

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

5. Lease Serial No. NMNM113419

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
COG OPERATING LLC

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

3b. Phone No. (include area code)
(432) 683-74434. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 12/T25S/R34E/NMP

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

8. Well Name and No. BANDANA FEDERAL COM/703H

9. API Well No. 3002549799

10. Field and Pool or Exploratory Area
Draper Mill/DOGIE DRAW; WOLFCAMP11. Country or Parish, State
LEA/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

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

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

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

Change BHL FROM: 2590 FNL & 2320 FWL SENW 24-25S-34E 23406' MD, 12706' TVD

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

Change TD to: 20,603MD, 12,706 TVD

Change dedicated acres to: 960 ac.

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

STAN WAGNER / Ph: (432) 253-9685

Regulatory Advisor

Title

Signature

Date

12/05/2022

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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

Petroleum Engineer

Title

01/31/2023

Date

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

Office CARLSBAD

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

(Instructions on page 2)

Additional Information

Location of Well

0. SHL: NESW / 1913 FNL / 1518 FWL / TWSP: 25S / RANGE: 34E / SECTION: 12 / LAT: 32.146959 / LONG: -103.427296 (TVD: 0 feet, MD: 0 feet)

PPP: NESW / 2639 FSL / 2320 FWL / TWSP: 25S / RANGE: 34E / SECTION: 13 / LAT: 32.130467 / LONG: -103.424686 (TVD: 12814 feet, MD: 18204 feet)

PPP: NESW / 2540 FSL / 2320 FWL / TWSP: 25S / RANGE: 34E / SECTION: 12 / LAT: 32.144689 / LONG: -103.424702 (TVD: 12875 feet, MD: 13023 feet)

BHL: SENW / 2590 FNL / 2320 FWL / TWSP: 25S / RANGE: 34E / SECTION: 24 / LAT: 32.116074 / LONG: -103.42472 (TVD: 12706 feet, MD: 23406 feet)

CONFIDENTIAL

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

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 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 30-025-49799	Pool Code 17980	Pool Name Dogie Draw; Wolfcamp
Property Code 332421	Property Name BANDANA FEDERAL COM	Well Number 703H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3395.4'

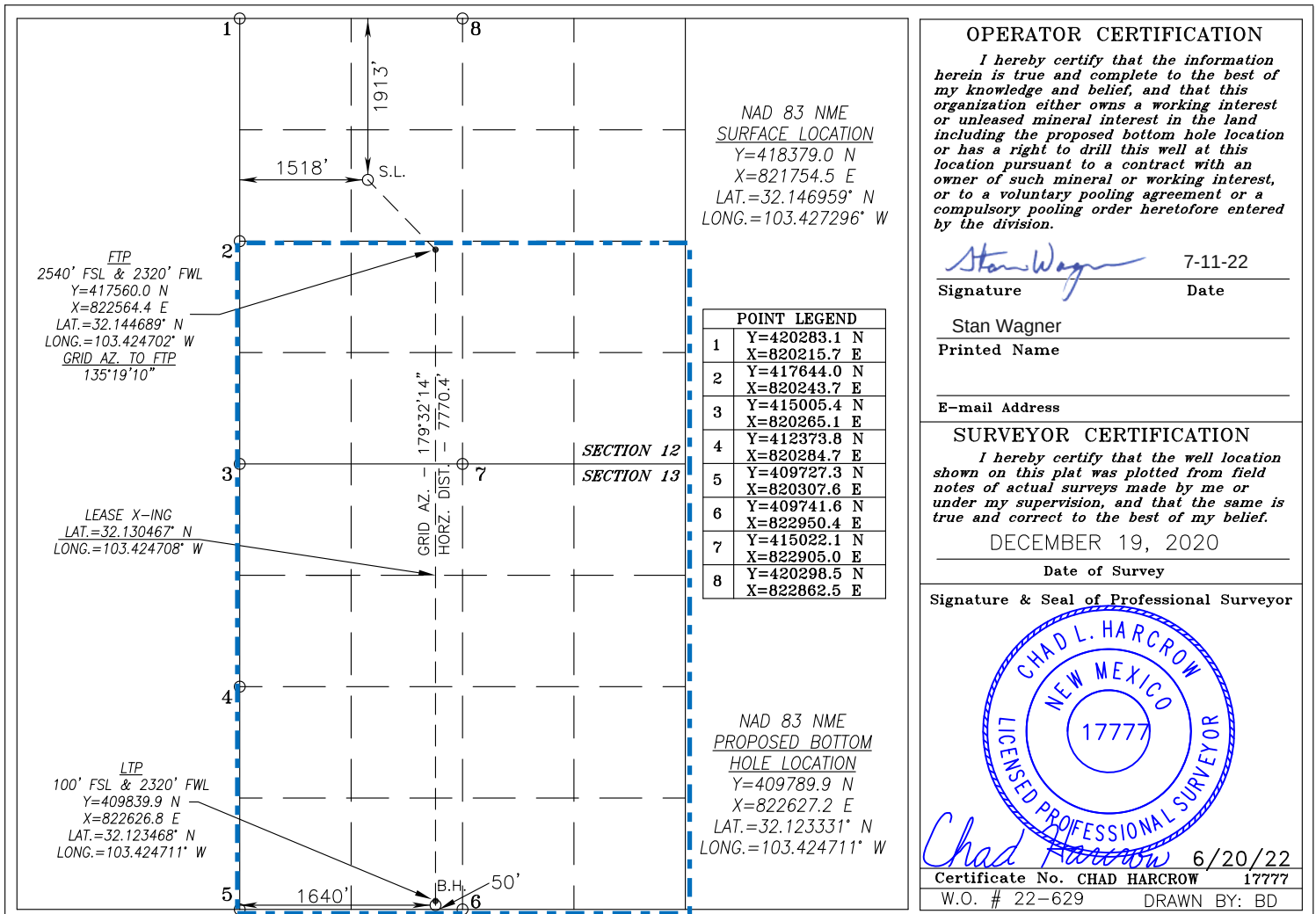
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	12	25-S	34-E		1913	NORTH	1518	WEST	LEA

Bottom Hole Location If Different From Surface

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

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



DELAWARE BASIN EAST

**BULLDOG PROSPECT (NM-E)
BANDANA FEDERAL PROJECT
BANDANA FEDERAL COM #703H
300254979900
OWB
PWP0**

Anticollision Report

07 July, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	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	12,557.4	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction
12,557.4	20,603.1	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
BANDANA FEDERAL PROJECT						
*BANDANA FEDERAL COM #601H - OWB - PWP0						Out of range
BANDANA FEDERAL COM #602H - OWB - PWP0	12,255.8	12,207.8	645.2	571.2	8.716	CC
BANDANA FEDERAL COM #602H - OWB - PWP0	20,603.1	20,297.2	704.3	560.7	4.903	ES, SF
BANDANA FEDERAL COM #603H - OWB - PWP0	1,995.0	1,995.2	30.3	23.3	4.327	CC, ES
BANDANA FEDERAL COM #603H - OWB - PWP0	2,185.0	2,186.5	32.1	24.3	4.146	SF
BANDANA FEDERAL COM #604H - OWB - PWP0	1,995.0	1,994.2	89.7	82.7	12.770	CC, ES
BANDANA FEDERAL COM #604H - OWB - PWP0	2,185.0	2,182.2	97.4	89.4	12.200	SF
BANDANA FEDERAL COM #702H - OWB - PWP0						Out of range
BANDANA FEDERAL COM #704H - OWB - PWP0	1,995.0	1,995.1	60.4	53.3	8.587	CC, ES
BANDANA FEDERAL COM #704H - OWB - PWP0	2,185.0	2,185.3	65.6	57.9	8.500	SF
JAMAICA 12 FEDERAL #1 (P&A) - OWB - AWP						Out of range
GREEN EYESHAD FED PROJECT						
GREEN EYESHAD FEDERAL COM #601H - OWB - AW						Out of range
GREEN EYESHAD FEDERAL COM #601H - ST01 - AW						Out of range
GREEN EYESHAD FEDERAL COM #602H - OWB - AW	12,635.0	12,975.1	818.8	767.8	16.046	SF
GREEN EYESHAD FEDERAL COM #602H - OWB - AW	12,709.9	12,961.9	813.8	763.3	16.112	CC, ES
GREEN EYESHAD FEDERAL COM #603H - OWB - AW	4,531.6	4,505.3	403.7	386.9	23.985	CC
GREEN EYESHAD FEDERAL COM #603H - OWB - AW	4,560.0	4,533.3	403.7	386.8	23.827	ES
GREEN EYESHAD FEDERAL COM #603H - OWB - AW	12,445.0	12,308.4	879.7	832.6	18.674	SF
GREEN EYESHAD FEDERAL COM #702H - OWB - AW						Out of range
GREEN EYESHAD FEDERAL COM #703H - OWB - AW	12,681.3	12,653.2	466.3	415.5	9.194	CC, ES, SF
GREEN EYESHAD FEDERAL COM #704H - OWB - AW	841.7	848.6	758.6	751.2	101.792	CC
GREEN EYESHAD FEDERAL COM #704H - OWB - AW	855.0	861.0	758.7	751.2	101.707	ES
GREEN EYESHAD FEDERAL COM #704H - OWB - AW	4,940.0	4,861.2	991.7	973.2	53.411	SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
PITCHBLENDE 24-25 FEDERAL PROJECT						
PITCHBLENDE 24-25 FED 603H - OWB - PWP1						Out of range
PITCHBLENDE 24-25 FED 604H - OWB - PWP1						Out of range
PITCHBLENDE 24-25 FED 605H - OWB - PWP1	20,603.1	12,416.3	540.7	464.9	7.135	CC, ES, SF
PITCHBLENDE 24-25 FED 606H - OWB - PWP1						Out of range
PITCHBLENDE 24-25 FED 703H - OWB - PWP1						Out of range
PITCHBLENDE 24-25 FED 704H - OWB - PWP1	20,603.1	12,659.8	405.8	324.9	5.014	CC, ES, SF
PITCHBLENDE 24-25 FED 705H - OWB - PWP1	20,603.1	12,585.9	848.7	765.4	10.186	CC, ES, SF
PITCHBLENDE 24-25 FED 706H - OWB - PWP1						Out of range
PITCHBLENDE 24-25 FED 802H - OWB - PWP1						Out of range
PITCHBLENDE 24-25 FED 803H - OWB - PWP1	20,603.1	12,686.1	285.5	204.1	3.509	CC, ES, SF

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
BANDANA FEDERAL PROJECT						
*BANDANA FEDERAL COM #601H - OWB - PWP0	20,603.1	20,606.4				Out of Range @TD
BANDANA FEDERAL COM #602H - OWB - PWP0	20,603.1	20,297.2	704.3	560.7	4.903	ES, SF
BANDANA FEDERAL COM #603H - OWB - PWP0	20,603.1	20,278.1	733.9	589.4	5.077	
BANDANA FEDERAL COM #604H - OWB - PWP0	20,603.1	20,296.2				Out of Range @TD
BANDANA FEDERAL COM #702H - OWB - PWP0	20,603.1	20,525.7				Out of Range @TD
BANDANA FEDERAL COM #704H - OWB - PWP0	20,603.1	20,595.7				Out of Range @TD
JAMAICA 12 FEDERAL #1 (P&A) - AWP	20,603.1	12,685.4				Out of Range @TD
GREEN EYESHAD FED PROJECT						
GREEN EYESHAD FEDERAL COM #601H - OWB - AW	20,603.1	12,686.5				Out of Range @TD
GREEN EYESHAD FEDERAL COM #601H - ST01 - AW	20,603.1	12,159.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #602H - OWB - AW	20,603.1	12,205.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #603H - OWB - AW	20,603.1	12,209.8				Out of Range @TD
GREEN EYESHAD FEDERAL COM #702H - OWB - AW	20,603.1	12,444.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #703H - OWB - AW	20,603.1	12,467.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #704H - OWB - AW	20,603.1	12,468.0				Out of Range @TD
PITCHBLENDE 24-25 FEDERAL PROJECT						
PITCHBLENDE 24-25 FED 603H - OWB - PWP1	20,603.1	12,388.4				Out of Range @TD
PITCHBLENDE 24-25 FED 604H - OWB - PWP1	20,603.1	12,450.0				Out of Range @TD
PITCHBLENDE 24-25 FED 605H - OWB - PWP1	20,603.1	12,416.3	540.7	464.9	7.135	CC, ES, SF
PITCHBLENDE 24-25 FED 606H - OWB - PWP1	20,603.1	12,450.0				Out of Range @TD
PITCHBLENDE 24-25 FED 703H - OWB - PWP1	20,603.1	12,569.1				Out of Range @TD
PITCHBLENDE 24-25 FED 704H - OWB - PWP1	20,603.1	12,659.8	405.8	324.9	5.014	CC, ES, SF
PITCHBLENDE 24-25 FED 705H - OWB - PWP1	20,603.1	12,585.9	848.7	765.4	10.186	CC, ES, SF
PITCHBLENDE 24-25 FED 706H - OWB - PWP1	20,603.1	12,668.4				Out of Range @TD
PITCHBLENDE 24-25 FED 802H - OWB - PWP1	20,603.1	12,664.9				Out of Range @TD
PITCHBLENDE 24-25 FED 803H - OWB - PWP1	20,603.1	12,686.1	285.5	204.1	3.509	CC, ES, SF

