-75.8	729.4	638.9	90.49	8.061		
15,865.0	12,566.6	16,093.7	12,839.4	46.2	46.2	-112.08	-3,697.9	-75.1	729.2	637.8	91.35	7.982		
15,960.0	12,563.7	16,188.6	12,836.2	46.7	46.7	-112.06	-3,792.8	-74.3	728.9	636.7	92.23	7.903		
16,055.0	12,560.8	16,283.6	12,832.9	47.1	47.1	-112.03	-3,887.7	-73.6	728.7	635.5	93.13	7.824		
16,150.0	12,557.9	16,378.6	12,829.6	47.6	47.6	-112.01	-3,982.7	-72.8	728.4	634.4	94.04	7.746		
16,245.0	12,555.0	16,473.6	12,826.3	48.0	48.0	-111.99	-4,077.6	-72.1	728.2	633.2	94.97	7.668		
16,340.0	12,552.0	16,568.6	12,823.0	48.5	48.5	-111.96	-4,172.6	-71.3	727.9	632.0	95.90	7.590		
16,435.0	12,549.1	16,663.6	12,819.7	48.9	48.9	-111.94	-4,267.5	-70.6	727.7	630.8	96.85	7.513		
16,530.0	12,546.2	16,758.6	12,816.4	49.4	49.4	-111.92	-4,362.4	-69.8	727.4	629.6	97.81	7.437		
16,625.0	12,543.3	16,853.6	12,813.1	49.9	49.9	-111.89	-4,457.4	-69.1	727.2	628.4	98.79	7.361		
16,720.0	12,540.3	16,948.6	12,809.9	50.4	50.4	-111.87	-4,552.3	-68.3	726.9	627.1	99.77	7.286		
16,815.0	12,537.4	17,043.6	12,806.6	50.9	50.9	-111.85	-4,647.3	-67.6	726.7	625.9	100.77	7.211		
16,910.0	12,534.5	17,138.6	12,803.3	51.4	51.4	-111.83	-4,742.2	-66.8	726.4	624.6	101.78	7.137		
17,005.0	12,531.6	17,233.6	12,800.0	51.9	51.9	-111.80	-4,837.1	-66.1	726.2	623.4	102.80	7.064		
17,100.0	12,528.7	17,328.6	12,796.7	52.4	52.4	-111.78	-4,932.1	-65.3	725.9	622.1	103.82	6.992		
17,195.0	12,525.7	17,423.6	12,793.4	52.9	52.9	-111.76	-5,027.0	-64.5	725.7	620.8	104.86	6.920		
17,290.0	12,522.8	17,518.6	12,790.1	53.4	53.4	-111.73	-5,122.0	-63.8	725.4	619.5	105.91	6.849		
17,385.0	12,519.9	17,613.6	12,786.8	53.9	53.9	-111.71	-5,216.9	-63.0	725.2	618.2	106.97	6.779		
17,480.0	12,517.0	17,708.6	12,783.5	54.5	54.5	-111.69	-5,311.8	-62.3	724.9	616.9	108.04	6.710		
17,575.0	12,514.0	17,803.6	12,780.3	55.0	55.0	-111.66	-5,406.8	-61.5	724.7	615.5	109.11	6.641		
17,670.0	12,511.1	17,898.6	12,777.0	55.5	55.5	-111.64	-5,501.7	-60.8	724.4	614.2	110.20	6.574		
17,765.0	12,508.2	17,993.6	12,773.7	56.1	56.1	-111.62	-5,596.7	-60.0	724.2	612.9	111.29	6.507		
17,860.0	12,505.3	18,088.6	12,770.4	56.6	56.6	-111.59	-5,691.6	-59.3	723.9	611.5	112.40	6.441		
17,955.0	12,502.4	18,183.6	12,767.1	57.2	57.2	-111.57	-5,786.5	-58.5	723.7	610.2	113.50	6.376		
18,050.0	12,499.4	18,278.6	12,763.8	57.7	57.7	-111.55	-5,881.5	-57.8	723.4	608.8	114.62	6.311		
18,145.0	12,496.5	18,373.6	12,760.5	58.3	58.3	-111.52	-5,976.4	-57.0	723.2	607.4	115.75	6.248		
18,240.0	12,493.6	18,468.6	12,757.2	58.8	58.8	-111.50	-6,071.4	-56.3	722.9	606.0	116.88	6.185		
18,335.0	12,490.7	18,563.6	12,754.0	59.4	59.4	-111.48	-6,166.3	-55.5	722.7	604.7	118.02	6.123		
18,430.0	12,487.7	18,658.6	12,750.7	60.0	60.0	-111.45	-6,261.2	-54.8	722.4	603.3	119.16	6.062		
18,525.0	12,484.8	18,753.6	12,747.4	60.5	60.5	-111.43	-6,356.2	-54.0	722.2	601.9	120.32	6.002		
18,620.0	12,481.9	18,848.6	12,744.1	61.1	61.1	-111.41	-6,451.1	-53.3	721.9	600.5	121.47	5.943		
18,715.0	12,479.0	18,943.6	12,740.8	61.7	61.7	-111.38	-6,546.0	-52.5	721.7	599.0	122.64	5.885		
18,810.0	12,476.1	19,038.6	12,737.5	62.3	62.3	-111.36	-6,641.0	-51.8	721.4	597.6	123.81	5.827		
18,905.0	12,473.1	19,133.6	12,734.2	62.8	62.8	-111.33	-6,735.9	-51.0	721.2	596.2	124.99	5.770		
19,000.0	12,470.2	19,228.6	12,730.9	63.4	63.4	-111.31	-6,830.9	-50.3	720.9	594.8	126.17	5.714		
19,095.0	12,467.3	19,323.6	12,727.6	64.0	64.0	-111.29	-6,925.8	-49.5	720.7	593.3	127.36	5.659		
19,190.0	12,464.4	19,418.6	12,724.4	64.6	64.6	-111.26	-7,020.7	-48.8	720.4	591.9	128.55	5.604		
19,285.0	12,461.4	19,513.6	12,721.1	65.2	65.2	-111.24	-7,115.7	-48.0	720.2	590.4	129.75	5.550		
19,380.0	12,458.5	19,608.6	12,717.8	65.8	65.8	-111.22	-7,210.6	-47.3	719.9	589.0	130.96	5.498		
19,475.0	12,455.6	19,703.6	12,714.5	66.4	66.4	-111.19	-7,305.6	-46.5	719.7	587.5	132.17	5.445		
19,570.0	12,452.7	19,798.6	12,711.2	67.0	67.0	-111.17	-7,400.5	-45.8	719.5	586.1	133.38	5.394		

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	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 #702H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12480-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	12,449.7	19,893.6	12,707.9	67.6	67.6	-111.15	-7,495.4	-45.0	719.2	584.6	134.60	5.343		
19,760.0	12,446.8	19,988.6	12,704.6	68.2	68.2	-111.12	-7,590.4	-44.3	719.0	583.1	135.82	5.293		
19,855.0	12,443.9	20,083.6	12,701.3	68.8	68.8	-111.10	-7,685.3	-43.5	718.7	581.7	137.05	5.244		
19,950.0	12,441.0	20,178.6	12,698.0	69.4	69.4	-111.07	-7,780.3	-42.8	718.5	580.2	138.28	5.196		
20,045.0	12,438.1	20,273.6	12,694.8	70.0	70.0	-111.05	-7,875.2	-42.0	718.2	578.7	139.52	5.148		
20,140.0	12,435.1	20,368.6	12,691.5	70.7	70.7	-111.03	-7,970.1	-41.3	718.0	577.2	140.76	5.101		
20,235.0	12,432.2	20,463.6	12,688.2	71.3	71.3	-111.00	-8,065.1	-40.5	717.7	575.7	142.00	5.054		
20,302.0	12,430.2	20,527.1	12,686.0	71.7	71.7	-110.99	-8,128.6	-40.0	717.6	574.7	142.83	5.024		
20,307.0	12,430.0	20,527.1	12,686.0	71.7	71.7	-110.99	-8,128.6	-40.0	717.6	574.8	142.83	5.024		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	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	
6,080.0	6,000.5	6,271.2	6,186.6	17.3	18.0	37.93	-135.9	-1,655.9	982.0	948.1	33.90	28.970		
6,175.0	6,094.3	6,361.9	6,275.3	17.6	18.3	37.65	-149.4	-1,642.7	953.8	919.2	34.56	27.595		
6,270.0	6,188.3	6,452.9	6,364.4	18.0	18.6	37.32	-162.8	-1,629.4	926.7	891.5	35.23	26.307		
6,365.0	6,282.6	6,544.3	6,453.7	18.3	19.0	36.92	-176.3	-1,616.0	900.8	865.0	35.89	25.101		
6,460.0	6,377.0	6,635.9	6,543.4	18.6	19.3	36.45	-189.9	-1,602.6	876.2	839.7	36.55	23.974		
6,555.0	6,471.6	6,727.8	6,633.3	19.0	19.6	35.92	-203.4	-1,589.2	852.9	815.7	37.21	22.921		
6,650.0	6,566.3	6,819.9	6,723.4	19.3	20.0	35.30	-217.1	-1,575.8	830.8	792.9	37.87	21.941		
6,745.0	6,661.1	6,912.3	6,813.7	19.6	20.3	34.61	-230.7	-1,562.3	810.0	771.5	38.52	21.029		
6,840.0	6,756.1	7,004.8	6,904.2	19.9	20.6	33.83	-244.4	-1,548.7	790.6	751.5	39.17	20.183		
6,935.0	6,851.0	7,097.5	6,994.9	20.2	21.0	32.97	-258.1	-1,535.2	772.6	732.8	39.82	19.402		
7,030.0	6,946.0	7,190.4	7,085.8	20.5	21.3	32.02	-271.8	-1,521.6	756.1	715.6	40.46	18.687		
7,125.0	7,041.0	7,283.3	7,176.6	20.8	21.7	-83.88	-285.5	-1,508.0	740.5	699.5	41.07	18.031		
7,220.0	7,136.0	7,376.2	7,267.5	21.1	22.0	-84.85	-299.3	-1,494.4	725.2	683.5	41.69	17.397		
7,315.0	7,231.0	7,469.2	7,358.4	21.4	22.3	-85.87	-313.0	-1,480.9	710.1	667.8	42.30	16.785		
7,410.0	7,326.0	7,558.5	7,445.8	21.6	22.7	-86.89	-326.2	-1,467.9	695.3	652.3	42.94	16.193		
7,505.0	7,421.0	7,637.7	7,523.6	21.9	23.0	-87.73	-336.7	-1,457.4	682.1	638.5	43.60	15.643		
7,600.0	7,516.0	7,717.7	7,602.6	22.2	23.3	-88.48	-345.8	-1,448.4	670.9	626.7	44.26	15.157		
7,695.0	7,611.0	7,800.0	7,684.2	22.5	23.7	-89.14	-353.6	-1,440.8	661.9	616.9	44.92	14.734		
7,790.0	7,706.0	7,879.5	7,763.2	22.8	24.0	-89.65	-359.5	-1,434.9	654.8	609.2	45.56	14.373		
7,885.0	7,801.0	7,961.1	7,844.6	23.0	24.4	-90.03	-363.9	-1,430.6	649.7	603.5	46.18	14.068		
7,980.0	7,896.0	8,043.0	7,926.4	23.3	24.7	-90.28	-366.7	-1,427.8	646.5	599.7	46.79	13.817		
8,075.0	7,991.0	8,125.1	8,008.4	23.6	25.0	-90.38	-367.8	-1,426.7	645.2	597.9	47.37	13.620		
8,112.9	8,028.9	8,160.9	8,044.2	23.7	25.1	-90.38	-367.8	-1,426.7	645.2	597.6	47.60	13.556		
8,170.0	8,086.0	8,217.9	8,101.3	23.9	25.3	-90.38	-367.8	-1,426.7	645.2	597.3	47.94	13.459		
8,265.0	8,181.0	8,312.9	8,196.3	24.2	25.5	-90.38	-367.8	-1,426.7	645.2	596.7	48.52	13.299		
8,360.0	8,276.0	8,407.9	8,291.3	24.5	25.8	-90.38	-367.8	-1,426.7	645.2	596.1	49.09	13.142		
8,455.0	8,371.0	8,502.9	8,386.3	24.8	26.1	-90.38	-367.8	-1,426.7	645.2	595.5	49.68	12.988		
8,550.0	8,466.0	8,597.9	8,481.3	25.1	26.4	-90.38	-367.8	-1,426.7	645.2	595.0	50.26	12.837		
8,645.0	8,561.0	8,692.9	8,576.3	25.4	26.6	-90.38	-367.8	-1,426.7	645.2	594.4	50.85	12.689		
8,740.0	8,656.0	8,787.9	8,671.3	25.7	26.9	-90.38	-367.8	-1,426.7	645.2	593.8	51.44	12.543		
8,835.0	8,751.0	8,882.9	8,766.3	26.0	27.2	-90.38	-367.8	-1,426.7	645.2	593.2	52.03	12.401		
8,930.0	8,846.0	8,977.9	8,861.3	26.3	27.5	-90.38	-367.8	-1,426.7	645.2	592.6	52.62	12.261		
9,025.0	8,941.0	9,072.9	8,956.3	26.6	27.8	-90.38	-367.8	-1,426.7	645.2	592.0	53.22	12.123		
9,120.0	9,036.0	9,167.9	9,051.3	26.9	28.1	-90.38	-367.8	-1,426.7	645.2	591.4	53.82	11.989		
9,215.0	9,131.0	9,262.9	9,146.3	27.2	28.3	-90.38	-367.8	-1,426.7	645.2	590.8	54.42	11.856		
9,310.0	9,226.0	9,357.9	9,241.3	27.5	28.6	-90.38	-367.8	-1,426.7	645.2	590.2	55.02	11.727		
9,405.0	9,321.0	9,452.9	9,336.3	27.8	28.9	-90.38	-367.8	-1,426.7	645.2	589.6	55.62	11.599		
9,500.0	9,416.0	9,547.9	9,431.3	28.1	29.2	-90.38	-367.8	-1,426.7	645.2	589.0	56.23	11.475		
9,595.0	9,511.0	9,642.9	9,526.3	28.4	29.5	-90.38	-367.8	-1,426.7	645.2	588.4	56.84	11.352		
9,690.0	9,606.0	9,737.9	9,621.3	28.7	29.8	-90.38	-367.8	-1,426.7	645.2	587.8	57.45	11.232		
9,785.0	9,701.0	9,832.9	9,716.3	29.0	30.1	-90.38	-367.8	-1,426.7	645.2	587.2	58.06	11.114		
9,880.0	9,796.0	9,927.9	9,811.3	29.3	30.4	-90.38	-367.8	-1,426.7	645.2	586.5	58.67	10.998		
9,975.0	9,891.0	10,022.9	9,906.3	29.6	30.7	-90.38	-367.8	-1,426.7	645.2	585.9	59.28	10.884		
10,070.0	9,986.0	10,117.9	10,001.3	29.9	31.0	-90.38	-367.8	-1,426.7	645.2	585.3	59.90	10.772		
10,165.0	10,081.0	10,212.9	10,096.3	30.3	31.3	-90.38	-367.8	-1,426.7	645.2	584.7	60.51	10.662		
10,260.0	10,176.0	10,307.9	10,191.3	30.6	31.6	-90.38	-367.8	-1,426.7	645.2	584.1	61.13	10.555		
10,355.0	10,271.0	10,402.9	10,286.3	30.9	31.9	-90.38	-367.8	-1,426.7	645.2	583.5	61.75	10.449		
10,450.0	10,366.0	10,497.9	10,381.3	31.2	32.2	-90.38	-367.8	-1,426.7	645.2	582.8	62.37	10.345		
10,545.0	10,461.0	10,592.9	10,476.3	31.5	32.5	-90.38	-367.8	-1,426.7	645.2	582.2	62.99	10.243		
10,640.0	10,556.0	10,687.9	10,571.3	31.8	32.8	-90.38	-367.8	-1,426.7	645.2	581.6	63.62	10.142		
10,735.0	10,651.0	10,782.9	10,666.3	32.1	33.1	-90.38	-367.8	-1,426.7	645.2	581.0	64.24	10.044		
10,830.0	10,746.0	10,877.9	10,761.3	32.5	33.4	-90.38	-367.8	-1,426.7	645.2	580.3	64.86	9.947		

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	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 (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,925.0	10,841.0	10,972.9	10,856.3	32.8	33.7	-90.38	-367.8	-1,426.7	645.2	579.7	65.49	9.852		
11,020.0	10,936.0	11,067.9	10,951.3	33.1	34.0	-90.38	-367.8	-1,426.7	645.2	579.1	66.12	9.758		
11,115.0	11,031.0	11,162.9	11,046.3	33.4	34.3	-90.38	-367.8	-1,426.7	645.2	578.5	66.75	9.667		
11,210.0	11,126.0	11,257.9	11,141.3	33.7	34.6	-90.38	-367.8	-1,426.7	645.2	577.8	67.38	9.576		
11,305.0	11,221.0	11,352.9	11,236.3	34.0	34.9	-90.38	-367.8	-1,426.7	645.2	577.2	68.01	9.488		
11,400.0	11,316.0	11,447.9	11,331.3	34.4	35.2	-90.38	-367.8	-1,426.7	645.2	576.6	68.64	9.400		
11,495.0	11,411.0	11,542.9	11,426.3	34.7	35.5	-90.38	-367.8	-1,426.7	645.2	575.9	69.27	9.314		
11,590.0	11,506.0	11,637.9	11,521.3	35.0	35.8	-90.38	-367.8	-1,426.7	645.2	575.3	69.90	9.230		
11,685.0	11,601.0	11,732.9	11,616.3	35.3	36.1	-90.38	-367.8	-1,426.7	645.2	574.7	70.54	9.147		
11,780.0	11,696.0	11,827.9	11,711.3	35.6	36.5	-90.38	-367.8	-1,426.7	645.2	574.0	71.17	9.065		
11,875.0	11,791.0	11,922.9	11,806.3	36.0	36.8	-90.38	-367.8	-1,426.7	645.2	573.4	71.81	8.985		
11,970.0	11,886.0	12,017.9	11,901.3	36.3	37.1	-90.38	-367.8	-1,426.7	645.2	572.8	72.45	8.906		
12,065.0	11,981.0	12,112.9	11,996.3	36.6	37.4	-90.38	-367.8	-1,426.7	645.2	572.1	73.08	8.829		
12,160.0	12,076.0	12,207.9	12,091.3	36.9	37.7	-90.38	-367.8	-1,426.7	645.2	571.5	73.72	8.752		
12,255.0	12,171.0	12,302.9	12,186.3	37.2	38.0	-90.38	-367.8	-1,426.7	645.2	570.9	74.27	8.688 CC		
12,255.6	12,171.6	12,303.5	12,186.9	37.2	38.0	90.15	-367.8	-1,426.7	645.2	570.9	74.27	8.687		
12,350.0	12,265.5	12,397.4	12,280.8	37.2	38.3	90.87	-367.8	-1,426.7	645.3	570.7	74.60	8.651		
12,445.0	12,356.5	12,488.4	12,371.8	37.2	38.6	93.02	-367.8	-1,426.7	646.3	571.4	74.91	8.628		
12,540.0	12,440.4	12,575.3	12,458.7	37.2	38.9	96.10	-368.1	-1,426.7	650.2	575.1	75.18	8.649		
12,635.0	12,513.9	12,679.8	12,561.8	37.2	38.9	99.83	-383.4	-1,426.6	658.1	582.9	75.22	8.749		
12,730.0	12,574.0	12,802.2	12,675.0	37.3	39.0	103.59	-429.2	-1,426.2	668.6	593.5	75.14	8.899		
12,825.0	12,618.5	12,948.8	12,789.8	37.4	39.1	107.20	-519.5	-1,425.5	679.9	605.1	74.75	9.096		
12,920.0	12,645.6	13,123.4	12,883.2	37.5	39.2	110.04	-665.8	-1,424.3	688.8	614.6	74.15	9.290		
13,015.0	12,654.2	13,318.1	12,918.1	37.6	39.3	111.06	-856.0	-1,422.8	692.0	618.0	74.03	9.347		
13,084.7	12,653.0	13,389.4	12,916.0	37.6	39.3	110.99	-927.3	-1,422.2	691.8	617.5	74.23	9.319		
13,110.0	12,651.4	13,414.7	12,915.3	37.7	39.4	111.06	-952.6	-1,422.0	692.1	617.8	74.29	9.317		
13,205.0	12,648.5	13,509.7	12,912.5	37.8	39.4	111.06	-1,047.5	-1,421.2	692.3	617.7	74.57	9.284		
13,300.0	12,645.6	13,604.7	12,909.7	38.0	39.5	111.07	-1,142.5	-1,420.5	692.4	617.6	74.87	9.248		
13,395.0	12,642.6	13,699.7	12,907.0	38.1	39.6	111.08	-1,237.4	-1,419.7	692.6	617.4	75.20	9.210		
13,490.0	12,639.7	13,794.7	12,904.2	38.3	39.8	111.09	-1,332.4	-1,419.0	692.8	617.2	75.56	9.168		
13,585.0	12,636.8	13,889.7	12,901.5	38.5	39.9	111.10	-1,427.4	-1,418.2	692.9	617.0	75.95	9.123		
13,680.0	12,633.9	13,984.7	12,898.7	38.7	40.1	111.11	-1,522.3	-1,417.4	693.1	616.7	76.36	9.076		
13,775.0	12,630.9	14,079.7	12,895.9	38.9	40.4	111.12	-1,617.3	-1,416.7	693.2	616.4	76.80	9.027		
13,870.0	12,628.0	14,174.7	12,893.2	39.1	40.6	111.13	-1,712.2	-1,415.9	693.4	616.1	77.26	8.975		
13,965.0	12,625.1	14,269.7	12,890.4	39.4	40.8	111.13	-1,807.2	-1,415.1	693.6	615.8	77.75	8.920		
14,060.0	12,622.2	14,364.7	12,887.6	39.6	41.1	111.14	-1,902.1	-1,414.4	693.7	615.5	78.26	8.864		
14,155.0	12,619.3	14,459.7	12,884.9	39.9	41.4	111.15	-1,997.1	-1,413.6	693.9	615.1	78.79	8.806		
14,250.0	12,616.3	14,554.7	12,882.1	40.1	41.7	111.16	-2,092.1	-1,412.9	694.0	614.7	79.35	8.746		
14,345.0	12,613.4	14,649.7	12,879.3	40.4	42.0	111.17	-2,187.0	-1,412.1	694.2	614.3	79.93	8.685		
14,440.0	12,610.5	14,744.7	12,876.6	40.7	42.3	111.18	-2,282.0	-1,411.3	694.4	613.8	80.53	8.622		
14,535.0	12,607.6	14,839.7	12,873.8	41.0	42.6	111.19	-2,376.9	-1,410.6	694.5	613.4	81.16	8.558		
14,630.0	12,604.6	14,934.7	12,871.0	41.3	42.9	111.20	-2,471.9	-1,409.8	694.7	612.9	81.80	8.492		
14,725.0	12,601.7	15,029.7	12,868.3	41.7	43.3	111.20	-2,566.8	-1,409.0	694.9	612.4	82.47	8.426		
14,820.0	12,598.8	15,124.7	12,865.5	42.0	43.6	111.21	-2,661.8	-1,408.3	695.0	611.9	83.15	8.358		
14,915.0	12,595.9	15,219.7	12,862.7	42.3	44.0	111.22	-2,756.8	-1,407.5	695.2	611.3	83.86	8.290		
15,010.0	12,592.9	15,314.7	12,860.0	42.7	44.3	111.23	-2,851.7	-1,406.8	695.3	610.8	84.58	8.221		
15,105.0	12,590.0	15,409.7	12,857.2	43.0	44.7	111.24	-2,946.7	-1,406.0	695.5	610.2	85.33	8.151		
15,200.0	12,587.1	15,504.7	12,854.4	43.4	45.1	111.25	-3,041.6	-1,405.2	695.7	609.6	86.09	8.081		
15,295.0	12,584.2	15,599.7	12,851.7	43.8	45.5	111.26	-3,136.6	-1,404.5	695.8	609.0	86.87	8.010		
15,390.0	12,581.3	15,694.7	12,848.9	44.2	45.9	111.27	-3,231.5	-1,403.7	696.0	608.3	87.66	7.939		
15,485.0	12,578.3	15,789.7	12,846.1	44.6	46.3	111.27	-3,326.5	-1,402.9	696.1	607.7	88.48	7.868		
15,580.0	12,575.4	15,884.7	12,843.4	45.0	46.7	111.28	-3,421.4	-1,402.2	696.3	607.0	89.31	7.797		

