Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMNM113419

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No. BANDANA FEDERAL COM/602H

2. Name of Operator COG OPERATING LLC

9. API Well No. 3002549795

3a. Address 600 West Illinois Ave, Midland, TX 79701

3b. Phone No. *(include area code)* (432) 683-7443

10. Field and Pool or Exploratory Area PURPLE SAGE/FAIRVIEW MILLS;BONE SPRING

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)* SEC 12/T25S/R34E/NMP

11. 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
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ 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 recomplete 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 perfonned 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 recompletion 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 OFICE 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)

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) 476-3460 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	Pool Code	Pool Name
30-025-49795	96340	Fairview Mills; Bone Spring

Property Code	Property Name	Well Number
332421	BANDANA FEDERAL COM	602H

OGRID No.	Operator Name	Elevation
229137	COG OPERATING, LLC	3380.1'

Surface Location

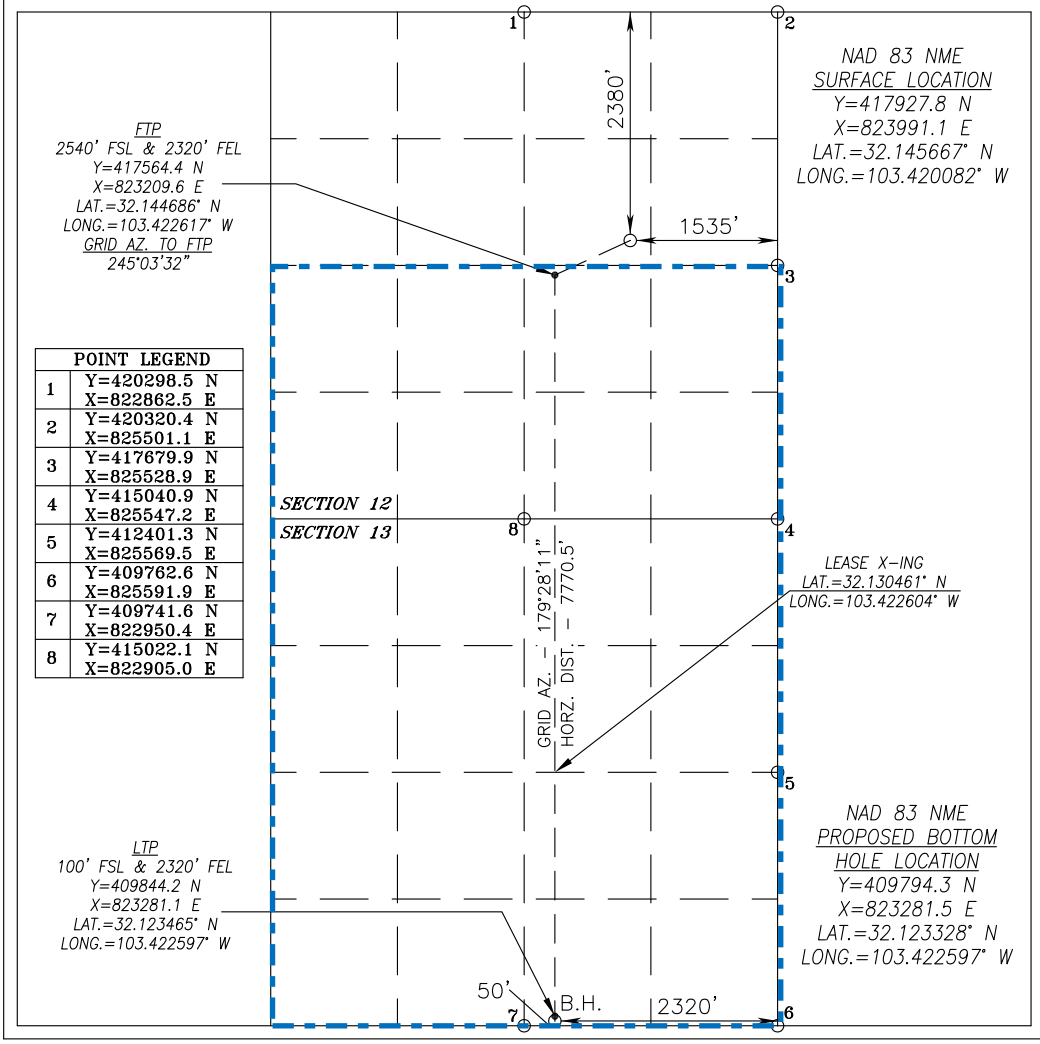
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	12	25-S	34-E		2380	NORTH	1535	EAST	LEA

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	Joint or Infill	Consolidation Code	Order No.
960		Com	

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



POINT LEGEND	
1	Y=420298.5 N X=822862.5 E
2	Y=420320.4 N X=825501.1 E
3	Y=417679.9 N X=825528.9 E
4	Y=415040.9 N X=825547.2 E
5	Y=412401.3 N X=825569.5 E
6	Y=409762.6 N X=825591.9 E
7	Y=409741.6 N X=822950.4 E
8	Y=415022.1 N X=822905.0 E

OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Stan Wagner 7/11/22
Signature Date

Stan Wagner
Printed Name

E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

DECEMBER 19, 2020
Date of Survey

Signature & Seal of Professional Surveyor

CHAD L. HARCROW
NEW MEXICO
17777
LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 6/20/22