Offset Design: BANDANA FEDERAL PROJECT - BANDANA FEDERAL COM #602H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12261-MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,080.0	5,999.6	6,182.2	6,101.4	17.3	17.7	-33.30	-787.5	1,513.4	994.5	960.8	33.78	29.445	
6,175.0	6,092.5	6,262.4	6,180.8	17.7	18.0	-33.43	-792.4	1,503.0	967.4	933.0	34.43	28.100	
6,270.0	6,185.5	6,343.1	6,260.8	18.0	18.2	-33.61	-796.7	1,493.6	941.4	906.3	35.08	26.836	
6,365.0	6,278.4	6,424.2	6,341.4	18.3	18.5	-33.85	-800.7	1,485.2	916.4	880.6	35.73	25.648	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - BANDANA FEDERAL COM #602H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12261-MWD+IFR1+MS								Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
6,460.0	6,371.3	6,505.7	6,422.5	18.7	18.8	-34.15	-804.1	1,477.7	892.4	856.0	36.37	24.534		
6,555.0	6,464.2	6,587.7	6,504.2	19.0	19.1	-34.51	-807.1	1,471.3	869.5	832.5	37.02	23.489		
6,650.0	6,557.2	6,670.0	6,586.2	19.4	19.4	-34.93	-809.6	1,465.9	847.7	810.1	37.66	22.512		
6,745.0	6,650.1	6,752.6	6,668.7	19.7	19.6	-35.43	-811.6	1,461.6	827.1	788.8	38.29	21.599		
6,840.0	6,743.0	6,835.5	6,751.5	20.0	19.9	-36.01	-813.1	1,458.4	807.6	768.7	38.92	20.749		
6,935.0	6,835.9	6,918.6	6,834.7	20.4	20.2	-36.66	-814.1	1,456.2	789.4	749.8	39.55	19.958		
7,030.0	6,928.9	7,000.0	6,916.0	20.7	20.4	-37.37	-814.6	1,455.1	772.4	732.2	40.16	19.230		
7,125.0	7,021.8	7,090.5	7,006.5	21.1	20.7	-38.24	-814.7	1,455.0	756.5	715.7	40.77	18.556		
7,220.0	7,114.7	7,183.4	7,099.4	21.4	21.0	-39.17	-814.7	1,455.0	740.9	699.6	41.38	17.907		
7,315.0	7,207.6	7,276.3	7,192.3	21.8	21.2	-40.15	-814.7	1,455.0	725.6	683.6	41.99	17.279		
7,410.0	7,300.6	7,369.3	7,285.3	22.1	21.5	-41.17	-814.7	1,455.0	710.5	667.9	42.61	16.674		
7,505.0	7,393.5	7,462.2	7,378.2	22.5	21.8	-42.23	-814.7	1,455.0	695.6	652.4	43.23	16.090		
7,600.0	7,486.5	7,555.2	7,471.2	22.8	22.1	-43.17	-814.7	1,455.0	681.4	637.6	43.85	15.538		
7,695.0	7,580.1	7,648.8	7,564.8	23.2	22.3	-43.95	-814.7	1,455.0	669.6	625.1	44.50	15.048		
7,790.0	7,674.2	7,742.9	7,658.9	23.6	22.6	-44.60	-814.7	1,455.0	660.2	615.0	45.14	14.624		
7,885.0	7,768.7	7,837.4	7,753.4	24.0	22.9	-45.11	-814.7	1,455.0	653.1	607.3	45.79	14.263		
7,980.0	7,863.5	7,932.1	7,848.2	24.4	23.2	-45.47	-814.7	1,455.0	648.3	601.9	46.43	13.964		
8,075.0	7,958.4	8,027.1	7,943.1	24.8	23.5	-45.67	-814.7	1,455.0	645.7	598.6	47.06	13.721		
8,170.0	8,053.4	8,122.1	8,038.1	25.1	23.8	-45.67	-814.7	1,455.0	645.2	597.6	47.65	13.540		
8,265.0	8,148.4	8,217.1	8,133.1	25.4	24.1	-45.67	-814.7	1,455.0	645.2	597.0	48.22	13.379		
8,360.0	8,243.4	8,312.1	8,228.1	25.7	24.3	-45.67	-814.7	1,455.0	645.2	596.4	48.80	13.221		
8,455.0	8,338.4	8,407.1	8,323.1	26.0	24.6	-45.67	-814.7	1,455.0	645.2	595.8	49.38	13.065		
8,550.0	8,433.4	8,502.1	8,418.1	26.2	24.9	-45.67	-814.7	1,455.0	645.2	595.2	49.97	12.913		
8,645.0	8,528.4	8,597.1	8,513.1	26.5	25.2	-45.67	-814.7	1,455.0	645.2	594.7	50.55	12.763		
8,740.0	8,623.4	8,692.1	8,608.1	26.8	25.5	-45.67	-814.7	1,455.0	645.2	594.1	51.14	12.616		
8,835.0	8,718.4	8,787.1	8,703.1	27.1	25.8	-45.67	-814.7	1,455.0	645.2	593.5	51.73	12.472		
8,930.0	8,813.4	8,882.1	8,798.1	27.3	26.1	-45.67	-814.7	1,455.0	645.2	592.9	52.32	12.331		
9,025.0	8,908.4	8,977.1	8,893.1	27.6	26.4	-45.67	-814.7	1,455.0	645.2	592.3	52.92	12.192		
9,120.0	9,003.4	9,072.1	8,988.1	27.9	26.7	-45.67	-814.7	1,455.0	645.2	591.7	53.52	12.056		
9,215.0	9,098.4	9,167.1	9,083.1	28.2	27.0	-45.67	-814.7	1,455.0	645.2	591.1	54.12	11.923		
9,310.0	9,193.4	9,262.1	9,178.1	28.5	27.3	-45.67	-814.7	1,455.0	645.2	590.5	54.72	11.792		
9,405.0	9,288.4	9,357.1	9,273.1	28.8	27.6	-45.67	-814.7	1,455.0	645.2	589.9	55.32	11.663		
9,500.0	9,383.4	9,452.1	9,368.1	29.1	27.9	-45.67	-814.7	1,455.0	645.2	589.3	55.92	11.537		
9,595.0	9,478.4	9,547.1	9,463.1	29.3	28.2	-45.67	-814.7	1,455.0	645.2	588.7	56.53	11.414		
9,690.0	9,573.4	9,642.1	9,558.1	29.6	28.6	-45.67	-814.7	1,455.0	645.2	588.1	57.14	11.292		
9,785.0	9,668.4	9,737.1	9,653.1	29.9	28.9	-45.67	-814.7	1,455.0	645.2	587.5	57.75	11.173		
9,880.0	9,763.4	9,832.1	9,748.1	30.2	29.2	-45.67	-814.7	1,455.0	645.2	586.9	58.36	11.056		
9,975.0	9,858.4	9,927.1	9,843.1	30.5	29.5	-45.67	-814.7	1,455.0	645.2	586.2	58.97	10.941		
10,070.0	9,953.4	10,022.1	9,938.1	30.8	29.8	-45.67	-814.7	1,455.0	645.2	585.6	59.59	10.828		
10,165.0	10,048.4	10,117.1	10,033.1	31.1	30.1	-45.67	-814.7	1,455.0	645.2	585.0	60.20	10.717		
10,260.0	10,143.4	10,212.1	10,128.1	31.4	30.4	-45.67	-814.7	1,455.0	645.2	584.4	60.82	10.609		
10,355.0	10,238.4	10,307.1	10,223.1	31.7	30.7	-45.67	-814.7	1,455.0	645.2	583.8	61.44	10.502		
10,450.0	10,333.4	10,402.1	10,318.1	32.0	31.0	-45.67	-814.7	1,455.0	645.2	583.2	62.06	10.397		
10,545.0	10,428.4	10,497.1	10,413.1	32.3	31.3	-45.67	-814.7	1,455.0	645.2	582.5	62.68	10.294		
10,640.0	10,523.4	10,592.1	10,508.1	32.6	31.7	-45.67	-814.7	1,455.0	645.2	581.9	63.30	10.193		
10,735.0	10,618.4	10,687.1	10,603.1	32.9	32.0	-45.67	-814.7	1,455.0	645.2	581.3	63.92	10.093		
10,830.0	10,713.4	10,782.1	10,698.1	33.2	32.3	-45.67	-814.7	1,455.0	645.2	580.7	64.55	9.996		
10,925.0	10,808.4	10,877.1	10,793.1	33.5	32.6	-45.67	-814.7	1,455.0	645.2	580.0	65.17	9.900		
11,020.0	10,903.4	10,972.1	10,888.1	33.8	32.9	-45.67	-814.7	1,455.0	645.2	579.4	65.80	9.805		
11,115.0	10,998.4	11,067.1	10,983.1	34.1	33.2	-45.67	-814.7	1,455.0	645.2	578.8	66.43	9.713		
11,210.0	11,093.4	11,162.1	11,078.1	34.4	33.6	-45.67	-814.7	1,455.0	645.2	578.2	67.06	9.622		
11,305.0	11,188.4	11,257.1	11,173.1	34.7	33.9	-45.67	-814.7	1,455.0	645.2	577.5	67.69	9.532		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - BANDANA FEDERAL COM #602H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12261-MWD+IFR1+MS								Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
11,400.0	11,283.4	11,352.1	11,268.1	35.1	34.2	89.62	-814.7	1,455.0	645.2	576.9	68.32	9.444		
11,495.0	11,378.4	11,447.1	11,363.1	35.4	34.5	89.62	-814.7	1,455.0	645.2	576.3	68.95	9.358		
11,590.0	11,473.4	11,542.1	11,458.1	35.7	34.8	89.62	-814.7	1,455.0	645.2	575.6	69.58	9.272		
11,685.0	11,568.4	11,637.1	11,553.1	36.0	35.2	89.62	-814.7	1,455.0	645.2	575.0	70.22	9.189		
11,780.0	11,663.4	11,732.1	11,648.1	36.3	35.5	89.62	-814.7	1,455.0	645.2	574.4	70.85	9.106		
11,875.0	11,758.4	11,827.1	11,743.1	36.6	35.8	89.62	-814.7	1,455.0	645.2	573.7	71.49	9.026		
11,970.0	11,853.4	11,922.1	11,838.1	36.9	36.1	89.62	-814.7	1,455.0	645.2	573.1	72.12	8.946		
12,065.0	11,948.4	12,017.1	11,933.1	37.2	36.4	89.62	-814.7	1,455.0	645.2	572.5	72.76	8.868		
12,160.0	12,043.4	12,112.1	12,028.1	37.5	36.8	89.62	-814.7	1,455.0	645.2	571.8	73.40	8.790		
12,255.0	12,138.4	12,207.1	12,123.1	37.9	37.1	89.62	-814.7	1,455.0	645.2	571.2	74.03	8.716		
12,255.8	12,139.1	12,207.8	12,123.8	37.9	37.1	89.62	-814.7	1,455.0	645.2	571.2	74.03	8.716 CC		
12,350.0	12,233.4	12,301.8	12,217.8	38.2	37.2	89.77	-816.5	1,455.0	645.2	570.8	74.44	8.668		
12,445.0	12,328.4	12,393.1	12,307.4	38.5	37.2	91.24	-832.9	1,455.2	645.5	570.8	74.75	8.636		
12,540.0	12,423.4	12,475.0	12,383.9	38.8	37.2	93.81	-862.0	1,455.4	647.5	572.5	75.05	8.628		
12,635.0	12,518.0	12,550.0	12,448.6	38.9	37.2	-82.30	-899.7	1,455.8	652.4	577.3	75.10	8.688		
12,730.0	12,609.6	12,618.8	12,502.2	39.0	37.2	-79.09	-942.8	1,456.2	659.2	584.3	74.97	8.794		
12,825.0	12,694.6	12,686.3	12,548.1	39.0	37.3	-76.18	-992.1	1,456.6	667.0	592.2	74.75	8.922		
12,920.0	12,769.5	12,750.0	12,584.8	39.1	37.3	-73.72	-1,044.2	1,457.1	674.7	600.2	74.47	9.060		
13,015.0	12,831.5	12,816.1	12,615.1	39.1	37.4	-71.66	-1,102.9	1,457.7	681.6	607.4	74.21	9.185		
13,110.0	12,878.0	12,879.5	12,636.3	39.2	37.4	-70.18	-1,162.6	1,458.2	687.1	613.1	74.00	9.285		
13,205.0	12,907.3	12,942.3	12,649.3	39.3	37.5	-69.27	-1,223.9	1,458.8	690.6	616.7	73.92	9.343		
13,300.0	12,918.1	13,004.8	12,654.2	39.3	37.6	-68.94	-1,286.2	1,459.3	692.0	618.0	74.00	9.351		
13,395.0	12,915.9	13,089.1	12,652.0	39.3	37.7	-68.94	-1,370.5	1,460.1	692.1	617.8	74.23	9.323		
13,490.0	12,913.1	13,184.1	12,649.1	39.4	37.8	-68.93	-1,465.4	1,461.0	692.2	617.7	74.50	9.291		
13,585.0	12,910.3	13,279.1	12,646.2	39.5	37.9	-68.93	-1,560.4	1,461.9	692.4	617.6	74.81	9.256		
13,680.0	12,907.6	13,374.1	12,643.3	39.6	38.1	-68.92	-1,655.3	1,462.7	692.6	617.4	75.13	9.218		
13,775.0	12,904.8	13,469.1	12,640.4	39.7	38.3	-68.91	-1,750.3	1,463.6	692.7	617.2	75.49	9.177		
13,870.0	12,902.0	13,564.1	12,637.4	39.9	38.5	-68.90	-1,845.2	1,464.5	692.9	617.0	75.87	9.133		
13,965.0	12,899.3	13,659.1	12,634.5	40.1	38.6	-68.89	-1,940.2	1,465.4	693.0	616.8	76.28	9.086		
14,060.0	12,896.5	13,754.1	12,631.6	40.3	38.9	-68.88	-2,035.1	1,466.2	693.2	616.5	76.71	9.037		
14,155.0	12,893.7	13,849.1	12,628.7	40.5	39.1	-68.87	-2,130.1	1,467.1	693.4	616.2	77.16	8.986		
14,250.0	12,891.0	13,944.1	12,625.7	40.8	39.3	-68.86	-2,225.0	1,468.0	693.5	615.9	77.65	8.932		
14,345.0	12,888.2	14,039.1	12,622.8	41.0	39.6	-68.86	-2,320.0	1,468.9	693.7	615.5	78.15	8.876		
14,440.0	12,885.4	14,134.1	12,619.9	41.3	39.8	-68.85	-2,414.9	1,469.7	693.9	615.2	78.68	8.819		
14,535.0	12,882.7	14,229.1	12,617.0	41.6	40.1	-68.84	-2,509.9	1,470.6	694.0	614.8	79.23	8.759		
14,630.0	12,879.9	14,324.1	12,614.0	41.9	40.4	-68.83	-2,604.8	1,471.5	694.2	614.4	79.81	8.698		
14,725.0	12,877.1	14,419.1	12,611.1	42.2	40.6	-68.82	-2,699.8	1,472.4	694.3	613.9	80.40	8.636		
14,820.0	12,874.4	14,514.1	12,608.2	42.5	40.9	-68.81	-2,794.7	1,473.2	694.5	613.5	81.02	8.572		
14,915.0	12,871.6	14,609.1	12,605.3	42.9	41.3	-68.80	-2,889.7	1,474.1	694.7	613.0	81.66	8.506		
15,010.0	12,868.8	14,704.1	12,602.4	43.2	41.6	-68.80	-2,984.6	1,475.0	694.8	612.5	82.32	8.440		
15,105.0	12,866.1	14,799.1	12,599.4	43.5	41.9	-68.79	-3,079.6	1,475.9	695.0	612.0	83.01	8.373		
15,200.0	12,863.3	14,894.1	12,596.5	43.9	42.2	-68.78	-3,174.5	1,476.7	695.1	611.4	83.71	8.304		
15,295.0	12,860.5	14,989.1	12,593.6	44.3	42.6	-68.77	-3,269.5	1,477.6	695.3	610.9	84.43	8.235		
15,390.0	12,857.8	15,084.1	12,590.7	44.6	43.0	-68.76	-3,364.4	1,478.5	695.5	610.3	85.17	8.166		
15,485.0	12,855.0	15,179.1	12,587.7	45.0	43.3	-68.75	-3,459.4	1,479.4	695.6	609.7	85.93	8.096		
15,580.0	12,852.2	15,274.1	12,584.8	45.4	43.7	-68.74	-3,554.3	1,480.2	695.8	609.1	86.70	8.025		
15,675.0	12,849.5	15,369.1	12,581.9	45.8	44.1	-68.73	-3,649.3	1,481.1	695.9	608.4	87.50	7.954		
15,770.0	12,846.7	15,464.1	12,579.0	46.2	44.5	-68.73	-3,744.2	1,482.0	696.1	607.8	88.31	7.883		
15,865.0	12,843.9	15,559.1	12,576.1	46.7	44.9	-68.72	-3,839.2	1,482.9	696.3	607.1	89.13	7.812		
15,960.0	12,841.2	15,654.1	12,573.1	47.1	45.3	-68.71	-3,934.1	1,483.7	696.4	606.5	89.97	7.740		
16,055.0	12,838.4	15,749.1	12,570.2	47.5	45.7	-68.70	-4,029.1	1,484.6	696.6	605.8	90.83	7.669		
16,150.0	12,835.6	15,844.1	12,567.3	47.9	46.1	-68.69	-4,124.0	1,485.5	696.8	605.0	91.70	7.598		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - BANDANA FEDERAL COM #602H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12261-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,245.0	12,832.9	15,939.1	12,564.4	48.4	46.6	-68.68	-4,219.0	1,486.4	696.9	604.3	92.59	7.527	
16,340.0	12,830.1	16,034.1	12,561.4	48.8	47.0	-68.67	-4,313.9	1,487.2	697.1	603.6	93.49	7.456	
16,435.0	12,827.3	16,129.1	12,558.5	49.3	47.5	-68.66	-4,408.9	1,488.1	697.2	602.8	94.41	7.385	
16,530.0	12,824.6	16,224.1	12,555.6	49.8	47.9	-68.66	-4,503.8	1,489.0	697.4	602.1	95.34	7.315	
16,625.0	12,821.8	16,319.1	12,552.7	50.2	48.4	-68.65	-4,598.8	1,489.9	697.6	601.3	96.28	7.245	
16,720.0	12,819.1	16,414.1	12,549.8	50.7	48.8	-68.64	-4,693.7	1,490.7	697.7	600.5	97.23	7.176	
16,815.0	12,816.3	16,509.1	12,546.8	51.2	49.3	-68.63	-4,788.7	1,491.6	697.9	599.7	98.20	7.107	
16,910.0	12,813.5	16,604.1	12,543.9	51.7	49.8	-68.62	-4,883.6	1,492.5	698.0	598.9	99.18	7.038	
17,005.0	12,810.8	16,699.1	12,541.0	52.2	50.3	-68.61	-4,978.6	1,493.3	698.2	598.0	100.17	6.970	
17,100.0	12,808.0	16,794.1	12,538.1	52.7	50.8	-68.60	-5,073.5	1,494.2	698.4	597.2	101.17	6.903	
17,195.0	12,805.2	16,889.1	12,535.1	53.2	51.3	-68.60	-5,168.5	1,495.1	698.5	596.3	102.19	6.836	
17,290.0	12,802.5	16,984.1	12,532.2	53.7	51.8	-68.59	-5,263.4	1,496.0	698.7	595.5	103.21	6.770	
17,385.0	12,799.7	17,079.1	12,529.3	54.2	52.3	-68.58	-5,358.4	1,496.8	698.8	594.6	104.24	6.704	
17,480.0	12,796.9	17,174.1	12,526.4	54.7	52.8	-68.57	-5,453.3	1,497.7	699.0	593.7	105.29	6.639	
17,575.0	12,794.2	17,269.1	12,523.5	55.3	53.3	-68.56	-5,548.3	1,498.6	699.2	592.8	106.34	6.575	
17,670.0	12,791.4	17,364.1	12,520.5	55.8	53.8	-68.55	-5,643.2	1,499.5	699.3	591.9	107.40	6.511	
17,765.0	12,788.6	17,459.1	12,517.6	56.3	54.3	-68.54	-5,738.2	1,500.3	699.5	591.0	108.47	6.448	
17,860.0	12,785.9	17,554.1	12,514.7	56.9	54.9	-68.54	-5,833.1	1,501.2	699.7	590.1	109.56	6.386	
17,955.0	12,783.1	17,649.1	12,511.8	57.4	55.4	-68.53	-5,928.1	1,502.1	699.8	589.2	110.64	6.325	
18,050.0	12,780.3	17,744.1	12,508.8	58.0	56.0	-68.52	-6,023.0	1,503.0	700.0	588.2	111.74	6.264	
18,145.0	12,777.6	17,839.1	12,505.9	58.5	56.5	-68.51	-6,118.0	1,503.8	700.1	587.3	112.85	6.204	
18,240.0	12,774.8	17,934.1	12,503.0	59.1	57.0	-68.50	-6,212.9	1,504.7	700.3	586.3	113.96	6.145	
18,335.0	12,772.0	18,029.1	12,500.1	59.6	57.6	-68.49	-6,307.9	1,505.6	700.5	585.4	115.08	6.087	
18,430.0	12,769.3	18,124.1	12,497.2	60.2	58.1	-68.48	-6,402.8	1,506.5	700.6	584.4	116.21	6.029	
18,525.0	12,766.5	18,219.1	12,494.2	60.7	58.7	-68.48	-6,497.8	1,507.3	700.8	583.4	117.35	5.972	
18,620.0	12,763.7	18,314.1	12,491.3	61.3	59.3	-68.47	-6,592.7	1,508.2	700.9	582.5	118.49	5.916	
18,715.0	12,761.0	18,409.1	12,488.4	61.9	59.8	-68.46	-6,687.7	1,509.1	701.1	581.5	119.64	5.860	
18,810.0	12,758.2	18,504.1	12,485.5	62.5	60.4	-68.45	-6,782.7	1,510.0	701.3	580.5	120.79	5.805	
18,905.0	12,755.4	18,599.1	12,482.5	63.0	61.0	-68.44	-6,877.6	1,510.8	701.4	579.5	121.96	5.751	
19,000.0	12,752.7	18,694.1	12,479.6	63.6	61.6	-68.43	-6,972.6	1,511.7	701.6	578.5	123.13	5.698	
19,095.0	12,749.9	18,789.1	12,476.7	64.2	62.1	-68.42	-7,067.5	1,512.6	701.8	577.5	124.30	5.646	
19,190.0	12,747.1	18,884.1	12,473.8	64.8	62.7	-68.42	-7,162.5	1,513.5	701.9	576.4	125.48	5.594	
19,285.0	12,744.4	18,979.1	12,470.8	65.4	63.3	-68.41	-7,257.4	1,514.3	702.1	575.4	126.67	5.543	
19,380.0	12,741.6	19,074.1	12,467.9	66.0	63.9	-68.40	-7,352.4	1,515.2	702.2	574.4	127.86	5.492	
19,475.0	12,738.8	19,169.1	12,465.0	66.6	64.5	-68.39	-7,447.3	1,516.1	702.4	573.3	129.06	5.442	
19,570.0	12,736.1	19,264.1	12,462.1	67.2	65.1	-68.38	-7,542.3	1,517.0	702.6	572.3	130.26	5.393	
19,665.0	12,733.3	19,359.1	12,459.2	67.8	65.7	-68.37	-7,637.2	1,517.8	702.7	571.3	131.47	5.345	
19,760.0	12,730.5	19,454.1	12,456.2	68.4	66.3	-68.36	-7,732.2	1,518.7	702.9	570.2	132.68	5.298	
19,855.0	12,727.8	19,549.1	12,453.3	69.0	66.9	-68.36	-7,827.1	1,519.6	703.1	569.2	133.90	5.251	
19,950.0	12,725.0	19,644.1	12,450.4	69.6	67.5	-68.35	-7,922.1	1,520.5	703.2	568.1	135.12	5.204	
20,045.0	12,722.2	19,739.1	12,447.5	70.2	68.1	-68.34	-8,017.0	1,521.3	703.4	567.0	136.35	5.159	
20,140.0	12,719.5	19,834.1	12,444.5	70.8	68.7	-68.33	-8,112.0	1,522.2	703.5	566.0	137.58	5.114	
20,235.0	12,716.7	19,929.1	12,441.6	71.4	69.3	-68.32	-8,206.9	1,523.1	703.7	564.9	138.82	5.069	
20,330.0	12,714.0	20,024.1	12,438.7	72.0	69.9	-68.31	-8,301.9	1,524.0	703.9	563.8	140.06	5.026	
20,425.0	12,711.2	20,119.1	12,435.8	72.6	70.5	-68.31	-8,396.8	1,524.8	704.0	562.7	141.30	4.982	
20,520.0	12,708.4	20,214.1	12,432.9	73.3	71.1	-68.30	-8,491.8	1,525.7	704.2	561.6	142.55	4.940	
20,603.1	12,706.0	20,297.2	12,430.3	73.8	71.7	-68.29	-8,574.9	1,526.5	704.3	560.7	143.64	4.903 ES, SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	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 #603H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12239-MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.2	0.2	3.0	3.0	-56.31	16.8	-25.2	30.3					
95.0	95.0	95.2	95.2	3.0	3.0	-56.31	16.8	-25.2	30.3	24.3	6.00	5.048		
190.0	190.0	190.2	190.2	3.0	3.0	-56.31	16.8	-25.2	30.3	24.3	6.00	5.044		
285.0	285.0	285.2	285.2	3.0	3.0	-56.31	16.8	-25.2	30.3	24.3	6.01	5.036		
380.0	380.0	380.2	380.2	3.0	3.0	-56.31	16.8	-25.2	30.3	24.3	6.03	5.024		
475.0	475.0	475.2	475.2	3.0	3.0	-56.31	16.8	-25.2	30.3	24.2	6.05	5.007		
570.0	570.0	570.2	570.2	3.1	3.1	-56.31	16.8	-25.2	30.3	24.2	6.07	4.986		
665.0	665.0	665.2	665.2	3.1	3.1	-56.31	16.8	-25.2	30.3	24.2	6.10	4.962		
760.0	760.0	760.2	760.2	3.1	3.1	-56.31	16.8	-25.2	30.3	24.1	6.14	4.934		
855.0	855.0	855.2	855.2	3.2	3.2	-56.31	16.8	-25.2	30.3	24.1	6.18	4.902		
950.0	950.0	950.2	950.2	3.2	3.2	-56.31	16.8	-25.2	30.3	24.1	6.22	4.866		
1,045.0	1,045.0	1,045.2	1,045.2	3.3	3.3	-56.31	16.8	-25.2	30.3	24.0	6.27	4.828		
1,140.0	1,140.0	1,140.2	1,140.2	3.3	3.3	-56.31	16.8	-25.2	30.3	24.0	6.33	4.787		
1,235.0	1,235.0	1,235.2	1,235.2	3.4	3.4	-56.31	16.8	-25.2	30.3	23.9	6.39	4.743		
1,330.0	1,330.0	1,330.2	1,330.2	3.4	3.4	-56.31	16.8	-25.2	30.3	23.8	6.45	4.697		
1,425.0	1,425.0	1,425.2	1,425.2	3.5	3.5	-56.31	16.8	-25.2	30.3	23.8	6.52	4.648		
1,520.0	1,520.0	1,520.2	1,520.2	3.6	3.6	-56.31	16.8	-25.2	30.3	23.7	6.59	4.598		
1,615.0	1,615.0	1,615.2	1,615.2	3.6	3.6	-56.31	16.8	-25.2	30.3	23.6	6.66	4.546		
1,710.0	1,710.0	1,710.2	1,710.2	3.7	3.7	-56.31	16.8	-25.2	30.3	23.5	6.74	4.493		
1,805.0	1,805.0	1,805.2	1,805.2	3.8	3.8	-56.31	16.8	-25.2	30.3	23.5	6.82	4.438		
1,900.0	1,900.0	1,900.2	1,900.2	3.9	3.9	-56.31	16.8	-25.2	30.3	23.4	6.91	4.383		
1,995.0	1,995.0	1,995.2	1,995.2	3.9	3.9	-56.31	16.8	-25.2	30.3	23.3	7.00	4.327	CC, ES	
2,090.0	2,090.0	2,090.9	2,090.8	4.1	4.1	166.97	15.4	-24.9	30.7	23.5	7.20	4.260		