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

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Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	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		
15,675.0	12,572.5	15,979.7	12,840.6	45.4	47.2	111.29	-3,516.4	-1,401.4	696.5	606.3	90.15	7.725		
15,770.0	12,569.6	16,074.7	12,837.8	45.8	47.6	111.30	-3,611.4	-1,400.7	696.6	605.6	91.01	7.654		
15,865.0	12,566.6	16,169.7	12,835.1	46.2	48.0	111.31	-3,706.3	-1,399.9	696.8	604.9	91.89	7.583		
15,960.0	12,563.7	16,264.7	12,832.3	46.7	48.5	111.32	-3,801.3	-1,399.1	696.9	604.2	92.78	7.512		
16,055.0	12,560.8	16,359.7	12,829.5	47.1	48.9	111.33	-3,896.2	-1,398.4	697.1	603.4	93.68	7.441		
16,150.0	12,557.9	16,454.7	12,826.8	47.6	49.4	111.33	-3,991.2	-1,397.6	697.3	602.7	94.60	7.370		
16,245.0	12,555.0	16,549.7	12,824.0	48.0	49.9	111.34	-4,086.1	-1,396.8	697.4	601.9	95.53	7.300		
16,340.0	12,552.0	16,644.7	12,821.2	48.5	50.3	111.35	-4,181.1	-1,396.1	697.6	601.1	96.48	7.230		
16,435.0	12,549.1	16,739.7	12,818.5	48.9	50.8	111.36	-4,276.1	-1,395.3	697.8	600.3	97.44	7.161		
16,530.0	12,546.2	16,834.7	12,815.7	49.4	51.3	111.37	-4,371.0	-1,394.5	697.9	599.5	98.41	7.092		
16,625.0	12,543.3	16,929.7	12,812.9	49.9	51.8	111.38	-4,466.0	-1,393.8	698.1	598.7	99.39	7.024		
16,720.0	12,540.3	17,024.7	12,810.2	50.4	52.3	111.39	-4,560.9	-1,393.0	698.2	597.9	100.38	6.956		
16,815.0	12,537.4	17,119.7	12,807.4	50.9	52.8	111.40	-4,655.9	-1,392.3	698.4	597.0	101.38	6.889		
16,910.0	12,534.5	17,214.7	12,804.6	51.4	53.3	111.40	-4,750.8	-1,391.5	698.6	596.2	102.40	6.822		
17,005.0	12,531.6	17,309.7	12,801.9	51.9	53.8	111.41	-4,845.8	-1,390.7	698.7	595.3	103.42	6.756		
17,100.0	12,528.7	17,404.7	12,799.1	52.4	54.3	111.42	-4,940.7	-1,390.0	698.9	594.4	104.46	6.690		
17,195.0	12,525.7	17,499.7	12,796.4	52.9	54.9	111.43	-5,035.7	-1,389.2	699.0	593.5	105.51	6.626		
17,290.0	12,522.8	17,594.7	12,793.6	53.4	55.4	111.44	-5,130.7	-1,388.4	699.2	592.6	106.56	6.562		
17,385.0	12,519.9	17,689.7	12,790.8	53.9	55.9	111.45	-5,225.6	-1,387.7	699.4	591.7	107.63	6.498		
17,480.0	12,517.0	17,784.7	12,788.1	54.5	56.4	111.46	-5,320.6	-1,386.9	699.5	590.8	108.70	6.435		
17,575.0	12,514.0	17,879.7	12,785.3	55.0	57.0	111.46	-5,415.5	-1,386.2	699.7	589.9	109.78	6.373		
17,670.0	12,511.1	17,974.7	12,782.5	55.5	57.5	111.47	-5,510.5	-1,385.4	699.9	589.0	110.87	6.312		
17,765.0	12,508.2	18,069.7	12,779.8	56.1	58.1	111.48	-5,605.4	-1,384.6	700.0	588.0	111.97	6.252		
17,860.0	12,505.3	18,164.7	12,777.0	56.6	58.6	111.49	-5,700.4	-1,383.9	700.2	587.1	113.08	6.192		
17,955.0	12,502.4	18,259.7	12,774.2	57.2	59.2	111.50	-5,795.4	-1,383.1	700.3	586.1	114.20	6.133		
18,050.0	12,499.4	18,354.7	12,771.5	57.7	59.7	111.51	-5,890.3	-1,382.3	700.5	585.2	115.32	6.074		
18,145.0	12,496.5	18,449.7	12,768.7	58.3	60.3	111.52	-5,985.3	-1,381.6	700.7	584.2	116.45	6.017		
18,240.0	12,493.6	18,544.7	12,765.9	58.8	60.9	111.52	-6,080.2	-1,380.8	700.8	583.2	117.59	5.960		
18,335.0	12,490.7	18,639.7	12,763.2	59.4	61.4	111.53	-6,175.2	-1,380.1	701.0	582.3	118.73	5.904		
18,430.0	12,487.7	18,734.7	12,760.4	60.0	62.0	111.54	-6,270.1	-1,379.3	701.1	581.3	119.88	5.849		
18,525.0	12,484.8	18,829.7	12,757.6	60.5	62.6	111.55	-6,365.1	-1,378.5	701.3	580.3	121.04	5.794		
18,620.0	12,481.9	18,924.7	12,754.9	61.1	63.2	111.56	-6,460.1	-1,377.8	701.5	579.3	122.20	5.740		
18,715.0	12,479.0	19,019.7	12,752.1	61.7	63.7	111.57	-6,555.0	-1,377.0	701.6	578.3	123.37	5.687		
18,810.0	12,476.1	19,114.7	12,749.3	62.3	64.3	111.58	-6,650.0	-1,376.2	701.8	577.2	124.55	5.635		
18,905.0	12,473.1	19,209.7	12,746.6	62.8	64.9	111.58	-6,744.9	-1,375.5	702.0	576.2	125.73	5.583		
19,000.0	12,470.2	19,304.7	12,743.8	63.4	65.5	111.59	-6,839.9	-1,374.7	702.1	575.2	126.92	5.532		
19,095.0	12,467.3	19,399.7	12,741.0	64.0	66.1	111.60	-6,934.8	-1,374.0	702.3	574.2	128.11	5.482		
19,190.0	12,464.4	19,494.7	12,738.3	64.6	66.7	111.61	-7,029.8	-1,373.2	702.4	573.1	129.31	5.432		
19,285.0	12,461.4	19,589.7	12,735.5	65.2	67.3	111.62	-7,124.7	-1,372.4	702.6	572.1	130.51	5.383		
19,380.0	12,458.5	19,684.7	12,732.7	65.8	67.9	111.63	-7,219.7	-1,371.7	702.8	571.0	131.72	5.335		
19,475.0	12,455.6	19,779.7	12,730.0	66.4	68.5	111.64	-7,314.7	-1,370.9	702.9	570.0	132.94	5.288		
19,570.0	12,452.7	19,874.7	12,727.2	67.0	69.1	111.64	-7,409.6	-1,370.1	703.1	568.9	134.16	5.241		
19,665.0	12,449.7	19,969.7	12,724.4	67.6	69.7	111.65	-7,504.6	-1,369.4	703.2	567.9	135.38	5.195		
19,760.0	12,446.8	20,064.7	12,721.7	68.2	70.3	111.66	-7,599.5	-1,368.6	703.4	566.8	136.61	5.149		
19,855.0	12,443.9	20,159.7	12,718.9	68.8	70.9	111.67	-7,694.5	-1,367.9	703.6	565.7	137.84	5.104		
19,950.0	12,441.0	20,254.7	12,716.1	69.4	71.5	111.68	-7,789.4	-1,367.1	703.7	564.7	139.08	5.060		
20,045.0	12,438.1	20,349.7	12,713.4	70.0	72.1	111.69	-7,884.4	-1,366.3	703.9	563.6	140.32	5.016		
20,140.0	12,435.1	20,444.7	12,710.6	70.7	72.8	111.69	-7,979.4	-1,365.6	704.1	562.5	141.56	4.973		
20,235.0	12,432.2	20,539.7	12,707.8	71.3	73.4	111.70	-8,074.3	-1,364.8	704.2	561.4	142.81	4.931		
20,235.3	12,432.2	20,540.0	12,707.8	71.3	73.4	111.70	-8,074.6	-1,364.8	704.2	561.4	142.81	4.931		
20,307.0	12,430.0	20,603.1	12,706.0	71.7	73.8	111.71	-8,137.7	-1,364.3	704.4	560.7	143.65	4.904 ES, SF		

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Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #601H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12018-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference												Rule Assigned:	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S	+E/-W	Between Centres	Between Ellipses	(usft)		
							(usft)	(usft)	(usft)	(usft)	(usft)		
0.0	0.0	0.0	0.0	3.0	4.2	172.54	-532.4	69.7	536.9				
95.0	95.0	92.3	92.3	3.0	4.2	172.50	-532.7	70.2	537.3	530.0	7.24	74.181	
190.0	190.0	187.3	187.2	3.0	4.2	172.43	-533.3	70.9	538.0	530.7	7.25	74.215	
285.0	285.0	282.0	282.0	3.0	4.3	172.36	-533.9	71.6	538.7	531.4	7.26	74.170	
380.0	380.0	376.7	376.7	3.0	4.3	172.34	-534.5	71.9	539.4	532.1	7.29	74.037	
475.0	475.0	471.1	471.0	3.0	4.3	172.31	-535.3	72.3	540.2	532.9	7.32	73.841	
570.0	570.0	567.8	567.8	3.1	4.3	172.26	-535.9	72.8	540.9	533.5	7.35	73.547	
665.0	665.0	662.4	662.4	3.1	4.3	172.25	-536.5	73.0	541.5	534.1	7.40	73.161	
760.0	760.0	756.7	756.6	3.1	4.3	172.25	-537.2	73.1	542.2	534.7	7.46	72.705	
855.0	855.0	850.9	850.9	3.2	4.4	172.26	-538.0	73.1	543.0	535.5	7.52	72.204	
950.0	950.0	946.2	946.2	3.2	4.4	172.25	-538.9	73.3	543.9	536.3	7.59	71.642	
1,045.0	1,045.0	1,041.0	1,041.0	3.3	4.4	172.24	-539.7	73.6	544.7	537.1	7.67	71.017	
1,140.0	1,140.0	1,130.3	1,130.2	3.3	4.5	172.13	-540.7	74.8	545.9	538.2	7.75	70.464	
1,235.0	1,235.0	1,218.3	1,218.1	3.4	4.5	171.60	-542.3	80.1	548.5	540.7	7.82	70.128	
1,330.0	1,330.0	1,312.4	1,311.7	3.4	4.5	170.69	-544.2	89.2	551.8	543.9	7.90	69.836	
1,425.0	1,425.0	1,407.1	1,405.9	3.5	4.5	169.75	-546.0	98.8	555.2	547.2	7.99	69.518	
1,520.0	1,520.0	1,509.5	1,507.7	3.6	4.6	168.74	-547.3	109.0	558.2	550.2	8.08	69.091	
1,615.0	1,615.0	1,603.6	1,601.4	3.6	4.6	167.83	-547.8	118.1	560.6	552.4	8.17	68.605	
1,710.0	1,710.0	1,698.4	1,695.8	3.7	4.7	166.91	-548.3	127.5	563.2	554.9	8.27	68.118	
1,805.0	1,805.0	1,793.7	1,790.6	3.8	4.7	166.00	-548.6	136.8	565.7	557.3	8.37	67.602	
1,900.0	1,900.0	1,887.8	1,884.2	3.9	4.8	165.12	-549.0	145.9	568.4	559.9	8.47	67.093	
1,995.0	1,995.0	1,982.1	1,978.1	3.9	4.8	164.24	-549.5	155.1	571.3	562.7	8.58	66.591	
2,090.0	2,090.0	2,075.3	2,070.9	4.0	4.9	-81.77	-550.0	164.3	574.2	565.5	8.66	66.300	
2,185.0	2,184.9	2,170.4	2,165.4	4.2	4.9	-83.07	-550.5	174.0	577.0	568.3	8.74	66.011	
2,280.0	2,279.6	2,262.0	2,256.6	4.9	5.0	-84.58	-551.0	183.2	579.8	571.0	8.86	65.461	
2,375.0	2,373.9	2,362.9	2,357.0	5.5	5.0	-86.59	-551.2	193.4	582.5	573.5	9.03	64.511	
2,470.0	2,467.9	2,454.5	2,448.1	6.0	5.1	-88.69	-550.6	202.5	585.1	575.9	9.25	63.268	
2,565.0	2,561.3	2,547.1	2,540.2	6.5	5.1	-91.09	-550.0	212.0	588.8	579.2	9.53	61.776	
2,660.0	2,654.3	2,636.6	2,629.3	6.9	5.2	-93.63	-549.4	221.2	593.6	583.8	9.87	60.161	
2,755.0	2,747.2	2,725.7	2,717.9	7.1	5.3	-96.18	-548.8	230.4	599.9	589.7	10.24	58.609	
2,850.0	2,840.2	2,814.4	2,806.1	7.3	5.3	-98.67	-548.4	239.8	607.8	597.2	10.62	57.209	
2,945.0	2,933.1	2,900.0	2,891.2	7.5	5.4	-101.02	-548.3	249.2	617.4	606.4	11.02	56.008	
3,040.0	3,026.0	2,989.5	2,980.1	7.7	5.5	-103.41	-548.5	259.3	628.6	617.2	11.44	54.935	
3,135.0	3,118.9	3,077.3	3,067.3	7.9	5.5	-105.69	-548.8	269.4	641.3	629.4	11.87	54.034	
3,230.0	3,211.9	3,163.5	3,152.9	8.1	5.6	-107.86	-549.2	279.9	655.4	643.1	12.30	53.310	
3,325.0	3,304.8	3,253.9	3,242.5	8.3	5.7	-110.09	-549.6	291.3	671.0	658.3	12.74	52.684	
3,420.0	3,397.7	3,361.9	3,349.9	8.6	5.8	-112.54	-549.7	303.2	686.2	673.0	13.22	51.902	
3,515.0	3,490.6	3,451.7	3,439.2	8.8	5.8	-114.47	-549.4	312.1	701.3	687.6	13.66	51.350	
3,610.0	3,583.5	3,541.2	3,528.3	9.1	5.9	-116.35	-548.7	321.3	717.3	703.2	14.09	50.899	
3,705.0	3,676.5	3,630.9	3,617.4	9.4	6.0	-118.21	-547.5	331.1	734.2	719.6	14.53	50.531	
3,800.0	3,769.4	3,720.4	3,706.3	9.6	6.1	-120.01	-546.2	341.1	752.0	737.0	14.96	50.251	
3,895.0	3,862.3	3,830.4	3,815.8	9.9	6.2	-122.01	-545.1	351.4	769.4	753.9	15.45	49.792	
3,990.0	3,955.2	3,922.4	3,907.5	10.2	6.2	-123.52	-544.4	358.5	786.2	770.3	15.89	49.486	
4,085.0	4,048.2	4,011.1	3,996.0	10.5	6.3	-124.94	-543.6	365.5	803.6	787.3	16.31	49.262	
4,180.0	4,141.1	4,101.5	4,086.1	10.8	6.4	-126.34	-542.8	372.8	821.6	804.9	16.74	49.073	
4,275.0	4,234.0	4,193.6	4,177.9	11.1	6.5	-127.70	-541.9	380.3	840.1	823.0	17.18	48.910	
4,370.0	4,326.9	4,284.6	4,268.5	11.4	6.6	-129.00	-540.9	387.6	859.1	841.5	17.60	48.806	
4,465.0	4,419.9	4,385.2	4,368.9	11.7	6.7	-130.30	-540.6	394.9	878.0	859.9	18.06	48.606	
4,560.0	4,512.8	4,475.6	4,459.1	12.0	6.7	-131.36	-541.1	400.6	896.8	878.3	18.49	48.494	
4,655.0	4,605.7	4,562.8	4,546.2	12.3	6.8	-132.35	-541.4	406.4	916.2	897.3	18.91	48.441	
4,750.0	4,698.6	4,661.6	4,644.7	12.7	6.9	-133.38	-542.6	412.8	935.9	916.5	19.37	48.322	
4,845.0	4,791.6	4,745.8	4,728.7	13.0	7.0	-134.16	-544.5	417.7	955.6	935.8	19.78	48.317	