Certificate No. CHAD HARCROW 17777

W.O. #22-623 DRAWN BY: WN

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 Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
BANDANA FEDERAL PROJECT						
*BANDANA FEDERAL COM #601H - OWB - PWP0	1,995.0	1,995.6	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 EYESHADE FED PROJECT						
GREEN EYESHADE FEDERAL COM #601H - OWB - AW	0.0	0.0	536.9			
GREEN EYESHADE FEDERAL COM #601H - OWB - AW	5,035.0	4,979.1	992.5	971.8	47.762	SF
GREEN EYESHADE FEDERAL COM #601H - ST01 - AW	0.0	0.0	536.9			
GREEN EYESHADE FEDERAL COM #601H - ST01 - AW	5,035.0	4,979.1	992.5	971.8	47.762	SF
GREEN EYESHADE FEDERAL COM #602H - OWB - AW	12,616.6	12,609.3	213.1	163.7	4.315	CC, ES, SF
GREEN EYESHADE FEDERAL COM #603H - OWB - AW						Out of range
GREEN EYESHADE FEDERAL COM #702H - OWB - AW	3,755.2	3,768.0	278.0	263.3	18.970	CC
GREEN EYESHADE FEDERAL COM #702H - OWB - AW	3,800.0	3,811.7	278.1	263.3	18.692	ES
GREEN EYESHADE FEDERAL COM #702H - OWB - AW	12,305.9	12,258.0	700.9	653.8	14.884	SF
GREEN EYESHADE FEDERAL COM #703H - OWB - AW						Out of range
GREEN EYESHADE FEDERAL COM #704H - OWB - AW						Out of range

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 Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
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

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

TD Summary

Site Name Offset Well - Wellbore - Design	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) - OWB - AWP	20,307.0	12,424.5				Out of Range @TD
GREEN EYESHADE FED PROJECT						
GREEN EYESHADE FEDERAL COM #601H - OWB - AW	20,307.0	12,471.1				Out of Range @TD
GREEN EYESHADE FEDERAL COM #601H - ST01 - AW	20,307.0	12,159.0				Out of Range @TD
GREEN EYESHADE FEDERAL COM #602H - OWB - AW	20,307.0	12,205.0				Out of Range @TD
GREEN EYESHADE FEDERAL COM #603H - OWB - AW	20,307.0	12,185.0				Out of Range @TD
GREEN EYESHADE FEDERAL COM #702H - OWB - AW	20,307.0	12,444.0				Out of Range @TD
GREEN EYESHADE FEDERAL COM #703H - OWB - AW	20,307.0	12,372.0				Out of Range @TD
GREEN EYESHADE 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

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	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 covergent 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
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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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
380.0	380.0	380.6	380.6	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-163.67	-120.2	291.1	855.8	836.2	19.65	43.560	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well 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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	89.81	0.1	30.0	30.0				
95.0	95.0	93.9	93.9	3.0	3.0	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-261.7	-66.0	416.0	391.5	24.49	16.985	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Rule Assigned: 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 covergent 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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	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 covergent 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance 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 covergent 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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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	

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

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	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 covergent 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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	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 covergent 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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well 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

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	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 covergent 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

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	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

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 - ST01 - AWP

Offset Site Error: 3.0 usft

Survey Program: 100-Standard Keeper 104, 12049-MWD+IFR1+FDIR

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	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 covergent 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 - ST01 - AWP

Offset Site Error: 3.0 usft

Survey Program: 100-Standard Keeper 104, 12049-MWD+IFR1+FDIR

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	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

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 #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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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: GREEN EYESHADE FED PROJECT - GREEN EYESHADE 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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	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 covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

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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 #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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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	7.779	
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 covergent 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 #702H - OWB - AWP

Offset Site Error: 3.0 usft

Survey Program: 100-Standard Keeper 104, 12350-MWD+IFR1+FDIR

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 #702H - OWB - AWP

Offset Site Error: 3.0 usft

Survey Program: 100-Standard Keeper 104, 12350-MWD+IFR1+FDIR

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent 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 #702H - OWB - AWP

Offset Site Error: 3.0 usft

Survey Program: 100-Standard Keeper 104, 12350-MWD+IFR1+FDIR

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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	

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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: PITCHBLENDE 24-25 FEDERAL PROJECT - PITCHBLENDE 24-25 FED 604H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-Standard Keeper 104, 12070-MWD+IFR1+FDIR

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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

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

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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: PITCHBLENDE 24-25 FEDERAL PROJECT - PITCHBLENDE 24-25 FED 703H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-Standard Keeper 104, 12323-MWD+IFR1+FDIR

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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

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 704H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-Standard Keeper 104, 12413-MWD+IFR1+FDIR

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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

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 803H - OWB - PWP1

Offset Site Error: 0.0 usft

Survey Program: 0-Standard Keeper 104, 12362-MWD+IFR1+FDIR

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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 covergent point, SF - min separation factor, ES - min ellipse separation