2,185.0	2,184.9	2,186.5	2,186.4	4.6	4.7	162.74	10.8	-24.1	32.1	24.3	7.74	4.146	SF	
2,280.0	2,279.6	2,282.0	2,281.6	5.2	5.3	156.44	3.2	-22.7	34.8	26.7	8.09	4.303		
2,375.0	2,373.9	2,377.4	2,376.3	5.8	5.9	149.18	-7.6	-20.7	39.2	31.0	8.25	4.759		
2,470.0	2,467.9	2,472.6	2,470.4	6.3	6.4	142.05	-21.4	-18.1	45.6	37.3	8.35	5.462		
2,565.0	2,561.3	2,567.5	2,563.8	6.8	6.9	135.71	-38.3	-15.0	54.1	45.6	8.54	6.336		
2,660.0	2,654.3	2,661.9	2,656.1	7.2	7.2	130.69	-57.4	-11.5	64.4	55.6	8.82	7.309		
2,755.0	2,747.2	2,756.2	2,748.4	7.4	7.4	127.10	-76.7	-7.9	75.2	66.0	9.19	8.182		
2,850.0	2,840.2	2,850.5	2,840.6	7.5	7.6	124.41	-96.0	-4.4	86.2	76.5	9.65	8.929		
2,945.0	2,933.1	2,944.7	2,932.8	7.7	7.8	122.33	-115.3	-0.8	97.3	87.1	10.17	9.569		
3,040.0	3,026.0	3,039.0	3,025.1	7.9	8.0	120.68	-134.6	2.7	108.5	97.8	10.72	10.120		
3,135.0	3,118.9	3,133.3	3,117.3	8.1	8.2	119.34	-153.8	6.3	119.8	108.5	11.31	10.597		
3,230.0	3,211.9	3,227.6	3,209.5	8.3	8.4	118.23	-173.1	9.8	131.2	119.3	11.91	11.012		
3,325.0	3,304.8	3,321.9	3,301.7	8.6	8.6	117.30	-192.4	13.4	142.6	130.0	12.53	11.377		
3,420.0	3,397.7	3,416.2	3,394.0	8.8	8.8	116.51	-211.7	17.0	154.0	140.8	13.16	11.698		
3,515.0	3,490.6	3,510.5	3,486.2	9.0	9.1	115.82	-231.0	20.5	165.4	151.6	13.81	11.982		
3,610.0	3,583.6	3,604.8	3,578.4	9.3	9.3	115.23	-250.3	24.1	176.9	162.4	14.46	12.234		
3,705.0	3,676.5	3,699.1	3,670.6	9.6	9.6	114.70	-269.6	27.6	188.4	173.3	15.12	12.460		
3,800.0	3,769.4	3,793.3	3,762.9	9.8	9.8	114.24	-288.8	31.2	199.9	184.1	15.79	12.662		
3,895.0	3,862.3	3,887.6	3,855.1	10.1	10.1	113.83	-308.1	34.7	211.4	194.9	16.46	12.844		
3,990.0	3,955.3	3,981.9	3,947.3	10.4	10.4	113.46	-327.4	38.3	222.9	205.8	17.13	13.009		
4,085.0	4,048.2	4,076.2	4,039.6	10.7	10.7	113.13	-346.7	41.9	234.4	216.6	17.82	13.158		
4,180.0	4,141.1	4,170.5	4,131.8	10.9	11.0	112.82	-366.0	45.4	246.0	227.5	18.50	13.294		
4,275.0	4,234.0	4,264.8	4,224.0	11.2	11.2	112.55	-385.3	49.0	257.5	238.3	19.19	13.418		
4,370.0	4,327.0	4,359.1	4,316.2	11.5	11.5	112.30	-404.6	52.5	269.0	249.2	19.88	13.531		
4,465.0	4,419.9	4,453.4	4,408.5	11.8	11.8	112.07	-423.8	56.1	280.6	260.0	20.58	13.635		
4,560.0	4,512.8	4,547.7	4,500.7	12.1	12.1	111.85	-443.1	59.7	292.1	270.9	21.28	13.731		
4,655.0	4,605.7	4,641.9	4,592.9	12.4	12.4	111.66	-462.4	63.2	303.7	281.7	21.98	13.820		
4,750.0	4,698.7	4,736.2	4,685.1	12.8	12.7	111.47	-481.7	66.8	315.3	292.6	22.68	13.902		
4,845.0	4,791.6	4,830.5	4,777.4	13.1	13.1	111.30	-501.0	70.3	326.8	303.4	23.38	13.978		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	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 #603H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12239-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,940.0	4,884.5	4,924.8	4,869.6	13.4	13.4	111.15		-520.3	73.9	338.4	314.3	24.09	14.049	
5,035.0	4,977.4	5,019.1	4,961.8	13.7	13.7	111.00		-539.6	77.4	350.0	325.2	24.79	14.115	
5,130.0	5,070.4	5,113.4	5,054.1	14.0	14.0	110.86		-558.8	81.0	361.5	336.0	25.50	14.176	
5,225.0	5,163.3	5,207.7	5,146.3	14.3	14.3	110.73		-578.1	84.6	373.1	346.9	26.21	14.233	
5,320.0	5,256.2	5,302.0	5,238.5	14.7	14.6	110.61		-597.4	88.1	384.7	357.8	26.93	14.287	
5,415.0	5,349.1	5,396.3	5,330.7	15.0	15.0	110.50		-616.7	91.7	396.3	368.6	27.64	14.338	
5,510.0	5,442.1	5,490.5	5,423.0	15.3	15.3	110.39		-636.0	95.2	407.8	379.5	28.35	14.385	
5,605.0	5,535.0	5,584.8	5,515.2	15.6	15.6	110.29		-655.3	98.8	419.4	390.3	29.07	14.430	
5,700.0	5,627.9	5,679.1	5,607.4	16.0	16.0	110.19		-674.5	102.4	431.0	401.2	29.78	14.472	
5,795.0	5,720.8	5,773.4	5,699.6	16.3	16.3	110.10		-693.8	105.9	442.6	412.1	30.50	14.511	
5,890.0	5,813.8	5,867.7	5,791.9	16.6	16.6	110.01		-713.1	109.5	454.2	422.9	31.22	14.549	
5,985.0	5,906.7	5,962.0	5,884.1	17.0	16.9	109.93		-732.4	113.0	465.7	433.8	31.93	14.584	
6,080.0	5,999.6	6,056.3	5,976.3	17.3	17.3	109.85		-751.7	116.6	477.3	444.7	32.65	14.617	
6,175.0	6,092.5	6,152.5	6,070.5	17.7	17.6	109.82		-771.0	120.1	488.8	455.4	33.39	14.640	
6,270.0	6,185.5	6,250.8	6,167.3	18.0	18.1	110.12		-787.9	123.3	499.7	465.5	34.13	14.640	
6,365.0	6,278.4	6,349.1	6,264.6	18.3	18.5	110.77		-801.5	125.8	509.8	474.9	34.85	14.627	
6,460.0	6,371.3	6,447.0	6,361.9	18.7	19.0	111.76		-811.8	127.7	519.3	483.7	35.55	14.607	
6,555.0	6,464.2	6,544.3	6,459.0	19.0	19.4	113.05		-818.8	129.0	528.3	492.1	36.22	14.585	
6,650.0	6,557.2	6,640.9	6,555.5	19.4	19.8	114.64		-822.6	129.7	537.1	500.3	36.85	14.574	
6,745.0	6,650.1	6,735.7	6,650.3	19.7	20.1	116.45		-823.3	129.8	545.9	508.4	37.44	14.579	
6,840.0	6,743.0	6,828.6	6,743.2	20.0	20.3	118.25		-823.3	129.8	555.1	517.1	38.02	14.599	
6,935.0	6,835.9	6,921.5	6,836.1	20.4	20.6	119.98		-823.3	129.8	564.9	526.3	38.61	14.632	
7,030.0	6,928.9	7,014.5	6,929.1	20.7	20.9	121.66		-823.3	129.8	575.2	536.0	39.19	14.675	
7,125.0	7,021.8	7,107.4	7,022.0	21.1	21.1	123.28		-823.3	129.8	585.9	546.2	39.79	14.726	
7,220.0	7,114.7	7,200.3	7,114.9	21.4	21.4	124.84		-823.3	129.8	597.2	556.8	40.39	14.784	
7,315.0	7,207.6	7,293.2	7,207.8	21.8	21.7	126.34		-823.3	129.8	608.8	567.8	41.00	14.850	
7,410.0	7,300.6	7,386.2	7,300.8	22.1	21.9	127.79		-823.3	129.8	620.9	579.3	41.61	14.921	
7,505.0	7,393.5	7,479.1	7,393.7	22.5	22.2	129.18		-823.3	129.8	633.4	591.1	42.23	14.998	
7,600.0	7,486.5	7,572.2	7,486.7	22.8	22.5	130.60		-823.3	129.8	645.8	602.9	42.85	15.069	
7,695.0	7,580.1	7,665.8	7,580.3	23.2	22.7	131.83		-823.3	129.8	656.5	613.0	43.49	15.095	
7,790.0	7,674.2	7,759.8	7,674.4	23.6	23.0	132.80		-823.3	129.8	665.4	621.2	44.14	15.074	
7,885.0	7,768.7	7,854.3	7,768.9	24.0	23.3	133.52		-823.3	129.8	672.2	627.4	44.79	15.008	
7,980.0	7,863.5	7,949.1	7,863.7	24.4	23.6	134.00		-823.3	129.8	677.0	631.5	45.44	14.898	
8,075.0	7,958.4	8,044.0	7,958.6	24.8	23.9	134.26		-823.3	129.8	679.5	633.4	46.08	14.746	
8,170.0	8,053.4	8,139.0	8,053.6	25.1	24.2	-90.36		-823.3	129.8	680.0	633.3	46.68	14.566	
8,265.0	8,148.4	8,234.0	8,148.6	25.4	24.4	-90.36		-823.3	129.8	680.0	632.7	47.26	14.387	
8,360.0	8,243.4	8,329.0	8,243.6	25.7	24.7	-90.36		-823.3	129.8	680.0	632.2	47.85	14.211	
8,455.0	8,338.4	8,424.0	8,338.6	26.0	25.0	-90.36		-823.3	129.8	680.0	631.6	48.44	14.039	
8,550.0	8,433.4	8,519.0	8,433.6	26.2	25.3	-90.36		-823.3	129.8	680.0	631.0	49.03	13.869	
8,645.0	8,528.4	8,614.0	8,528.6	26.5	25.6	-90.36		-823.3	129.8	680.0	630.4	49.62	13.703	
8,740.0	8,623.4	8,709.0	8,623.6	26.8	25.9	-90.36		-823.3	129.8	680.0	629.8	50.22	13.541	
8,835.0	8,718.4	8,804.0	8,718.6	27.1	26.2	-90.36		-823.3	129.8	680.0	629.2	50.82	13.382	
8,930.0	8,813.4	8,899.0	8,813.6	27.3	26.5	-90.36		-823.3	129.8	680.0	628.6	51.42	13.226	
9,025.0	8,908.4	8,994.0	8,908.6	27.6	26.8	-90.36		-823.3	129.8	680.0	628.0	52.02	13.073	
9,120.0	9,003.4	9,089.0	9,003.6	27.9	27.1	-90.36		-823.3	129.8	680.0	627.4	52.62	12.923	
9,215.0	9,098.4	9,184.0	9,098.6	28.2	27.4	-90.36		-823.3	129.8	680.0	626.8	53.23	12.776	
9,310.0	9,193.4	9,279.0	9,193.6	28.5	27.7	-90.36		-823.3	129.8	680.0	626.2	53.84	12.631	
9,405.0	9,288.4	9,374.0	9,288.6	28.8	28.0	-90.36		-823.3	129.8	680.0	625.6	54.44	12.490	
9,500.0	9,383.4	9,469.0	9,383.6	29.1	28.3	-90.36		-823.3	129.8	680.0	625.0	55.06	12.351	
9,595.0	9,478.4	9,564.0	9,478.6	29.3	28.6	-90.36		-823.3	129.8	680.0	624.3	55.67	12.216	
9,690.0	9,573.4	9,659.0	9,573.6	29.6	28.9	-90.36		-823.3	129.8	680.0	623.7	56.28	12.082	
9,785.0	9,668.4	9,754.0	9,668.6	29.9	29.2	-90.36		-823.3	129.8	680.0	623.1	56.90	11.952	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	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 #603H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12239-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,880.0	9,763.4	9,849.0	9,763.6	30.2	29.5	-90.36	-823.3	129.8	680.0	622.5	57.51	11.823		
9,975.0	9,858.4	9,944.0	9,858.6	30.5	29.8	-90.36	-823.3	129.8	680.0	621.9	58.13	11.698		
10,070.0	9,953.4	10,039.0	9,953.6	30.8	30.2	-90.36	-823.3	129.8	680.0	621.3	58.75	11.574		
10,165.0	10,048.4	10,134.0	10,048.6	31.1	30.5	-90.36	-823.3	129.8	680.0	620.6	59.37	11.453		
10,260.0	10,143.4	10,229.0	10,143.6	31.4	30.8	-90.36	-823.3	129.8	680.0	620.0	60.00	11.334		
10,355.0	10,238.4	10,324.0	10,238.6	31.7	31.1	-90.36	-823.3	129.8	680.0	619.4	60.62	11.218		
10,450.0	10,333.4	10,419.0	10,333.6	32.0	31.4	-90.36	-823.3	129.8	680.0	618.8	61.24	11.103		
10,545.0	10,428.4	10,514.0	10,428.6	32.3	31.7	-90.36	-823.3	129.8	680.0	618.1	61.87	10.991		
10,640.0	10,523.4	10,609.0	10,523.6	32.6	32.0	-90.36	-823.3	129.8	680.0	617.5	62.50	10.881		
10,735.0	10,618.4	10,704.0	10,618.6	32.9	32.3	-90.36	-823.3	129.8	680.0	616.9	63.13	10.772		
10,830.0	10,713.4	10,799.0	10,713.6	33.2	32.6	-90.36	-823.3	129.8	680.0	616.3	63.76	10.666		
10,925.0	10,808.4	10,894.0	10,808.6	33.5	33.0	-90.36	-823.3	129.8	680.0	615.6	64.39	10.561		
11,020.0	10,903.4	10,989.0	10,903.6	33.8	33.3	-90.36	-823.3	129.8	680.0	615.0	65.02	10.459		
11,115.0	10,998.4	11,084.0	10,998.6	34.1	33.6	-90.36	-823.3	129.8	680.0	614.4	65.65	10.358		
11,210.0	11,093.4	11,179.0	11,093.6	34.4	33.9	-90.36	-823.3	129.8	680.0	613.7	66.28	10.259		
11,305.0	11,188.4	11,274.0	11,188.6	34.7	34.2	-90.36	-823.3	129.8	680.0	613.1	66.92	10.162		
11,400.0	11,283.4	11,369.0	11,283.6	35.1	34.5	-90.36	-823.3	129.8	680.0	612.5	67.55	10.066		
11,495.0	11,378.4	11,464.0	11,378.6	35.4	34.9	-90.36	-823.3	129.8	680.0	611.8	68.19	9.972		
11,590.0	11,473.4	11,559.0	11,473.6	35.7	35.2	-90.36	-823.3	129.8	680.0	611.2	68.83	9.880		
11,685.0	11,568.4	11,654.0	11,568.6	36.0	35.5	-90.36	-823.3	129.8	680.0	610.5	69.46	9.789		
11,780.0	11,663.4	11,749.0	11,663.6	36.3	35.8	-90.36	-823.3	129.8	680.0	609.9	70.10	9.700		
11,875.0	11,758.4	11,844.0	11,758.6	36.6	36.1	-90.36	-823.3	129.8	680.0	609.3	70.74	9.612		
11,970.0	11,853.4	11,939.0	11,853.6	36.9	36.4	-90.36	-823.3	129.8	680.0	608.6	71.38	9.526		
12,065.0	11,948.4	12,034.0	11,948.6	37.2	36.8	-90.36	-823.3	129.8	680.0	608.0	72.02	9.441		
12,160.0	12,043.4	12,129.0	12,043.6	37.5	37.1	-90.36	-823.3	129.8	680.0	607.3	72.67	9.358		
12,255.0	12,138.4	12,224.0	12,138.6	37.9	37.4	-90.36	-823.3	129.8	680.0	606.7	73.27	9.281		
12,303.4	12,186.8	12,272.4	12,187.0	38.0	37.4	-90.46	-824.5	129.8	680.0	606.6	73.46	9.257		
12,350.0	12,233.4	12,318.4	12,232.7	38.2	37.4	-90.92	-829.9	129.9	680.0	606.4	73.63	9.236		
12,445.0	12,328.4	12,407.1	12,318.3	38.5	37.5	-92.83	-852.5	130.0	680.7	606.7	73.98	9.201		
12,540.0	12,423.4	12,485.3	12,389.1	38.8	37.5	-95.58	-885.3	130.3	683.6	609.3	74.30	9.200		
12,635.0	12,518.0	12,554.1	12,446.3	38.9	37.5	81.38	-923.5	130.6	690.1	615.8	74.27	9.292		
12,730.0	12,609.6	12,619.8	12,495.3	39.0	37.6	77.95	-967.2	131.0	698.6	624.6	74.04	9.436		
12,825.0	12,694.6	12,683.3	12,536.6	39.0	37.6	74.86	-1,015.4	131.3	708.1	634.4	73.69	9.609		
12,920.0	12,769.5	12,745.3	12,570.3	39.1	37.7	72.20	-1,067.4	131.8	717.4	644.1	73.27	9.791		
13,015.0	12,831.5	12,806.2	12,596.6	39.1	37.7	70.05	-1,122.3	132.2	725.7	652.9	72.84	9.963		
13,110.0	12,878.0	12,866.3	12,615.5	39.2	37.8	68.46	-1,179.3	132.7	732.3	659.8	72.48	10.104		
13,205.0	12,907.3	12,925.0	12,626.9	39.3	37.8	67.48	-1,236.8	133.1	736.5	664.3	72.24	10.195		
13,300.0	12,918.1	12,985.3	12,631.2	39.3	37.8	67.10	-1,296.9	133.6	738.2	666.0	72.21	10.222		
13,395.0	12,915.9	13,070.0	12,629.1	39.3	37.9	67.12	-1,381.6	134.3	738.1	665.6	72.47	10.185		
13,490.0	12,913.1	13,165.0	12,626.5	39.4	38.0	67.13	-1,476.6	135.0	738.1	665.3	72.80	10.138		
13,585.0	12,910.3	13,260.0	12,623.9	39.5	38.0	67.14	-1,571.5	135.8	738.0	664.8	73.15	10.088		
13,680.0	12,907.6	13,355.0	12,621.3	39.6	38.2	67.15	-1,666.5	136.6	737.9	664.4	73.54	10.035		
13,775.0	12,904.8	13,450.0	12,618.6	39.7	38.3	67.16	-1,761.4	137.3	737.9	663.9	73.95	9.978		
13,870.0	12,902.0	13,545.0	12,616.0	39.9	38.4	67.17	-1,856.4	138.1	737.8	663.4	74.38	9.919		
13,965.0	12,899.3	13,640.0	12,613.4	40.1	38.6	67.18	-1,951.4	138.9	737.8	662.9	74.85	9.857		
14,060.0	12,896.5	13,735.0	12,610.8	40.3	38.8	67.19	-2,046.3	139.6	737.7	662.4	75.33	9.793		
14,155.0	12,893.7	13,830.0	12,608.2	40.5	39.0	67.20	-2,141.3	140.4	737.7	661.8	75.85	9.726		
14,250.0	12,891.0	13,925.0	12,605.5	40.8	39.3	67.21	-2,236.2	141.1	737.6	661.2	76.38	9.657		
14,345.0	12,888.2	14,020.0	12,602.9	41.0	39.5	67.22	-2,331.2	141.9	737.6	660.6	76.94	9.586		
14,440.0	12,885.4	14,115.0	12,600.3	41.3	39.8	67.23	-2,426.2	142.7	737.5	660.0	77.52	9.513		
14,535.0	12,882.7	14,210.0	12,597.7	41.6	40.1	67.24	-2,521.1	143.4	737.4	659.3	78.13	9.439		
14,630.0	12,879.9	14,305.0	12,595.0	41.9	40.4	67.25	-2,616.1	144.2	737.4	658.6	78.76	9.363		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	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 #603H - OWB - PWP0														Offset Site Error: 0.0 usft	
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12239-MWD+IFR1+MS														Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
14,725.0	12,877.1	14,400.0	12,592.4	42.2	40.7	67.26	-2,711.0	145.0	737.3	657.9	79.41	9.285			
14,820.0	12,874.4	14,495.0	12,589.8	42.5	41.0	67.27	-2,806.0	145.7	737.3	657.2	80.08	9.207			
14,915.0	12,871.6	14,590.0	12,587.2	42.9	41.4	67.28	-2,901.0	146.5	737.2	656.4	80.77	9.127			
15,010.0	12,868.8	14,685.0	12,584.6	43.2	41.7	67.29	-2,995.9	147.3	737.2	655.7	81.48	9.047			
15,105.0	12,866.1	14,780.0	12,581.9	43.5	42.1	67.30	-3,090.9	148.0	737.1	654.9	82.21	8.966			
15,200.0	12,863.3	14,875.0	12,579.3	43.9	42.4	67.31	-3,185.8	148.8	737.1	654.1	82.96	8.884			
15,295.0	12,860.5	14,970.0	12,576.7	44.3	42.8	67.32	-3,280.8	149.5	737.0	653.3	83.73	8.802			
15,390.0	12,857.8	15,065.0	12,574.1	44.6	43.2	67.33	-3,375.8	150.3	736.9	652.4	84.52	8.719			
15,485.0	12,855.0	15,160.0	12,571.4	45.0	43.6	67.34	-3,470.7	151.1	736.9	651.6	85.33	8.636			
15,580.0	12,852.2	15,255.0	12,568.8	45.4	44.0	67.35	-3,565.7	151.8	736.8	650.7	86.15	8.553			
15,675.0	12,849.5	15,350.0	12,566.2	45.8	44.4	67.36	-3,660.6	152.6	736.8	649.8	86.99	8.470			
15,770.0	12,846.7	15,445.0	12,563.6	46.2	44.8	67.37	-3,755.6	153.4	736.7	648.9	87.84	8.387			
15,865.0	12,843.9	15,540.0	12,561.0	46.7	45.2	67.38	-3,850.6	154.1	736.7	648.0	88.71	8.304			
15,960.0	12,841.2	15,635.0	12,558.3	47.1	45.7	67.39	-3,945.5	154.9	736.6	647.0	89.60	8.221			
16,055.0	12,838.4	15,730.0	12,555.7	47.5	46.1	67.40	-4,040.5	155.6	736.6	646.1	90.50	8.139			
16,150.0	12,835.6	15,825.0	12,553.1	47.9	46.6	67.41	-4,135.4	156.4	736.5	645.1	91.41	8.057			
16,245.0	12,832.9	15,920.0	12,550.5	48.4	47.0	67.42	-4,230.4	157.2	736.4	644.1	92.34	7.975			
16,340.0	12,830.1	16,015.0	12,547.8	48.8	47.5	67.43	-4,325.4	157.9	736.4	643.1	93.28	7.894			
16,435.0	12,827.3	16,110.0	12,545.2	49.3	48.0	67.44	-4,420.3	158.7	736.3	642.1	94.24	7.814			
16,530.0	12,824.6	16,205.0	12,542.6	49.8	48.5	67.45	-4,515.3	159.5	736.3	641.1	95.20	7.734			
16,625.0	12,821.8	16,300.0	12,540.0	50.2	48.9	67.47	-4,610.3	160.2	736.2	640.0	96.18	7.654			
16,720.0	12,819.1	16,395.0	12,537.3	50.7	49.4	67.48	-4,705.2	161.0	736.2	639.0	97.17	7.576			
16,815.0	12,816.3	16,490.0	12,534.7	51.2	49.9	67.49	-4,800.2	161.7	736.1	637.9	98.18	7.498			
16,910.0	12,813.5	16,585.0	12,532.1	51.7	50.4	67.50	-4,895.1	162.5	736.1	636.9	99.19	7.421			
17,005.0	12,810.8	16,680.0	12,529.5	52.2	50.9	67.51	-4,990.1	163.3	736.0	635.8	100.22	7.344			
17,100.0	12,808.0	16,775.0	12,526.9	52.7	51.4	67.52	-5,085.1	164.0	735.9	634.7	101.25	7.268			
17,195.0	12,805.2	16,870.0	12,524.2	53.2	52.0	67.53	-5,180.0	164.8	735.9	633.6	102.30	7.194			
17,290.0	12,802.5	16,965.0	12,521.6	53.7	52.5	67.54	-5,275.0	165.6	735.8	632.5	103.35	7.120			
17,385.0	12,799.7	17,060.0	12,519.0	54.2	53.0	67.55	-5,369.9	166.3	735.8	631.4	104.42	7.046			
17,480.0	12,796.9	17,155.0	12,516.4	54.7	53.5	67.56	-5,464.9	167.1	735.7	630.2	105.50	6.974			
17,575.0	12,794.2	17,250.0	12,513.7	55.3	54.1	67.57	-5,559.9	167.8	735.7	629.1	106.58	6.903			
17,670.0	12,791.4	17,345.0	12,511.1	55.8	54.6	67.58	-5,654.8	168.6	735.6	627.9	107.67	6.832			
17,765.0	12,788.6	17,440.0	12,508.5	56.3	55.2	67.59	-5,749.8	169.4	735.6	626.8	108.77	6.762			
17,860.0	12,785.9	17,535.0	12,505.9	56.9	55.7	67.60	-5,844.7	170.1	735.5	625.6	109.88	6.694			
17,955.0	12,783.1	17,630.0	12,503.3	57.4	56.3	67.61	-5,939.7	170.9	735.5	624.5	111.00	6.626			
18,050.0	12,780.3	17,725.0	12,500.6	58.0	56.8	67.62	-6,034.7	171.7	735.4	623.3	112.12	6.559			
18,145.0	12,777.6	17,820.0	12,498.0	58.5	57.4	67.63	-6,129.6	172.4	735.3	622.1	113.26	6.493			
18,240.0	12,774.8	17,915.0	12,495.4	59.1	57.9	67.64	-6,224.6	173.2	735.3	620.9	114.40	6.428			
18,335.0	12,772.0	18,010.0	12,492.8	59.6	58.5	67.65	-6,319.5	173.9	735.2	619.7	115.54	6.363			
18,430.0	12,769.3	18,105.0	12,490.1	60.2	59.1	67.66	-6,414.5	174.7	735.2	618.5	116.70	6.300			
18,525.0	12,766.5	18,200.0	12,487.5	60.7	59.7	67.67	-6,509.5	175.5	735.1	617.3	117.86	6.237			
18,620.0	12,763.7	18,295.0	12,484.9	61.3	60.2	67.68	-6,604.4	176.2	735.1	616.0	119.02	6.176			
18,715.0	12,761.0	18,390.0	12,482.3	61.9	60.8	67.69	-6,699.4	177.0	735.0	614.8	120.20	6.115			
18,810.0	12,758.2	18,485.0	12,479.7	62.5	61.4	67.70	-6,794.3	177.8	735.0	613.6	121.38	6.055			
18,905.0	12,755.4	18,580.0	12,477.0	63.0	62.0	67.71	-6,889.3	178.5	734.9	612.3	122.56	5.996			
19,000.0	12,752.7	18,675.0	12,474.4	63.6	62.6	67.72	-6,984.3	179.3	734.9	611.1	123.75	5.938			
19,095.0	12,749.9	18,770.0	12,471.8	64.2	63.2	67.73	-7,079.2	180.0	734.8	609.8	124.95	5.881			
19,190.0	12,747.1	18,865.0	12,469.2	64.8	63.8	67.74	-7,174.2	180.8	734.7	608.6	126.15	5.824			
19,285.0	12,744.4	18,960.0	12,466.5	65.4	64.4	67.75	-7,269.1	181.6	734.7	607.3	127.36	5.769			
19,380.0	12,741.6	19,055.0	12,463.9	66.0	65.0	67.77	-7,364.1	182.3	734.6	606.1	128.57	5.714			