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	GREEN EYESHADE FED PROJECT - GREEN EYESHADE FEDERAL COM #601H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program:	100-Standard Keeper 104, 12018-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance				Rule Assigned:				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (usft)		Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,940.0	4,884.5	4,851.1	4,833.8	13.3	7.1	-135.04	-547.7	423.9	975.9	955.7	20.25	48.193		
5,035.0	4,977.4	4,979.1	4,961.7	13.6	7.3	-136.06	-550.2	426.8	992.5	971.8	20.78	47.762 SF		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #601H - ST01 - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12049-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	4.2	172.54	-532.4	69.7	536.9				
95.0	95.0	92.3	92.3	3.0	4.2	172.50	-532.7	70.2	537.3	530.0	7.24	74.181	
190.0	190.0	187.3	187.2	3.0	4.2	172.43	-533.3	70.9	538.0	530.7	7.25	74.215	
285.0	285.0	282.0	282.0	3.0	4.3	172.36	-533.9	71.6	538.7	531.4	7.26	74.170	
380.0	380.0	376.7	376.7	3.0	4.3	172.34	-534.5	71.9	539.4	532.1	7.29	74.037	
475.0	475.0	471.1	471.0	3.0	4.3	172.31	-535.3	72.3	540.2	532.9	7.32	73.841	
570.0	570.0	567.8	567.8	3.1	4.3	172.26	-535.9	72.8	540.9	533.5	7.35	73.547	
665.0	665.0	662.4	662.4	3.1	4.3	172.25	-536.5	73.0	541.5	534.1	7.40	73.161	
760.0	760.0	756.7	756.6	3.1	4.3	172.25	-537.2	73.1	542.2	534.7	7.46	72.705	
855.0	855.0	850.9	850.9	3.2	4.4	172.26	-538.0	73.1	543.0	535.5	7.52	72.204	
950.0	950.0	946.2	946.2	3.2	4.4	172.25	-538.9	73.3	543.9	536.3	7.59	71.642	
1,045.0	1,045.0	1,041.0	1,041.0	3.3	4.4	172.24	-539.7	73.6	544.7	537.1	7.67	71.017	
1,140.0	1,140.0	1,130.3	1,130.2	3.3	4.5	172.13	-540.7	74.8	545.9	538.2	7.75	70.464	
1,235.0	1,235.0	1,218.3	1,218.1	3.4	4.5	171.60	-542.3	80.1	548.5	540.7	7.82	70.128	
1,330.0	1,330.0	1,312.4	1,311.7	3.4	4.5	170.69	-544.2	89.2	551.8	543.9	7.90	69.836	
1,425.0	1,425.0	1,407.1	1,405.9	3.5	4.5	169.75	-546.0	98.8	555.2	547.2	7.99	69.518	
1,520.0	1,520.0	1,509.5	1,507.7	3.6	4.6	168.74	-547.3	109.0	558.2	550.2	8.08	69.091	
1,615.0	1,615.0	1,603.6	1,601.4	3.6	4.6	167.83	-547.8	118.1	560.6	552.4	8.17	68.605	
1,710.0	1,710.0	1,698.4	1,695.8	3.7	4.7	166.91	-548.3	127.5	563.2	554.9	8.27	68.118	
1,805.0	1,805.0	1,793.7	1,790.6	3.8	4.7	166.00	-548.6	136.8	565.7	557.3	8.37	67.602	
1,900.0	1,900.0	1,887.8	1,884.2	3.9	4.8	165.12	-549.0	145.9	568.4	559.9	8.47	67.093	
1,995.0	1,995.0	1,982.1	1,978.1	3.9	4.8	164.24	-549.5	155.1	571.3	562.7	8.58	66.591	
2,090.0	2,090.0	2,075.3	2,070.9	4.0	4.9	-81.77	-550.0	164.3	574.2	565.5	8.66	66.300	
2,185.0	2,184.9	2,170.4	2,165.4	4.2	4.9	-83.07	-550.5	174.0	577.0	568.3	8.74	66.011	
2,280.0	2,279.6	2,262.0	2,256.6	4.9	5.0	-84.58	-551.0	183.2	579.8	571.0	8.86	65.461	
2,375.0	2,373.9	2,362.9	2,357.0	5.5	5.0	-86.59	-551.2	193.4	582.5	573.5	9.03	64.511	
2,470.0	2,467.9	2,454.5	2,448.1	6.0	5.1	-88.69	-550.6	202.5	585.1	575.9	9.25	63.268	
2,565.0	2,561.3	2,547.1	2,540.2	6.5	5.1	-91.09	-550.0	212.0	588.8	579.2	9.53	61.776	
2,660.0	2,654.3	2,636.6	2,629.3	6.9	5.2	-93.63	-549.4	221.2	593.6	583.8	9.87	60.161	
2,755.0	2,747.2	2,725.7	2,717.9	7.1	5.3	-96.18	-548.8	230.4	599.9	589.7	10.24	58.609	
2,850.0	2,840.2	2,814.4	2,806.1	7.3	5.3	-98.67	-548.4	239.8	607.8	597.2	10.62	57.209	
2,945.0	2,933.1	2,900.0	2,891.2	7.5	5.4	-101.02	-548.3	249.2	617.4	606.4	11.02	56.008	
3,040.0	3,026.0	2,989.5	2,980.1	7.7	5.5	-103.41	-548.5	259.3	628.6	617.2	11.44	54.935	
3,135.0	3,118.9	3,077.3	3,067.3	7.9	5.5	-105.69	-548.8	269.4	641.3	629.4	11.87	54.034	
3,230.0	3,211.9	3,163.5	3,152.9	8.1	5.6	-107.86	-549.2	279.9	655.4	643.1	12.30	53.310	
3,325.0	3,304.8	3,253.9	3,242.5	8.3	5.7	-110.09	-549.6	291.3	671.0	658.3	12.74	52.684	
3,420.0	3,397.7	3,361.9	3,349.9	8.6	5.8	-112.54	-549.7	303.2	686.2	673.0	13.22	51.902	
3,515.0	3,490.6	3,451.7	3,439.2	8.8	5.8	-114.47	-549.4	312.1	701.3	687.6	13.66	51.350	
3,610.0	3,583.5	3,541.2	3,528.3	9.1	5.9	-116.35	-548.7	321.3	717.3	703.2	14.09	50.899	
3,705.0	3,676.5	3,630.9	3,617.4	9.4	6.0	-118.21	-547.5	331.1	734.2	719.6	14.53	50.531	
3,800.0	3,769.4	3,720.4	3,706.3	9.6	6.1	-120.01	-546.2	341.1	752.0	737.0	14.96	50.251	
3,895.0	3,862.3	3,830.4	3,815.8	9.9	6.2	-122.01	-545.1	351.4	769.4	753.9	15.45	49.792	
3,990.0	3,955.2	3,922.4	3,907.5	10.2	6.2	-123.52	-544.4	358.5	786.2	770.3	15.89	49.486	
4,085.0	4,048.2	4,011.1	3,996.0	10.5	6.3	-124.94	-543.6	365.5	803.6	787.3	16.31	49.262	
4,180.0	4,141.1	4,101.5	4,086.1	10.8	6.4	-126.34	-542.8	372.8	821.6	804.9	16.74	49.073	
4,275.0	4,234.0	4,193.6	4,177.9	11.1	6.5	-127.70	-541.9	380.3	840.1	823.0	17.18	48.910	
4,370.0	4,326.9	4,284.6	4,268.5	11.4	6.6	-129.00	-540.9	387.6	859.1	841.5	17.60	48.806	
4,465.0	4,419.9	4,385.2	4,368.9	11.7	6.7	-130.30	-540.6	394.9	878.0	859.9	18.06	48.606	
4,560.0	4,512.8	4,475.6	4,459.1	12.0	6.7	-131.36	-541.1	400.6	896.8	878.3	18.49	48.494	
4,655.0	4,605.7	4,562.8	4,546.2	12.3	6.8	-132.35	-541.4	406.4	916.2	897.3	18.91	48.441	
4,750.0	4,698.6	4,661.6	4,644.7	12.7	6.9	-133.38	-542.6	412.8	935.9	916.5	19.37	48.322	
4,845.0	4,791.6	4,745.8	4,728.7	13.0	7.0	-134.16	-544.5	417.7	955.6	935.8	19.78	48.317	

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FE D PROJECT - GREEN EYESHAD FEDERAL COM #601H - ST01 - AWP													Offset Site Error: 3.0 usft	
Survey Program: 100-Standard Keeper 104, 12049-MWD+IFR1+FDIR													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis			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	
4,940.0	4,884.5	4,851.1	4,833.8	13.3	7.1	-135.04	-547.7	423.9	975.9	955.7	20.25	48.193		
5,035.0	4,977.4	4,979.1	4,961.7	13.6	7.3	-136.06	-550.2	426.8	992.5	971.8	20.78	47.762 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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #602H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12018-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
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	
0.0	0.0	4.6	4.6	3.0	4.2	178.96	-532.8	9.7	532.9				
95.0	95.0	105.7	105.7	3.0	4.2	178.95	-532.2	9.8	532.3	525.0	7.24	73.493	
190.0	190.0	201.7	201.7	3.0	4.2	178.94	-530.8	9.8	531.0	523.7	7.25	73.238	
285.0	285.0	297.8	297.8	3.0	4.3	178.97	-529.5	9.6	529.7	522.4	7.27	72.893	
380.0	380.0	392.5	392.4	3.0	4.3	178.99	-528.1	9.3	528.2	520.9	7.29	72.442	
475.0	475.0	487.7	487.6	3.0	4.3	179.04	-526.6	8.8	526.7	519.4	7.33	71.909	
570.0	570.0	582.0	581.9	3.1	4.3	179.07	-525.1	8.6	525.2	517.9	7.37	71.290	
660.0	660.0	664.4	664.3	3.1	4.3	179.09	-524.6	8.3	524.7	517.3	7.41	70.809	
665.0	665.0	669.2	669.1	3.1	4.3	179.10	-524.6	8.3	524.7	517.3	7.41	70.789	
760.0	760.0	762.1	762.1	3.1	4.3	179.12	-524.8	8.1	524.8	517.4	7.45	70.479	
855.0	855.0	857.8	857.7	3.2	4.3	179.14	-525.0	7.9	525.1	517.6	7.48	70.172	
950.0	950.0	950.0	949.9	3.2	4.3	179.15	-525.6	7.8	525.7	518.1	7.52	69.856	
1,045.0	1,045.0	1,045.6	1,045.5	3.3	4.3	179.14	-526.2	7.9	526.3	518.7	7.57	69.485	
1,140.0	1,140.0	1,133.1	1,133.0	3.3	4.3	179.14	-527.4	8.0	527.6	520.0	7.63	69.162	
1,235.0	1,235.0	1,227.9	1,227.8	3.4	4.3	179.32	-529.5	6.3	529.7	522.0	7.69	68.854	
1,330.0	1,330.0	1,329.9	1,329.6	3.4	4.4	179.88	-531.2	1.1	531.3	523.5	7.77	68.404	
1,425.0	1,425.0	1,427.1	1,426.2	3.5	4.4	-179.00	-531.7	-9.3	531.8	523.9	7.84	67.798	
1,520.0	1,520.0	1,518.7	1,517.3	3.6	4.4	-177.89	-532.2	-19.6	532.6	524.7	7.92	67.218	
1,615.0	1,615.0	1,614.6	1,612.6	3.6	4.4	-176.72	-532.9	-30.6	533.8	525.8	8.01	66.645	
1,710.0	1,710.0	1,711.7	1,708.7	3.7	4.5	-175.26	-532.9	-44.2	534.7	526.6	8.10	66.020	
1,805.0	1,805.0	1,804.0	1,800.0	3.8	4.5	-173.86	-532.9	-57.4	536.1	527.9	8.19	65.440	
1,900.0	1,900.0	1,899.2	1,894.3	3.9	4.5	-172.41	-533.0	-71.1	537.8	529.5	8.29	64.874	
1,995.0	1,995.0	1,992.4	1,986.5	3.9	4.6	-171.02	-532.9	-84.2	539.7	531.3	8.39	64.333	
2,090.0	2,090.0	2,085.7	2,078.9	4.0	4.6	-54.82	-533.2	-97.2	541.3	532.9	8.48	63.855	
2,185.0	2,184.9	2,179.4	2,171.7	4.2	4.7	-53.89	-533.7	-109.8	541.6	533.0	8.62	62.826	
2,280.0	2,279.6	2,274.4	2,265.9	4.9	4.7	-53.28	-534.4	-122.4	540.2	531.4	8.81	61.338	
2,375.0	2,373.9	2,368.9	2,359.6	5.5	4.8	-52.96	-535.1	-135.0	537.1	528.0	9.02	59.530	
2,470.0	2,467.9	2,462.8	2,452.7	6.0	4.8	-52.98	-535.9	-146.9	532.0	522.7	9.25	57.490	
2,565.0	2,561.3	2,559.0	2,548.1	6.5	4.9	-53.37	-536.7	-158.7	524.9	515.4	9.50	55.269	
2,660.0	2,654.3	2,653.2	2,641.8	6.9	5.0	-53.97	-537.6	-169.8	516.3	506.6	9.71	53.185	
2,755.0	2,747.2	2,748.9	2,736.7	7.1	5.0	-54.58	-538.3	-180.9	507.4	497.5	9.91	51.224	
2,850.0	2,840.2	2,844.5	2,831.8	7.3	5.1	-55.28	-539.0	-191.5	498.6	488.5	10.12	49.269	
2,945.0	2,933.1	2,939.1	2,925.9	7.5	5.2	-56.04	-539.6	-201.5	489.6	479.3	10.35	47.303	
3,040.0	3,026.0	3,034.4	3,020.4	7.7	5.2	-56.62	-539.7	-213.3	480.5	469.9	10.61	45.291	
3,135.0	3,118.9	3,130.4	3,115.6	7.9	5.3	-57.17	-539.6	-225.7	471.3	460.4	10.89	43.283	
3,230.0	3,211.9	3,227.6	3,212.1	8.1	5.4	-57.86	-539.3	-237.3	461.8	450.6	11.18	41.311	
3,325.0	3,304.8	3,323.0	3,307.0	8.3	5.4	-58.78	-538.8	-246.9	452.0	440.5	11.47	39.390	
3,420.0	3,397.7	3,415.8	3,399.3	8.6	5.5	-59.74	-538.2	-256.1	442.1	430.4	11.78	37.528	
3,515.0	3,490.6	3,509.9	3,492.9	8.8	5.6	-60.64	-537.6	-266.3	432.6	420.5	12.11	35.735	
3,610.0	3,583.5	3,605.7	3,588.1	9.1	5.7	-61.52	-537.0	-277.2	423.1	410.6	12.44	33.998	
3,705.0	3,676.5	3,702.1	3,683.6	9.4	5.8	-62.20	-535.7	-290.0	413.2	400.4	12.80	32.285	
3,800.0	3,769.4	3,797.7	3,778.3	9.6	5.8	-62.90	-534.1	-302.7	403.0	389.8	13.16	30.617	
3,895.0	3,862.3	3,888.1	3,868.0	9.9	5.9	-63.61	-532.6	-314.5	392.9	379.4	13.54	29.029	
3,990.0	3,955.2	3,976.2	3,955.3	10.2	6.0	-64.31	-533.1	-326.4	384.9	371.0	13.92	27.659	
4,085.0	4,048.2	4,070.3	4,048.5	10.5	6.1	-65.05	-534.0	-339.2	377.4	363.1	14.31	26.376	
4,180.0	4,141.1	4,160.7	4,138.1	10.8	6.2	-65.78	-534.9	-351.6	370.0	355.3	14.70	25.164	
4,275.0	4,234.0	4,244.4	4,221.0	11.1	6.2	-66.65	-538.4	-362.0	365.7	350.6	15.10	24.215	
4,370.0	4,326.9	4,338.6	4,314.4	11.4	6.3	-67.72	-543.3	-373.2	362.5	347.0	15.51	23.373	
4,465.0	4,419.9	4,433.5	4,408.5	11.7	6.4	-68.86	-548.1	-384.2	359.3	343.4	15.92	22.564	
4,560.0	4,512.8	4,528.9	4,503.2	12.0	6.5	-70.13	-552.8	-394.5	356.3	339.9	16.34	21.799	
4,655.0	4,605.7	4,625.0	4,598.8	12.3	6.6	-71.63	-557.3	-403.8	353.2	336.4	16.77	21.065	
4,750.0	4,698.6	4,718.0	4,691.4	12.7	6.7	-73.34	-561.2	-411.5	350.1	332.9	17.19	20.363	

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FEED PROJECT - GREEN EYESHAD FEDERAL COM #602H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12018-MWD+IFR1+FDIR								Rule Assigned:				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,791.6	4,807.3	4,780.5	13.0	6.8	-75.46	-565.4	-415.9	348.5	330.8	17.62	19.774	
4,937.3	4,881.8	4,897.8	4,870.8	13.3	6.8	-77.76	-570.2	-419.4	348.1	330.0	18.05	19.289	
4,940.0	4,884.5	4,900.4	4,873.4	13.3	6.8	-77.83	-570.4	-419.5	348.1	330.0	18.06	19.275	
5,035.0	4,977.4	5,000.9	4,973.7	13.6	6.9	-80.35	-575.1	-423.7	347.7	329.2	18.51	18.786	
5,091.9	5,033.1	5,054.3	5,027.0	13.8	7.0	-81.73	-577.2	-425.9	347.3	328.5	18.78	18.494	
5,130.0	5,070.3	5,090.4	5,063.0	14.0	7.0	-82.71	-578.7	-427.1	347.5	328.5	18.96	18.325	
5,225.0	5,163.3	5,186.3	5,158.8	14.3	7.1	-85.18	-582.9	-430.8	348.1	328.7	19.43	17.919	
5,320.0	5,256.2	5,284.8	5,257.1	14.6	7.2	-87.61	-587.1	-435.3	349.1	329.2	19.90	17.537	
5,415.0	5,349.1	5,387.0	5,358.9	15.0	7.3	-89.84	-589.7	-442.7	348.0	327.6	20.39	17.064	
5,510.0	5,442.0	5,487.0	5,458.4	15.3	7.4	-91.70	-591.2	-452.7	345.4	324.5	20.89	16.535	
5,605.0	5,534.9	5,580.2	5,551.2	15.6	7.5	-93.48	-592.3	-462.0	342.9	321.5	21.39	16.029	
5,700.0	5,627.9	5,675.2	5,645.8	16.0	7.6	-95.50	-593.2	-470.4	341.1	319.2	21.90	15.575	
5,795.0	5,720.8	5,771.7	5,741.9	16.3	7.7	-97.48	-593.7	-479.8	339.0	316.5	22.42	15.119	
5,890.0	5,813.8	5,866.0	5,835.7	16.6	7.8	-99.37	-594.1	-489.2	336.9	314.0	22.93	14.697	
5,985.0	5,907.0	5,960.3	5,929.5	17.0	7.9	-101.02	-594.6	-498.6	335.1	311.7	23.43	14.303	
6,080.0	6,000.5	6,052.8	6,021.6	17.3	8.0	-102.48	-595.2	-507.4	333.6	309.7	23.93	13.942	
6,175.0	6,094.3	6,146.4	6,114.8	17.6	8.1	-103.74	-596.0	-515.8	332.4	308.0	24.42	13.613	
6,209.4	6,128.3	6,176.0	6,144.3	17.8	8.1	-104.13	-596.2	-518.1	332.2	307.6	24.59	13.510	
6,270.0	6,188.3	6,233.6	6,201.8	18.0	8.2	-104.97	-596.8	-521.5	332.5	307.6	24.89	13.359	
6,365.0	6,282.6	6,326.1	6,294.2	18.3	8.3	-106.19	-597.7	-526.3	333.3	307.9	25.34	13.152	
6,460.0	6,377.0	6,420.7	6,388.7	18.6	8.4	-107.20	-598.6	-531.0	333.8	308.0	25.78	12.947	
6,555.0	6,471.6	6,509.1	6,477.0	19.0	8.5	-108.13	-599.5	-533.6	335.2	309.0	26.20	12.797	
6,650.0	6,566.3	6,604.4	6,572.3	19.3	8.6	-109.03	-600.5	-535.0	337.3	310.7	26.61	12.677	
6,745.0	6,661.1	6,698.2	6,666.0	19.6	8.7	-109.68	-601.4	-536.3	339.0	312.0	27.01	12.553	
6,840.0	6,756.1	6,794.5	6,762.3	19.9	8.8	-110.10	-602.2	-537.7	340.0	312.6	27.40	12.409	
6,935.0	6,851.0	6,889.0	6,856.9	20.2	8.9	-110.24	-603.0	-539.2	340.4	312.6	27.78	12.254	
7,030.0	6,946.0	6,984.8	6,952.7	20.5	9.0	-110.13	-603.7	-540.7	340.2	312.0	28.14	12.089	
7,125.0	7,041.0	7,079.6	7,047.5	20.8	9.1	-135.19	-604.4	-542.1	339.6	311.2	28.46	11.933	
7,220.0	7,136.0	7,175.3	7,143.1	21.1	9.2	-135.42	-604.9	-543.6	338.9	310.1	28.79	11.772	
7,315.0	7,231.0	7,270.2	7,238.0	21.4	9.3	-135.63	-605.3	-545.0	338.2	309.1	29.13	11.612	
7,410.0	7,326.0	7,364.7	7,332.5	21.6	9.4	-135.87	-605.8	-546.5	337.6	308.1	29.45	11.460	
7,505.0	7,421.0	7,459.8	7,427.6	21.9	9.5	-136.09	-606.3	-547.8	337.0	307.2	29.79	11.313	
7,600.0	7,516.0	7,554.8	7,522.5	22.2	9.6	-136.31	-606.8	-549.1	336.5	306.4	30.12	11.171	
7,695.0	7,611.0	7,650.0	7,617.7	22.5	9.7	-136.51	-607.1	-550.4	335.8	305.4	30.46	11.025	
7,790.0	7,706.0	7,743.3	7,711.1	22.8	9.8	-136.71	-607.6	-551.6	335.3	304.5	30.80	10.888	
7,809.2	7,725.2	7,761.8	7,729.5	22.8	9.9	-136.74	-607.7	-551.7	335.3	304.4	30.86	10.865	
7,885.0	7,801.0	7,834.5	7,802.2	23.0	9.9	-136.76	-608.1	-551.5	335.7	304.6	31.09	10.798	
7,980.0	7,896.0	7,929.1	7,896.8	23.3	9.9	-136.73	-608.7	-550.7	336.8	305.4	31.38	10.732	
8,075.0	7,991.0	8,023.6	7,991.4	23.6	9.9	-136.73	-609.4	-549.9	337.8	306.1	31.67	10.666	
8,170.0	8,086.0	8,118.8	8,086.5	23.9	9.9	-136.70	-610.1	-549.1	338.9	306.9	31.97	10.601	
8,265.0	8,181.0	8,213.1	8,180.8	24.2	9.8	-136.65	-610.8	-548.1	340.1	307.8	32.27	10.537	
8,360.0	8,276.0	8,308.7	8,276.4	24.5	9.8	-136.61	-611.4	-547.2	341.1	308.6	32.58	10.472	
8,455.0	8,371.0	8,403.8	8,371.5	24.8	9.8	-136.60	-612.2	-546.4	342.3	309.4	32.88	10.408	
8,550.0	8,466.0	8,498.3	8,466.0	25.1	9.9	-136.59	-613.0	-545.5	343.5	310.3	33.19	10.348	
8,645.0	8,561.0	8,593.2	8,560.8	25.4	9.9	-136.58	-613.8	-544.6	344.7	311.2	33.50	10.288	
8,740.0	8,656.0	8,687.3	8,655.0	25.7	9.9	-136.54	-614.6	-543.6	345.9	312.1	33.82	10.229	
8,835.0	8,751.0	8,783.2	8,750.8	26.0	9.9	-136.52	-615.4	-542.6	347.3	313.1	34.13	10.173	
8,930.0	8,846.0	8,878.6	8,846.2	26.3	9.9	-136.47	-616.0	-541.6	348.3	313.9	34.46	10.109	
9,025.0	8,941.0	8,974.1	8,941.8	26.6	9.9	-136.34	-616.2	-540.4	349.3	314.5	34.79	10.040	
9,120.0	9,036.0	9,069.5	9,037.2	26.9	9.9	-136.22	-616.3	-539.2	350.1	315.0	35.12	9.969	
9,215.0	9,131.0	9,166.5	9,134.1	27.2	9.8	-136.04	-616.0	-538.1	350.7	315.2	35.47	9.888	
9,310.0	9,226.0	9,263.4	9,231.0	27.5	9.8	-135.75	-614.8	-536.7	350.9	315.0	35.83	9.791	