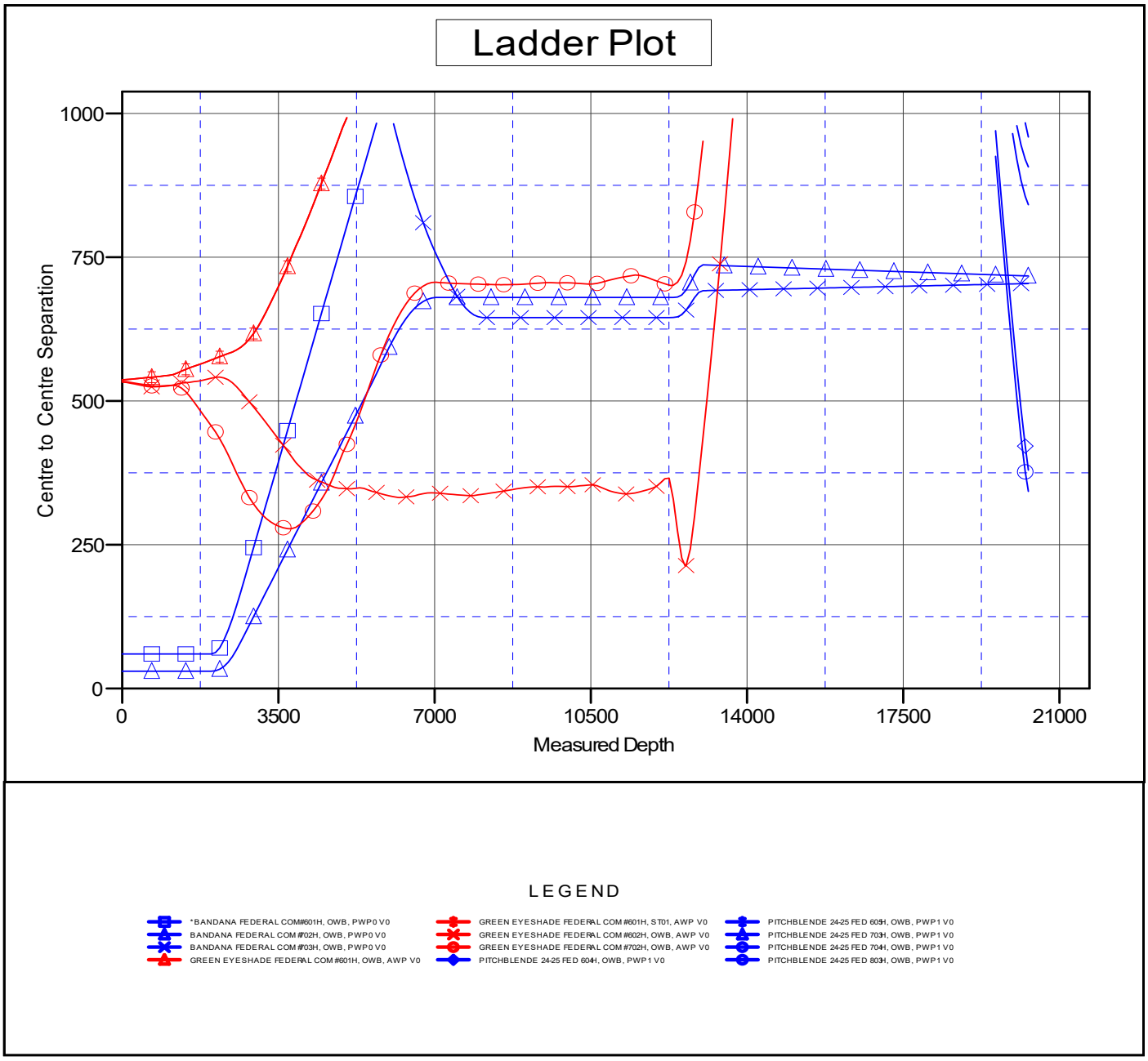
ConocoPhillips

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°



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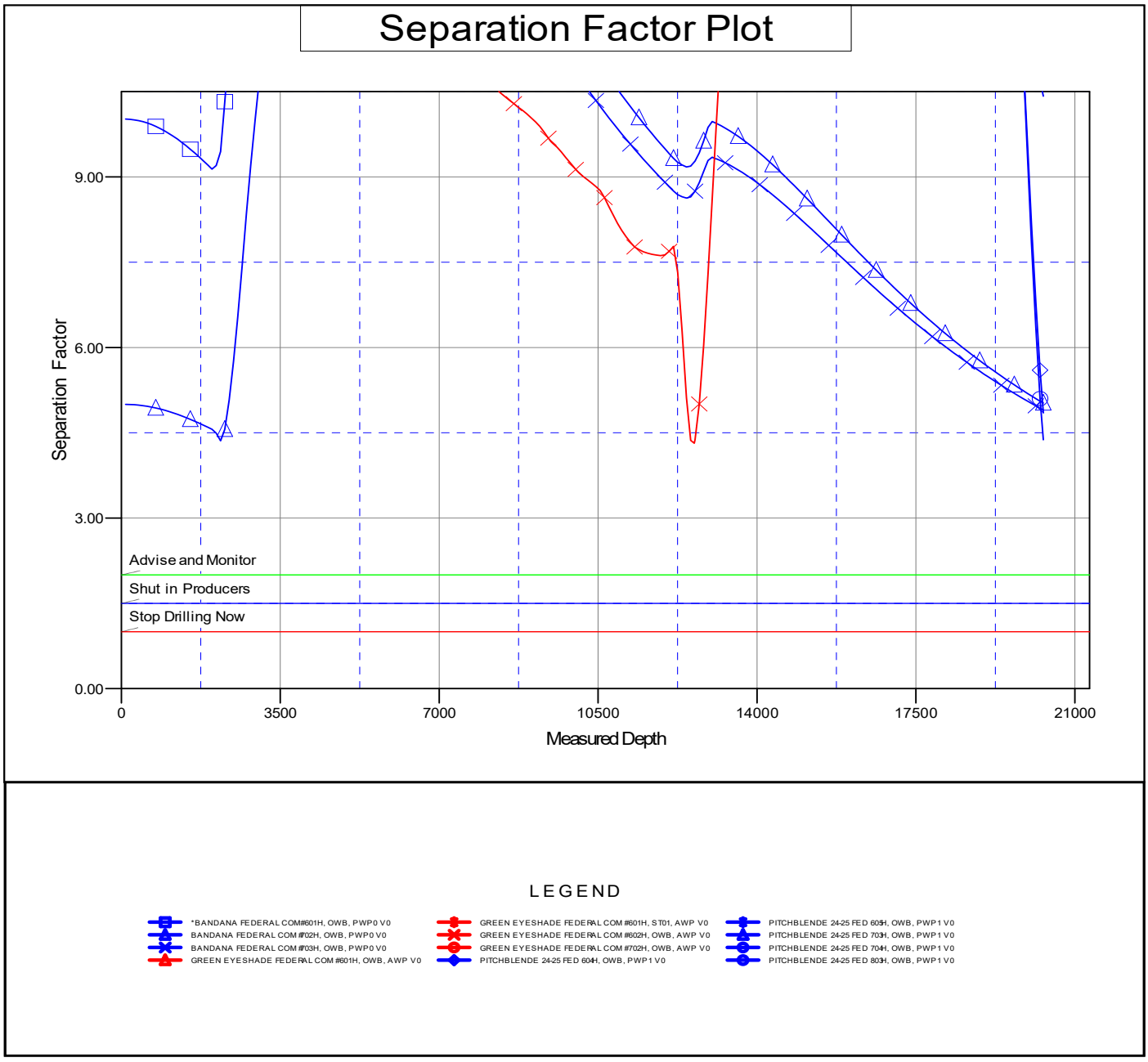
Anticollision Report

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

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°



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	

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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 - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (BANDANA FED (- plan hits target center - Rectangle (sides W100.0 H7,770.2 D20.0)	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
LTP (BANDANA FED C(- plan hits target center - Point	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
FTP (BANDANA FED C(- plan misses target center by 197.6usft at 12634.9usft MD (12513.8 TVD, -502.7 N, -780.2 E) - Circle (radius 50.0)	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