19,475.0	12,738.8	19,150.0	12,461.3	66.6	65.6	67.78	-7,459.1	183.1	734.6	604.8	129.79	5.660			
19,570.0	12,736.1	19,245.0	12,458.7	67.2	66.2	67.79	-7,554.0	183.9	734.5	603.5	131.01	5.607			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	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 #603H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12239-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,665.0	12,733.3	19,340.0	12,456.1	67.8	66.8	67.80	-7,649.0	184.6	734.5	602.2	132.24	5.554		
19,760.0	12,730.5	19,435.0	12,453.4	68.4	67.4	67.81	-7,744.0	185.4	734.4	600.9	133.47	5.503		
19,855.0	12,727.8	19,530.0	12,450.8	69.0	68.0	67.82	-7,838.9	186.1	734.4	599.7	134.70	5.452		
19,950.0	12,725.0	19,625.0	12,448.2	69.6	68.6	67.83	-7,933.9	186.9	734.3	598.4	135.94	5.402		
20,045.0	12,722.2	19,720.0	12,445.6	70.2	69.2	67.84	-8,028.8	187.7	734.3	597.1	137.19	5.352		
20,140.0	12,719.5	19,815.0	12,442.9	70.8	69.9	67.85	-8,123.8	188.4	734.2	595.8	138.44	5.303		
20,235.0	12,716.7	19,910.0	12,440.3	71.4	70.5	67.86	-8,218.8	189.2	734.1	594.5	139.69	5.256		
20,330.0	12,714.0	20,005.0	12,437.7	72.0	71.1	67.87	-8,313.7	190.0	734.1	593.1	140.95	5.208		
20,425.0	12,711.2	20,100.0	12,435.1	72.6	71.7	67.88	-8,408.7	190.7	734.0	591.8	142.21	5.162		
20,520.0	12,708.4	20,195.0	12,432.5	73.3	72.4	67.89	-8,503.6	191.5	734.0	590.5	143.47	5.116		
20,603.1	12,706.0	20,278.1	12,430.2	73.8	72.9	67.90	-8,586.7	192.2	733.9	589.4	144.57	5.077		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - BANDANA FEDERAL COM #604H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12255-MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-54.98	51.5	-73.5	89.8				
95.0	95.0	94.2	94.2	3.0	3.0	-54.98	51.5	-73.5	89.7	83.7	6.00	14.957	
190.0	190.0	189.2	189.2	3.0	3.0	-54.98	51.5	-73.5	89.7	83.7	6.00	14.946	
285.0	285.0	284.2	284.2	3.0	3.0	-54.98	51.5	-73.5	89.7	83.7	6.01	14.922	
380.0	380.0	379.2	379.2	3.0	3.0	-54.98	51.5	-73.5	89.7	83.7	6.03	14.884	
475.0	475.0	474.2	474.2	3.0	3.0	-54.98	51.5	-73.5	89.7	83.7	6.05	14.834	
570.0	570.0	569.2	569.2	3.1	3.1	-54.98	51.5	-73.5	89.7	83.7	6.08	14.771	
665.0	665.0	664.2	664.2	3.1	3.1	-54.98	51.5	-73.5	89.7	83.6	6.11	14.696	
760.0	760.0	759.2	759.2	3.1	3.1	-54.98	51.5	-73.5	89.7	83.6	6.14	14.610	
855.0	855.0	854.2	854.2	3.2	3.2	-54.98	51.5	-73.5	89.7	83.6	6.18	14.513	
950.0	950.0	949.2	949.2	3.2	3.2	-54.98	51.5	-73.5	89.7	83.5	6.23	14.405	
1,045.0	1,045.0	1,044.2	1,044.2	3.3	3.3	-54.98	51.5	-73.5	89.7	83.5	6.28	14.288	
1,140.0	1,140.0	1,139.2	1,139.2	3.3	3.3	-54.98	51.5	-73.5	89.7	83.4	6.34	14.163	
1,235.0	1,235.0	1,234.2	1,234.2	3.4	3.4	-54.98	51.5	-73.5	89.7	83.3	6.40	14.030	
1,330.0	1,330.0	1,329.2	1,329.2	3.4	3.4	-54.98	51.5	-73.5	89.7	83.3	6.46	13.889	
1,425.0	1,425.0	1,424.2	1,424.2	3.5	3.5	-54.98	51.5	-73.5	89.7	83.2	6.53	13.742	
1,520.0	1,520.0	1,519.2	1,519.2	3.6	3.6	-54.98	51.5	-73.5	89.7	83.1	6.60	13.590	
1,615.0	1,615.0	1,614.2	1,614.2	3.6	3.6	-54.98	51.5	-73.5	89.7	83.1	6.68	13.433	
1,710.0	1,710.0	1,709.2	1,709.2	3.7	3.7	-54.98	51.5	-73.5	89.7	83.0	6.76	13.272	
1,805.0	1,805.0	1,804.2	1,804.2	3.8	3.8	-54.98	51.5	-73.5	89.7	82.9	6.85	13.107	
1,900.0	1,900.0	1,899.2	1,899.2	3.9	3.9	-54.98	51.5	-73.5	89.7	82.8	6.94	12.939	
1,995.0	1,995.0	1,994.2	1,994.2	3.9	3.9	-54.98	51.5	-73.5	89.7	82.7	7.03	12.770 CC, ES	
2,090.0	2,090.0	2,088.4	2,088.4	4.1	4.0	169.03	50.6	-74.6	91.5	84.3	7.27	12.597	
2,185.0	2,184.9	2,182.2	2,182.0	4.6	4.3	167.01	47.9	-78.0	97.4	89.4	7.98	12.200 SF	
2,280.0	2,279.6	2,275.3	2,274.9	5.2	4.9	164.10	43.3	-83.8	107.5	98.7	8.75	12.283	
2,375.0	2,373.9	2,367.5	2,366.5	5.8	5.5	160.82	36.8	-91.9	122.0	112.5	9.51	12.837	
2,470.0	2,467.9	2,458.4	2,456.4	6.3	6.0	157.59	28.7	-102.1	141.2	130.9	10.25	13.771	
2,565.0	2,561.3	2,547.7	2,544.4	6.8	6.5	154.63	18.9	-114.3	164.9	153.9	10.98	15.015	
2,660.0	2,654.3	2,636.7	2,631.5	7.2	6.9	152.14	7.7	-128.4	192.5	180.9	11.56	16.649	
2,755.0	2,747.2	2,727.1	2,720.0	7.4	7.1	150.23	-4.0	-143.1	220.7	208.8	11.97	18.440	
2,850.0	2,840.2	2,817.6	2,808.5	7.5	7.3	148.75	-15.8	-157.8	249.2	236.8	12.32	20.217	
2,945.0	2,933.1	2,908.1	2,896.9	7.7	7.5	147.57	-27.5	-172.5	277.7	265.0	12.71	21.850	
3,040.0	3,026.0	2,998.5	2,985.4	7.9	7.6	146.62	-39.2	-187.2	306.4	293.2	13.13	23.342	
3,135.0	3,118.9	3,089.0	3,073.9	8.1	7.8	145.82	-51.0	-201.9	335.1	321.5	13.57	24.699	
3,230.0	3,211.9	3,179.4	3,162.4	8.3	8.0	145.15	-62.7	-216.6	363.8	349.8	14.03	25.931	
3,325.0	3,304.8	3,269.9	3,250.9	8.6	8.2	144.58	-74.4	-231.3	392.6	378.1	14.52	27.048	
3,420.0	3,397.7	3,360.4	3,339.4	8.8	8.5	144.09	-86.2	-246.0	421.5	406.4	15.02	28.060	
3,515.0	3,490.6	3,450.8	3,427.8	9.0	8.7	143.66	-97.9	-260.7	450.3	434.8	15.54	28.977	
3,610.0	3,583.6	3,541.3	3,516.3	9.3	8.9	143.28	-109.6	-275.4	479.2	463.1	16.08	29.808	
3,705.0	3,676.5	3,631.7	3,604.8	9.6	9.2	142.95	-121.4	-290.1	508.1	491.5	16.63	30.561	
3,800.0	3,769.4	3,722.2	3,693.3	9.8	9.4	142.65	-133.1	-304.8	537.0	519.8	17.19	31.244	
3,895.0	3,862.3	3,812.6	3,781.8	10.1	9.7	142.38	-144.8	-319.5	565.9	548.1	17.76	31.865	
3,990.0	3,955.3	3,903.1	3,870.2	10.4	10.0	142.14	-156.6	-334.2	594.8	576.5	18.34	32.430	
4,085.0	4,048.2	3,993.6	3,958.7	10.7	10.2	141.92	-168.3	-348.9	623.8	604.8	18.93	32.945	
4,180.0	4,141.1	4,084.0	4,047.2	10.9	10.5	141.72	-180.0	-363.6	652.7	633.2	19.53	33.415	
4,275.0	4,234.0	4,174.5	4,135.7	11.2	10.8	141.53	-191.8	-378.3	681.7	661.5	20.14	33.845	
4,370.0	4,327.0	4,264.9	4,224.2	11.5	11.1	141.37	-203.5	-393.0	710.6	689.9	20.75	34.239	
4,465.0	4,419.9	4,355.4	4,312.6	11.8	11.4	141.21	-215.2	-407.7	739.6	718.2	21.37	34.600	
4,560.0	4,512.8	4,445.9	4,401.1	12.1	11.7	141.07	-227.0	-422.4	768.5	746.5	22.00	34.933	
4,655.0	4,605.7	4,536.3	4,489.6	12.4	12.0	140.93	-238.7	-437.1	797.5	774.9	22.63	35.239	
4,750.0	4,698.7	4,626.8	4,578.1	12.8	12.3	140.81	-250.4	-451.8	826.5	803.2	23.27	35.522	
4,845.0	4,791.6	4,717.2	4,666.6	13.1	12.6	140.69	-262.2	-466.5	855.5	831.6	23.91	35.783	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - BANDANA FEDERAL COM #604H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12255-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,940.0	4,884.5	4,807.7	4,755.1	13.4	12.9	140.59	-273.9	-481.2	884.4	859.9	24.55	36.025		
5,035.0	4,977.4	4,898.1	4,843.5	13.7	13.2	140.48	-285.6	-496.0	913.4	888.2	25.20	36.250		
5,130.0	5,070.4	4,988.6	4,932.0	14.0	13.5	140.39	-297.4	-510.7	942.4	916.6	25.85	36.458		
5,225.0	5,163.3	5,079.1	5,020.5	14.3	13.8	140.30	-309.1	-525.4	971.4	944.9	26.50	36.651		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - BANDANA FEDERAL COM #704H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12476-MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.1	0.1	3.0	3.0	-54.91	34.7	-49.4	60.4				
95.0	95.0	95.1	95.1	3.0	3.0	-54.91	34.7	-49.4	60.4	54.4	6.00	10.061	
190.0	190.0	190.1	190.1	3.0	3.0	-54.91	34.7	-49.4	60.4	54.4	6.00	10.054	
285.0	285.0	285.1	285.1	3.0	3.0	-54.91	34.7	-49.4	60.4	54.4	6.01	10.037	
380.0	380.0	380.1	380.1	3.0	3.0	-54.91	34.7	-49.4	60.4	54.3	6.03	10.012	
475.0	475.0	475.1	475.1	3.0	3.0	-54.91	34.7	-49.4	60.4	54.3	6.05	9.978	
570.0	570.0	570.1	570.1	3.1	3.1	-54.91	34.7	-49.4	60.4	54.3	6.08	9.936	
665.0	665.0	665.1	665.1	3.1	3.1	-54.91	34.7	-49.4	60.4	54.3	6.11	9.885	
760.0	760.0	760.1	760.1	3.1	3.1	-54.91	34.7	-49.4	60.4	54.2	6.14	9.827	
855.0	855.0	855.1	855.1	3.2	3.2	-54.91	34.7	-49.4	60.4	54.2	6.18	9.761	
950.0	950.0	950.1	950.1	3.2	3.2	-54.91	34.7	-49.4	60.4	54.1	6.23	9.689	
1,045.0	1,045.0	1,045.1	1,045.1	3.3	3.3	-54.91	34.7	-49.4	60.4	54.1	6.28	9.610	
1,140.0	1,140.0	1,140.1	1,140.1	3.3	3.3	-54.91	34.7	-49.4	60.4	54.0	6.34	9.526	
1,235.0	1,235.0	1,235.1	1,235.1	3.4	3.4	-54.91	34.7	-49.4	60.4	54.0	6.40	9.436	
1,330.0	1,330.0	1,330.1	1,330.1	3.4	3.4	-54.91	34.7	-49.4	60.4	53.9	6.46	9.341	
1,425.0	1,425.0	1,425.1	1,425.1	3.5	3.5	-54.91	34.7	-49.4	60.4	53.8	6.53	9.242	
1,520.0	1,520.0	1,520.1	1,520.1	3.6	3.6	-54.91	34.7	-49.4	60.4	53.8	6.61	9.140	
1,615.0	1,615.0	1,615.1	1,615.1	3.6	3.6	-54.91	34.7	-49.4	60.4	53.7	6.68	9.034	
1,710.0	1,710.0	1,710.1	1,710.1	3.7	3.7	-54.91	34.7	-49.4	60.4	53.6	6.76	8.925	
1,805.0	1,805.0	1,805.1	1,805.1	3.8	3.8	-54.91	34.7	-49.4	60.4	53.5	6.85	8.814	
1,900.0	1,900.0	1,900.1	1,900.1	3.9	3.9	-54.91	34.7	-49.4	60.4	53.4	6.94	8.702	
1,995.0	1,995.0	1,995.1	1,995.1	3.9	3.9	-54.91	34.7	-49.4	60.4	53.3	7.03	8.587 CC, ES	
2,090.0	2,090.0	2,090.3	2,090.3	4.1	4.1	168.68	33.4	-50.1	61.6	54.4	7.21	8.537	
2,185.0	2,184.9	2,185.3	2,185.2	4.6	4.6	165.47	29.4	-52.2	65.6	57.9	7.72	8.500 SF	
2,280.0	2,279.6	2,279.9	2,279.5	5.2	5.2	160.90	22.6	-55.7	72.9	64.7	8.23	8.856	
2,375.0	2,373.9	2,373.9	2,372.9	5.8	5.7	155.85	13.1	-60.7	83.7	74.9	8.75	9.567	
2,470.0	2,467.9	2,467.0	2,465.0	6.3	6.2	151.00		-67.0	98.3	89.0	9.30	10.564	
2,565.0	2,561.3	2,559.2	2,555.7	6.8	6.5	146.73	-13.5	-74.6	116.7	106.9	9.82	11.876	
2,660.0	2,654.3	2,651.6	2,646.4	7.2	6.7	143.80	-29.2	-82.7	137.9	127.7	10.23	13.481	
2,755.0	2,747.2	2,744.0	2,737.1	7.4	6.8	141.76	-44.8	-90.9	159.5	148.9	10.60	15.051	
2,850.0	2,840.2	2,836.4	2,827.7	7.5	7.0	140.21	-60.4	-99.0	181.2	170.3	11.00	16.481	
2,945.0	2,933.1	2,928.7	2,918.4	7.7	7.2	138.99	-76.0	-107.2	203.1	191.7	11.43	17.762	
3,040.0	3,026.0	3,021.1	3,009.1	7.9	7.4	138.01	-91.7	-115.3	225.0	213.1	11.90	18.906	
3,135.0	3,118.9	3,113.5	3,099.7	8.1	7.6	137.20	-107.3	-123.5	247.0	234.6	12.40	19.924	
3,230.0	3,211.9	3,205.8	3,190.4	8.3	7.8	136.52	-122.9	-131.7	269.0	256.1	12.91	20.830	
3,325.0	3,304.8	3,298.2	3,281.1	8.6	8.0	135.95	-138.6	-139.8	291.1	277.6	13.45	21.636	
3,420.0	3,397.7	3,390.6	3,371.8	8.8	8.2	135.45	-154.2	-148.0	313.1	299.1	14.01	22.354	
3,515.0	3,490.6	3,482.9	3,462.4	9.0	8.5	135.03	-169.8	-156.1	335.2	320.6	14.58	22.994	
3,610.0	3,583.6	3,575.3	3,553.1	9.3	8.7	134.65	-185.5	-164.3	357.3	342.1	15.16	23.566	
3,705.0	3,676.5	3,667.7	3,643.8	9.6	9.0	134.32	-201.1	-172.4	379.4	363.7	15.76	24.079	
3,800.0	3,769.4	3,760.0	3,734.4	9.8	9.3	134.03	-216.7	-180.6	401.5	385.2	16.36	24.539	
3,895.0	3,862.3	3,852.4	3,825.1	10.1	9.5	133.76	-232.3	-188.7	423.7	406.7	16.98	24.953	
3,990.0	3,955.3	3,944.8	3,915.8	10.4	9.8	133.52	-248.0	-196.9	445.8	428.2	17.60	25.327	
4,085.0	4,048.2	4,037.1	4,006.4	10.7	10.1	133.31	-263.6	-205.1	468.0	449.7	18.23	25.665	
4,180.0	4,141.1	4,129.5	4,097.1	10.9	10.4	133.11	-279.2	-213.2	490.1	471.3	18.87	25.972	
4,275.0	4,234.0	4,221.9	4,187.8	11.2	10.7	132.93	-294.9	-221.4	512.3	492.8	19.51	26.252	
4,370.0	4,327.0	4,314.2	4,278.4	11.5	11.0	132.77	-310.5	-229.5	534.4	514.3	20.16	26.506	
4,465.0	4,419.9	4,406.6	4,369.1	11.8	11.3	132.62	-326.1	-237.7	556.6	535.8	20.82	26.739	
4,560.0	4,512.8	4,499.0	4,459.8	12.1	11.6	132.48	-341.7	-245.8	578.8	557.3	21.47	26.952	
4,655.0	4,605.7	4,591.3	4,550.5	12.4	11.9	132.35	-357.4	-254.0	601.0	578.8	22.14	27.148	
4,750.0	4,698.7	4,683.7	4,641.1	12.8	12.2	132.23	-373.0	-262.1	623.1	600.3	22.80	27.329	
4,845.0	4,791.6	4,776.1	4,731.8	13.1	12.5	132.12	-388.6	-270.3	645.3	621.8	23.47	27.495	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - BANDANA FEDERAL COM #704H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12476-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,940.0	4,884.5	4,868.4	4,822.5	13.4	12.8	132.01	-404.3	-278.4	667.5	643.4	24.14	27.649		
5,035.0	4,977.4	4,960.8	4,913.1	13.7	13.1	131.91	-419.9	-286.6	689.7	664.9	24.82	27.791		
5,130.0	5,070.4	5,053.2	5,003.8	14.0	13.4	131.82	-435.5	-294.8	711.9	686.4	25.49	27.923		
5,225.0	5,163.3	5,145.5	5,094.5	14.3	13.7	131.74	-451.2	-302.9	734.0	707.9	26.17	28.046		
5,320.0	5,256.2	5,237.9	5,185.1	14.7	14.1	131.66	-466.8	-311.1	756.2	729.4	26.85	28.161		
5,415.0	5,349.1	5,330.3	5,275.8	15.0	14.4	131.58	-482.4	-319.2	778.4	750.9	27.54	28.267		
5,510.0	5,442.1	5,422.7	5,366.5	15.3	14.7	131.51	-498.0	-327.4	800.6	772.4	28.22	28.367		
5,605.0	5,535.0	5,515.0	5,457.1	15.6	15.0	131.44	-513.7	-335.5	822.8	793.9	28.91	28.460		
5,700.0	5,627.9	5,607.4	5,547.8	16.0	15.4	131.37	-529.3	-343.7	845.0	815.4	29.60	28.548		
5,795.0	5,720.8	5,699.8	5,638.5	16.3	15.7	131.31	-544.9	-351.8	867.2	836.9	30.29	28.630		
5,890.0	5,813.8	5,792.1	5,729.1	16.6	16.0	131.26	-560.6	-360.0	889.4	858.4	30.98	28.707		
5,985.0	5,906.7	5,884.5	5,819.8	17.0	16.4	131.20	-576.2	-368.2	911.6	879.9	31.67	28.779		
6,080.0	5,999.6	5,976.9	5,910.5	17.3	16.7	131.15	-591.8	-376.3	933.8	901.4	32.37	28.848		
6,175.0	6,092.5	6,069.2	6,001.2	17.7	17.0	131.10	-607.4	-384.5	956.0	922.9	33.06	28.912		
6,270.0	6,185.5	6,161.6	6,091.8	18.0	17.4	131.05	-623.1	-392.6	978.2	944.4	33.76	28.973		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #602H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12018-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,410.0	7,300.6	7,333.6	7,301.4	22.1	9.4	-28.20	-1,056.8	1,690.5	990.5	960.3	30.20	32.803	
7,505.0	7,393.5	7,426.7	7,394.5	22.5	9.5	-28.70	-1,057.3	1,689.2	972.0	941.3	30.64	31.719	
7,600.0	7,486.5	7,519.2	7,487.0	22.8	9.6	-29.08	-1,057.8	1,687.9	954.1	923.0	31.09	30.685	
7,695.0	7,580.1	7,612.6	7,580.4	23.2	9.7	-29.36	-1,058.2	1,686.6	938.8	907.2	31.58	29.728	
7,790.0	7,674.2	7,706.6	7,674.4	23.6	9.8	-29.59	-1,058.6	1,685.3	926.2	894.1	32.08	28.875	
7,885.0	7,768.7	7,787.4	7,755.2	24.0	9.9	-29.72	-1,059.0	1,684.7	917.0	884.4	32.58	28.149	
7,980.0	7,863.5	7,875.0	7,842.7	24.4	9.9	-29.84	-1,059.6	1,685.3	911.8	878.8	32.97	27.657	
8,075.0	7,958.4	7,970.9	7,938.7	24.8	9.9	-29.91	-1,060.2	1,686.1	909.6	876.3	33.31	27.304	
8,118.4	8,001.8	8,013.5	7,981.3	25.0	9.9	-29.92	-1,060.6	1,686.5	909.4	875.9	33.45	27.189	
8,170.0	8,053.4	8,064.9	8,032.7	25.1	9.9	105.42	-1,060.9	1,686.9	909.9	876.3	33.60	27.080	
8,265.0	8,148.4	8,159.2	8,126.9	25.4	9.9	105.45	-1,061.6	1,687.8	911.0	877.1	33.85	26.908	
8,360.0	8,243.4	8,255.9	8,223.6	25.7	9.8	105.46	-1,062.2	1,688.9	912.2	878.1	34.10	26.749	
8,455.0	8,338.4	8,349.4	8,317.1	26.0	9.8	105.49	-1,062.9	1,689.7	913.1	878.8	34.37	26.570	
8,550.0	8,433.4	8,443.5	8,411.2	26.2	9.9	105.53	-1,063.7	1,690.5	914.1	879.5	34.64	26.391	
8,645.0	8,528.4	8,539.8	8,507.5	26.5	9.9	105.57	-1,064.6	1,691.4	915.2	880.3	34.90	26.224	
8,740.0	8,623.4	8,634.1	8,601.8	26.8	9.9	105.60	-1,065.3	1,692.3	916.3	881.1	35.17	26.054	
8,835.0	8,718.4	8,727.9	8,695.6	27.1	9.9	105.63	-1,066.2	1,693.3	917.5	882.1	35.45	25.886	
8,930.0	8,813.4	8,825.7	8,793.4	27.3	9.9	105.66	-1,066.9	1,694.4	918.7	883.0	35.71	25.729	
9,025.0	8,908.4	8,917.5	8,885.1	27.6	9.9	105.67	-1,067.3	1,695.3	919.8	883.8	35.99	25.555	
9,120.0	9,003.4	9,014.1	8,981.7	27.9	9.9	105.65	-1,067.5	1,696.6	921.0	884.7	36.26	25.398	
9,215.0	9,098.4	9,110.3	9,077.9	28.2	9.8	105.63	-1,067.4	1,697.7	922.1	885.5	36.54	25.236	
9,310.0	9,193.4	9,204.0	9,171.6	28.5	9.8	105.57	-1,066.8	1,698.9	923.1	886.3	36.84	25.059	
9,405.0	9,288.4	9,302.3	9,269.9	28.8	9.8	105.47	-1,065.4	1,700.3	924.0	886.8	37.14	24.879	
9,500.0	9,383.4	9,397.0	9,364.6	29.1	9.8	105.34	-1,063.6	1,701.7	924.8	887.4	37.46	24.690	
9,595.0	9,478.4	9,493.1	9,460.7	29.3	9.8	105.32	-1,063.5	1,702.6	925.7	887.9	37.75	24.521	
9,690.0	9,573.4	9,587.8	9,555.3	29.6	9.8	105.29	-1,063.3	1,703.4	926.5	888.4	38.05	24.348	
9,785.0	9,668.4	9,686.7	9,654.3	29.9	9.8	105.22	-1,062.4	1,704.5	927.2	888.9	38.35	24.175	
9,880.0	9,763.4	9,801.2	9,768.7	30.2	9.9	105.35	-1,064.1	1,702.6	926.0	887.3	38.66	23.950	
9,975.0	9,858.4	9,895.8	9,863.3	30.5	10.0	105.49	-1,065.9	1,700.4	924.3	885.3	39.04	23.677	
10,070.0	9,953.4	9,990.7	9,958.1	30.8	10.1	105.64	-1,067.8	1,698.3	922.8	883.4	39.41	23.416	
10,165.0	10,048.4	10,083.8	10,051.2	31.1	10.2	105.84	-1,070.4	1,695.9	921.1	881.4	39.78	23.153	
10,260.0	10,143.4	10,176.0	10,143.3	31.4	10.3	106.07	-1,073.6	1,693.7	919.9	879.7	40.16	22.908	
10,355.0	10,238.4	10,272.8	10,240.0	31.7	10.4	106.31	-1,076.9	1,691.4	918.6	878.1	40.51	22.674	
10,450.0	10,333.4	10,366.7	10,333.8	32.0	10.5	106.51	-1,079.6	1,689.3	917.3	876.5	40.88	22.437	
10,545.0	10,428.4	10,460.2	10,427.3	32.3	10.6	106.67	-1,081.9	1,687.6	916.3	875.1	41.26	22.211	
10,640.0	10,523.4	10,578.8	10,545.9	32.6	10.7	106.86	-1,083.7	1,685.5	913.5	871.9	41.58	21.972	
10,735.0	10,618.4	10,664.4	10,631.4	32.9	10.8	106.81	-1,082.3	1,681.4	910.8	868.8	42.00	21.686	
10,830.0	10,713.4	10,758.0	10,725.0	33.2	10.9	106.72	-1,080.2	1,679.4	908.3	865.9	42.40	21.422	
10,925.0	10,808.4	10,847.3	10,814.2	33.5	10.9	106.60	-1,077.8	1,678.1	906.2	863.4	42.81	21.167	
11,020.0	10,903.4	10,935.4	10,902.2	33.8	10.9	106.43	-1,074.8	1,677.4	904.6	861.4	43.22	20.932	
11,115.0	10,998.4	11,027.1	10,993.9	34.1	11.0	106.32	-1,073.0	1,677.2	903.9	860.3	43.60	20.730	
11,210.0	11,093.4	11,119.5	11,086.3	34.4	11.0	106.22	-1,071.3	1,677.1	903.2	859.3	43.99	20.535	
11,305.0	11,188.4	11,211.7	11,178.5	34.7	11.0	106.13	-1,069.9	1,677.3	903.1	858.7	44.36	20.358	
11,317.3	11,200.7	11,222.9	11,189.7	34.8	11.0	106.12	-1,069.7	1,677.4	903.1	858.7	44.41	20.334	
11,400.0	11,283.4	11,293.0	11,259.7	35.1	11.0	106.08	-1,069.2	1,678.2	903.8	859.0	44.75	20.197	
11,495.0	11,378.4	11,385.0	11,351.8	35.4	11.0	106.03	-1,068.9	1,679.7	905.3	860.2	45.07	20.084	
11,590.0	11,473.4	11,471.8	11,438.6	35.7	11.0	105.98	-1,068.8	1,681.9	907.4	862.0	45.43	19.977	
11,685.0	11,568.4	11,565.3	11,532.0	36.0	11.0	105.93	-1,068.7	1,684.6	910.1	864.3	45.75	19.894	
11,780.0	11,663.4	11,657.8	11,624.5	36.3	11.0	105.89	-1,068.8	1,687.4	912.9	866.8	46.07	19.814	
11,875.0	11,758.4	11,753.4	11,720.1	36.6	11.0	105.86	-1,069.1	1,690.2	915.7	869.3	46.38	19.741	
11,970.0	11,853.4	11,844.2	11,810.8	36.9	11.0	105.85	-1,069.8	1,693.0	918.6	871.9	46.72	19.662	
12,065.0	11,948.4	11,918.8	11,885.3	37.2	11.0	105.88	-1,071.1	1,696.1	922.9	875.8	47.15	19.573	