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #602H - OWB - AWP													Offset Site Error: 3.0 usft
Survey Program: 100-Standard Keeper 104, 12018-MWD+IFR1+FDIR													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
9,405.0	9,321.0	9,358.7	9,326.3	27.8	9.8	135.41		-613.1	-535.4	350.5	314.3	36.20	9.683
9,456.5	9,372.5	9,409.2	9,376.8	28.0	9.8	135.22		-612.2	-534.7	350.4	314.0	36.40	9.626
9,500.0	9,416.0	9,450.0	9,417.6	28.1	9.8	135.15		-612.1	-534.2	350.6	314.1	36.56	9.592
9,595.0	9,511.0	9,546.2	9,513.8	28.4	9.8	135.10		-612.4	-533.5	351.4	314.5	36.89	9.525
9,690.0	9,606.0	9,642.3	9,609.9	28.7	9.8	134.89		-611.6	-532.4	351.6	314.3	37.25	9.437
9,785.0	9,701.0	9,738.5	9,706.0	29.0	9.8	134.88		-611.5	-532.4	351.5	313.9	37.61	9.345
9,880.0	9,796.0	9,833.8	9,801.3	29.3	9.9	135.37		-613.5	-534.7	351.3	313.4	37.97	9.253
9,975.0	9,891.0	9,927.9	9,895.4	29.6	10.0	135.82		-615.3	-536.8	351.1	312.8	38.32	9.162
10,007.6	9,923.6	9,960.4	9,927.9	29.7	10.1	135.97		-615.9	-537.5	351.1	312.6	38.44	9.132
10,070.0	9,986.0	10,023.0	9,990.4	29.9	10.1	136.33		-617.5	-539.0	351.1	312.4	38.67	9.079
10,075.1	9,991.1	10,028.0	9,995.4	30.0	10.1	136.36		-617.6	-539.2	351.1	312.4	38.69	9.075
10,165.0	10,081.0	10,114.6	10,082.0	30.3	10.2	136.92		-620.3	-541.4	351.6	312.6	39.02	9.011
10,260.0	10,176.0	10,209.8	10,177.1	30.6	10.3	137.56		-623.6	-543.6	352.5	313.1	39.36	8.955
10,355.0	10,271.0	10,306.0	10,273.1	30.9	10.4	138.17		-626.7	-545.9	353.2	313.5	39.71	8.894
10,450.0	10,366.0	10,400.6	10,367.8	31.2	10.5	138.68		-629.3	-547.9	353.9	313.8	40.07	8.832
10,545.0	10,461.0	10,499.5	10,466.6	31.5	10.7	139.16		-631.5	-549.8	354.3	313.8	40.43	8.763
10,640.0	10,556.0	10,602.6	10,569.6	31.8	10.8	139.75		-632.4	-553.8	352.5	311.7	40.81	8.637
10,735.0	10,651.0	10,699.2	10,666.1	32.1	10.8	139.78		-630.3	-555.9	349.6	308.4	41.21	8.484
10,830.0	10,746.0	10,793.9	10,760.8	32.5	10.9	139.78		-628.1	-557.7	346.7	305.1	41.60	8.335
10,925.0	10,841.0	10,889.9	10,856.7	32.8	10.9	139.59		-625.1	-558.8	343.7	301.7	42.00	8.185
11,020.0	10,936.0	10,978.7	10,945.6	33.1	11.0	139.39		-622.8	-559.2	341.6	299.2	42.37	8.061
11,115.0	11,031.0	11,074.5	11,041.3	33.4	11.0	139.20		-620.9	-559.4	340.0	297.3	42.77	7.950
11,210.0	11,126.0	11,166.5	11,133.3	33.7	11.0	139.03		-619.3	-559.3	338.8	295.7	43.16	7.851
11,293.2	11,209.2	11,246.7	11,213.5	34.0	11.0	138.87		-618.3	-559.0	338.3	294.8	43.50	7.777
11,305.0	11,221.0	11,257.6	11,224.3	34.0	11.0	138.84		-618.2	-558.9	338.3	294.7	43.54	7.769
11,400.0	11,316.0	11,350.3	11,317.0	34.4	11.0	138.62		-617.9	-557.4	339.0	295.1	43.91	7.721
11,495.0	11,411.0	11,442.9	11,409.6	34.7	11.0	138.34		-617.6	-555.4	340.2	295.9	44.27	7.684
11,590.0	11,506.0	11,537.3	11,504.0	35.0	11.0	138.01		-617.6	-552.8	341.9	297.3	44.64	7.660
11,685.0	11,601.0	11,631.0	11,597.6	35.3	11.0	137.65		-617.5	-549.9	343.8	298.8	45.00	7.640
11,780.0	11,696.0	11,725.4	11,692.1	35.6	11.0	137.33		-617.8	-547.1	345.9	300.6	45.36	7.625
11,875.0	11,791.0	11,818.7	11,785.3	36.0	11.0	137.05		-618.3	-544.3	348.2	302.5	45.73	7.615
11,970.0	11,886.0	11,906.8	11,873.3	36.3	11.0	136.79		-619.6	-541.0	351.7	305.6	46.11	7.628
12,065.0	11,981.0	11,990.9	11,957.2	36.6	11.0	136.51		-622.3	-536.0	357.8	311.3	46.53	7.691
12,160.0	12,076.0	12,090.7	12,056.8	36.9	11.2	136.36		-626.9	-530.3	364.8	317.9	46.89	7.799
12,255.0	12,171.0	12,306.8	12,271.0	37.2	11.2	135.28		-614.5	-532.9	366.0	316.0	50.01	7.319
12,350.0	12,265.5	12,459.7	12,411.3	37.2	11.3	-55.49		-557.6	-549.4	329.2	276.8	52.36	6.287
12,445.0	12,356.5	12,560.8	12,491.8	37.2	11.3	-78.40		-498.1	-562.5	273.7	220.2	53.49	5.117
12,540.0	12,440.4	12,600.3	12,520.1	37.2	11.4	-94.41		-471.2	-568.4	227.2	175.1	52.02	4.367
12,616.6	12,500.6	12,609.3	12,526.4	37.2	11.4	-98.56		-464.9	-569.8	213.1	163.7	49.39	4.315 CC, ES, SF
12,635.0	12,513.9	12,609.4	12,526.5	37.2	11.4	-98.49		-464.8	-569.8	214.0	165.1	48.87	4.378
12,730.0	12,574.0	12,599.9	12,519.9	37.3	11.4	-92.24		-471.5	-568.3	242.8	194.3	48.49	5.008
12,825.0	12,618.5	12,577.5	12,504.1	37.4	11.3	-78.18		-486.9	-564.9	299.6	249.9	49.66	6.032
12,920.0	12,645.6	12,548.9	12,483.0	37.5	11.3	-61.71		-505.8	-560.8	367.5	317.1	50.40	7.291
13,015.0	12,654.2	12,514.2	12,456.1	37.6	11.3	-47.50		-527.2	-556.1	436.9	386.3	50.69	8.620
13,110.0	12,651.4	12,490.0	12,436.6	37.7	11.3	-44.46		-541.3	-553.0	506.9	456.3	50.58	10.022
13,205.0	12,648.5	12,442.0	12,396.1	37.8	11.2	-40.58		-566.4	-547.5	581.0	530.1	50.81	11.435
13,300.0	12,645.6	12,442.0	12,396.1	38.0	11.2	-40.58		-566.4	-547.5	658.5	608.1	50.38	13.071
13,395.0	12,642.6	12,409.5	12,367.2	38.1	11.2	-38.16		-581.1	-544.3	738.6	688.1	50.42	14.648
13,490.0	12,639.7	12,395.0	12,354.1	38.3	11.2	-37.15		-587.0	-542.9	821.0	770.7	50.26	16.335
13,585.0	12,636.8	12,395.0	12,354.1	38.5	11.2	-37.15		-587.0	-542.9	905.6	855.6	49.97	18.123
13,680.0	12,633.9	12,368.7	12,329.9	38.7	11.2	-35.42		-596.8	-540.2	990.9	940.9	49.99	19.822

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #702H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12350-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	1.6	1.6	3.0	4.2	175.74	-532.6	39.7	534.1				
95.0	95.0	101.9	101.9	3.0	4.2	175.76	-532.1	39.4	533.6	526.4	7.24	73.672	
190.0	190.0	198.0	198.0	3.0	4.2	175.81	-530.9	38.9	532.4	525.1	7.25	73.434	
285.0	285.0	293.9	293.8	3.0	4.3	175.90	-529.8	38.0	531.2	523.9	7.26	73.117	
380.0	380.0	388.6	388.5	3.0	4.3	175.98	-528.5	37.1	529.9	522.6	7.29	72.700	
475.0	475.0	482.3	482.3	3.0	4.3	176.07	-527.5	36.3	528.8	521.4	7.32	72.243	
570.0	570.0	578.6	578.5	3.1	4.3	176.18	-526.4	35.2	527.6	520.2	7.36	71.714	
665.0	665.0	673.3	673.3	3.1	4.3	176.28	-525.2	34.1	526.4	519.0	7.40	71.107	
752.6	752.6	754.2	754.1	3.1	4.3	176.36	-524.6	33.4	525.7	518.3	7.45	70.596	
760.0	760.0	761.1	761.0	3.1	4.3	176.36	-524.7	33.4	525.7	518.3	7.45	70.568	
855.0	855.0	853.7	853.6	3.2	4.3	176.38	-525.0	33.2	526.1	518.6	7.48	70.290	
950.0	950.0	948.7	948.7	3.2	4.3	176.40	-525.6	33.1	526.6	519.1	7.53	69.979	
1,045.0	1,045.0	1,043.6	1,043.5	3.3	4.3	176.41	-526.1	33.0	527.1	519.6	7.57	69.595	
1,140.0	1,140.0	1,145.2	1,145.1	3.3	4.4	176.43	-526.4	32.9	527.5	519.8	7.63	69.093	
1,235.0	1,235.0	1,244.3	1,244.3	3.4	4.4	176.46	-525.2	32.5	526.3	518.6	7.71	68.264	
1,330.0	1,330.0	1,360.2	1,360.0	3.4	4.4	176.63	-521.0	30.7	522.7	514.9	7.79	67.121	
1,425.0	1,425.0	1,472.0	1,471.5	3.5	4.4	176.90	-513.3	27.8	516.0	508.2	7.86	65.611	
1,520.0	1,520.0	1,568.0	1,567.1	3.6	4.5	177.18	-505.0	24.9	507.7	499.7	7.96	63.783	
1,615.0	1,615.0	1,671.9	1,670.5	3.6	4.5	177.51	-494.5	21.5	497.9	489.9	8.05	61.844	
1,710.0	1,710.0	1,766.2	1,764.2	3.7	4.6	177.83	-484.5	18.3	487.7	479.5	8.16	59.771	
1,805.0	1,805.0	1,860.6	1,857.9	3.8	4.6	178.17	-474.4	15.1	477.4	469.1	8.27	57.717	
1,900.0	1,900.0	1,954.2	1,951.0	3.9	4.6	178.50	-464.5	12.1	467.3	458.9	8.39	55.692	
1,995.0	1,995.0	2,049.0	2,045.2	3.9	4.7	178.84	-454.4	9.2	457.1	448.6	8.51	53.698	
2,090.0	2,090.0	2,143.7	2,139.3	4.0	4.7	-66.21	-444.4	6.2	446.4	437.8	8.62	51.801	
2,185.0	2,184.9	2,238.1	2,233.1	4.2	4.8	-66.66	-434.3	3.6	434.4	425.7	8.72	49.826	
2,280.0	2,279.6	2,332.4	2,326.8	4.9	4.9	-67.58	-424.2	1.2	421.1	412.3	8.84	47.634	
2,375.0	2,373.9	2,426.8	2,420.6	5.5	4.9	-69.01	-413.8	-1.0	406.5	397.6	8.99	45.239	
2,470.0	2,467.9	2,520.6	2,513.9	6.0	5.0	-71.00	-403.3	-3.2	390.9	381.8	9.15	42.704	
2,565.0	2,561.3	2,611.1	2,603.7	6.5	5.0	-73.49	-393.2	-5.5	374.7	365.4	9.35	40.088	
2,660.0	2,654.3	2,700.0	2,692.1	6.9	5.1	-76.08	-384.5	-8.9	359.6	350.1	9.58	37.553	
2,755.0	2,747.2	2,792.6	2,784.2	7.1	5.2	-78.87	-375.6	-12.5	345.4	335.5	9.86	35.037	
2,850.0	2,840.2	2,883.8	2,874.9	7.3	5.2	-81.90	-366.8	-15.9	332.1	321.9	10.19	32.596	
2,945.0	2,933.1	2,972.2	2,962.9	7.5	5.3	-84.97	-359.4	-19.2	320.9	310.3	10.56	30.387	
3,040.0	3,026.0	3,064.3	3,054.7	7.7	5.4	-88.36	-351.9	-22.6	311.1	300.1	10.97	28.365	
3,135.0	3,118.9	3,157.0	3,147.1	7.9	5.4	-92.04	-344.4	-25.7	302.7	291.3	11.41	26.524	
3,230.0	3,211.9	3,249.3	3,239.0	8.1	5.5	-95.90	-336.9	-28.7	295.6	283.7	11.88	24.872	
3,325.0	3,304.8	3,342.0	3,331.3	8.3	5.6	-99.93	-329.3	-31.7	289.9	277.6	12.38	23.428	
3,420.0	3,397.7	3,436.4	3,425.3	8.6	5.7	-104.14	-321.4	-35.2	285.4	272.5	12.88	22.158	
3,515.0	3,490.6	3,529.3	3,517.8	8.8	5.7	-108.39	-313.3	-38.8	282.2	268.8	13.39	21.070	
3,610.0	3,583.5	3,625.8	3,613.8	9.1	5.8	-112.70	-304.9	-43.9	279.7	265.8	13.90	20.128	
3,705.0	3,676.5	3,719.0	3,706.5	9.4	5.9	-116.82	-296.8	-49.5	278.2	263.8	14.39	19.327	
3,755.2	3,725.6	3,768.0	3,755.2	9.5	5.9	-119.02	-292.5	-52.5	278.0	263.3	14.65	18.970 CC	
3,800.0	3,769.4	3,811.7	3,798.6	9.6	6.0	-121.00	-288.5	-55.0	278.1	263.3	14.88	18.692 ES	
3,895.0	3,862.3	3,897.6	3,884.1	9.9	6.1	-124.82	-281.2	-59.7	280.3	264.9	15.34	18.271	
3,990.0	3,955.2	3,989.2	3,975.5	10.2	6.1	-128.43	-276.1	-63.9	285.8	270.0	15.78	18.111	
4,085.0	4,048.2	4,082.5	4,068.5	10.5	6.2	-131.98	-270.8	-68.1	292.5	276.3	16.21	18.047	
4,180.0	4,141.1	4,176.3	4,162.0	10.8	6.3	-135.38	-265.4	-72.5	300.1	283.5	16.62	18.062	
4,275.0	4,234.0	4,269.6	4,255.1	11.1	6.4	-138.58	-260.0	-77.0	308.7	291.6	17.01	18.143	
4,370.0	4,326.9	4,362.0	4,347.3	11.4	6.5	-141.63	-254.4	-81.4	318.1	300.7	17.39	18.291	
4,465.0	4,419.9	4,454.1	4,439.1	11.7	6.6	-144.54	-248.6	-85.5	328.6	310.9	17.76	18.508	
4,560.0	4,512.8	4,541.9	4,526.6	12.0	6.7	-147.19	-242.8	-88.7	340.7	322.6	18.10	18.827	
4,655.0	4,605.7	4,629.1	4,613.6	12.3	6.8	-149.69	-237.1	-90.4	355.2	336.8	18.42	19.286	