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

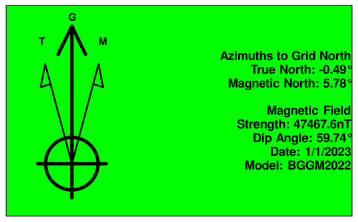
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
2,000.0	2,000.0	0.0	0.0	Start Build 2.00
2,600.0	2,595.7	-26.4	-56.8	Start 3241.9 hold at 2600.0 MD
5,841.9	5,766.7	-310.7	-668.0	Start Drop -1.00
7,042.0	6,958.0	-363.5	-781.5	Start 5218.8 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

ConocoPhillips

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)	

WELL DETAILS: BANDANA FEDERAL COM #602H

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.0	0.0	417869.60	782804.90	32° 8' 43.950 N	103° 25' 10.612 W

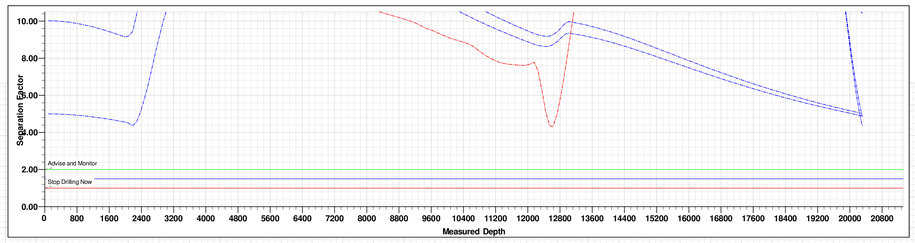


Azimuths to Grid North
True North: -0.49°
Magnetic North: 5.78°

Magnetic Field
Strength: 47467.6nT
Dip Angle: 59.74°
Date: 1/1/2023
Model: BGGM2022