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ConocoPhillips

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Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #602H - OWB - AWP													Offset Site Error: 3.0 usft
Survey Program: 100-Standard Keeper 104, 12018-MWD+IFR1+FDIR							Rule Assigned:						Offset Well Error: 3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,160.0	12,043.4	11,993.2	11,959.5	37.5	11.0	105.95	-1,073.6	1,700.7	929.4	881.8	47.60	19.526	
12,255.0	12,138.4	12,104.9	12,070.9	37.9	11.2	106.15	-1,078.7	1,706.9	935.6	887.8	47.86	19.549	
12,350.0	12,233.4	12,974.2	12,654.5	38.2	12.1	74.22	-600.4	1,583.2	912.5	859.7	52.77	17.291	
12,445.0	12,328.4	12,976.3	12,654.5	38.5	12.1	74.06	-598.3	1,582.6	871.5	819.2	52.35	16.649	
12,540.0	12,423.4	12,978.4	12,654.6	38.8	12.1	73.92	-596.3	1,582.0	839.4	787.6	51.82	16.197	
12,635.0	12,518.0	12,975.1	12,654.5	38.9	12.1	-107.25	-599.5	1,583.0	818.8	767.8	51.03	16.046 SF	
12,709.9	12,590.7	12,961.9	12,654.1	38.9	12.1	-106.91	-612.2	1,586.7	813.8	763.3	50.51	16.112 CC, ES	
12,730.0	12,609.6	12,956.8	12,654.0	39.0	12.0	-106.53	-617.0	1,588.2	814.1	763.7	50.40	16.154	
12,825.0	12,694.6	12,923.0	12,652.9	39.0	11.9	-103.11	-649.4	1,598.1	824.8	774.7	50.12	16.455	
12,920.0	12,769.5	12,876.1	12,649.5	39.1	11.8	-97.52	-694.1	1,611.8	847.9	797.7	50.22	16.882	
13,015.0	12,831.5	12,826.0	12,642.8	39.1	11.7	-90.84	-741.5	1,626.2	879.8	829.2	50.57	17.399	
13,110.0	12,878.0	12,784.7	12,630.7	39.2	11.6	-83.90	-779.5	1,637.0	917.6	866.6	51.02	17.985	
13,205.0	12,907.3	12,740.7	12,610.3	39.3	11.6	-76.53	-817.2	1,646.6	958.9	907.5	51.46	18.636	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #603H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 11951-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	4.7	4.7	3.0	4.2	-166.64	-740.3	-175.8	760.9				
95.0	95.0	91.5	91.5	3.0	4.2	-166.63	-740.8	-176.1	761.5	754.2	7.24	105.135	
190.0	190.0	189.8	189.8	3.0	4.2	-166.60	-741.5	-176.6	762.3	755.0	7.25	105.147	
285.0	285.0	283.5	283.5	3.0	4.3	-166.57	-742.1	-177.2	763.0	755.7	7.26	105.037	
380.0	380.0	375.8	375.8	3.0	4.3	-166.55	-743.1	-177.8	764.1	756.8	7.29	104.863	
475.0	475.0	470.4	470.4	3.0	4.3	-166.55	-744.2	-178.0	765.2	757.9	7.32	104.565	
570.0	570.0	559.7	559.7	3.1	4.3	-166.57	-745.6	-178.0	766.7	759.3	7.36	104.223	
665.0	665.0	652.1	652.0	3.1	4.3	-166.66	-748.0	-177.4	769.0	761.6	7.40	103.889	
760.0	760.0	763.7	763.6	3.1	4.3	-166.87	-750.2	-174.9	770.3	762.9	7.45	103.361	
855.0	855.0	876.6	876.5	3.2	4.3	-167.05	-749.5	-172.3	769.2	761.7	7.49	102.691	
950.0	950.0	976.5	976.3	3.2	4.3	-167.14	-747.3	-170.6	766.8	759.3	7.53	101.853	
1,045.0	1,045.0	1,070.9	1,070.7	3.3	4.3	-167.20	-744.9	-169.2	764.1	756.5	7.57	100.878	
1,140.0	1,140.0	1,157.6	1,157.3	3.3	4.3	-167.32	-743.5	-167.2	762.2	754.6	7.63	99.888	
1,235.0	1,235.0	1,289.6	1,289.1	3.4	4.4	-167.72	-739.2	-160.9	758.1	750.5	7.68	98.679	
1,330.0	1,330.0	1,384.6	1,383.8	3.4	4.4	-168.10	-734.2	-154.8	751.9	744.2	7.75	97.010	
1,425.0	1,425.0	1,477.3	1,476.1	3.5	4.4	-168.46	-729.5	-148.9	746.0	738.1	7.83	95.312	
1,520.0	1,520.0	1,571.4	1,570.0	3.6	4.4	-168.83	-724.8	-143.2	740.2	732.3	7.91	93.611	
1,615.0	1,615.0	1,667.0	1,665.3	3.6	4.4	-169.20	-720.0	-137.4	734.4	726.4	7.99	91.885	
1,710.0	1,710.0	1,759.0	1,757.0	3.7	4.5	-169.55	-715.4	-131.9	728.7	720.6	8.09	90.128	
1,805.0	1,805.0	1,853.1	1,850.9	3.8	4.5	-169.90	-711.0	-126.7	723.3	715.1	8.18	88.407	
1,900.0	1,900.0	1,948.1	1,945.6	3.9	4.5	-170.24	-706.5	-121.5	718.0	709.7	8.28	86.686	
1,995.0	1,995.0	2,047.2	2,044.4	3.9	4.6	-170.62	-701.5	-115.9	712.4	704.0	8.39	84.929	
2,090.0	2,090.0	2,142.2	2,139.0	4.1	4.6	53.84	-696.5	-109.9	705.7	697.1	8.57	82.375	
2,185.0	2,184.9	2,238.0	2,234.6	4.6	4.7	53.84	-691.4	-103.6	696.9	688.0	8.98	77.606	
2,280.0	2,279.6	2,332.5	2,328.6	5.2	4.7	54.04	-686.3	-96.9	686.4	676.9	9.41	72.920	
2,375.0	2,373.9	2,426.1	2,421.9	5.8	4.8	54.51	-681.3	-90.4	673.9	664.0	9.83	68.551	
2,470.0	2,467.9	2,520.1	2,515.5	6.3	4.8	55.22	-676.4	-83.7	659.8	649.5	10.23	64.483	
2,565.0	2,561.3	2,615.1	2,610.1	6.8	4.9	56.20	-671.2	-76.4	643.7	633.1	10.61	60.643	
2,660.0	2,654.3	2,707.9	2,702.5	7.2	4.9	57.21	-666.2	-69.1	626.3	615.4	10.91	57.382	
2,755.0	2,747.2	2,794.3	2,788.5	7.4	5.0	58.12	-661.6	-62.4	609.1	597.9	11.14	54.670	
2,850.0	2,840.2	2,882.0	2,875.9	7.5	5.0	59.11	-658.3	-56.2	593.6	582.2	11.35	52.308	
2,945.0	2,933.1	2,976.4	2,970.0	7.7	5.1	60.20	-654.9	-49.1	578.4	566.8	11.57	49.998	
3,040.0	3,026.0	3,070.9	3,064.0	7.9	5.2	61.25	-651.4	-41.1	563.0	551.2	11.81	47.694	
3,135.0	3,118.9	3,164.1	3,156.8	8.1	5.2	62.35	-647.9	-33.1	547.8	535.7	12.06	45.432	
3,230.0	3,211.9	3,255.3	3,247.8	8.3	5.3	63.65	-644.3	-27.0	533.1	520.8	12.32	43.278	
3,325.0	3,304.8	3,351.2	3,343.4	8.6	5.4	65.11	-640.2	-20.5	518.5	505.9	12.59	41.190	
3,420.0	3,397.7	3,445.9	3,437.8	8.8	5.4	66.61	-635.9	-13.7	503.8	490.9	12.87	39.144	
3,515.0	3,490.6	3,541.4	3,532.9	9.0	5.5	68.36	-630.6	-7.9	489.0	475.9	13.16	37.164	
3,610.0	3,583.6	3,634.7	3,625.9	9.3	5.6	70.22	-625.1	-2.5	474.4	460.9	13.46	35.248	
3,705.0	3,676.5	3,719.1	3,710.1	9.6	5.6	72.12	-620.5	1.1	461.4	447.6	13.78	33.487	
3,800.0	3,769.4	3,811.2	3,802.0	9.8	5.7	74.35	-615.8	4.4	449.6	435.5	14.09	31.900	
3,895.0	3,862.3	3,901.4	3,892.0	10.1	5.8	76.61	-611.5	7.8	438.8	424.4	14.42	30.424	
3,990.0	3,955.3	3,991.0	3,981.5	10.4	5.9	78.95	-607.8	10.8	429.4	414.6	14.76	29.088	
4,085.0	4,048.2	4,081.7	4,072.1	10.7	5.9	81.39	-604.7	13.7	421.4	406.3	15.11	27.896	
4,180.0	4,141.1	4,174.1	4,164.4	10.9	6.0	83.92	-601.8	16.7	414.6	399.1	15.46	26.815	
4,275.0	4,234.0	4,263.1	4,253.3	11.2	6.1	86.46	-599.2	19.2	408.9	393.1	15.82	25.842	
4,370.0	4,327.0	4,350.6	4,340.8	11.5	6.2	89.04	-597.3	20.7	405.4	389.2	16.19	25.036	
4,465.0	4,419.9	4,440.0	4,430.2	11.8	6.3	91.72	-596.0	21.6	403.9	387.3	16.57	24.380	
4,531.6	4,485.0	4,505.3	4,495.5	12.0	6.3	93.68	-595.2	22.0	403.7	386.9	16.83	23.985 CC	
4,560.0	4,512.8	4,533.3	4,523.5	12.1	6.3	94.53	-594.8	22.2	403.7	386.8	16.94	23.827 ES	
4,655.0	4,605.7	4,623.3	4,613.5	12.4	6.4	97.33	-593.4	22.1	404.9	387.6	17.31	23.396	
4,750.0	4,698.7	4,720.2	4,710.4	12.8	6.5	100.33	-591.8	22.0	407.1	389.4	17.67	23.043	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FEED PROJECT - GREEN EYESHAD FEDERAL COM #603H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 11951-MWD+IFR1+FDIR								Rule Assigned:				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,845.0	4,791.6	4,816.0	4,806.1	13.1	6.6	103.02	-591.0	23.8	409.2	391.2	18.07	22.653	
4,940.0	4,884.5	4,911.4	4,901.5	13.4	6.6	105.52	-590.9	26.8	411.5	393.1	18.47	22.284	
5,035.0	4,977.4	5,001.5	4,991.6	13.7	6.7	107.84	-590.8	29.5	414.7	395.8	18.87	21.975	
5,130.0	5,070.4	5,092.2	5,082.3	14.0	6.8	110.37	-589.6	30.7	419.7	400.4	19.27	21.774	
5,225.0	5,163.3	5,190.3	5,180.3	14.3	6.9	113.00	-588.5	32.3	425.1	405.4	19.69	21.587	
5,320.0	5,256.2	5,286.3	5,276.2	14.7	7.0	115.25	-588.8	35.8	430.2	410.1	20.12	21.385	
5,415.0	5,349.1	5,363.2	5,353.2	15.0	7.0	117.01	-589.4	37.3	437.5	417.0	20.48	21.366	
5,510.0	5,442.1	5,454.3	5,444.2	15.3	7.0	119.15	-589.8	36.9	447.4	426.6	20.79	21.520	
5,605.0	5,535.0	5,544.3	5,534.2	15.6	7.0	121.16	-590.4	36.1	458.6	437.5	21.10	21.730	
5,700.0	5,627.9	5,633.7	5,623.5	16.0	7.0	122.97	-591.9	34.8	470.9	449.5	21.43	21.978	
5,795.0	5,720.8	5,729.0	5,718.8	16.3	6.9	124.85	-593.2	33.1	484.0	462.3	21.76	22.242	
5,890.0	5,813.8	5,833.3	5,823.1	16.6	7.0	127.21	-590.7	32.9	495.6	473.4	22.17	22.355	
5,985.0	5,906.7	5,927.8	5,917.5	17.0	7.1	129.34	-587.5	33.6	507.0	484.4	22.57	22.466	
6,080.0	5,999.6	6,016.4	6,006.1	17.3	7.2	131.27	-584.3	34.0	519.2	496.3	22.94	22.634	
6,175.0	6,092.5	6,109.5	6,099.2	17.7	7.2	133.19	-581.1	34.1	532.5	509.1	23.32	22.829	
6,270.0	6,185.5	6,201.0	6,190.6	18.0	7.3	134.99	-577.9	34.3	546.2	522.5	23.70	23.044	
6,365.0	6,278.4	6,292.3	6,281.8	18.3	7.4	136.75	-574.3	34.3	560.6	536.6	24.07	23.288	
6,460.0	6,371.3	6,379.7	6,369.2	18.7	7.4	138.29	-571.4	33.7	576.1	551.7	24.42	23.589	
6,555.0	6,464.2	6,474.2	6,463.6	19.0	7.5	139.66	-570.5	32.9	592.1	567.3	24.78	23.894	
6,650.0	6,557.2	6,563.8	6,553.3	19.4	7.5	140.90	-569.5	31.9	608.6	583.5	25.12	24.224	
6,745.0	6,650.1	6,657.8	6,647.3	19.7	7.5	142.12	-568.6	30.6	625.5	600.0	25.48	24.550	
6,840.0	6,743.0	6,751.4	6,740.8	20.0	7.6	143.27	-567.6	29.6	642.5	616.6	25.84	24.864	
6,935.0	6,835.9	6,840.7	6,830.1	20.4	7.6	144.35	-566.3	28.5	659.9	633.7	26.19	25.194	
7,030.0	6,928.9	6,932.9	6,922.3	20.7	7.7	145.40	-565.1	27.2	677.8	651.3	26.56	25.523	
7,125.0	7,021.8	7,028.5	7,017.9	21.1	7.7	146.41	-563.9	25.9	695.7	668.8	26.94	25.829	
7,220.0	7,114.7	7,121.1	7,110.4	21.4	7.8	147.37	-562.6	24.7	713.8	686.5	27.31	26.139	
7,315.0	7,207.6	7,212.7	7,202.1	21.8	7.8	148.28	-561.1	23.6	732.1	704.4	27.69	26.443	
7,410.0	7,300.6	7,305.5	7,294.8	22.1	7.9	149.16	-559.6	22.5	750.6	722.5	28.07	26.743	
7,505.0	7,393.5	7,395.6	7,384.9	22.5	7.9	149.97	-558.2	21.4	769.2	740.8	28.44	27.045	
7,600.0	7,486.5	7,492.2	7,481.5	22.8	8.0	150.88	-556.9	20.3	787.2	758.4	28.84	27.294	
7,695.0	7,580.1	7,583.0	7,572.3	23.2	8.0	151.64	-555.6	19.3	802.9	773.7	29.26	27.445	
7,790.0	7,674.2	7,680.0	7,669.3	23.6	8.1	152.27	-554.5	18.3	815.7	786.0	29.71	27.460	
7,885.0	7,768.7	7,770.7	7,760.0	24.0	8.2	152.73	-553.3	17.2	826.1	795.9	30.13	27.419	
7,980.0	7,863.5	7,869.8	7,859.0	24.4	8.2	153.07	-552.2	16.0	833.6	803.0	30.57	27.267	
8,075.0	7,958.4	7,960.2	7,949.4	24.8	8.3	153.28	-551.0	15.1	838.1	807.1	30.97	27.059	
8,170.0	8,053.4	8,056.3	8,045.5	25.1	8.4	-71.33	-550.0	13.8	840.4	809.0	31.33	26.825	
8,265.0	8,148.4	8,148.2	8,137.4	25.4	8.4	-71.29	-549.0	12.5	841.9	810.3	31.63	26.616	
8,360.0	8,243.4	8,254.8	8,244.0	25.7	8.4	-71.30	-548.5	10.9	843.5	811.5	32.00	26.361	
8,455.0	8,338.4	8,350.9	8,340.1	26.0	8.4	-71.38	-549.5	9.8	844.2	811.8	32.33	26.113	
8,550.0	8,433.4	8,447.5	8,436.7	26.2	8.4	-71.46	-550.5	9.0	844.6	811.9	32.66	25.860	
8,645.0	8,528.4	8,541.2	8,530.4	26.5	8.4	-71.54	-551.5	8.4	844.9	811.9	32.99	25.615	
8,740.0	8,623.4	8,637.7	8,626.9	26.8	8.4	-71.63	-552.6	7.7	845.2	811.9	33.32	25.363	
8,835.0	8,718.4	8,730.2	8,719.3	27.1	8.4	-71.71	-553.7	7.0	845.5	811.8	33.65	25.128	
8,930.0	8,813.4	8,828.6	8,817.7	27.3	8.4	-71.81	-555.1	6.4	845.7	811.7	33.99	24.877	
9,025.0	8,908.4	8,919.2	8,908.3	27.6	8.4	-71.89	-556.0	5.8	846.0	811.7	34.32	24.653	
9,120.0	9,003.4	9,015.9	9,005.0	27.9	8.4	-71.97	-557.0	4.8	846.6	811.9	34.66	24.425	
9,215.0	9,098.4	9,110.8	9,099.9	28.2	8.4	-72.05	-558.0	4.1	846.9	811.9	35.00	24.198	
9,310.0	9,193.4	9,203.0	9,192.1	28.5	8.5	-72.11	-558.6	3.4	847.5	812.1	35.33	23.987	
9,405.0	9,288.4	9,297.2	9,286.3	28.8	8.5	-72.17	-559.4	2.5	848.1	812.4	35.67	23.776	
9,500.0	9,383.4	9,395.0	9,384.1	29.1	8.5	-72.24	-560.2	1.5	848.7	812.7	36.03	23.558	
9,595.0	9,478.4	9,489.4	9,478.5	29.3	8.5	-72.32	-561.1	0.6	849.4	813.0	36.37	23.354	
9,690.0	9,573.4	9,582.0	9,571.1	29.6	8.5	-72.40	-562.0	-0.3	849.9	813.2	36.71	23.154	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #603H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program:		100-Standard Keeper 104, 11951-MWD+IFR1+FDIR						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance			Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,785.0	9,668.4	9,677.3	9,666.4	29.9	8.5	-72.49	-563.0	-1.8	851.0	814.0	37.06	22.964		
9,880.0	9,763.4	9,787.3	9,776.3	30.2	8.6	-72.61	-564.5	-2.4	851.2	813.7	37.46	22.721		
9,975.0	9,858.4	9,878.8	9,867.9	30.5	8.6	-72.70	-566.2	-2.0	850.3	812.5	37.80	22.495		
10,068.2	9,951.5	9,967.6	9,956.6	30.8	8.6	-72.80	-567.7	-2.0	849.8	811.7	38.13	22.288		
10,070.0	9,953.4	9,969.0	9,958.0	30.8	8.6	-72.80	-567.7	-2.1	849.8	811.7	38.13	22.285		
10,165.0	10,048.4	10,052.9	10,041.9	31.1	8.7	-72.81	-567.6	-2.7	850.5	812.1	38.45	22.120		
10,260.0	10,143.4	10,146.6	10,135.5	31.4	8.7	-72.82	-567.3	-4.2	852.1	813.3	38.80	21.959		
10,355.0	10,238.4	10,238.0	10,226.9	31.7	8.8	-72.75	-565.9	-5.2	853.5	814.4	39.15	21.800		
10,450.0	10,333.4	10,332.0	10,320.9	32.0	8.9	-72.68	-564.4	-6.9	855.7	816.1	39.51	21.655		
10,545.0	10,428.4	10,429.2	10,418.1	32.3	8.9	-72.66	-563.4	-8.7	857.6	817.7	39.89	21.502		
10,640.0	10,523.4	10,529.1	10,518.0	32.6	9.0	-72.71	-563.6	-10.5	859.2	818.9	40.27	21.337		
10,735.0	10,618.4	10,620.6	10,609.4	32.9	9.0	-72.78	-564.3	-11.9	860.4	819.8	40.62	21.183		
10,830.0	10,713.4	10,717.3	10,706.2	33.2	9.1	-72.85	-564.9	-13.7	861.8	820.9	40.99	21.025		
10,925.0	10,808.4	10,811.0	10,799.8	33.5	9.1	-72.81	-564.1	-14.3	862.8	821.4	41.36	20.861		
11,020.0	10,903.4	10,903.6	10,892.5	33.8	9.2	-72.73	-562.4	-15.7	864.6	822.8	41.72	20.722		
11,115.0	10,998.4	11,008.1	10,996.9	34.1	9.3	-72.63	-560.6	-16.0	865.3	823.1	42.12	20.541		
11,210.0	11,093.4	11,109.5	11,098.3	34.4	9.4	-72.51	-558.7	-16.0	865.9	823.4	42.52	20.366		
11,300.3	11,183.7	11,200.0	11,188.8	34.7	9.5	-72.35	-556.6	-15.0	865.5	822.7	42.86	20.193		
11,305.0	11,188.4	11,204.1	11,192.9	34.7	9.5	-72.35	-556.5	-15.0	865.6	822.7	42.88	20.185		
11,400.0	11,283.4	11,296.4	11,285.2	35.1	9.6	-72.19	-554.2	-14.5	865.8	822.5	43.24	20.022		
11,495.0	11,378.4	11,396.3	11,385.0	35.4	9.7	-72.14	-553.4	-14.3	865.9	822.2	43.63	19.847		
11,590.0	11,473.4	11,493.2	11,481.9	35.7	9.8	-72.08	-552.6	-13.9	865.7	821.7	44.00	19.675		
11,685.0	11,568.4	11,585.5	11,574.3	36.0	9.8	-72.02	-551.8	-13.4	865.4	821.1	44.36	19.511		
11,699.1	11,582.5	11,598.8	11,587.6	36.0	9.8	-72.02	-551.8	-13.4	865.4	821.0	44.41	19.489		
11,780.0	11,663.4	11,678.6	11,667.3	36.3	9.9	-72.07	-552.6	-13.8	865.6	820.9	44.72	19.357		
11,875.0	11,758.4	11,773.1	11,761.8	36.6	9.9	-72.20	-554.4	-14.6	865.8	820.7	45.08	19.204		
11,970.0	11,853.4	11,857.2	11,845.9	36.9	9.9	-72.40	-557.0	-15.9	866.4	821.0	45.42	19.076		
12,065.0	11,948.4	11,933.0	11,921.6	37.2	9.9	-72.63	-559.8	-18.9	868.9	823.2	45.75	18.994		
12,160.0	12,043.4	12,019.2	12,007.6	37.5	10.0	-72.90	-562.5	-23.9	873.2	827.2	46.08	18.951		
12,255.0	12,138.4	12,134.4	12,122.6	37.9	10.1	-73.19	-565.5	-29.3	876.8	830.3	46.51	18.853		
12,350.0	12,233.4	12,247.9	12,235.7	38.2	10.1	-72.89	-560.8	-28.8	877.5	830.5	46.96	18.685		
12,445.0	12,328.4	12,308.4	12,293.1	38.5	10.2	-71.67	-542.7	-24.4	879.7	832.6	47.11	18.674	SF	
12,540.0	12,423.4	12,385.4	12,359.4	38.8	10.2	-69.16	-504.8	-15.5	885.8	838.4	47.40	18.688		
12,635.0	12,518.0	12,444.2	12,405.0	38.9	10.3	112.64	-468.8	-6.0	898.1	850.7	47.49	18.914		
12,730.0	12,609.6	12,489.6	12,438.0	39.0	10.3	112.18	-438.9	2.2	923.4	875.7	47.72	19.350		
12,825.0	12,694.6	12,516.0	12,456.8	39.0	10.3	109.00	-420.9	7.1	962.4	914.2	48.14	19.992		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #703H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12241-MWD+IFR1+FDIR								Rule Assigned:				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	5.8	5.8	3.0	4.2	-168.85	-740.0	-145.8	754.2				
95.0	95.0	106.4	106.4	3.0	4.2	-168.78	-739.4	-146.6	753.8	746.5	7.24	104.072	
190.0	190.0	203.9	203.9	3.0	4.2	-168.65	-738.1	-148.2	752.9	745.7	7.25	103.875	
264.9	264.9	270.4	270.4	3.0	4.2	-168.64	-737.7	-148.3	752.4	745.2	7.26	103.675	
285.0	285.0	289.9	289.9	3.0	4.2	-168.66	-737.8	-147.9	752.4	745.2	7.26	103.635	
380.0	380.0	379.9	379.8	3.0	4.2	-168.77	-738.4	-146.6	752.8	745.6	7.28	103.460	
475.0	475.0	472.5	472.4	3.0	4.3	-168.78	-739.4	-146.7	753.8	746.5	7.30	103.283	
570.0	570.0	566.6	566.6	3.1	4.3	-168.77	-740.5	-147.1	755.0	747.7	7.33	103.010	
665.0	665.0	660.4	660.4	3.1	4.3	-168.76	-741.6	-147.4	756.2	748.8	7.37	102.630	
760.0	760.0	756.6	756.5	3.1	4.3	-168.75	-742.8	-147.8	757.4	750.0	7.42	102.131	
855.0	855.0	852.1	852.0	3.2	4.3	-168.74	-743.8	-148.1	758.5	751.0	7.47	101.521	
950.0	950.0	947.2	947.1	3.2	4.3	-168.74	-744.9	-148.3	759.6	752.0	7.53	100.813	
1,045.0	1,045.0	1,041.8	1,041.7	3.3	4.3	-168.74	-746.0	-148.5	760.7	753.1	7.60	100.030	
1,140.0	1,140.0	1,133.5	1,133.4	3.3	4.4	-168.75	-747.3	-148.6	762.0	754.3	7.68	99.204	
1,235.0	1,235.0	1,226.8	1,226.7	3.4	4.4	-168.77	-749.0	-148.7	763.8	756.0	7.77	98.359	
1,330.0	1,330.0	1,332.7	1,332.5	3.4	4.4	-168.83	-750.7	-148.2	765.2	757.3	7.86	97.387	
1,425.0	1,425.0	1,430.1	1,429.9	3.5	4.5	-169.02	-751.3	-145.8	765.4	757.4	7.93	96.458	
1,520.0	1,520.0	1,524.1	1,523.9	3.6	4.5	-169.21	-752.0	-143.3	765.5	757.5	8.02	95.504	
1,615.0	1,615.0	1,616.5	1,616.3	3.6	4.5	-169.35	-752.5	-141.5	765.7	757.6	8.10	94.495	
1,710.0	1,710.0	1,711.5	1,711.3	3.7	4.5	-169.35	-753.0	-141.6	766.2	758.0	8.21	93.307	
1,805.0	1,805.0	1,805.2	1,805.0	3.8	4.6	-169.33	-753.5	-141.9	766.8	758.5	8.33	92.105	
1,900.0	1,900.0	1,900.9	1,900.7	3.9	4.6	-169.31	-754.1	-142.4	767.5	759.0	8.44	90.891	
1,995.0	1,995.0	1,996.8	1,996.6	3.9	4.7	-169.28	-754.5	-142.9	768.0	759.4	8.56	89.675	
2,090.0	2,090.0	2,091.4	2,091.2	4.1	4.7	55.52	-755.0	-143.3	767.7	759.0	8.75	87.745	
2,185.0	2,184.9	2,194.9	2,194.7	4.6	4.7	55.91	-754.9	-143.9	765.1	756.0	9.13	83.775	
2,280.0	2,279.6	2,292.1	2,291.8	5.2	4.7	56.52	-754.1	-144.3	760.2	750.7	9.50	80.014	
2,375.0	2,373.9	2,385.4	2,385.1	5.8	4.7	57.35	-753.3	-144.6	753.5	743.6	9.85	76.491	
2,470.0	2,467.9	2,479.5	2,479.2	6.3	4.7	58.42	-752.5	-144.9	745.2	735.1	10.18	73.208	
2,565.0	2,561.3	2,572.2	2,571.9	6.8	4.7	59.73	-751.6	-145.0	735.5	725.1	10.49	70.136	
2,660.0	2,654.3	2,666.2	2,665.9	7.2	4.7	61.16	-750.8	-145.2	725.0	714.3	10.72	67.647	
2,755.0	2,747.2	2,760.9	2,760.7	7.4	4.7	62.56	-749.8	-145.2	714.6	703.7	10.88	65.695	
2,850.0	2,840.2	2,856.0	2,855.7	7.5	4.7	63.99	-748.7	-144.7	704.3	693.3	11.03	63.875	
2,945.0	2,933.1	2,952.2	2,951.9	7.7	4.8	65.42	-747.5	-143.5	694.1	682.9	11.20	61.998	
3,040.0	3,026.0	3,047.7	3,047.4	7.9	4.8	66.82	-746.1	-141.5	684.0	672.6	11.39	60.075	
3,135.0	3,118.9	3,143.7	3,143.3	8.1	4.8	68.25	-744.4	-139.0	673.8	662.2	11.59	58.136	
3,230.0	3,211.9	3,230.2	3,229.7	8.3	4.8	69.56	-743.0	-136.7	664.1	652.3	11.81	56.210	
3,325.0	3,304.8	3,321.3	3,320.8	8.6	4.8	70.97	-742.3	-134.5	655.7	643.6	12.05	54.410	
3,420.0	3,397.7	3,417.7	3,417.2	8.8	4.9	72.49	-741.5	-131.9	647.5	635.2	12.30	52.661	
3,515.0	3,490.6	3,517.4	3,516.9	9.0	4.9	74.01	-740.4	-128.1	639.0	626.4	12.55	50.903	
3,610.0	3,583.6	3,600.0	3,599.4	9.3	4.9	75.28	-739.7	-124.7	631.0	618.2	12.83	49.179	
3,705.0	3,676.5	3,686.3	3,685.6	9.6	5.0	76.59	-740.8	-121.7	625.4	612.3	13.12	47.677	
3,800.0	3,769.4	3,775.0	3,774.2	9.8	5.0	77.95	-742.1	-118.7	620.4	607.0	13.41	46.263	
3,895.0	3,862.3	3,852.0	3,851.2	10.1	5.1	79.21	-744.4	-117.6	618.0	604.3	13.71	45.070	
3,990.0	3,955.3	3,942.6	3,941.7	10.4	5.1	80.61	-748.6	-116.4	617.3	603.3	14.02	44.029	
4,034.0	3,998.3	3,985.1	3,984.2	10.5	5.1	81.24	-750.7	-115.6	617.2	603.1	14.17	43.565	
4,085.0	4,048.2	4,035.4	4,034.3	10.7	5.2	81.99	-753.4	-114.7	617.3	603.0	14.34	43.053	
4,180.0	4,141.1	4,140.0	4,138.9	10.9	5.2	83.81	-756.1	-114.3	616.5	601.9	14.66	42.063	