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #702H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12350-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,750.0	4,698.6	4,714.3	4,698.6	12.7	6.8	-151.89	-231.9	-90.7	371.8	353.1	18.71	19.870	
4,845.0	4,791.6	4,801.5	4,785.8	13.0	6.9	-153.76	-228.0	-89.4	390.7	371.7	19.00	20.566	
4,940.0	4,884.5	4,907.4	4,891.6	13.3	7.0	-155.67	-224.3	-88.8	409.2	389.8	19.37	21.128	
5,035.0	4,977.4	5,008.8	4,992.8	13.6	7.1	-157.26	-221.4	-91.8	424.6	404.9	19.75	21.501	
5,130.0	5,070.3	5,093.7	5,077.7	14.0	7.2	-158.46	-219.3	-94.0	440.7	420.6	20.07	21.958	
5,225.0	5,163.3	5,179.4	5,163.4	14.3	7.3	-159.44	-218.1	-94.6	458.7	438.3	20.38	22.506	
5,320.0	5,256.2	5,264.7	5,248.6	14.6	7.3	-160.26	-217.6	-93.6	478.4	457.8	20.67	23.148	
5,415.0	5,349.1	5,358.1	5,342.1	15.0	7.3	-161.07	-217.1	-91.9	498.8	477.8	20.99	23.763	
5,510.0	5,442.0	5,448.0	5,432.0	15.3	7.3	-161.74	-217.0	-90.1	519.4	498.1	21.31	24.379	
5,605.0	5,534.9	5,540.9	5,524.9	15.6	7.3	-162.34	-217.3	-88.1	540.3	518.6	21.64	24.962	
5,700.0	5,627.9	5,637.8	5,621.7	16.0	7.3	-162.91	-217.6	-86.0	561.1	539.1	22.00	25.503	
5,795.0	5,720.8	5,739.8	5,723.7	16.3	7.4	-163.55	-217.5	-85.9	580.1	557.7	22.41	25.888	
5,890.0	5,813.8	5,835.2	5,819.1	16.6	7.5	-164.17	-217.1	-86.4	598.5	575.7	22.78	26.271	
5,985.0	5,907.0	5,928.2	5,912.1	17.0	7.6	-164.71	-216.8	-87.0	615.5	592.3	23.15	26.583	
6,080.0	6,000.5	6,019.9	6,003.8	17.3	7.7	-165.18	-216.5	-87.4	631.2	607.7	23.52	26.837	
6,175.0	6,094.3	6,115.1	6,099.0	17.6	7.8	-165.61	-216.0	-88.0	645.4	621.5	23.90	27.005	
6,270.0	6,188.3	6,209.5	6,193.4	18.0	7.9	-165.99	-215.5	-88.4	658.2	633.9	24.27	27.117	
6,365.0	6,282.6	6,301.8	6,285.7	18.3	8.0	-166.30	-215.1	-88.9	669.5	644.8	24.64	27.174	
6,460.0	6,377.0	6,397.1	6,381.0	18.6	8.1	-166.58	-214.6	-89.3	679.3	654.3	25.01	27.163	
6,555.0	6,471.6	6,491.3	6,475.2	19.0	8.2	-166.81	-214.2	-89.6	687.7	662.3	25.37	27.105	
6,650.0	6,566.3	6,585.1	6,569.0	19.3	8.3	-167.01	-213.7	-89.9	694.6	668.9	25.73	26.994	
6,745.0	6,661.1	6,679.4	6,663.3	19.6	8.4	-167.17	-213.2	-90.2	700.0	673.9	26.09	26.829	
6,840.0	6,756.1	6,775.6	6,759.5	19.9	8.5	-167.30	-212.7	-90.5	703.8	677.3	26.46	26.600	
6,935.0	6,851.0	6,871.8	6,855.7	20.2	8.6	-167.41	-212.0	-90.9	706.0	679.2	26.82	26.324	
7,030.0	6,946.0	6,968.0	6,951.8	20.5	8.7	-167.49	-211.4	-91.6	706.5	679.3	27.18	25.995	
7,125.0	7,041.0	7,061.9	7,045.8	20.8	8.8	77.52	-210.9	-92.3	705.9	678.4	27.51	25.664	
7,220.0	7,136.0	7,155.5	7,139.4	21.1	8.9	77.46	-210.3	-92.7	705.7	677.8	27.84	25.351	
7,315.0	7,231.0	7,253.7	7,237.5	21.4	9.0	77.41	-209.8	-93.4	705.1	676.9	28.19	25.010	
7,410.0	7,326.0	7,347.2	7,331.0	21.6	9.1	77.36	-209.3	-93.9	704.6	676.1	28.53	24.695	
7,505.0	7,421.0	7,439.5	7,423.4	21.9	9.2	77.31	-208.8	-94.4	704.3	675.4	28.87	24.395	
7,600.0	7,516.0	7,535.6	7,519.4	22.2	9.3	77.27	-208.3	-94.6	704.2	675.0	29.21	24.104	
7,695.0	7,611.0	7,631.1	7,615.0	22.5	9.4	77.23	-207.9	-95.1	703.8	674.2	29.57	23.801	
7,790.0	7,706.0	7,725.0	7,708.9	22.8	9.5	77.20	-207.7	-95.5	703.5	673.6	29.92	23.513	
7,833.3	7,749.3	7,767.0	7,750.8	22.9	9.6	77.19	-207.5	-95.5	703.5	673.4	30.07	23.392	
7,885.0	7,801.0	7,818.5	7,802.3	23.0	9.6	77.18	-207.4	-95.6	703.5	673.2	30.26	23.250	
7,980.0	7,896.0	7,916.7	7,900.5	23.3	9.7	77.13	-206.9	-95.9	703.3	672.7	30.62	22.969	
8,075.0	7,991.0	8,011.4	7,995.2	23.6	9.8	77.10	-206.6	-96.3	702.9	672.0	30.98	22.690	
8,170.0	8,086.0	8,103.4	8,087.3	23.9	9.9	77.09	-206.5	-96.5	702.7	671.4	31.33	22.427	
8,212.4	8,128.5	8,147.0	8,130.9	24.0	9.9	77.08	-206.4	-96.6	702.7	671.2	31.50	22.311	
8,265.0	8,181.0	8,200.4	8,184.3	24.2	10.0	77.06	-206.2	-96.7	702.6	670.9	31.70	22.166	
8,360.0	8,276.0	8,294.8	8,278.6	24.5	10.1	77.05	-206.1	-97.0	702.3	670.3	32.06	21.905	
8,455.0	8,371.0	8,388.8	8,372.7	24.8	10.1	77.07	-206.4	-97.0	702.3	669.8	32.42	21.660	
8,481.7	8,397.8	8,415.4	8,399.3	24.9	10.1	77.08	-206.5	-97.0	702.2	669.7	32.52	21.594	
8,550.0	8,466.0	8,483.2	8,467.0	25.1	10.0	77.12	-206.9	-96.9	702.3	669.5	32.77	21.430	
8,645.0	8,561.0	8,578.5	8,562.4	25.4	10.0	77.17	-207.5	-96.7	702.3	669.2	33.12	21.205	
8,740.0	8,656.0	8,671.4	8,655.2	25.7	10.0	77.21	-208.0	-96.4	702.5	669.0	33.46	20.995	
8,835.0	8,751.0	8,767.1	8,750.9	26.0	10.0	77.25	-208.5	-96.1	702.7	668.9	33.81	20.782	
8,930.0	8,846.0	8,862.1	8,846.0	26.3	9.9	77.28	-208.8	-95.9	702.9	668.7	34.15	20.580	
9,025.0	8,941.0	8,954.6	8,938.4	26.6	9.9	77.28	-208.7	-95.4	703.3	668.8	34.48	20.399	
9,120.0	9,036.0	9,049.6	9,033.5	26.9	10.0	77.27	-208.3	-95.0	703.9	669.1	34.81	20.219	
9,215.0	9,131.0	9,144.7	9,128.5	27.2	10.1	77.22	-207.7	-94.6	704.4	669.2	35.15	20.036	
9,310.0	9,226.0	9,239.7	9,223.6	27.5	10.2	77.14	-206.7	-94.2	705.0	669.5	35.50	19.858	

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	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 FE D PROJECT - GREEN EYESHAD FE DERAL COM #702H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12350-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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	9,321.0	9,333.6	9,317.4	27.8	10.2	77.03	-205.2	-94.0	705.5	669.6	35.85	19.680	
9,500.0	9,416.0	9,433.3	9,417.1	28.1	10.4	76.90	-203.4	-94.0	705.9	669.7	36.22	19.491	
9,595.0	9,511.0	9,528.9	9,512.6	28.4	10.5	76.74	-201.6	-94.5	705.8	669.2	36.58	19.294	
9,690.0	9,606.0	9,625.0	9,608.8	28.7	10.6	76.59	-199.9	-95.2	705.5	668.6	36.95	19.094	
9,755.5	9,671.5	9,689.2	9,673.0	28.9	10.7	76.51	-198.9	-95.6	705.4	668.2	37.20	18.965	
9,785.0	9,701.0	9,718.0	9,701.8	29.0	10.7	76.47	-198.4	-95.6	705.4	668.1	37.31	18.910	
9,880.0	9,796.0	9,812.6	9,796.4	29.3	10.8	76.37	-197.2	-95.8	705.5	667.9	37.67	18.732	
9,975.0	9,891.0	9,908.3	9,892.0	29.6	10.9	76.30	-196.4	-95.9	705.7	667.6	38.03	18.555	
10,070.0	9,986.0	10,007.2	9,990.9	29.9	11.0	76.29	-196.3	-96.1	705.5	667.0	38.43	18.358	
10,165.0	10,081.0	10,102.5	10,086.3	30.3	11.0	76.33	-196.9	-96.6	704.9	666.0	38.82	18.159	
10,260.0	10,176.0	10,198.6	10,182.3	30.6	11.0	76.37	-197.5	-97.0	704.3	665.1	39.21	17.964	
10,355.0	10,271.0	10,291.9	10,275.6	30.9	11.1	76.35	-197.4	-97.6	703.8	664.2	39.59	17.776	
10,450.0	10,366.0	10,385.5	10,369.3	31.2	11.2	76.29	-196.8	-98.1	703.4	663.5	39.96	17.601	
10,479.3	10,395.3	10,413.1	10,396.8	31.3	11.2	76.27	-196.6	-98.2	703.4	663.3	40.07	17.552	
10,545.0	10,461.0	10,475.0	10,458.7	31.5	11.3	76.23	-196.0	-98.2	703.6	663.2	40.31	17.454	
10,640.0	10,556.0	10,561.7	10,545.4	31.8	11.3	76.23	-195.7	-97.2	704.7	664.0	40.64	17.341	
10,735.0	10,651.0	10,654.2	10,637.9	32.1	11.3	76.29	-196.0	-95.3	706.5	665.5	40.98	17.238	
10,830.0	10,746.0	10,749.8	10,733.5	32.5	11.4	76.28	-195.5	-93.4	708.5	667.1	41.34	17.138	
10,925.0	10,841.0	10,844.2	10,827.9	32.8	11.4	76.23	-194.5	-91.7	710.3	668.6	41.69	17.037	
11,020.0	10,936.0	10,940.9	10,924.5	33.1	11.5	76.14	-192.9	-90.1	712.2	670.2	42.05	16.936	
11,115.0	11,031.0	11,036.9	11,020.5	33.4	11.6	76.02	-191.1	-88.9	713.9	671.4	42.42	16.830	
11,210.0	11,126.0	11,134.3	11,117.9	33.7	11.6	75.89	-189.2	-87.8	715.3	672.5	42.79	16.718	
11,305.0	11,221.0	11,229.6	11,213.2	34.0	11.7	75.77	-187.4	-87.0	716.6	673.4	43.15	16.605	
11,400.0	11,316.0	11,324.3	11,307.8	34.4	11.8	75.63	-185.4	-86.2	717.8	674.3	43.52	16.494	
11,495.0	11,411.0	11,418.5	11,402.0	34.7	11.9	75.46	-182.9	-85.4	719.2	675.3	43.89	16.388	
11,590.0	11,506.0	11,537.1	11,520.5	35.0	12.1	75.16	-179.5	-87.0	718.6	674.2	44.35	16.202	
11,685.0	11,601.0	11,633.9	11,617.3	35.3	12.2	74.95	-177.3	-89.3	716.9	672.2	44.74	16.023	
11,780.0	11,696.0	11,734.1	11,717.5	35.6	12.2	74.93	-177.7	-91.7	714.7	669.5	45.16	15.826	
11,875.0	11,791.0	11,832.1	11,815.4	36.0	12.3	75.01	-179.5	-94.4	711.7	666.1	45.57	15.618	
11,970.0	11,886.0	11,923.9	11,907.2	36.3	12.3	75.06	-180.8	-96.9	708.8	662.9	45.95	15.427	
12,065.0	11,981.0	12,017.6	12,000.9	36.6	12.3	75.07	-181.6	-99.2	706.3	660.0	46.34	15.243	
12,160.0	12,076.0	12,111.4	12,094.6	36.9	12.4	75.07	-182.2	-101.6	703.9	657.1	46.73	15.063	
12,255.0	12,171.0	12,206.6	12,189.7	37.2	12.5	75.08	-183.0	-103.8	701.5	654.5	47.04	14.913	
12,305.9	12,221.9	12,258.0	12,241.1	37.2	12.5	-104.66	-183.3	-105.0	700.9	653.8	47.09	14.884 SF	
12,350.0	12,265.5	12,298.7	12,281.8	37.2	12.5	-105.01	-183.6	-106.0	701.3	654.2	47.10	14.889	
12,445.0	12,356.5	12,393.5	12,376.6	37.2	12.5	-106.47	-184.5	-108.0	706.6	659.5	47.11	14.999	
12,540.0	12,440.4	12,467.8	12,450.9	37.2	12.5	-107.70	-185.0	-109.9	718.8	671.7	47.05	15.276	
12,635.0	12,513.9	12,511.9	12,494.8	37.2	12.6	-107.24	-181.6	-111.1	742.5	695.5	47.02	15.791	
12,730.0	12,574.0	12,539.0	12,521.6	37.3	12.6	-104.43	-177.5	-111.9	779.5	732.3	47.13	16.539	
12,825.0	12,618.5	12,539.0	12,521.6	37.4	12.6	-97.59	-177.5	-111.9	828.9	781.5	47.41	17.483	
12,920.0	12,645.6	12,539.0	12,521.6	37.5	12.6	-88.62	-177.5	-111.9	887.7	840.0	47.66	18.626	
13,015.0	12,654.2	12,539.0	12,521.6	37.6	12.6	-78.22	-177.5	-111.9	952.0	904.2	47.78	19.923	

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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: PITCHBLEND 24-25 FEDERAL PROJECT - PITCHBLEND 24-25 FED 604H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12070-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,570.0	12,452.7	12,200.0	12,164.2	67.0	14.2	-52.01	-8,278.7	-408.6	970.1	910.9	59.24	16.377		
19,665.0	12,449.7	12,213.3	12,176.9	67.6	14.2	-53.57	-8,282.4	-408.5	883.2	822.9	60.30	14.648		
19,760.0	12,446.8	12,225.0	12,188.1	68.2	14.2	-54.98	-8,286.0	-408.5	798.0	736.3	61.65	12.944		
19,855.0	12,443.9	12,234.8	12,197.3	68.8	14.2	-56.19	-8,289.3	-408.5	714.8	651.4	63.40	11.273		
19,950.0	12,441.0	12,250.0	12,211.6	69.4	14.2	-58.14	-8,294.7	-408.4	634.3	568.8	65.51	9.682		
20,045.0	12,438.1	12,264.5	12,224.9	70.0	14.2	-60.03	-8,300.2	-408.4	557.5	489.3	68.23	8.171		
20,140.0	12,435.1	12,283.9	12,242.6	70.7	14.2	-62.67	-8,308.3	-408.3	486.0	414.5	71.50	6.796		
20,235.0	12,432.2	12,307.7	12,263.8	71.3	14.2	-66.00	-8,319.1	-408.2	421.7	346.5	75.29	5.602		
20,307.0	12,430.0	12,329.5	12,282.7	71.7	14.2	-69.14	-8,330.0	-408.1	379.8	301.5	78.26	4.853 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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	PITCHBLENDE 24-25 FEDERAL PROJECT - PITCHBLENDE 24-25 FED 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	Vertical	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)	
20,235.0	12,432.2	12,283.2	12,233.3	71.3	13.8	80.06	-8,432.0	-1,606.3	983.9	904.5	79.36	12.397		
20,307.0	12,430.0	12,300.0	12,248.4	71.7	13.9	81.01	-8,439.4	-1,606.2	959.1	878.4	80.70	11.885 CC, ES, SF		

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: PITCHBLEND 24-25 FEDERAL PROJECT - PITCHBLEND 24-25 FED 703H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12323-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,950.0	12,441.0	12,375.0	12,370.6	69.4	16.4	-88.04	-8,259.7	121.3	965.2	889.7	75.56	12.775		
20,045.0	12,438.1	12,375.0	12,370.6	70.0	16.4	-88.04	-8,259.7	121.3	920.5	843.3	77.18	11.926		
20,140.0	12,435.1	12,375.0	12,370.6	70.7	16.4	-88.04	-8,259.7	121.3	883.7	805.0	78.68	11.232		
20,235.0	12,432.2	12,383.5	12,379.0	71.3	16.4	-88.62	-8,260.6	121.3	855.8	775.9	79.95	10.704		
20,307.0	12,430.0	12,388.8	12,384.3	71.7	16.4	-88.99	-8,261.4	121.3	841.3	760.6	80.73	10.421	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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	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 704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12413-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	12,452.7	12,450.0	12,355.1	67.0	15.1	82.06	-8,267.3	-1,023.6	925.7	869.5	56.17	16.481	
19,665.0	12,449.7	12,450.0	12,355.1	67.6	15.1	82.06	-8,267.3	-1,023.6	837.1	780.1	56.97	14.695	
19,760.0	12,446.8	12,450.0	12,355.1	68.2	15.1	82.06	-8,267.3	-1,023.6	750.1	692.0	58.05	12.920	
19,855.0	12,443.9	12,457.6	12,362.7	68.8	15.1	83.43	-8,267.9	-1,023.6	665.2	605.6	59.54	11.171	
19,950.0	12,441.0	12,460.5	12,365.6	69.4	15.1	83.95	-8,268.2	-1,023.6	583.4	521.7	61.64	9.465	
20,045.0	12,438.1	12,464.1	12,369.1	70.0	15.1	84.58	-8,268.6	-1,023.6	506.2	441.6	64.58	7.839	
20,140.0	12,435.1	12,468.4	12,373.4	70.7	15.1	85.37	-8,269.1	-1,023.6	436.1	367.4	68.64	6.353	
20,235.0	12,432.2	12,475.0	12,379.9	71.3	15.1	86.55	-8,269.9	-1,023.6	376.8	303.0	73.88	5.101	
20,307.0	12,430.0	12,479.4	12,384.3	71.7	15.1	87.35	-8,270.5	-1,023.6	342.8	264.5	78.32	4.377	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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	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		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
20,045.0	12,438.1	12,469.0	12,424.9	70.0	14.3	90.76	-8,268.9	-1,607.0	978.9	901.0	77.86	12.572	
20,140.0	12,435.1	12,466.1	12,421.9	70.7	14.3	90.58	-8,268.9	-1,607.0	945.1	865.4	79.70	11.859	
20,235.0	12,432.2	12,463.1	12,419.0	71.3	14.3	90.39	-8,268.9	-1,607.0	920.0	838.8	81.28	11.320	
20,307.0	12,430.0	12,460.9	12,416.8	71.7	14.3	90.25	-8,268.9	-1,607.0	907.2	825.0	82.22	11.034	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 #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	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' @ 3410.1usft (TBD)

Offset Depths are relative to Offset Datum

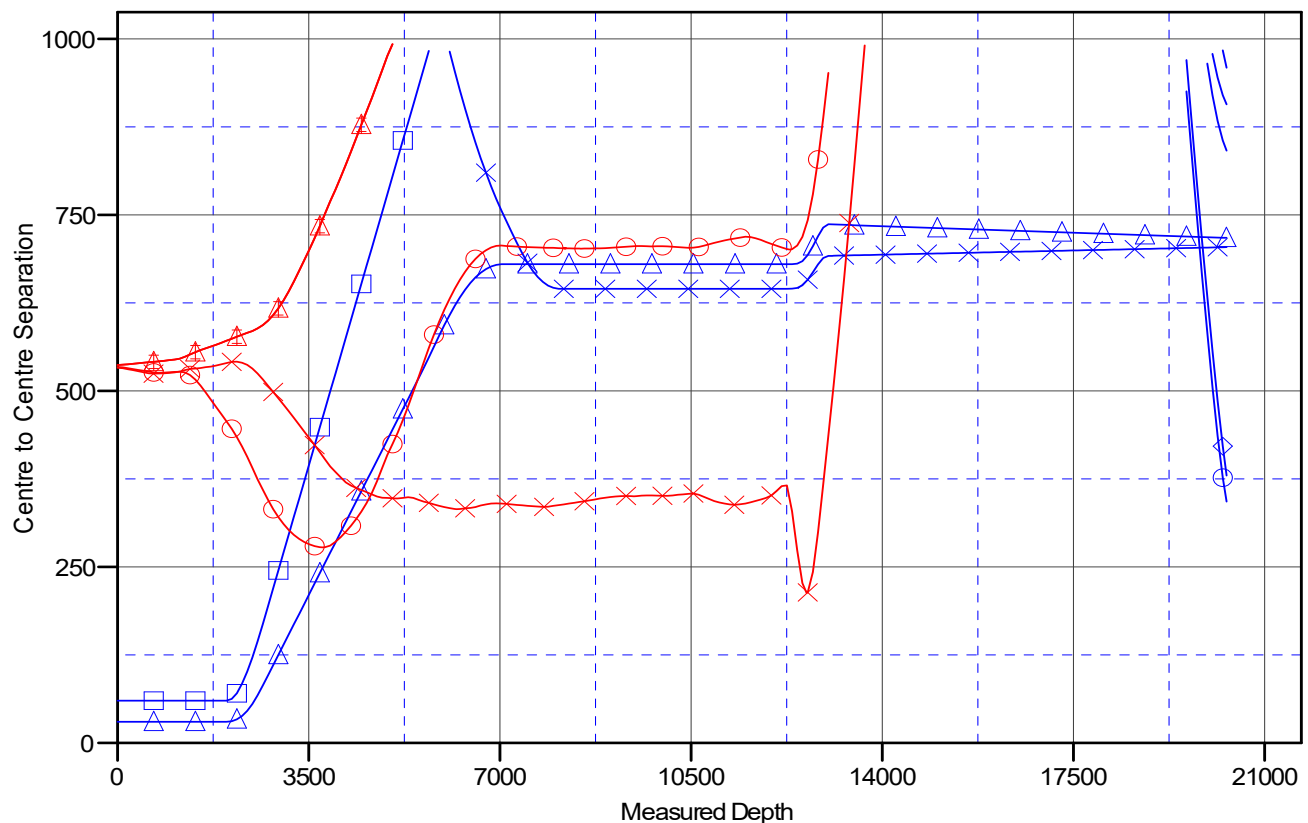
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: BANDANA FEDERAL COM #602H