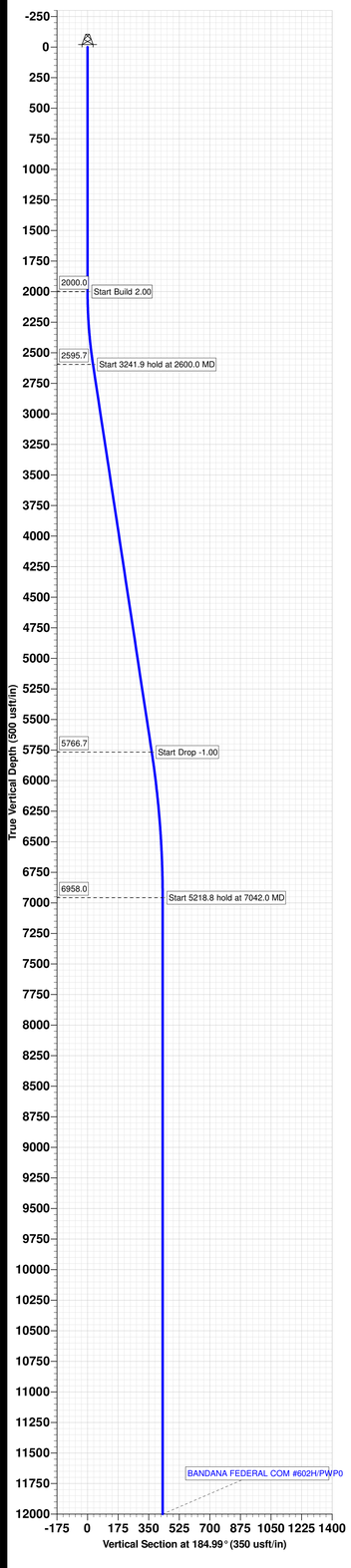
DESIGN TARGET DETAILS

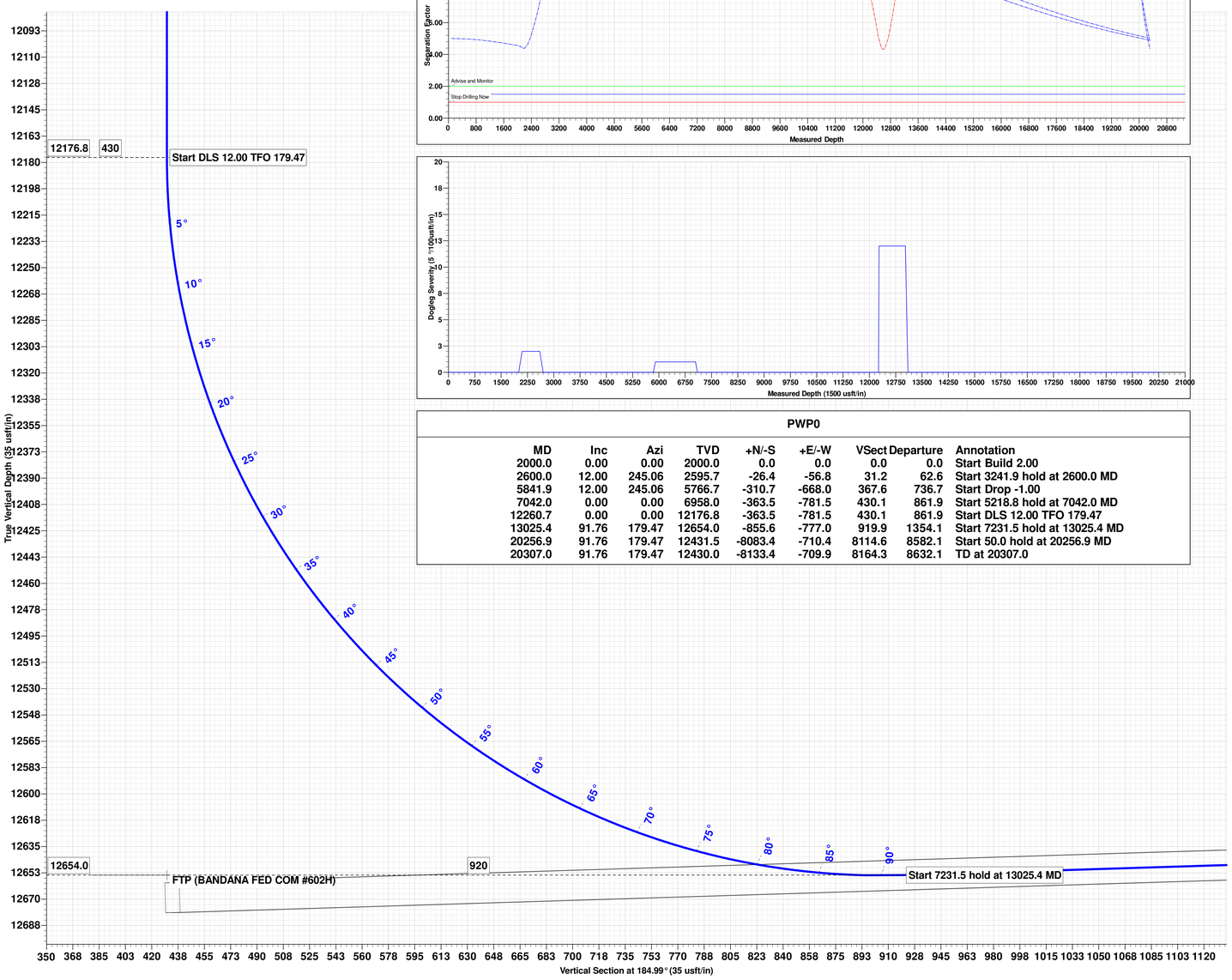
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL (BANDANA FED COM #602H)	12430.0	-8133.4	-709.9	409736.20	782095.00	Rectangle (Sides: L7770.2 W100.0)
LTP (BANDANA FED COM #602H)	12431.5	-8083.4	-710.4	409786.20	782094.50	Point
FTP (BANDANA FED COM #602H)	12654.0	-363.5	-781.5	417506.10	782023.40	Circle (Radius: 50.0)