4,275.0	4,234.0	4,231.7	4,230.6	11.2	5.3	85.57	-757.2	-115.0	616.0	601.0	14.98	41.125	
4,290.6	4,249.3	4,246.6	4,245.5	11.3	5.3	85.86	-757.3	-115.2	616.0	600.9	15.03	40.977	
4,370.0	4,327.0	4,323.1	4,322.0	11.5	5.3	87.36	-758.0	-116.2	616.2	600.9	15.31	40.262	
4,465.0	4,419.9	4,416.0	4,414.9	11.8	5.3	89.22	-758.6	-117.8	617.3	601.6	15.64	39.473	
4,560.0	4,512.8	4,525.1	4,524.0	12.1	5.4	91.46	-757.5	-118.8	617.3	601.3	15.97	38.653	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #703H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program:		100-Standard Keeper 104, 12241-MWD+IFR1+FDIR						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,655.0	4,605.7	4,622.6	4,621.4	12.4	5.4	93.55	-754.9	-119.4	616.9	600.6	16.30	37.840		
4,750.0	4,698.7	4,723.6	4,722.4	12.8	5.4	95.64	-752.2	-118.6	616.2	599.5	16.64	37.020		
4,845.0	4,791.6	4,820.9	4,819.6	13.1	5.4	97.42	-750.9	-115.4	615.2	598.2	17.00	36.191		
4,940.0	4,884.5	4,912.1	4,910.7	13.4	5.5	98.98	-750.6	-111.5	614.6	597.2	17.36	35.396		
4,946.4	4,890.7	4,917.7	4,916.3	13.4	5.5	99.08	-750.6	-111.3	614.6	597.2	17.39	35.346		
5,035.0	4,977.4	5,000.0	4,998.6	13.7	5.5	100.46	-750.9	-108.1	615.0	597.3	17.73	34.686		
5,130.0	5,070.4	5,084.2	5,082.8	14.0	5.6	101.83	-752.2	-105.7	617.4	599.3	18.10	34.109		
5,225.0	5,163.3	5,183.6	5,182.0	14.3	5.7	103.34	-754.8	-102.2	620.3	601.8	18.49	33.553		
5,320.0	5,256.2	5,278.9	5,277.2	14.7	5.7	104.62	-758.2	-97.4	622.8	603.9	18.87	32.994		
5,415.0	5,349.1	5,366.7	5,364.9	15.0	5.8	106.07	-759.0	-94.9	626.1	606.8	19.26	32.509		
5,510.0	5,442.1	5,457.8	5,456.0	15.3	5.8	107.66	-758.9	-93.3	630.4	610.7	19.65	32.077		
5,605.0	5,535.0	5,549.5	5,547.6	15.6	5.9	109.24	-758.9	-92.0	635.6	615.5	20.05	31.700		
5,700.0	5,627.9	5,641.4	5,639.6	16.0	6.0	110.80	-759.1	-90.9	641.5	621.0	20.45	31.362		
5,795.0	5,720.8	5,734.9	5,733.1	16.3	6.0	112.35	-759.4	-89.7	647.9	627.0	20.86	31.051		
5,890.0	5,813.8	5,830.7	5,828.9	16.6	6.1	113.93	-759.4	-88.6	654.7	633.4	21.29	30.759		
5,985.0	5,906.7	5,939.9	5,937.9	17.0	6.2	115.82	-757.2	-85.6	659.9	638.2	21.74	30.361		
6,080.0	5,999.6	6,042.8	6,040.8	17.3	6.2	117.61	-754.4	-82.0	665.0	642.8	22.18	29.980		
6,175.0	6,092.5	6,136.9	6,134.7	17.7	6.3	119.24	-751.2	-77.4	669.1	646.5	22.62	29.587		
6,270.0	6,185.5	6,231.5	6,229.2	18.0	6.3	120.86	-748.0	-72.8	673.8	650.7	23.06	29.225		
6,365.0	6,278.4	6,326.8	6,324.2	18.3	6.4	122.45	-744.8	-67.9	678.8	655.3	23.50	28.887		
6,460.0	6,371.3	6,425.4	6,422.6	18.7	6.5	123.92	-743.3	-61.6	683.5	659.5	23.96	28.532		
6,555.0	6,464.2	6,516.5	6,513.6	19.0	6.6	125.23	-742.3	-55.9	688.7	664.3	24.40	28.227		
6,650.0	6,557.2	6,624.1	6,620.9	19.4	6.6	126.72	-741.3	-48.4	693.8	668.9	24.88	27.885		
6,745.0	6,650.1	6,718.4	6,714.9	19.7	6.7	127.95	-741.0	-40.4	697.8	672.5	25.33	27.544		
6,840.0	6,743.0	6,812.5	6,808.6	20.0	6.8	129.15	-740.8	-32.3	702.1	676.3	25.79	27.223		
6,935.0	6,835.9	6,903.9	6,899.6	20.4	6.9	130.32	-740.4	-24.7	706.9	680.6	26.24	26.938		
7,030.0	6,928.9	6,998.8	6,994.2	20.7	7.0	131.53	-739.8	-16.8	712.0	685.3	26.70	26.663		
7,125.0	7,021.8	7,092.2	7,087.3	21.1	7.1	132.71	-739.3	-9.0	717.3	690.1	27.16	26.409		
7,220.0	7,114.7	7,189.3	7,184.1	21.4	7.1	133.91	-738.8	-0.7	722.8	695.2	27.63	26.160		
7,315.0	7,207.6	7,290.1	7,284.4	21.8	7.2	135.03	-739.5	8.9	727.8	699.6	28.11	25.888		
7,410.0	7,300.6	7,381.3	7,375.2	22.1	7.3	136.02	-740.5	17.7	732.8	704.2	28.57	25.652		
7,505.0	7,393.5	7,471.7	7,465.2	22.5	7.4	136.98	-741.3	26.0	738.3	709.3	29.02	25.445		
7,600.0	7,486.5	7,563.2	7,556.4	22.8	7.5	137.96	-742.2	34.1	744.1	714.6	29.47	25.247		
7,695.0	7,580.1	7,658.4	7,651.2	23.2	7.6	138.81	-743.2	42.4	748.0	718.0	29.95	24.972		
7,790.0	7,674.2	7,747.2	7,739.6	23.6	7.7	139.41	-744.3	49.9	749.8	719.4	30.42	24.650		
7,885.0	7,768.7	7,838.7	7,830.8	24.0	7.8	139.83	-745.7	56.9	750.0	719.1	30.88	24.290		
7,980.0	7,863.5	7,931.6	7,923.5	24.4	7.9	140.07	-747.1	63.8	748.1	716.8	31.33	23.875		
8,075.0	7,958.4	8,024.5	8,016.1	24.8	8.0	140.12	-748.7	70.3	744.1	712.3	31.78	23.415		
8,170.0	8,053.4	8,118.8	8,110.3	25.1	8.0	-84.62	-749.9	76.7	738.2	706.0	32.17	22.943		
8,265.0	8,148.4	8,212.3	8,203.5	25.4	8.1	-84.59	-750.2	83.2	731.6	699.0	32.54	22.480		
8,360.0	8,243.4	8,300.0	8,291.0	25.7	8.2	-84.57	-750.4	88.6	725.7	692.8	32.89	22.061		
8,455.0	8,338.4	8,392.1	8,383.0	26.0	8.3	-84.54	-750.6	93.6	720.5	687.3	33.26	21.662		
8,550.0	8,433.4	8,482.9	8,473.7	26.2	8.4	-84.56	-751.2	98.2	715.6	682.0	33.63	21.279		
8,645.0	8,528.4	8,573.2	8,563.9	26.5	8.5	-84.59	-752.0	102.4	711.2	677.2	34.00	20.919		
8,740.0	8,623.4	8,667.4	8,658.0	26.8	8.6	-84.63	-752.9	106.3	707.2	672.8	34.38	20.571		
8,835.0	8,718.4	8,759.1	8,749.6	27.1	8.7	-84.67	-753.7	109.7	703.6	668.9	34.75	20.246		
8,930.0	8,813.4	8,873.7	8,864.0	27.3	8.8	-84.64	-753.9	115.9	698.5	663.2	35.22	19.833		
9,025.0	8,908.4	8,960.4	8,950.6	27.6	8.9	-84.57	-753.6	120.9	693.0	657.4	35.58	19.478		
9,120.0	9,003.4	9,070.4	9,060.3	27.9	9.0	-84.42	-752.4	128.3	686.7	650.7	36.03	19.061		
9,215.0	9,098.4	9,151.3	9,141.1	28.2	9.1	-84.27	-751.1	133.7	680.5	644.1	36.37	18.711		
9,310.0	9,193.4	9,244.3	9,233.9	28.5	9.2	-84.06	-749.2	138.8	675.5	638.8	36.76	18.380		
9,405.0	9,288.4	9,346.2	9,335.6	28.8	9.3	-83.77	-746.4	145.2	669.8	632.7	37.18	18.018		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FEED PROJECT - GREEN EYESHAD FEDERAL COM #703H - OWB - AWP													Offset Site Error: 3.0 usft		
Survey Program: 100-Standard Keeper 104, 12241-MWD+IFR1+FDIR				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,500.0	9,383.4	9,433.8	9,422.9	29.1	9.4	-83.51	-744.0	150.3	664.6	627.0	37.54	17.703			
9,595.0	9,478.4	9,528.2	9,517.2	29.3	9.5	-83.27	-741.8	155.6	659.6	621.7	37.93	17.388			
9,690.0	9,573.4	9,626.4	9,615.2	29.6	9.6	-83.06	-740.0	160.9	654.7	616.4	38.35	17.075			
9,785.0	9,668.4	9,726.3	9,715.0	29.9	9.7	-82.91	-739.0	166.3	649.8	611.0	38.77	16.761			
9,880.0	9,763.4	9,831.4	9,819.7	30.2	9.8	-82.88	-739.7	174.7	642.1	602.9	39.21	16.375			
9,975.0	9,858.4	9,913.0	9,901.1	30.5	9.9	-82.90	-740.5	180.2	635.6	596.0	39.56	16.066			
10,070.0	9,953.4	10,000.6	9,988.6	30.8	10.0	-82.89	-741.0	184.7	630.7	590.7	39.94	15.791			
10,165.0	10,048.4	10,096.7	10,084.6	31.1	10.1	-82.79	-740.5	189.5	626.0	585.6	40.35	15.513			
10,260.0	10,143.4	10,200.6	10,188.3	31.4	10.2	-82.63	-739.5	195.5	620.7	579.9	40.79	15.214			
10,355.0	10,238.4	10,298.4	10,285.8	31.7	10.4	-82.47	-738.7	202.1	614.4	573.2	41.22	14.907			
10,450.0	10,333.4	10,397.9	10,385.1	32.0	10.5	-82.34	-738.3	209.6	607.3	565.7	41.65	14.583			
10,545.0	10,428.4	10,487.7	10,474.7	32.3	10.6	-82.29	-738.6	216.3	600.4	558.3	42.04	14.282			
10,640.0	10,523.4	10,575.0	10,561.8	32.6	10.7	-82.26	-739.0	221.5	594.6	552.2	42.42	14.018			
10,735.0	10,618.4	10,673.9	10,660.6	32.9	10.8	-82.10	-738.2	227.5	589.1	546.2	42.85	13.748			
10,830.0	10,713.4	10,765.0	10,751.4	33.2	10.9	-81.89	-736.8	233.2	583.4	540.1	43.24	13.491			
10,925.0	10,808.4	10,868.2	10,854.3	33.5	11.0	-81.58	-734.6	240.1	577.4	533.7	43.69	13.215			
11,020.0	10,903.4	10,958.6	10,944.5	33.8	11.1	-81.34	-733.2	246.4	571.0	526.9	44.08	12.953			
11,115.0	10,998.4	11,045.5	11,031.3	34.1	11.2	-81.16	-732.1	251.3	565.9	521.4	44.46	12.728			
11,210.0	11,093.4	11,148.7	11,134.3	34.4	11.3	-80.97	-731.2	257.3	560.6	515.7	44.91	12.482			
11,305.0	11,188.4	11,232.8	11,218.2	34.7	11.4	-80.85	-730.8	261.9	555.5	510.2	45.28	12.267			
11,400.0	11,283.4	11,340.8	11,326.1	35.1	11.5	-80.68	-730.1	268.2	550.1	504.3	45.76	12.022			
11,495.0	11,378.4	11,421.0	11,406.1	35.4	11.6	-80.51	-729.2	273.0	544.7	498.6	46.11	11.813			
11,590.0	11,473.4	11,508.2	11,493.3	35.7	11.7	-80.31	-727.8	275.7	542.0	495.5	46.49	11.659			
11,685.0	11,568.4	11,615.5	11,600.5	36.0	11.9	-80.06	-726.1	279.6	538.9	492.0	46.95	11.480			
11,780.0	11,663.4	11,722.5	11,707.3	36.3	12.0	-79.81	-724.9	286.3	533.3	485.9	47.42	11.246			
11,875.0	11,758.4	11,813.5	11,798.1	36.6	12.1	-79.67	-724.7	292.7	526.8	478.9	47.82	11.015			
11,970.0	11,853.4	11,909.7	11,894.0	36.9	12.2	-79.46	-724.1	299.7	520.1	471.8	48.25	10.780			
12,065.0	11,948.4	11,993.3	11,977.4	37.2	12.3	-79.31	-723.6	304.4	514.8	466.2	48.62	10.590			
12,160.0	12,043.4	12,095.3	12,079.3	37.5	12.4	-79.12	-722.9	310.0	509.8	460.8	49.07	10.390			
12,255.0	12,138.4	12,186.1	12,170.0	37.9	12.5	-79.00	-722.9	315.3	504.4	455.0	49.47	10.196			
12,350.0	12,233.4	12,277.5	12,261.2	38.2	12.6	-79.00	-723.7	319.6	499.9	450.0	49.87	10.025			
12,445.0	12,328.4	12,371.5	12,355.1	38.5	12.6	-79.02	-724.7	323.6	495.7	445.5	50.19	9.877			
12,540.0	12,423.4	12,561.0	12,538.7	38.8	12.7	-75.53	-701.1	353.0	484.4	433.1	51.29	9.444			
12,635.0	12,518.0	12,619.8	12,589.4	38.9	12.7	110.09	-677.2	370.4	468.4	417.5	50.93	9.197			
12,681.3	12,563.3	12,653.2	12,616.1	38.9	12.7	113.35	-659.8	380.5	466.3	415.5	50.71	9.194	CC, ES, SF		
12,730.0	12,609.6	12,678.8	12,635.4	39.0	12.8	115.69	-645.1	388.6	469.0	418.6	50.48	9.291			
12,825.0	12,694.6	12,703.0	12,653.3	39.0	12.8	115.82	-630.7	396.4	491.8	441.4	50.38	9.761			
12,920.0	12,769.5	12,720.0	12,665.7	39.1	12.8	112.26	-620.4	401.7	536.8	486.1	50.69	10.588			
13,015.0	12,831.5	12,720.8	12,666.3	39.1	12.8	102.95	-619.9	401.9	598.7	547.6	51.14	11.708			
13,110.0	12,878.0	12,703.0	12,653.3	39.2	12.8	87.36	-630.7	396.4	671.1	619.5	51.56	13.016			
13,205.0	12,907.3	12,693.6	12,646.4	39.3	12.8	71.28	-636.3	393.3	747.6	695.9	51.65	14.473			
13,300.0	12,918.1	12,656.0	12,618.3	39.3	12.7	55.33	-658.2	381.3	823.4	771.6	51.78	15.902			
13,395.0	12,915.9	12,656.0	12,618.3	39.3	12.7	52.81	-658.2	381.3	897.8	846.4	51.46	17.449			
13,490.0	12,913.1	12,609.0	12,580.3	39.4	12.7	50.69	-682.1	367.4	974.6	923.0	51.57	18.899			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #704H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12139-MWD+IFR1+FDIR								Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	7.8	7.8	3.0	4.2	-164.47	-740.4	-205.8	768.5					
95.0	95.0	120.7	120.7	3.0	4.2	-164.46	-738.7	-205.5	767.0	759.8	7.24	105.923		
190.0	190.0	237.4	237.3	3.0	4.2	-164.41	-734.6	-205.0	763.8	756.5	7.24	105.455		
285.0	285.0	309.0	308.8	3.0	4.3	-164.29	-731.0	-205.6	759.6	752.3	7.27	104.553		
318.4	318.4	325.0	324.8	3.0	4.3	-164.27	-730.7	-205.8	759.2	751.9	7.27	104.392		
380.0	380.0	364.8	364.6	3.0	4.3	-164.24	-731.2	-206.3	760.1	752.8	7.28	104.427		
475.0	475.0	468.2	468.0	3.0	4.3	-164.28	-734.6	-206.8	763.3	756.0	7.30	104.581		
570.0	570.0	585.9	585.6	3.1	4.3	-164.49	-735.2	-204.1	763.1	755.8	7.33	104.116		
665.0	665.0	689.8	689.5	3.1	4.3	-164.49	-733.5	-203.5	761.5	754.1	7.37	103.357		
760.0	760.0	780.7	780.4	3.1	4.3	-164.38	-731.1	-204.4	759.2	751.8	7.41	102.421		
841.7	841.7	848.6	848.2	3.2	4.3	-164.29	-730.3	-205.5	758.6	751.2	7.45	101.792 CC		
855.0	855.0	861.0	860.6	3.2	4.3	-164.27	-730.2	-205.7	758.7	751.2	7.46	101.707 ES		
950.0	950.0	948.8	948.4	3.2	4.3	-164.13	-730.1	-207.6	759.1	751.6	7.51	101.115		
1,045.0	1,045.0	1,039.6	1,039.2	3.3	4.3	-163.94	-730.5	-210.3	760.3	752.7	7.56	100.596		
1,140.0	1,140.0	1,125.0	1,124.5	3.3	4.3	-163.80	-731.7	-212.5	762.2	754.6	7.61	100.155		
1,235.0	1,235.0	1,200.0	1,199.4	3.4	4.3	-163.63	-733.7	-215.6	765.9	758.2	7.66	99.957		
1,330.0	1,330.0	1,288.2	1,287.3	3.4	4.4	-163.22	-737.5	-222.4	771.8	764.1	7.72	99.936		
1,425.0	1,425.0	1,393.0	1,391.8	3.5	4.4	-162.83	-741.6	-229.2	777.2	769.4	7.80	99.629		
1,520.0	1,520.0	1,489.7	1,488.2	3.6	4.4	-162.54	-745.0	-234.3	781.9	774.1	7.88	99.246		
1,615.0	1,615.0	1,585.4	1,583.8	3.6	4.4	-162.28	-748.3	-239.2	786.5	778.6	7.96	98.788		
1,710.0	1,710.0	1,685.8	1,684.0	3.7	4.5	-161.97	-751.4	-244.5	790.9	782.8	8.05	98.219		
1,805.0	1,805.0	1,780.0	1,778.0	3.8	4.5	-161.60	-753.5	-250.6	794.7	786.6	8.14	97.598		
1,900.0	1,900.0	1,875.0	1,872.8	3.9	4.5	-161.23	-755.5	-256.7	798.7	790.4	8.24	96.942		
1,995.0	1,995.0	1,958.0	1,955.5	3.9	4.6	-160.90	-757.7	-262.4	803.2	794.9	8.33	96.414		
2,090.0	2,090.0	2,044.5	2,041.7	4.1	4.6	64.14	-761.4	-269.2	808.8	800.3	8.47	95.486		
2,185.0	2,184.9	2,138.9	2,135.7	4.6	4.7	64.75	-765.3	-276.7	813.2	804.4	8.78	92.649		
2,280.0	2,279.6	2,234.2	2,230.7	5.2	4.7	65.58	-769.4	-284.3	816.4	807.3	9.09	89.806		
2,375.0	2,373.9	2,335.2	2,331.2	5.8	4.8	66.71	-773.5	-292.3	818.4	809.0	9.40	87.060		
2,470.0	2,467.9	2,435.0	2,430.7	6.3	4.8	68.08	-776.0	-300.1	818.2	808.5	9.69	84.404		
2,565.0	2,561.3	2,527.6	2,523.0	6.8	4.9	69.58	-778.3	-307.3	817.2	807.2	9.97	81.980		
2,660.0	2,654.3	2,620.6	2,615.7	7.2	4.9	71.22	-780.6	-314.4	815.9	805.7	10.20	80.023		
2,755.0	2,747.2	2,712.0	2,706.8	7.4	5.0	72.84	-782.8	-321.3	815.2	804.8	10.39	78.465		
2,829.1	2,819.7	2,785.2	2,779.8	7.5	5.0	74.12	-784.7	-326.6	815.0	804.5	10.54	77.305		
2,850.0	2,840.2	2,805.2	2,799.7	7.5	5.0	74.47	-785.2	-328.0	815.1	804.5	10.59	76.982		
2,945.0	2,933.1	2,898.7	2,893.0	7.7	5.1	76.10	-787.5	-334.5	815.5	804.7	10.81	75.440		
3,040.0	3,026.0	2,985.4	2,979.4	7.9	5.2	77.61	-789.6	-340.7	816.6	805.6	11.05	73.904		
3,135.0	3,118.9	3,074.7	3,068.4	8.1	5.2	79.20	-792.0	-348.0	819.3	807.9	11.31	72.446		
3,230.0	3,211.9	3,167.8	3,161.2	8.3	5.3	80.86	-794.5	-355.6	822.4	810.8	11.59	70.975		
3,325.0	3,304.8	3,254.8	3,247.8	8.6	5.4	82.37	-797.0	-362.4	826.4	814.6	11.88	69.560		
3,420.0	3,397.7	3,340.2	3,332.8	8.8	5.4	83.85	-800.1	-369.8	832.1	819.9	12.19	68.265		
3,515.0	3,490.6	3,432.3	3,424.5	9.0	5.5	85.43	-803.5	-378.1	838.6	826.1	12.52	67.003		
3,610.0	3,583.6	3,534.4	3,526.2	9.3	5.6	87.13	-806.9	-386.4	845.0	832.2	12.87	65.679		
3,705.0	3,676.5	3,635.6	3,627.1	9.6	5.7	88.77	-809.8	-393.7	851.2	837.9	13.23	64.342		
3,800.0	3,769.4	3,726.7	3,717.9	9.8	5.8	90.22	-812.1	-399.8	857.4	843.8	13.59	63.076		
3,895.0	3,862.3	3,806.4	3,797.5	10.1	5.8	91.46	-814.8	-405.6	865.0	851.1	13.95	61.988		
3,990.0	3,955.3	3,902.5	3,893.2	10.4	5.9	92.92	-818.4	-412.7	873.6	859.3	14.34	60.902		
4,085.0	4,048.2	3,993.4	3,983.8	10.7	6.0	94.26	-821.8	-419.3	882.6	867.9	14.74	59.894		
4,180.0	4,141.1	4,070.0	4,060.1	10.9	6.1	95.38	-824.9	-425.3	892.7	877.6	15.11	59.074		
4,275.0	4,234.0	4,158.9	4,148.5	11.2	6.1	96.65	-829.2	-433.3	904.6	889.1	15.51	58.321		
4,370.0	4,327.0	4,249.1	4,238.3	11.5	6.2	97.92	-833.6	-441.5	917.1	901.2	15.92	57.619		
4,465.0	4,419.9	4,339.7	4,328.3	11.8	6.3	99.13	-838.4	-449.7	930.2	913.9	16.33	56.968		
4,560.0	4,512.8	4,432.7	4,420.8	12.1	6.4	100.29	-844.2	-457.6	943.8	927.1	16.75	56.350		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #704H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12139-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,655.0	4,605.7	4,528.0	4,515.6	12.4	6.5	101.39	-850.8	-465.1	957.7	940.5	17.18	55.751	
4,750.0	4,698.7	4,641.6	4,628.6	12.8	6.6	102.62	-858.7	-472.9	971.1	953.5	17.64	55.037	
4,845.0	4,791.6	4,755.1	4,741.8	13.1	6.7	103.82	-864.9	-478.0	982.1	964.0	18.11	54.226	
4,940.0	4,884.5	4,861.2	4,847.8	13.4	6.8	104.97	-868.8	-481.6	991.7	973.2	18.57	53.411 SF	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: PITCHBLEND 24-25 FEDERAL PROJECT - PITCHBLEND 24-25 FED 605H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12092-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
20,045.0	12,722.2	12,300.0	12,248.4	70.2	13.9	31.21	-8,890.6	630.3	989.4	926.0	63.35	15.617		
20,140.0	12,719.5	12,311.9	12,258.9	70.8	13.9	31.89	-8,896.1	630.3	906.8	842.0	64.79	13.996		
20,235.0	12,716.7	12,325.0	12,270.4	71.4	13.9	32.67	-8,902.5	630.4	826.1	759.5	66.51	12.420		
20,330.0	12,714.0	12,350.0	12,291.7	72.0	13.9	34.22	-8,915.6	630.5	747.7	679.5	68.18	10.965		
20,425.0	12,711.2	12,367.4	12,306.2	72.6	13.9	35.34	-8,925.3	630.6	672.1	601.5	70.57	9.523		
20,520.0	12,708.4	12,391.8	12,325.7	73.3	13.9	36.97	-8,939.8	630.7	600.1	526.9	73.19	8.199		
20,603.1	12,706.0	12,416.3	12,344.7	73.8	13.9	38.68	-8,955.4	630.8	540.7	464.9	75.78	7.135 CC, ES, SF		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: PITCHBLEND 24-25 FEDERAL PROJECT - PITCHBLEND 24-25 FED 704H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12413-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,855.0	12,727.8	12,539.6	12,443.2	69.0	15.2	-57.53	-8,733.7	1,213.0	987.8	926.7	61.09	16.168		
19,950.0	12,725.0	12,550.0	12,453.2	69.6	15.2	-58.76	-8,736.5	1,213.1	901.8	839.6	62.12	14.517		
20,045.0	12,722.2	12,550.0	12,453.2	70.2	15.2	-58.76	-8,736.5	1,213.1	817.5	753.9	63.62	12.851		
20,140.0	12,719.5	12,567.7	12,470.1	70.8	15.2	-60.91	-8,741.8	1,213.1	735.5	670.3	65.19	11.283		
20,235.0	12,716.7	12,575.0	12,477.0	71.4	15.2	-61.82	-8,744.2	1,213.1	656.5	589.0	67.48	9.729		
20,330.0	12,714.0	12,600.0	12,500.4	72.0	15.2	-65.00	-8,753.1	1,213.2	581.6	511.7	69.91	8.319		
20,425.0	12,711.2	12,613.5	12,512.8	72.6	15.2	-66.77	-8,758.4	1,213.2	512.3	438.9	73.41	6.979		
20,520.0	12,708.4	12,635.8	12,532.9	73.3	15.2	-69.73	-8,768.0	1,213.3	450.9	373.5	77.33	5.830		
20,603.1	12,706.0	12,659.8	12,554.1	73.8	15.2	-72.99	-8,779.3	1,213.4	405.8	324.9	80.94	5.014	CC, ES, SF	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	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 705H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12054-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
20,235.0	12,716.7	12,500.0	12,490.2	71.4	15.8	77.48	-8,750.6	53.6	992.3	914.3	77.98	12.725		
20,330.0	12,714.0	12,525.0	12,513.6	72.0	15.8	79.06	-8,759.5	53.7	944.7	865.1	79.56	11.874		
20,425.0	12,711.2	12,539.2	12,526.6	72.6	15.8	79.95	-8,765.1	53.8	904.0	822.8	81.12	11.143		
20,520.0	12,708.4	12,561.7	12,546.9	73.3	15.8	81.35	-8,774.8	53.8	870.9	788.5	82.43	10.566		
20,603.1	12,706.0	12,585.9	12,568.3	73.8	15.8	82.84	-8,786.2	53.9	848.7	765.4	83.32	10.186 CC, ES, SF		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: PITCHBLEND 24-25 FEDERAL PROJECT - PITCHBLEND 24-25 FED 803H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12361-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,855.0	12,727.8	12,625.0	12,580.7	69.0	14.4	69.14	-8,723.7	629.6	921.4	861.6	59.81	15.406		
19,950.0	12,725.0	12,625.0	12,580.7	69.6	14.4	69.14	-8,723.7	629.6	830.7	770.1	60.65	13.696		
20,045.0	12,722.2	12,636.3	12,592.0	70.2	14.4	71.49	-8,725.2	629.6	740.9	679.2	61.69	12.009		
20,140.0	12,719.5	12,641.2	12,596.8	70.8	14.4	72.52	-8,725.9	629.6	652.6	589.5	63.11	10.341		
20,235.0	12,716.7	12,650.0	12,605.4	71.4	14.4	74.40	-8,727.4	629.6	566.3	501.3	65.00	8.713		
20,330.0	12,714.0	12,650.0	12,605.4	72.0	14.4	74.40	-8,727.4	629.6	483.2	415.5	67.74	7.133		
20,425.0	12,711.2	12,662.8	12,618.0	72.6	14.4	77.19	-8,729.7	629.6	405.0	333.6	71.40	5.672		
20,520.0	12,708.4	12,675.0	12,629.9	73.3	14.4	79.90	-8,732.3	629.7	335.2	258.8	76.35	4.389		
20,603.1	12,706.0	12,686.1	12,640.7	73.8	14.4	82.38	-8,735.0	629.7	285.5	204.1	81.35	3.509	CC, ES, SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to *KB=30' @ 3425.4usft (TBD)