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

Grid Convergence at Surface is: 0.49°

Ladder Plot



LEGEND

*BANDANA FEDERAL COM#601H, OWB, PWP0 V0	GREEN EYESHAD FEDERAL COM #601H, STD1, AWP V0	PITCHBLEND 24-25 FED 605H, OWB, PWP1 V0
BANDANA FEDERAL COM #602H, OWB, PWP0 V0	GREEN EYESHAD FEDERAL COM #602H, OWB, AWP V0	PITCHBLEND 24-25 FED 703H, OWB, PWP1 V0
BANDANA FEDERAL COM #603H, OWB, PWP0 V0	GREEN EYESHAD FEDERAL COM #703H, OWB, AWP V0	PITCHBLEND 24-25 FED 704H, OWB, PWP1 V0
GREEN EYESHAD FEDERAL COM #601H, OWB, AWP V0	PITCHBLEND 24-25 FED 604H, OWB, PWP1 V0	PITCHBLEND 24-25 FED 803H, OWB, PWP1 V0

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #602H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #602H	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' @ 3410.1usft (TBD)

Offset Depths are relative to Offset Datum

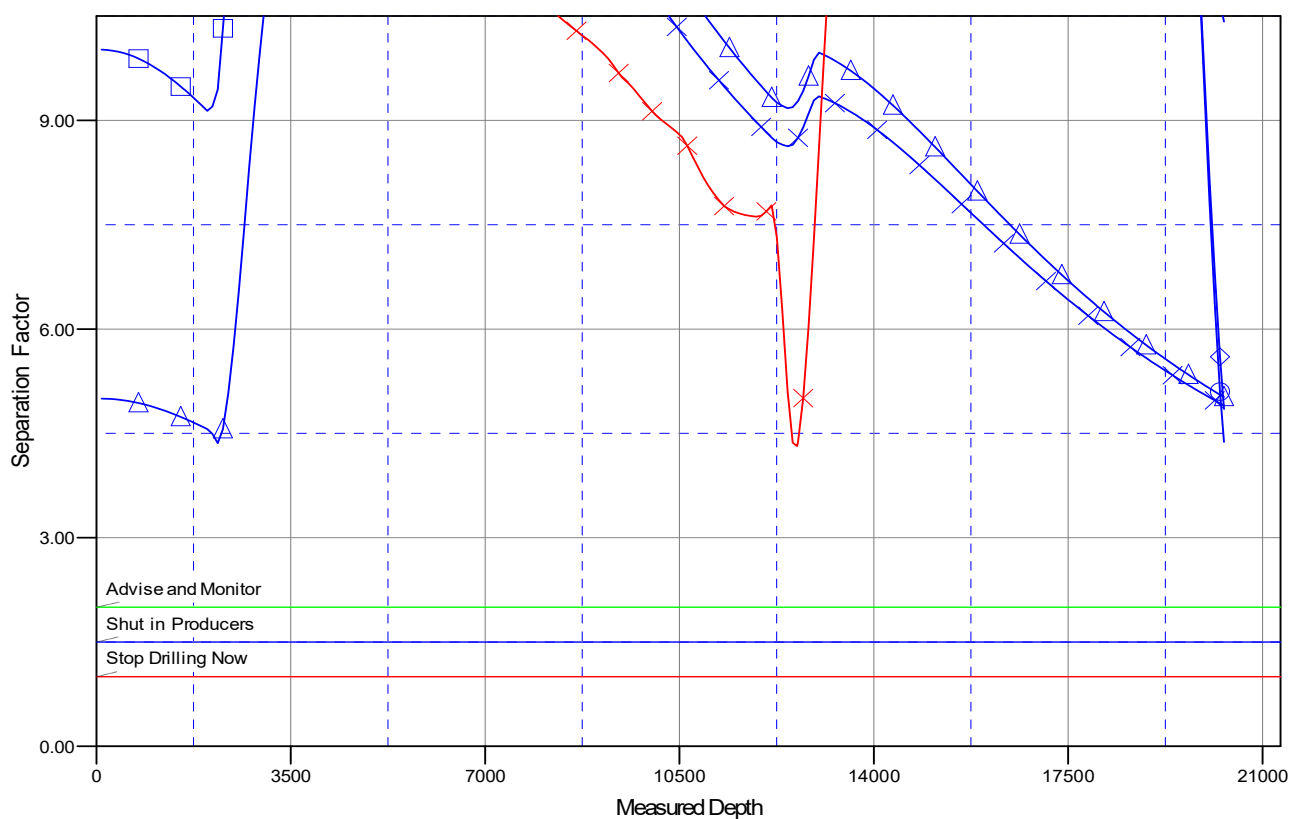
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: BANDANA FEDERAL COM #602H

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

Grid Convergence at Surface is: 0.49°

Separation Factor Plot



LEGEND

	*BANDANA FEDERAL COM #601H, OWB, PWP0 V0		GREEN EYESHAD FEDERAL COM #601H, STD1, AWP V0		PITCHBLEND 24-25 FED 605H, OWB, PWP1 V0
	BANDANA FEDERAL COM #602H, OWB, PWP0 V0		GREEN EYESHAD FEDERAL COM #602H, OWB, AWP V0		PITCHBLEND 24-25 FED 703H, OWB, PWP1 V0
	BANDANA FEDERAL COM #603H, OWB, PWP0 V0		GREEN EYESHAD FEDERAL COM #703H, OWB, AWP V0		PITCHBLEND 24-25 FED 704H, OWB, PWP1 V0
	GREEN EYESHAD FEDERAL COM #601H, OWB, AWP V0		PITCHBLEND 24-25 FED 604H, OWB, PWP1 V0		PITCHBLEND 24-25 FED 803H, OWB, PWP1 V0

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

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

BANDANA FEDERAL PROJECT

BANDANA FEDERAL COM #602H

300254979500

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 #602H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #602H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	BULLDOG PROSPECT (NM-E)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

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

Well	BANDANA FEDERAL COM #602H					
Well Position	+N/-S	-2,392.5 usft	Northing:	417,869.60 usft	Latitude:	32° 8' 43.950 N
	+E/-W	-1,510.0 usft	Easting:	782,804.90 usft	Longitude:	103° 25' 10.612 W
Position Uncertainty		3.0 usft	Wellhead Elevation:		Ground Level:	3,380.1 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	1/1/2023	6.27	59.74	47,467.64555506

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	184.99

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	12,260.7 PWP0 (OWB)	MWD+IFR1+MS	
			OWSG MWD + IFR1 + Multi-St	
3	12,260.7	20,307.0 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 #602H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #602H	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	
2,600.0	12.00	245.06	2,595.7	-26.4	-56.8	2.00	2.00	0.00	245.06	
5,841.9	12.00	245.06	5,766.7	-310.7	-668.0	0.00	0.00	0.00	0.00	
7,042.0	0.00	0.00	6,958.0	-363.5	-781.5	1.00	-1.00	0.00	180.00	
12,260.7	0.00	0.00	12,176.8	-363.5	-781.5	0.00	0.00	0.00	0.00	
13,025.4	91.76	179.47	12,654.0	-855.6	-777.0	12.00	12.00	23.47	179.47	
20,256.9	91.76	179.47	12,431.5	-8,083.4	-710.4	0.00	0.00	0.00	0.00	
20,307.0	91.76	179.47	12,430.0	-8,133.4	-709.9	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #602H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #602H	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	245.06	2,100.0	-0.7	-1.6	0.9	2.00	2.00	0.00
2,200.0	4.00	245.06	2,199.8	-2.9	-6.3	3.5	2.00	2.00	0.00
2,300.0	6.00	245.06	2,299.5	-6.6	-14.2	7.8	2.00	2.00	0.00
2,400.0	8.00	245.06	2,398.7	-11.8	-25.3	13.9	2.00	2.00	0.00
2,500.0	10.00	245.06	2,497.5	-18.4	-39.5	21.7	2.00	2.00	0.00
2,600.0	12.00	245.06	2,595.7	-26.4	-56.8	31.2	2.00	2.00	0.00
Start 3241.9 hold at 2600.0 MD									
2,700.0	12.00	245.06	2,693.4	-35.2	-75.6	41.6	0.00	0.00	0.00
2,800.0	12.00	245.06	2,791.3	-43.9	-94.5	52.0	0.00	0.00	0.00
2,900.0	12.00	245.06	2,889.1	-52.7	-113.3	62.4	0.00	0.00	0.00
3,000.0	12.00	245.06	2,986.9	-61.5	-132.2	72.7	0.00	0.00	0.00
3,100.0	12.00	245.06	3,084.7	-70.2	-151.0	83.1	0.00	0.00	0.00
3,200.0	12.00	245.06	3,182.5	-79.0	-169.9	93.5	0.00	0.00	0.00
3,300.0	12.00	245.06	3,280.3	-87.8	-188.7	103.9	0.00	0.00	0.00
3,400.0	12.00	245.06	3,378.1	-96.6	-207.6	114.2	0.00	0.00	0.00
3,500.0	12.00	245.06	3,476.0	-105.3	-226.4	124.6	0.00	0.00	0.00
3,600.0	12.00	245.06	3,573.8	-114.1	-245.3	135.0	0.00	0.00	0.00
3,700.0	12.00	245.06	3,671.6	-122.9	-264.1	145.4	0.00	0.00	0.00
3,800.0	12.00	245.06	3,769.4	-131.6	-283.0	155.7	0.00	0.00	0.00
3,900.0	12.00	245.06	3,867.2	-140.4	-301.9	166.1	0.00	0.00	0.00
4,000.0	12.00	245.06	3,965.0	-149.2	-320.7	176.5	0.00	0.00	0.00
4,100.0	12.00	245.06	4,062.8	-157.9	-339.6	186.9	0.00	0.00	0.00
4,200.0	12.00	245.06	4,160.7	-166.7	-358.4	197.2	0.00	0.00	0.00
4,300.0	12.00	245.06	4,258.5	-175.5	-377.3	207.6	0.00	0.00	0.00
4,400.0	12.00	245.06	4,356.3	-184.2	-396.1	218.0	0.00	0.00	0.00
4,500.0	12.00	245.06	4,454.1	-193.0	-415.0	228.4	0.00	0.00	0.00
4,600.0	12.00	245.06	4,551.9	-201.8	-433.8	238.7	0.00	0.00	0.00
4,700.0	12.00	245.06	4,649.7	-210.6	-452.7	249.1	0.00	0.00	0.00
4,800.0	12.00	245.06	4,747.5	-219.3	-471.5	259.5	0.00	0.00	0.00
4,900.0	12.00	245.06	4,845.4	-228.1	-490.4	269.9	0.00	0.00	0.00
5,000.0	12.00	245.06	4,943.2	-236.9	-509.2	280.2	0.00	0.00	0.00
5,100.0	12.00	245.06	5,041.0	-245.6	-528.1	290.6	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #602H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #602H	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	245.06	5,138.8	-254.4	-546.9	301.0	0.00	0.00	0.00
5,300.0	12.00	245.06	5,236.6	-263.2	-565.8	311.4	0.00	0.00	0.00
5,400.0	12.00	245.06	5,334.4	-271.9	-584.6	321.7	0.00	0.00	0.00
5,500.0	12.00	245.06	5,432.2	-280.7	-603.5	332.1	0.00	0.00	0.00
5,600.0	12.00	245.06	5,530.1	-289.5	-622.4	342.5	0.00	0.00	0.00
5,700.0	12.00	245.06	5,627.9	-298.2	-641.2	352.9	0.00	0.00	0.00
5,800.0	12.00	245.06	5,725.7	-307.0	-660.1	363.2	0.00	0.00	0.00
5,841.9	12.00	245.06	5,766.7	-310.7	-668.0	367.6	0.00	0.00	0.00
Start Drop -1.00									
5,900.0	11.42	245.06	5,823.6	-315.7	-678.7	373.5	1.00	-1.00	0.00
6,000.0	10.42	245.06	5,921.7	-323.7	-695.8	382.9	1.00	-1.00	0.00
6,100.0	9.42	245.06	6,020.3	-330.9	-711.4	391.5	1.00	-1.00	0.00
6,200.0	8.42	245.06	6,119.0	-337.5	-725.5	399.3	1.00	-1.00	0.00
6,300.0	7.42	245.06	6,218.1	-343.3	-738.0	406.1	1.00	-1.00	0.00
6,400.0	6.42	245.06	6,317.4	-348.3	-748.9	412.1	1.00	-1.00	0.00
6,500.0	5.42	245.06	6,416.8	-352.7	-758.3	417.3	1.00	-1.00	0.00
6,600.0	4.42	245.06	6,516.5	-356.3	-766.1	421.6	1.00	-1.00	0.00
6,700.0	3.42	245.06	6,616.2	-359.2	-772.2	425.0	1.00	-1.00	0.00
6,800.0	2.42	245.06	6,716.1	-361.3	-776.9	427.5	1.00	-1.00	0.00
6,900.0	1.42	245.06	6,816.0	-362.8	-779.9	429.2	1.00	-1.00	0.00
7,000.0	0.42	245.06	6,916.0	-363.4	-781.4	430.0	1.00	-1.00	0.00
7,042.0	0.00	0.00	6,958.0	-363.5	-781.5	430.1	1.00	-1.00	0.00
Start 5218.8 hold at 7042.0 MD									
7,100.0	0.00	0.00	7,016.0	-363.5	-781.5	430.1	0.00	0.00	0.00
7,200.0	0.00	0.00	7,116.0	-363.5	-781.5	430.1	0.00	0.00	0.00
7,300.0	0.00	0.00	7,216.0	-363.5	-781.5	430.1	0.00	0.00	0.00
7,400.0	0.00	0.00	7,316.0	-363.5	-781.5	430.1	0.00	0.00	0.00
7,500.0	0.00	0.00	7,416.0	-363.5	-781.5	430.1	0.00	0.00	0.00
7,600.0	0.00	0.00	7,516.0	-363.5	-781.5	430.1	0.00	0.00	0.00
7,700.0	0.00	0.00	7,616.0	-363.5	-781.5	430.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,716.0	-363.5	-781.5	430.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,816.0	-363.5	-781.5	430.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,916.0	-363.5	-781.5	430.1	0.00	0.00	0.00
8,100.0	0.00	0.00	8,016.0	-363.5	-781.5	430.1	0.00	0.00	0.00
8,200.0	0.00	0.00	8,116.0	-363.5	-781.5	430.1	0.00	0.00	0.00
8,300.0	0.00	0.00	8,216.0	-363.5	-781.5	430.1	0.00	0.00	0.00
8,400.0	0.00	0.00	8,316.0	-363.5	-781.5	430.1	0.00	0.00	0.00
8,500.0	0.00	0.00	8,416.0	-363.5	-781.5	430.1	0.00	0.00	0.00
8,600.0	0.00	0.00	8,516.0	-363.5	-781.5	430.1	0.00	0.00	0.00
8,700.0	0.00	0.00	8,616.0	-363.5	-781.5	430.1	0.00	0.00	0.00
8,800.0	0.00	0.00	8,716.0	-363.5	-781.5	430.1	0.00	0.00	0.00
8,900.0	0.00	0.00	8,816.0	-363.5	-781.5	430.1	0.00	0.00	0.00
9,000.0	0.00	0.00	8,916.0	-363.5	-781.5	430.1	0.00	0.00	0.00
9,100.0	0.00	0.00	9,016.0	-363.5	-781.5	430.1	0.00	0.00	0.00
9,200.0	0.00	0.00	9,116.0	-363.5	-781.5	430.1	0.00	0.00	0.00
9,300.0	0.00	0.00	9,216.0	-363.5	-781.5	430.1	0.00	0.00	0.00
9,400.0	0.00	0.00	9,316.0	-363.5	-781.5	430.1	0.00	0.00	0.00
9,500.0	0.00	0.00	9,416.0	-363.5	-781.5	430.1	0.00	0.00	0.00
9,600.0	0.00	0.00	9,516.0	-363.5	-781.5	430.1	0.00	0.00	0.00
9,700.0	0.00	0.00	9,616.0	-363.5	-781.5	430.1	0.00	0.00	0.00
9,800.0	0.00	0.00	9,716.0	-363.5	-781.5	430.1	0.00	0.00	0.00
9,900.0	0.00	0.00	9,816.0	-363.5	-781.5	430.1	0.00	0.00	0.00
10,000.0	0.00	0.00	9,916.0	-363.5	-781.5	430.1	0.00	0.00	0.00
10,100.0	0.00	0.00	10,016.0	-363.5	-781.5	430.1	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #602H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #602H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,200.0	0.00	0.00	10,116.0	-363.5	-781.5	430.1	0.00	0.00	0.00
10,300.0	0.00	0.00	10,216.0	-363.5	-781.5	430.1	0.00	0.00	0.00
10,400.0	0.00	0.00	10,316.0	-363.5	-781.5	430.1	0.00	0.00	0.00
10,500.0	0.00	0.00	10,416.0	-363.5	-781.5	430.1	0.00	0.00	0.00
10,600.0	0.00	0.00	10,516.0	-363.5	-781.5	430.1	0.00	0.00	0.00
10,700.0	0.00	0.00	10,616.0	-363.5	-781.5	430.1	0.00	0.00	0.00
10,800.0	0.00	0.00	10,716.0	-363.5	-781.5	430.1	0.00	0.00	0.00
10,900.0	0.00	0.00	10,816.0	-363.5	-781.5	430.1	0.00	0.00	0.00
11,000.0	0.00	0.00	10,916.0	-363.5	-781.5	430.1	0.00	0.00	0.00
11,100.0	0.00	0.00	11,016.0	-363.5	-781.5	430.1	0.00	0.00	0.00
11,200.0	0.00	0.00	11,116.0	-363.5	-781.5	430.1	0.00	0.00	0.00
11,300.0	0.00	0.00	11,216.0	-363.5	-781.5	430.1	0.00	0.00	0.00
11,400.0	0.00	0.00	11,316.0	-363.5	-781.5	430.1	0.00	0.00	0.00
11,500.0	0.00	0.00	11,416.0	-363.5	-781.5	430.1	0.00	0.00	0.00
11,600.0	0.00	0.00	11,516.0	-363.5	-781.5	430.1	0.00	0.00	0.00
11,700.0	0.00	0.00	11,616.0	-363.5	-781.5	430.1	0.00	0.00	0.00
11,800.0	0.00	0.00	11,716.0	-363.5	-781.5	430.1	0.00	0.00	0.00
11,900.0	0.00	0.00	11,816.0	-363.5	-781.5	430.1	0.00	0.00	0.00
12,000.0	0.00	0.00	11,916.0	-363.5	-781.5	430.1	0.00	0.00	0.00
12,100.0	0.00	0.00	12,016.0	-363.5	-781.5	430.1	0.00	0.00	0.00
12,200.0	0.00	0.00	12,116.0	-363.5	-781.5	430.1	0.00	0.00	0.00
12,260.7	0.00	0.00	12,176.8	-363.5	-781.5	430.1	0.00	0.00	0.00
Start DLS 12.00 TFO 179.47									
12,275.0	1.71	179.47	12,191.0	-363.7	-781.5	430.3	12.00	12.00	0.00
12,300.0	4.71	179.47	12,216.0	-365.1	-781.5	431.7	12.00	12.00	0.00
12,325.0	7.71	179.47	12,240.8	-367.8	-781.5	434.4	12.00	12.00	0.00
12,350.0	10.71	179.47	12,265.5	-371.8	-781.4	438.4	12.00	12.00	0.00
12,375.0	13.71	179.47	12,289.9	-377.1	-781.4	443.6	12.00	12.00	0.00
12,400.0	16.71	179.47	12,314.0	-383.7	-781.3	450.1	12.00	12.00	0.00
12,425.0	19.71	179.47	12,337.8	-391.5	-781.2	457.9	12.00	12.00	0.00
12,450.0	22.71	179.47	12,361.1	-400.5	-781.2	466.9	12.00	12.00	0.00
12,475.0	25.71	179.47	12,383.9	-410.8	-781.1	477.1	12.00	12.00	0.00
12,500.0	28.71	179.47	12,406.1	-422.2	-781.0	488.5	12.00	12.00	0.00
12,525.0	31.71	179.47	12,427.7	-434.8	-780.8	501.0	12.00	12.00	0.00
12,550.0	34.71	179.47	12,448.6	-448.5	-780.7	514.7	12.00	12.00	0.00
12,575.0	37.71	179.47	12,468.8	-463.2	-780.6	529.4	12.00	12.00	0.00
12,600.0	40.71	179.47	12,488.2	-479.0	-780.4	545.1	12.00	12.00	0.00
12,625.0	43.71	179.47	12,506.7	-495.8	-780.3	561.8	12.00	12.00	0.00
12,650.0	46.71	179.47	12,524.3	-513.6	-780.1	579.5	12.00	12.00	0.00
12,675.0	49.71	179.47	12,541.0	-532.2	-779.9	598.0	12.00	12.00	0.00
12,700.0	52.71	179.47	12,556.6	-551.7	-779.8	617.4	12.00	12.00	0.00
12,725.0	55.71	179.47	12,571.2	-572.0	-779.6	637.6	12.00	12.00	0.00
12,750.0	58.71	179.47	12,584.8	-593.0	-779.4	658.5	12.00	12.00	0.00
12,775.0	61.71	179.47	12,597.2	-614.7	-779.2	680.1	12.00	12.00	0.00
12,800.0	64.71	179.47	12,608.5	-637.0	-779.0	702.3	12.00	12.00	0.00
12,825.0	67.71	179.47	12,618.5	-659.9	-778.8	725.1	12.00	12.00	0.00
12,850.0	70.71	179.47	12,627.4	-683.2	-778.6	748.3	12.00	12.00	0.00
12,875.0	73.71	179.47	12,635.1	-707.0	-778.3	772.0	12.00	12.00	0.00
12,900.0	76.71	179.47	12,641.4	-731.2	-778.1	796.1	12.00	12.00	0.00
12,925.0	79.71	179.47	12,646.5	-755.7	-777.9	820.4	12.00	12.00	0.00
12,950.0	82.71	179.47	12,650.4	-780.4	-777.7	845.0	12.00	12.00	0.00
12,975.0	85.71	179.47	12,652.9	-805.2	-777.4	869.8	12.00	12.00	0.00
13,000.0	88.71	179.47	12,654.1	-830.2	-777.2	894.6	12.00	12.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #602H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #602H	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)
13,025.4	91.76	179.47	12,654.0	-855.6	-777.0	919.9	12.00	12.00	0.00
Start 7231.5 hold at 13025.4 MD									
13,100.0	91.76	179.47	12,651.7	-930.2	-776.3	994.1	0.00	0.00	0.00
13,200.0	91.76	179.47	12,648.6	-1,030.1	-775.4	1,093.6	0.00	0.00	0.00
13,300.0	91.76	179.47	12,645.6	-1,130.1	-774.4	1,193.1	0.00	0.00	0.00
13,400.0	91.76	179.47	12,642.5	-1,230.0	-773.5	1,292.6	0.00	0.00	0.00
13,500.0	91.76	179.47	12,639.4	-1,329.9	-772.6	1,392.1	0.00	0.00	0.00
13,600.0	91.76	179.47	12,636.3	-1,429.9	-771.7	1,491.6	0.00	0.00	0.00
13,700.0	91.76	179.47	12,633.2	-1,529.8	-770.8	1,591.1	0.00	0.00	0.00
13,800.0	91.76	179.47	12,630.2	-1,629.8	-769.8	1,690.6	0.00	0.00	0.00
13,900.0	91.76	179.47	12,627.1	-1,729.7	-768.9	1,790.1	0.00	0.00	0.00
14,000.0	91.76	179.47	12,624.0	-1,829.7	-768.0	1,889.5	0.00	0.00	0.00
14,100.0	91.76	179.47	12,620.9	-1,929.6	-767.1	1,989.0	0.00	0.00	0.00
14,200.0	91.76	179.47	12,617.9	-2,029.6	-766.2	2,088.5	0.00	0.00	0.00
14,300.0	91.76	179.47	12,614.8	-2,129.5	-765.2	2,188.0	0.00	0.00	0.00
14,400.0	91.76	179.47	12,611.7	-2,229.5	-764.3	2,287.5	0.00	0.00	0.00
14,500.0	91.76	179.47	12,608.6	-2,329.4	-763.4	2,387.0	0.00	0.00	0.00
14,600.0	91.76	179.47	12,605.6	-2,429.4	-762.5	2,486.5	0.00	0.00	0.00
14,700.0	91.76	179.47	12,602.5	-2,529.3	-761.6	2,586.0	0.00	0.00	0.00
14,800.0	91.76	179.47	12,599.4	-2,629.3	-760.6	2,685.5	0.00	0.00	0.00
14,900.0	91.76	179.47	12,596.3	-2,729.2	-759.7	2,784.9	0.00	0.00	0.00
15,000.0	91.76	179.47	12,593.3	-2,829.2	-758.8	2,884.4	0.00	0.00	0.00
15,100.0	91.76	179.47	12,590.2	-2,929.1	-757.9	2,983.9	0.00	0.00	0.00
15,200.0	91.76	179.47	12,587.1	-3,029.1	-757.0	3,083.4	0.00	0.00	0.00
15,300.0	91.76	179.47	12,584.0	-3,129.0	-756.0	3,182.9	0.00	0.00	0.00
15,400.0	91.76	179.47	12,581.0	-3,229.0	-755.1	3,282.4	0.00	0.00	0.00
15,500.0	91.76	179.47	12,577.9	-3,328.9	-754.2	3,381.9	0.00	0.00	0.00
15,600.0	91.76	179.47	12,574.8	-3,428.9	-753.3	3,481.4	0.00	0.00	0.00
15,700.0	91.76	179.47	12,571.7	-3,528.8	-752.3	3,580.9	0.00	0.00	0.00
15,800.0	91.76	179.47	12,568.6	-3,628.8	-751.4	3,680.4	0.00	0.00	0.00
15,900.0	91.76	179.47	12,565.6	-3,728.7	-750.5	3,779.8	0.00	0.00	0.00
16,000.0	91.76	179.47	12,562.5	-3,828.7	-749.6	3,879.3	0.00	0.00	0.00
16,100.0	91.76	179.47	12,559.4	-3,928.6	-748.7	3,978.8	0.00	0.00	0.00
16,200.0	91.76	179.47	12,556.3	-4,028.6	-747.7	4,078.3	0.00	0.00	0.00
16,300.0	91.76	179.47	12,553.3	-4,128.5	-746.8	4,177.8	0.00	0.00	0.00
16,400.0	91.76	179.47	12,550.2	-4,228.5	-745.9	4,277.3	0.00	0.00	0.00
16,500.0	91.76	179.47	12,547.1	-4,328.4	-745.0	4,376.8	0.00	0.00	0.00
16,600.0	91.76	179.47	12,544.0	-4,428.4	-744.1	4,476.3	0.00	0.00	0.00
16,700.0	91.76	179.47	12,541.0	-4,528.3	-743.1	4,575.8	0.00	0.00	0.00
16,800.0	91.76	179.47	12,537.9	-4,628.2	-742.2	4,675.3	0.00	0.00	0.00
16,900.0	91.76	179.47	12,534.8	-4,728.2	-741.3	4,774.7	0.00	0.00	0.00
17,000.0	91.76	179.47	12,531.7	-4,828.1	-740.4	4,874.2	0.00	0.00	0.00
17,100.0	91.76	179.47	12,528.7	-4,928.1	-739.5	4,973.7	0.00	0.00	0.00
17,200.0	91.76	179.47	12,525.6	-5,028.0	-738.5	5,073.2	0.00	0.00	0.00
17,300.0	91.76	179.47	12,522.5	-5,128.0	-737.6	5,172.7	0.00	0.00	0.00
17,400.0	91.76	179.47	12,519.4	-5,227.9	-736.7	5,272.2	0.00	0.00	0.00
17,500.0	91.76	179.47	12,516.3	-5,327.9	-735.8	5,371.7	0.00	0.00	0.00
17,600.0	91.76	179.47	12,513.3	-5,427.8	-734.9	5,471.2	0.00	0.00	0.00
17,700.0	91.76	179.47	12,510.2	-5,527.8	-733.9	5,570.7	0.00	0.00	0.00
17,800.0	91.76	179.47	12,507.1	-5,627.7	-733.0	5,670.2	0.00	0.00	0.00
17,900.0	91.76	179.47	12,504.0	-5,727.7	-732.1	5,769.6	0.00	0.00	0.00
18,000.0	91.76	179.47	12,501.0	-5,827.6	-731.2	5,869.1	0.00	0.00	0.00
18,100.0	91.76	179.47	12,497.9	-5,927.6	-730.3	5,968.6	0.00	0.00	0.00
18,200.0	91.76	179.47	12,494.8	-6,027.5	-729.3	6,068.1	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #602H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #602H	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)
18,300.0	91.76	179.47	12,491.7	-6,127.5	-728.4	6,167.6	0.00	0.00	0.00
18,400.0	91.76	179.47	12,488.7	-6,227.4	-727.5	6,267.1	0.00	0.00	0.00
18,500.0	91.76	179.47	12,485.6	-6,327.4	-726.6	6,366.6	0.00	0.00	0.00
18,600.0	91.76	179.47	12,482.5	-6,427.3	-725.7	6,466.1	0.00	0.00	0.00
18,700.0	91.76	179.47	12,479.4	-6,527.3	-724.7	6,565.6	0.00	0.00	0.00
18,800.0	91.76	179.47	12,476.4	-6,627.2	-723.8	6,665.1	0.00	0.00	0.00
18,900.0	91.76	179.47	12,473.3	-6,727.2	-722.9	6,764.5	0.00	0.00	0.00
19,000.0	91.76	179.47	12,470.2	-6,827.1	-722.0	6,864.0	0.00	0.00	0.00
19,100.0	91.76	179.47	12,467.1	-6,927.1	-721.0	6,963.5	0.00	0.00	0.00
19,200.0	91.76	179.47	12,464.1	-7,027.0	-720.1	7,063.0	0.00	0.00	0.00
19,300.0	91.76	179.47	12,461.0	-7,127.0	-719.2	7,162.5	0.00	0.00	0.00
19,400.0	91.76	179.47	12,457.9	-7,226.9	-718.3	7,262.0	0.00	0.00	0.00
19,500.0	91.76	179.47	12,454.8	-7,326.9	-717.4	7,361.5	0.00	0.00	0.00
19,600.0	91.76	179.47	12,451.7	-7,426.8	-716.4	7,461.0	0.00	0.00	0.00
19,700.0	91.76	179.47	12,448.7	-7,526.8	-715.5	7,560.5	0.00	0.00	0.00
19,800.0	91.76	179.47	12,445.6	-7,626.7	-714.6	7,660.0	0.00	0.00	0.00
19,900.0	91.76	179.47	12,442.5	-7,726.6	-713.7	7,759.4	0.00	0.00	0.00
20,000.0	91.76	179.47	12,439.4	-7,826.6	-712.8	7,858.9	0.00	0.00	0.00
20,100.0	91.76	179.47	12,436.4	-7,926.5	-711.8	7,958.4	0.00	0.00	0.00
20,200.0	91.76	179.47	12,433.3	-8,026.5	-710.9	8,057.9	0.00	0.00	0.00
20,256.9	91.76	179.47	12,431.5	-8,083.4	-710.4	8,114.6	0.00	0.00	0.00
Start 50.0 hold at 20256.9 MD									
20,307.0	91.76	179.47	12,430.0	-8,133.4	-709.9	8,164.3	0.00	0.00	0.00
TD at 20307.0									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL (BANDANA FED C	1.76	359.47	12,430.0	-8,133.4	-709.9	409,736.20	782,095.00	32° 7' 23.528 N	103° 25' 19.669 W
- plan hits target center									
- Rectangle (sides W100.0 H7,770.2 D20.0)									
LTP (BANDANA FED C	0.00	0.00	12,431.5	-8,083.4	-710.4	409,786.20	782,094.50	32° 7' 24.023 N	103° 25' 19.670 W
- plan hits target center									
- Point									
FTP (BANDANA FED C	0.00	0.00	12,654.0	-363.5	-781.5	417,506.10	782,023.40	32° 8' 40.419 N	103° 25' 19.737 W
- plan misses target center by 197.6usft at 12634.9usft MD (12513.8 TVD, -502.7 N, -780.2 E)									
- Circle (radius 50.0)									