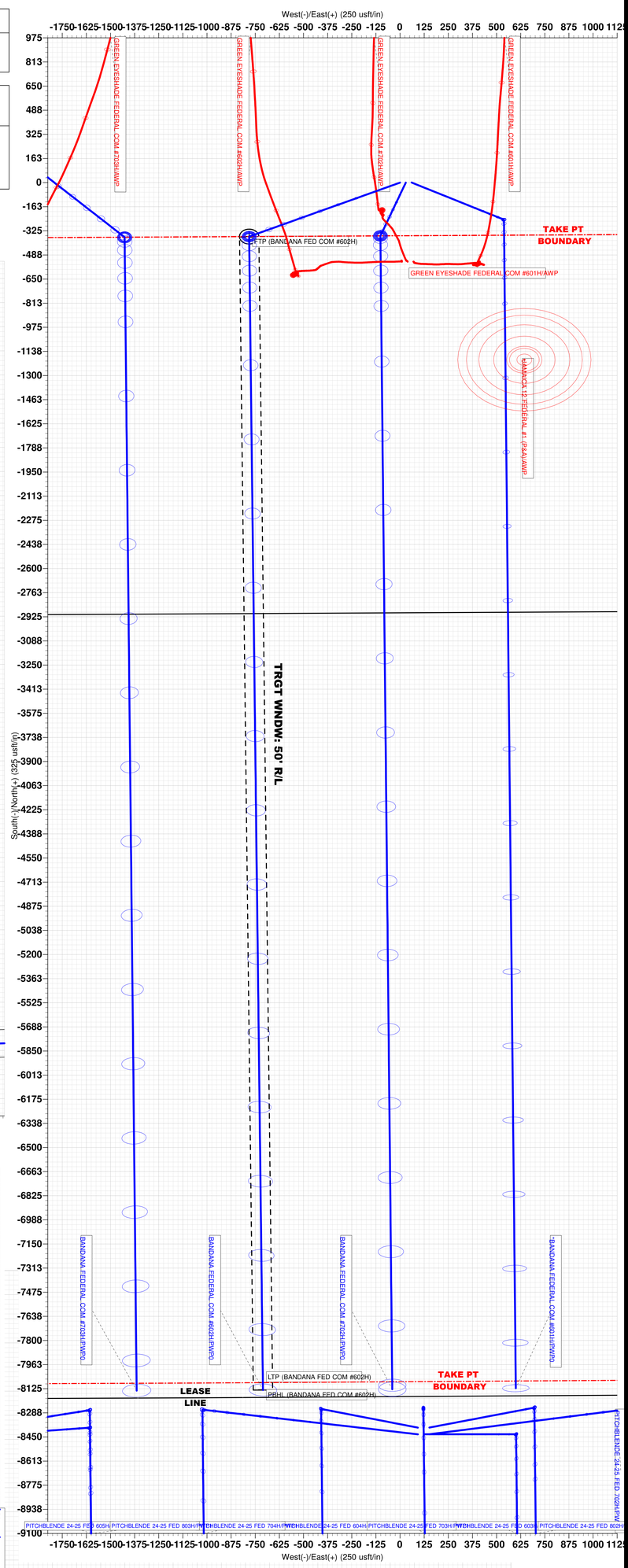


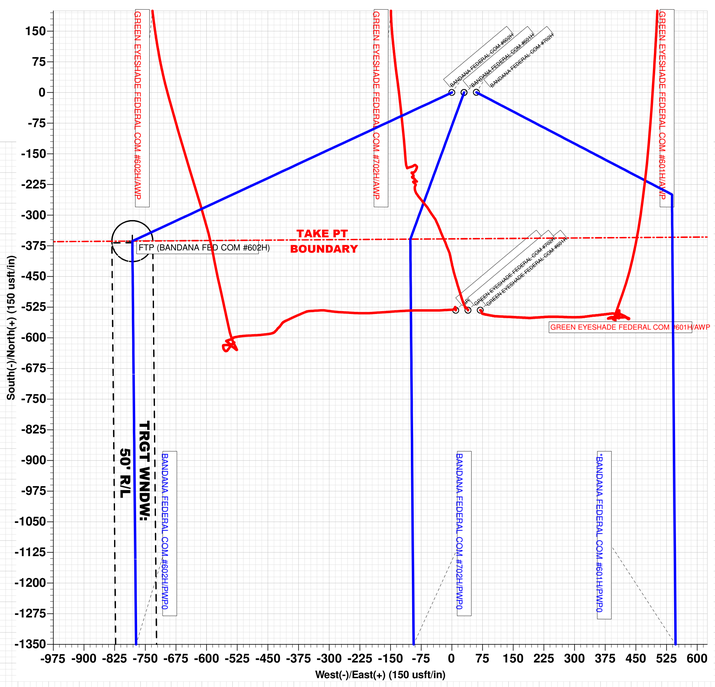
PWP0

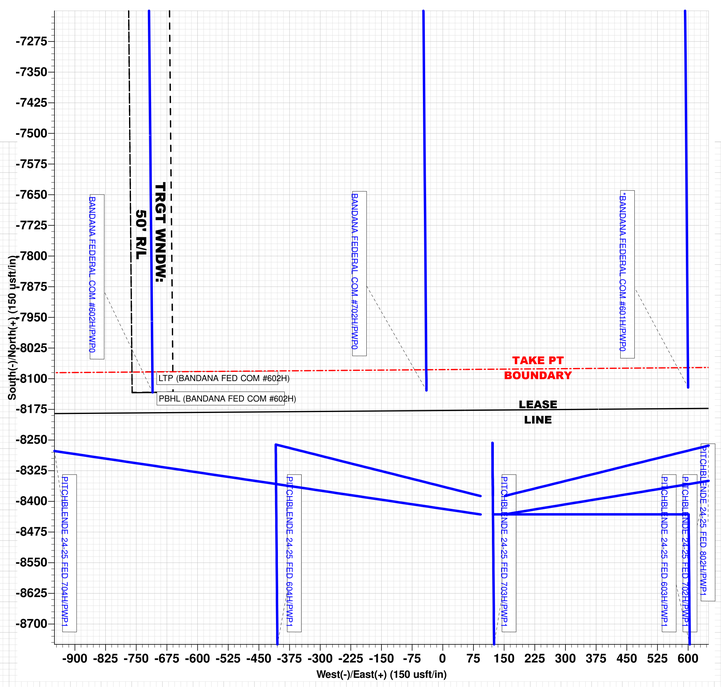
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
2000.0	0.00	0.00	2000.0	0.0	0.0	0.0	0.0	Start Build 2.00
2600.0	12.00	245.06	2595.7	-26.4	-56.8	31.2	62.6	Start 3241.9 hold at 2600.0 MD
5841.9	12.00	245.06	5766.7	-310.7	-668.0	367.6	736.7	Start Drop -1.00
7042.0	0.00	0.00	6958.0	-363.5	-781.5	430.1	861.9	Start 5218.8 hold at 7042.0 MD
12260.7	0.00	0.00	12176.8	-363.5	-781.5	430.1	861.9	Start DLS 12.00 TFO 179.47
13025.4	91.76	179.47	12654.0	-855.6	-777.0	919.9	1354.1	Start 7231.5 hold at 13025.4 MD
20256.9	91.76	179.47	12431.5	-8083.4	-710.4	8114.6	8582.1	Start 50.0 hold at 20256.9 MD
20307.0	91.76	179.47	12430.0	-8133.4	-709.9	8164.3	8632.1	TD at 20307.0