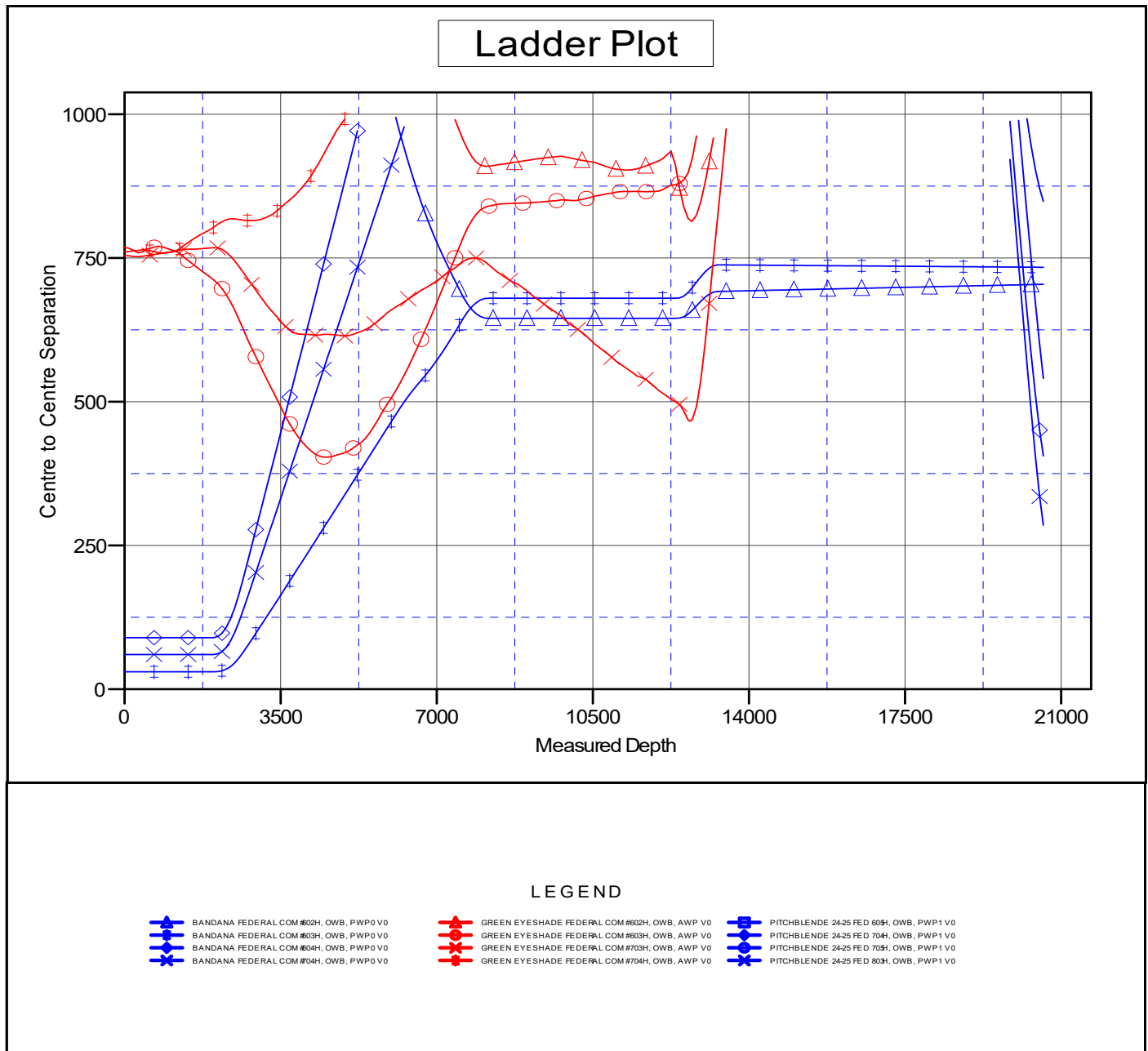
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: BANDANA FEDERAL COM #703H