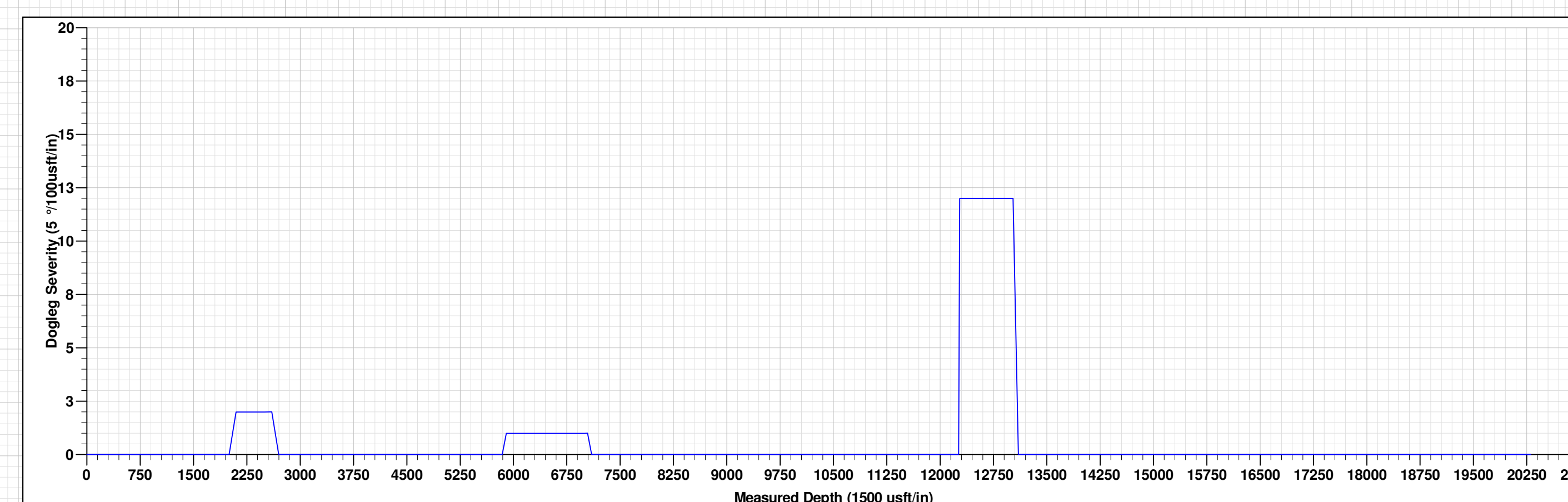
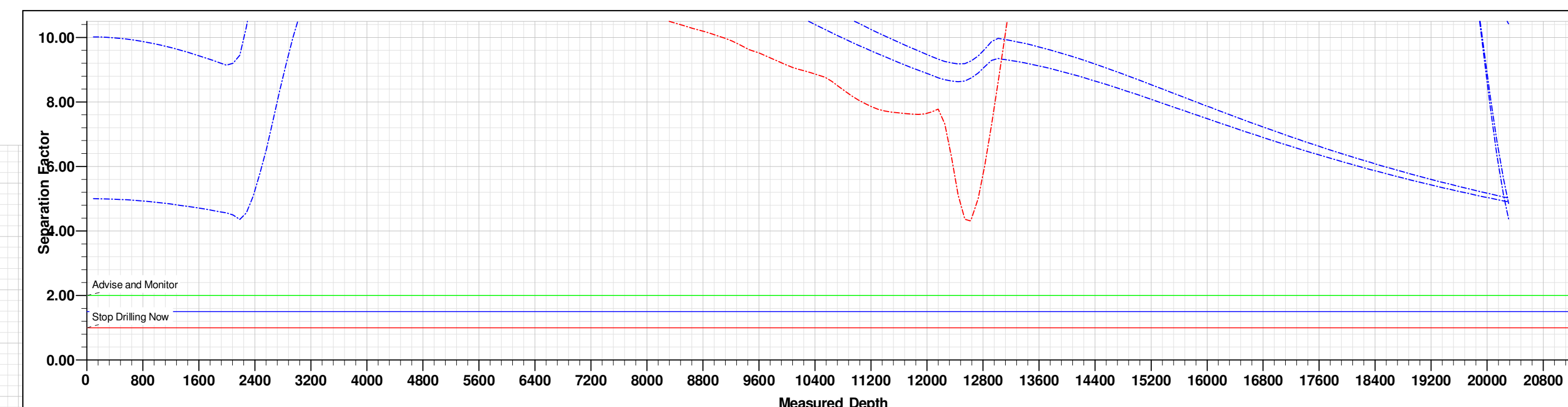
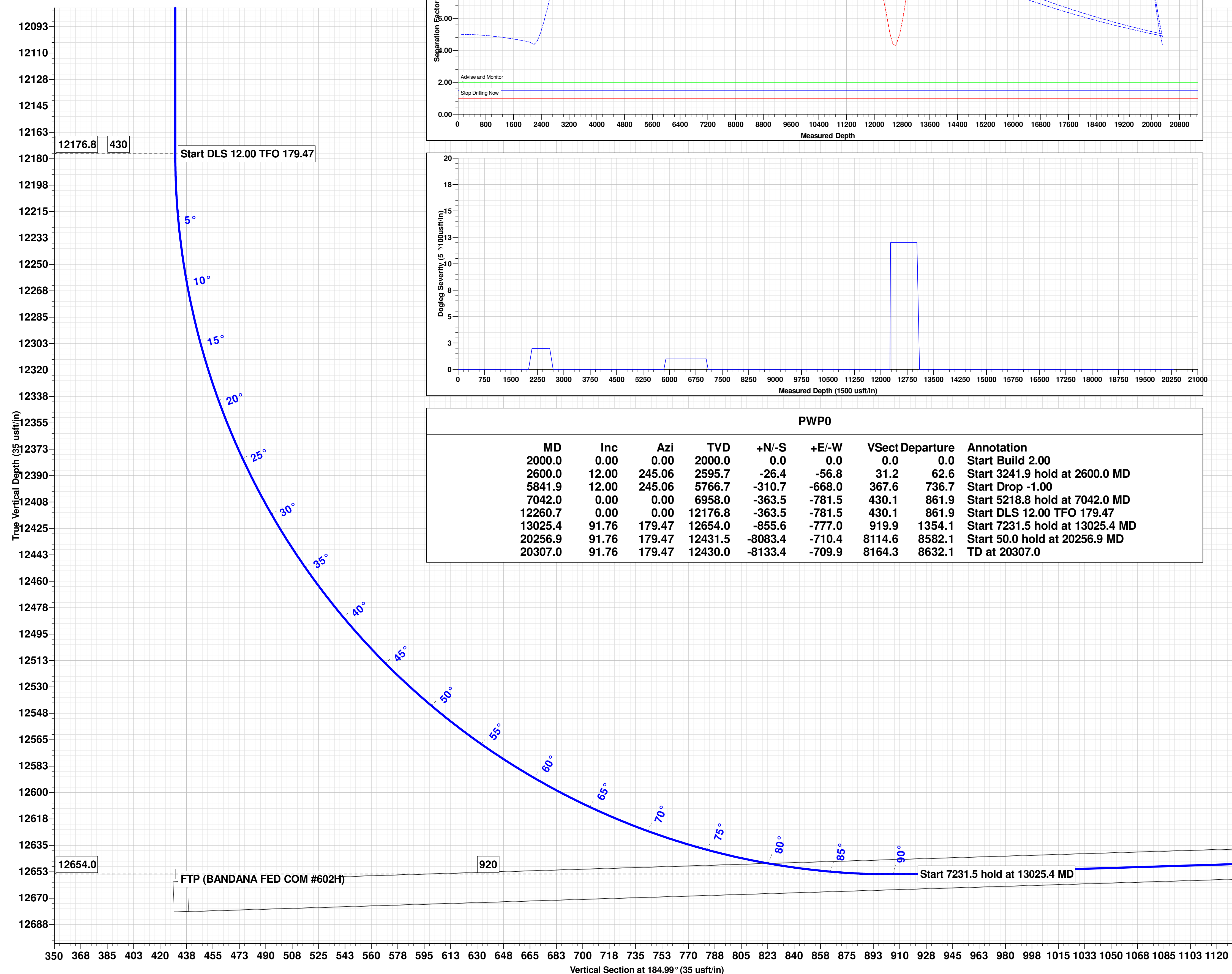
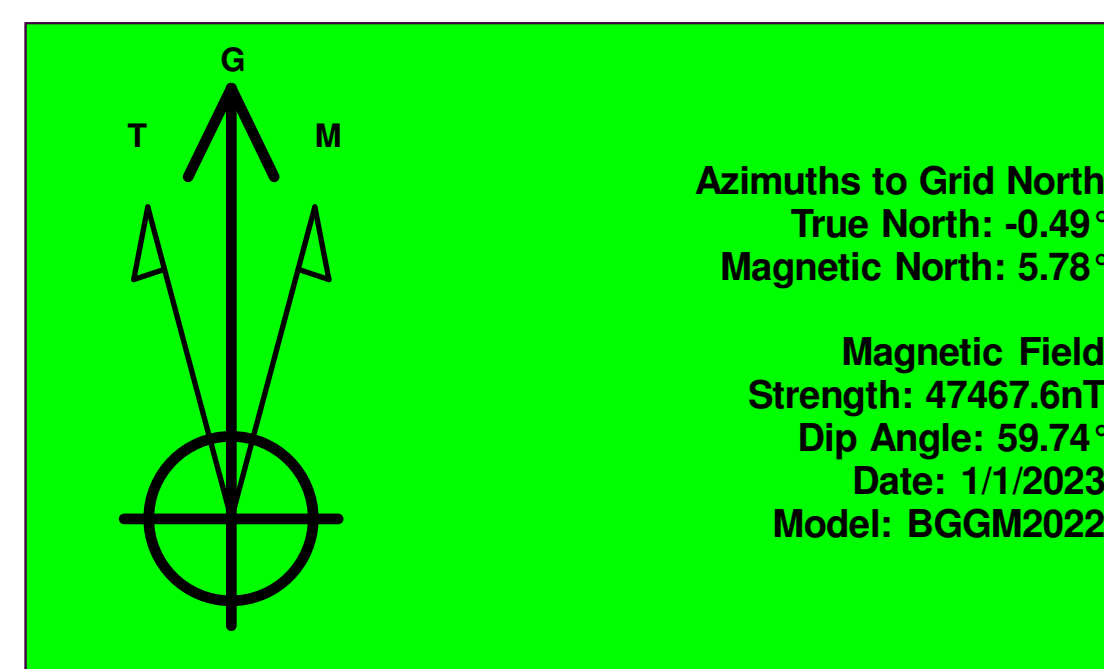
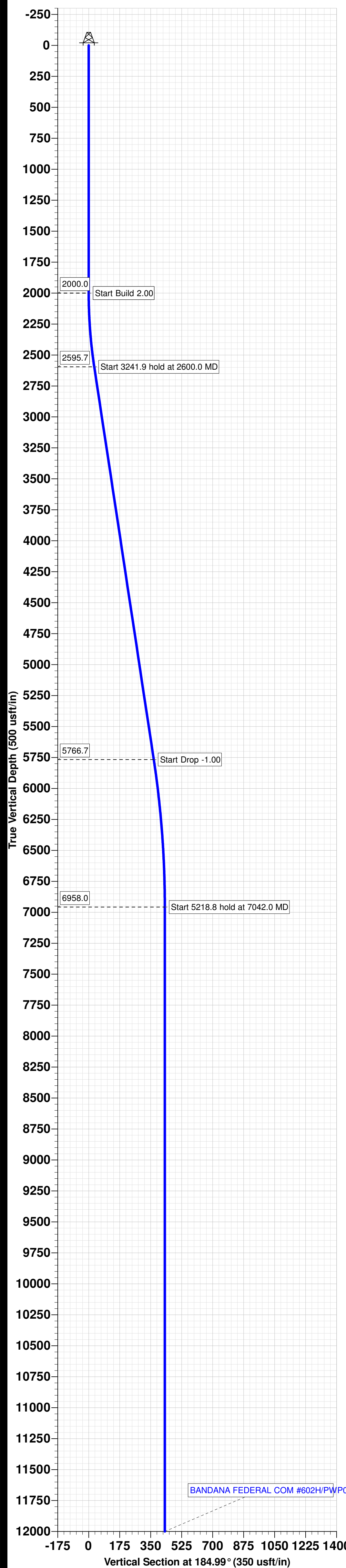
ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #602H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3410.1usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3410.1usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #602H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