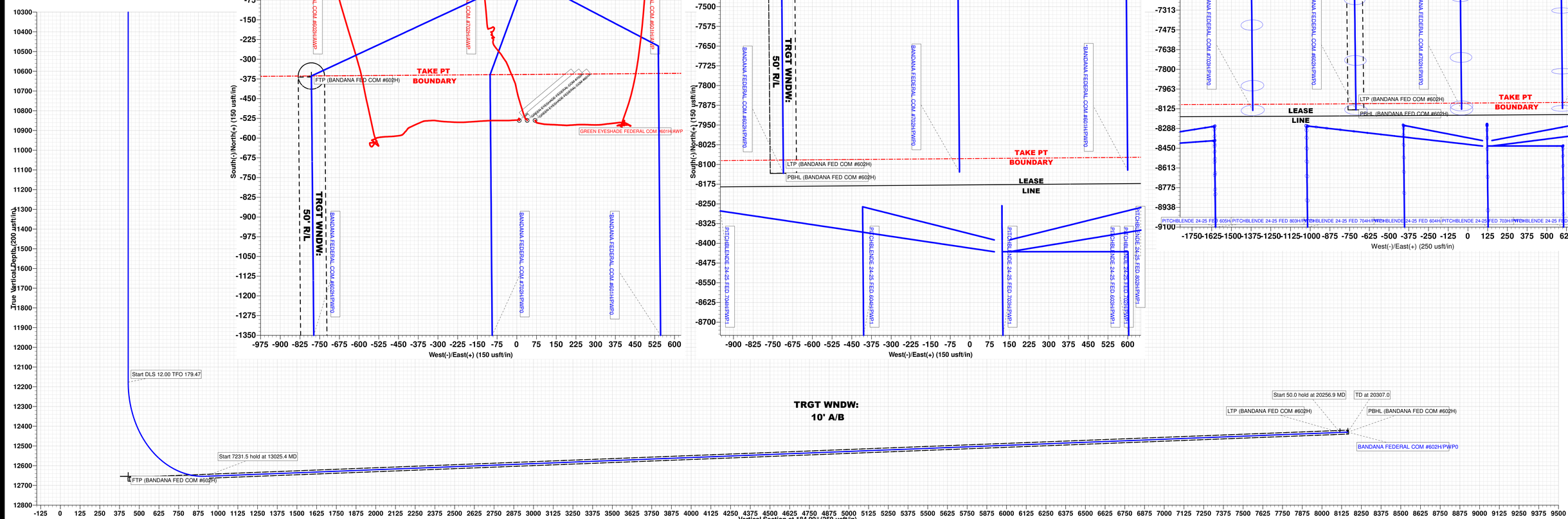












STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

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

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

ORDER

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

FINDINGS OF FACT

1. COG Operating, LLC ("Operator") submitted an application ("Application") to compulsory pool the uncommitted oil and gas interests within the spacing unit ("Unit") described in Exhibit A.

2. On April 16, 2023, OCD issued Order R-22628, which only approved the Composolary Pooling portion of the application.

3. Order R-22628 also had an incorrect Exhibit A attached to it.

4. The Application also seeks approval of a Non-Standard horizontal spacing unit for production from all Division-designated pools underlying the Unit.