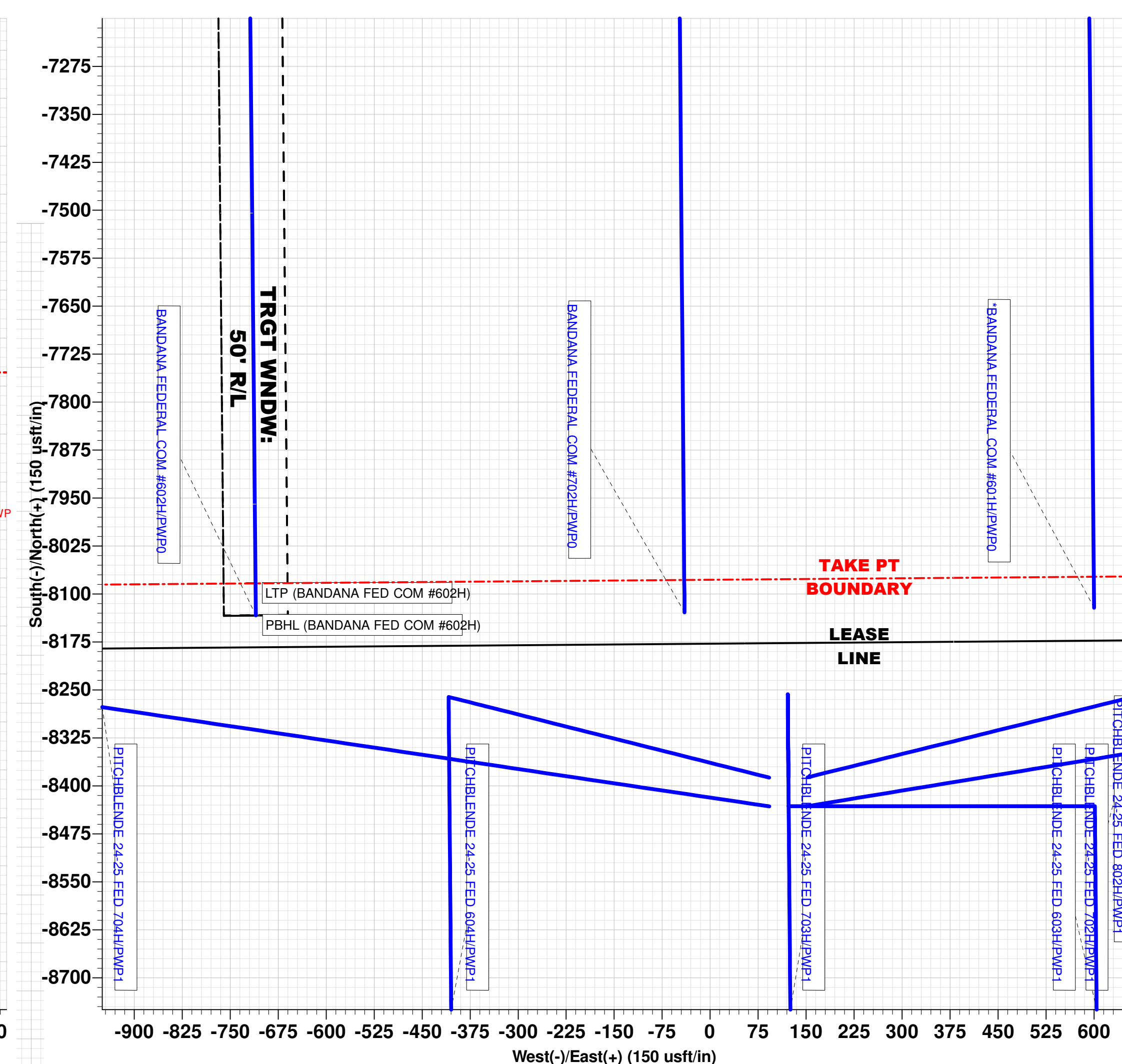
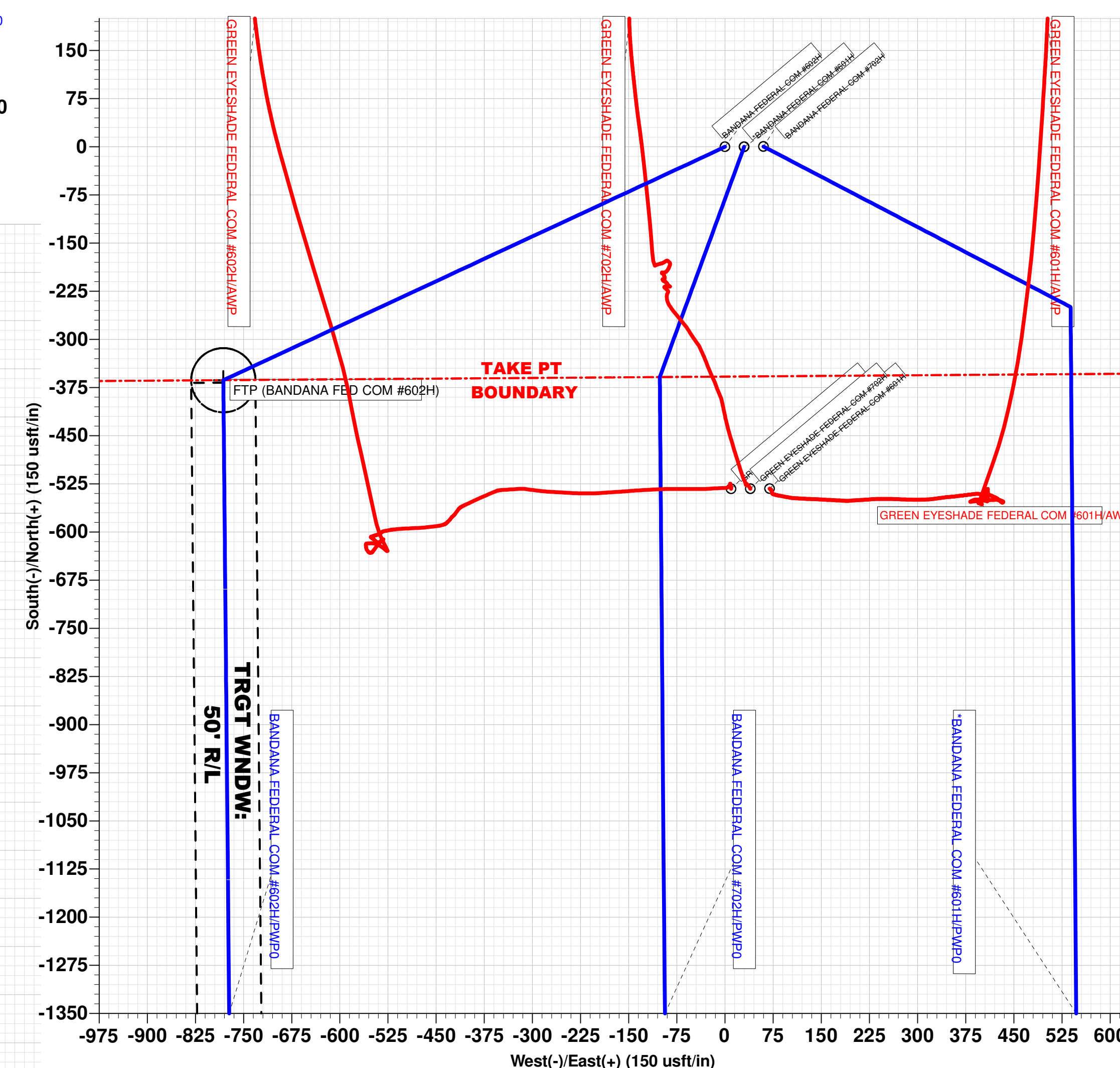
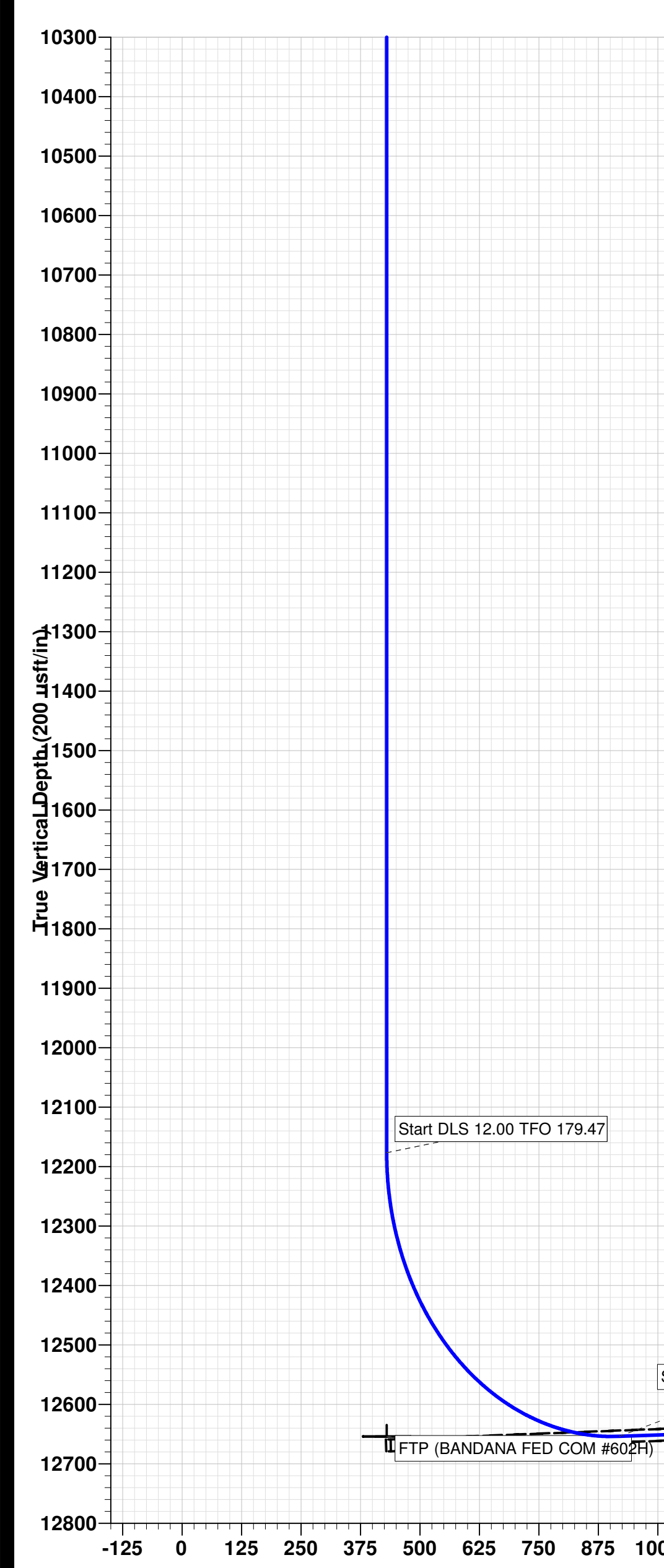
Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.0	2,000.0	0.0	0.0	Start Build 2.00
2,600.0	2,595.7	-26.4	-56.8	Start 3241.9 hold at 2600.0 MD
5,841.9	5,766.7	-310.7	-668.0	Start Drop -1.00
7,042.0	6,958.0	-363.5	-781.5	Start 5218.8 hold at 7042.0 MD
12,260.7	12,176.8	-363.5	-781.5	Start DLS 12.00 TFO 179.47
13,025.4	12,654.0	-855.6	-777.0	Start 7231.5 hold at 13025.4 MD
20,256.9	12,431.5	-8,083.4	-710.4	Start 50.0 hold at 20256.9 MD
20,307.0	12,430.0	-8,133.4	-709.9	TD at 20307.0



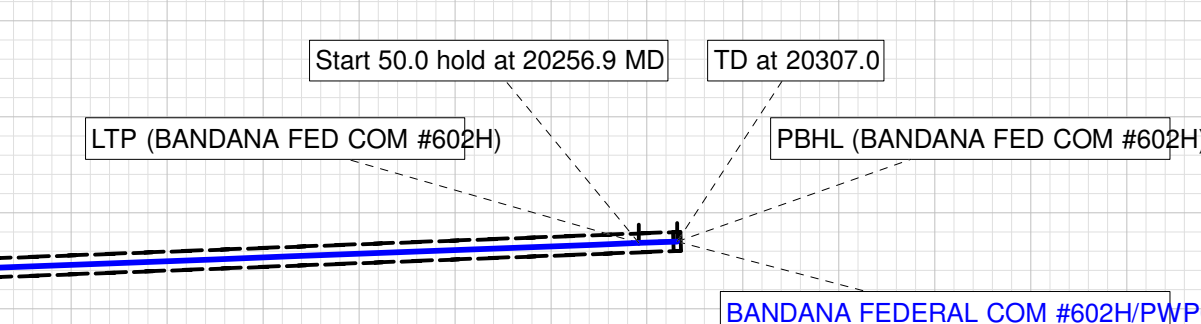
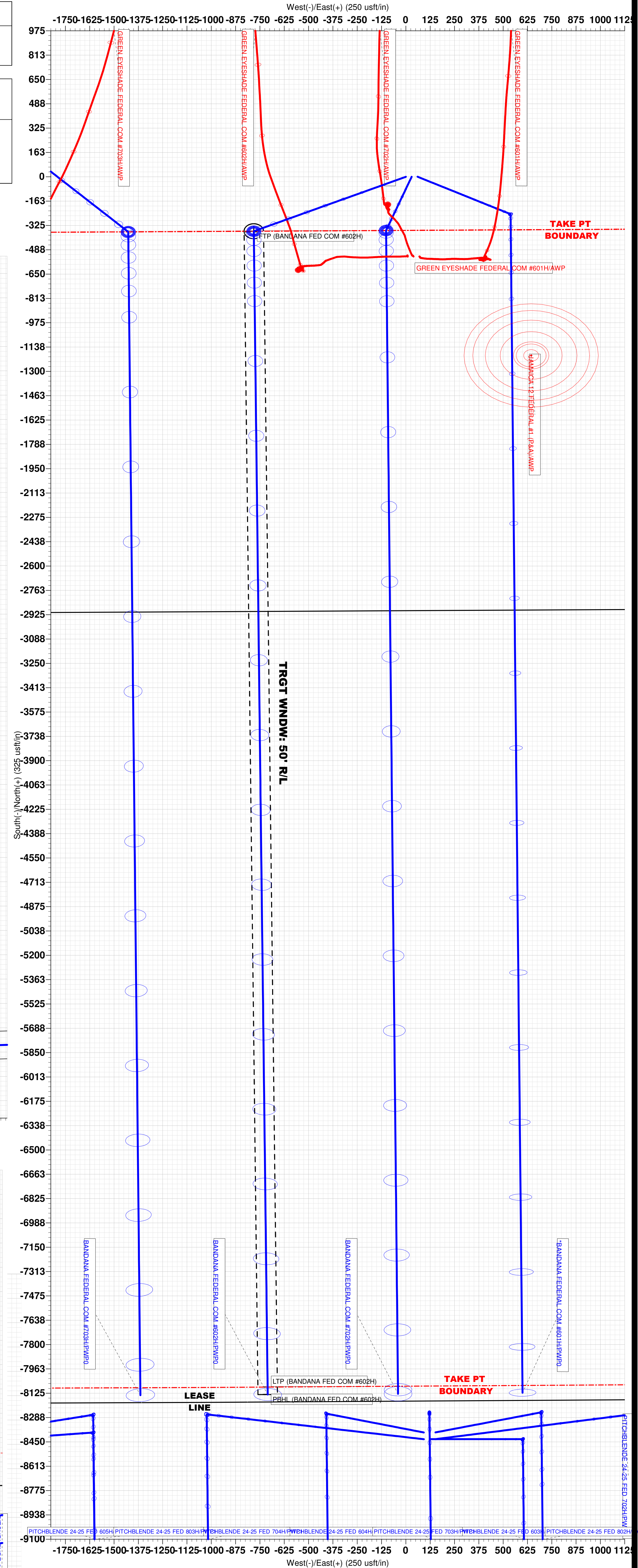
Project: BULLDOG PROSPECT (NM-E)
Site: BANDANA FEDERAL PROJECT
Well: BANDANA FEDERAL COM #602H
Wellbore: OWB
Design: PWP0
GL: 3380.1
*KB=30' @ 3410.1usft (TBD)



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	Start Build 2.00
2600.0	12.00	245.06	2595.7	-26.4	-56.8	31.2	Start 3241.9 hold at 2600.0 MD
5841.9	12.00	245.06	5766.7	-310.7	-668.0	367.6	Start Drop -1.00
7042.0	0.00	0.00	6958.0	-363.5	-781.5	430.1	Start 5218.8 hold at 7042.0 MD
12260.7	0.00	0.00	12176.8	-363.5	-781.5	430.1	Start DLS 12.00 TFO 179.47
13025.4	91.76	179.47	12654.0	-855.6	-777.0	919.9	Start 7231.5 hold at 13025.4 MD
20256.9	91.76	179.47	12431.5	-8083.4	-710.4	8114.6	Start 50.0 hold at 20256.9 MD
20307.0	91.76	179.47	12430.0	-8133.4	-709.9	8164.3	TD at 20307.0



TRGT WNDW:
10' A/B



**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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ORDER NO. R-22628-A

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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

CASE NO. 23333
ORDER NO. R-22628-A

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Exhibit A

COMPULSORY POOLING APPLICATION CHECKLIST		Page 5 of 11
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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CASE NO. 23333
ORDER NO. R-22628-A

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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 240849

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 240849
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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