5. Operator seeks to be designated the operator of the Unit.

6. Operator will dedicate the well(s) described in Exhibit A ("Well(s)") to the Unit.

7. Operator proposes the supervision and risk charges for the Well(s) described in Exhibit A.

8. Operator identified the owners of uncommitted interests in oil and gas minerals in the Unit and provided evidence that notice was given.

9. Operator identified the owners of interest in the offset oil and gas minerals from the Unit and provided evidence that notice was given.

10. The Application was heard by the Hearing Examiner on the date specified above, during which Operator presented evidence through affidavits in support of the Application. No other party presented evidence at the hearing.

CONCLUSIONS OF LAW

11. OCD has jurisdiction to issue this Order pursuant to NMSA 1978, Section 70-2-17.

12. Operator is the owner of an oil and gas working interest within the Unit.

13. Operator satisfied the notice requirements for the Application and the hearing as required by 19.15.4.12 NMAC.

14. Operator has met the notice requirements for approval of non-standard horizontal spacing units in accordance with 19.15.16.15(B)(5) NMAC.

15. OCD satisfied the notice requirements for the hearing as required by 19.15.4.9 NMAC.

16. Operator has the right to drill the Well(s) to a common source of supply at the depth(s) and location(s) in the Unit described in Exhibit A.

17. OCD's rules allow the approval of a non-standard horizontal spacing unit, after notice and opportunity for hearing, "if necessary to prevent waste or protect correlative rights" 19.15.16.15(B)(5)(a) NMAC.

18. While the OCD is authorized to approve a non-standard spacing unit, Rutter & Wilbanks Corp. v. Oil Conservation Comm'n, 1975-NMSC-006, OCD lacks the authority to approve unitization and will disapprove an application if it determines that it is actually unitization. Order R-13554 (May 18, 2012) (disapproving application for a non-standard spacing unit consisting of 16 standard spacing units).

19. Approval of the Non-Standard Spacing Unit promotes effective well spacing and allows the Operator to therefore prevent waste and protect correlative rights.

20. The Unit contains separately owned uncommitted interests in oil and gas minerals.

21. Some of the owners of the uncommitted interests have not agreed to commit their interests to the Unit.

22. The pooling of uncommitted interests in the Unit will prevent waste and protect correlative rights, including the drilling of unnecessary wells.

23. This Order affords to the owner of an uncommitted interest the opportunity to produce his just and equitable share of the oil or gas in the pool.

ORDER

24. Order R-22628 is hereby superseded by this Order.

25. The Unit is approved as a non-standard horizontal spacing unit.

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

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

Date: 4/30/2023

DYLAN M FUGE
DIRECTOR (ACTING)
DMF/jag

Exhibit A

Received by OCD: 7/17/2023 9:26:43 AM

COMPULSORY POOLING APPLICATION CHECKLIST

ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS

Case: 23333	**APPLICANT'S RESPONSE**
Date	**March 2, 2023**
Applicant	**COG Operating LLC**
Designated Operator & OGRID (affiliation if applicable)	**OGRID No. 229137**
Applicant's Counsel:	Hinkle Shanor LLP
Case Title:	Application of COG Operating LLC for Compulsory Pooling and Approval of Non-Standard Spacing Unit, Lea County, New Mexico
Entries of Appearance/Intervenors:	None
Well Family	Bandana
Formation/Pool	
Formation Name(s) or Vertical Extent:	Bone Spring
Primary Product (Oil or Gas):	Oil
Pooling this vertical extent:	Base of the Avalon interval of the Bone Spring Formation to the base of the Bone Spring Formation
Pool Name and Pool Code:	Fairview Mills; Bone Spring Pool (Code 96340)
Well Location Setback Rules:	Statewide
Spacing Unit	
Type (Horizontal/Vertical)	Horizontal
Size (Acres)	960 acres
Building Blocks:	quarter-quarter
Orientation:	North/South
Description: TRS/County	S/2 of Section 12 and all of Section 13, Township 25 South, Range 34 East, Lea County
Standard Horizontal Well Spacing Unit (Y/N), If No, describe and is approval of non-standard unit requested in this application?	No. Approval of Non-Standard Spacing Unit requested in this application.
Other Situations	
Depth Severance: Y/N. If yes, description	Yes. COG seeks to pool interests from the base of the Avalon interval of the Bone Spring formation at a stratigraphic equivalent of approximately 10,625' to the base of the Bone Spring formation at a stratigraphic equivalent of approximately 12,671' as shown on the Jamaica 12 Federal 1 well log (API # 30-025-33451).
Proximity Tracts: If yes, description	No
Proximity Defining Well: if yes, description	N/A
Applicant's Ownership in Each Tract	Exhibit A-4
Well(s)	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)	Add wells as needed
Well #1	Bandana Fed Com 601H (API # ---) SHL: 2380' FNL & 1475' FEL (Unit G), Section 12, T25S, R34E BHL: 50' FSL & 1000' FEL (Unit P), Section 13, T25S, R34E Completion Target: Bone Spring (Approx. 12,682' TVD)

COG Operating LLC
Case No. 23333 Exhibit D-2

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

Target Formation	Exhibit B
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

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 240851

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 240851
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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