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

Grid Convergence at Surface is: 0.48°



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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to *KB=30' @ 3425.4usft (TBD)

Offset Depths are relative to Offset Datum

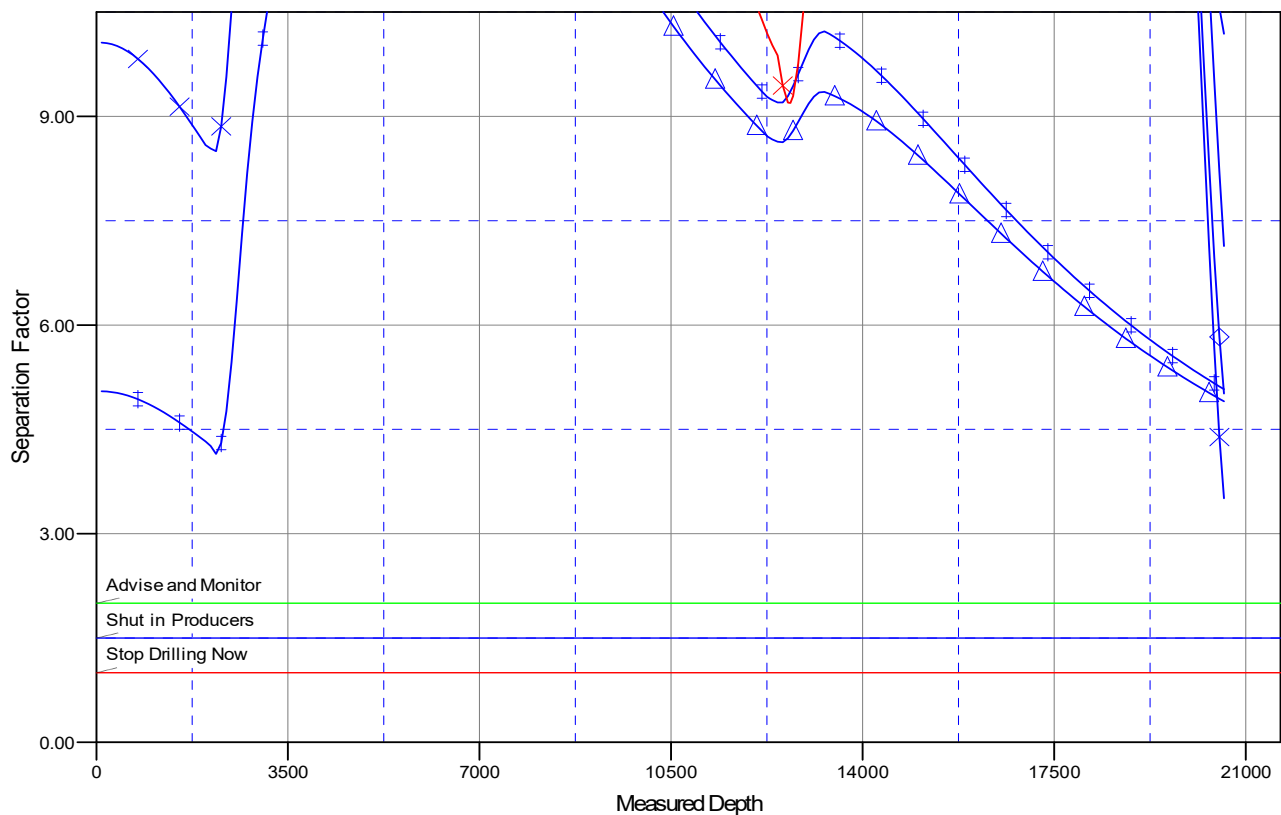
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: BANDANA FEDERAL COM #703H

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

Grid Convergence at Surface is: 0.48°

Separation Factor Plot



LEGEND

BANDANA FEDERAL COM #602H, OWB, PWP0 V0
 BANDANA FEDERAL COM #603H, OWB, PWP0 V0
 BANDANA FEDERAL COM #604H, OWB, PWP0 V0
 BANDANA FEDERAL COM #704H, OWB, PWP0 V0

GREEN EYESHAD FEDERAL COM #602H, OWB, AWP V0
 GREEN EYESHAD FEDERAL COM #603H, OWB, AWP V0
 GREEN EYESHAD FEDERAL COM #703H, OWB, AWP V0
 GREEN EYESHAD FEDERAL COM #704H, OWB, AWP V0

PITCHBLEND 24-25 FED 602H, OWB, PWP1 V0
 PITCHBLEND 24-25 FED 704H, OWB, PWP1 V0
 PITCHBLEND 24-25 FED 703H, OWB, PWP1 V0
 PITCHBLEND 24-25 FED 803H, OWB, PWP1 V0

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

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

BANDANA FEDERAL PROJECT

BANDANA FEDERAL COM #703H

300254979900

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 #703H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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

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

Well	BANDANA FEDERAL COM #703H		
Well Position	+N/-S	-1,941.3 usft	Northing: 418,320.80 usft
	+E/-W	-3,746.5 usft	Easting: 780,568.40 usft
Position Uncertainty		3.0 usft	Wellhead Elevation:
			Ground Level: 3,395.4 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	1/1/2023	6.28	59.74	47,469.26052408

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	174.20

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	12,557.4 PWP0 (OWB)	MWD+IFR1+MS	
			OWSG MWD + IFR1 + Multi-St	
3	12,557.4	20,603.1 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 #703H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #703H	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	
2,599.9	12.00	135.32	2,595.5	-44.5	44.0	2.00	2.00	0.00	135.32	
7,538.8	12.00	135.32	7,426.5	-774.5	765.8	0.00	0.00	0.00	0.00	
8,138.6	0.00	0.00	8,022.0	-819.0	809.8	2.00	-2.00	0.00	180.00	
12,557.4	0.00	0.00	12,440.7	-819.0	809.8	0.00	0.00	0.00	0.00	
13,321.3	91.67	179.54	12,918.0	-1,310.3	813.7	12.00	12.00	23.50	179.54	
20,553.2	91.67	179.54	12,707.5	-8,539.0	871.8	0.00	0.00	0.00	0.00	
20,603.1	91.67	179.54	12,706.0	-8,588.9	872.2	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #703H	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	135.32	2,100.0	-1.2	1.2	1.4	2.00	2.00	0.00
2,200.0	4.00	135.32	2,199.8	-5.0	4.9	5.4	2.00	2.00	0.00
2,300.0	6.00	135.32	2,299.5	-11.2	11.0	12.2	2.00	2.00	0.00
2,400.0	8.00	135.32	2,398.7	-19.8	19.6	21.7	2.00	2.00	0.00
2,500.0	10.00	135.32	2,497.5	-30.9	30.6	33.9	2.00	2.00	0.00
2,599.9	12.00	135.32	2,595.5	-44.5	44.0	48.7	2.00	2.00	0.00
Start 4938.9 hold at 2599.9 MD									
2,700.0	12.00	135.32	2,693.4	-59.3	58.6	64.9	0.00	0.00	0.00
2,800.0	12.00	135.32	2,791.3	-74.1	73.2	81.1	0.00	0.00	0.00
2,900.0	12.00	135.32	2,889.1	-88.9	87.9	97.3	0.00	0.00	0.00
3,000.0	12.00	135.32	2,986.9	-103.6	102.5	113.5	0.00	0.00	0.00
3,100.0	12.00	135.32	3,084.7	-118.4	117.1	129.6	0.00	0.00	0.00
3,200.0	12.00	135.32	3,182.5	-133.2	131.7	145.8	0.00	0.00	0.00
3,300.0	12.00	135.32	3,280.3	-148.0	146.3	162.0	0.00	0.00	0.00
3,400.0	12.00	135.32	3,378.1	-162.8	160.9	178.2	0.00	0.00	0.00
3,500.0	12.00	135.32	3,476.0	-177.5	175.5	194.4	0.00	0.00	0.00
3,600.0	12.00	135.32	3,573.8	-192.3	190.2	210.6	0.00	0.00	0.00
3,700.0	12.00	135.32	3,671.6	-207.1	204.8	226.7	0.00	0.00	0.00
3,800.0	12.00	135.32	3,769.4	-221.9	219.4	242.9	0.00	0.00	0.00
3,900.0	12.00	135.32	3,867.2	-236.7	234.0	259.1	0.00	0.00	0.00
4,000.0	12.00	135.32	3,965.0	-251.4	248.6	275.3	0.00	0.00	0.00
4,100.0	12.00	135.32	4,062.9	-266.2	263.2	291.5	0.00	0.00	0.00
4,200.0	12.00	135.32	4,160.7	-281.0	277.9	307.6	0.00	0.00	0.00
4,300.0	12.00	135.32	4,258.5	-295.8	292.5	323.8	0.00	0.00	0.00
4,400.0	12.00	135.32	4,356.3	-310.6	307.1	340.0	0.00	0.00	0.00
4,500.0	12.00	135.32	4,454.1	-325.4	321.7	356.2	0.00	0.00	0.00
4,600.0	12.00	135.32	4,551.9	-340.1	336.3	372.4	0.00	0.00	0.00
4,700.0	12.00	135.32	4,649.8	-354.9	350.9	388.6	0.00	0.00	0.00
4,800.0	12.00	135.32	4,747.6	-369.7	365.5	404.7	0.00	0.00	0.00
4,900.0	12.00	135.32	4,845.4	-384.5	380.2	420.9	0.00	0.00	0.00
5,000.0	12.00	135.32	4,943.2	-399.3	394.8	437.1	0.00	0.00	0.00
5,100.0	12.00	135.32	5,041.0	-414.0	409.4	453.3	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #703H	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	135.32	5,138.8	-428.8	424.0	469.5	0.00	0.00	0.00
5,300.0	12.00	135.32	5,236.7	-443.6	438.6	485.6	0.00	0.00	0.00
5,400.0	12.00	135.32	5,334.5	-458.4	453.2	501.8	0.00	0.00	0.00
5,500.0	12.00	135.32	5,432.3	-473.2	467.8	518.0	0.00	0.00	0.00
5,600.0	12.00	135.32	5,530.1	-487.9	482.5	534.2	0.00	0.00	0.00
5,700.0	12.00	135.32	5,627.9	-502.7	497.1	550.4	0.00	0.00	0.00
5,800.0	12.00	135.32	5,725.7	-517.5	511.7	566.5	0.00	0.00	0.00
5,900.0	12.00	135.32	5,823.5	-532.3	526.3	582.7	0.00	0.00	0.00
6,000.0	12.00	135.32	5,921.4	-547.1	540.9	598.9	0.00	0.00	0.00
6,100.0	12.00	135.32	6,019.2	-561.8	555.5	615.1	0.00	0.00	0.00
6,200.0	12.00	135.32	6,117.0	-576.6	570.1	631.3	0.00	0.00	0.00
6,300.0	12.00	135.32	6,214.8	-591.4	584.8	647.5	0.00	0.00	0.00
6,400.0	12.00	135.32	6,312.6	-606.2	599.4	663.6	0.00	0.00	0.00
6,500.0	12.00	135.32	6,410.4	-621.0	614.0	679.8	0.00	0.00	0.00
6,600.0	12.00	135.32	6,508.3	-635.7	628.6	696.0	0.00	0.00	0.00
6,700.0	12.00	135.32	6,606.1	-650.5	643.2	712.2	0.00	0.00	0.00
6,800.0	12.00	135.32	6,703.9	-665.3	657.8	728.4	0.00	0.00	0.00
6,900.0	12.00	135.32	6,801.7	-680.1	672.5	744.5	0.00	0.00	0.00
7,000.0	12.00	135.32	6,899.5	-694.9	687.1	760.7	0.00	0.00	0.00
7,100.0	12.00	135.32	6,997.3	-709.7	701.7	776.9	0.00	0.00	0.00
7,200.0	12.00	135.32	7,095.2	-724.4	716.3	793.1	0.00	0.00	0.00
7,300.0	12.00	135.32	7,193.0	-739.2	730.9	809.3	0.00	0.00	0.00
7,400.0	12.00	135.32	7,290.8	-754.0	745.5	825.5	0.00	0.00	0.00
7,500.0	12.00	135.32	7,388.6	-768.8	760.1	841.6	0.00	0.00	0.00
7,538.8	12.00	135.32	7,426.5	-774.5	765.8	847.9	0.00	0.00	0.00
Start Drop -2.00									
7,600.0	10.77	135.32	7,486.5	-783.1	774.3	857.3	2.00	-2.00	0.00
7,700.0	8.77	135.32	7,585.1	-795.2	786.2	870.5	2.00	-2.00	0.00
7,800.0	6.77	135.32	7,684.2	-804.8	795.7	881.1	2.00	-2.00	0.00
7,900.0	4.77	135.32	7,783.7	-811.9	802.8	888.9	2.00	-2.00	0.00
8,000.0	2.77	135.32	7,883.4	-816.6	807.4	894.0	2.00	-2.00	0.00
8,100.0	0.77	135.32	7,983.4	-818.8	809.6	896.4	2.00	-2.00	0.00
8,138.6	0.00	0.00	8,022.0	-819.0	809.8	896.6	2.00	-2.00	0.00
Start 4418.7 hold at 8138.6 MD									
8,200.0	0.00	0.00	8,083.4	-819.0	809.8	896.6	0.00	0.00	0.00
8,300.0	0.00	0.00	8,183.4	-819.0	809.8	896.6	0.00	0.00	0.00
8,400.0	0.00	0.00	8,283.4	-819.0	809.8	896.6	0.00	0.00	0.00
8,500.0	0.00	0.00	8,383.4	-819.0	809.8	896.6	0.00	0.00	0.00
8,600.0	0.00	0.00	8,483.4	-819.0	809.8	896.6	0.00	0.00	0.00
8,700.0	0.00	0.00	8,583.4	-819.0	809.8	896.6	0.00	0.00	0.00
8,800.0	0.00	0.00	8,683.4	-819.0	809.8	896.6	0.00	0.00	0.00
8,900.0	0.00	0.00	8,783.4	-819.0	809.8	896.6	0.00	0.00	0.00
9,000.0	0.00	0.00	8,883.4	-819.0	809.8	896.6	0.00	0.00	0.00
9,100.0	0.00	0.00	8,983.4	-819.0	809.8	896.6	0.00	0.00	0.00
9,200.0	0.00	0.00	9,083.4	-819.0	809.8	896.6	0.00	0.00	0.00
9,300.0	0.00	0.00	9,183.4	-819.0	809.8	896.6	0.00	0.00	0.00
9,400.0	0.00	0.00	9,283.4	-819.0	809.8	896.6	0.00	0.00	0.00
9,500.0	0.00	0.00	9,383.4	-819.0	809.8	896.6	0.00	0.00	0.00
9,600.0	0.00	0.00	9,483.4	-819.0	809.8	896.6	0.00	0.00	0.00
9,700.0	0.00	0.00	9,583.4	-819.0	809.8	896.6	0.00	0.00	0.00
9,800.0	0.00	0.00	9,683.4	-819.0	809.8	896.6	0.00	0.00	0.00
9,900.0	0.00	0.00	9,783.4	-819.0	809.8	896.6	0.00	0.00	0.00
10,000.0	0.00	0.00	9,883.4	-819.0	809.8	896.6	0.00	0.00	0.00
10,100.0	0.00	0.00	9,983.4	-819.0	809.8	896.6	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #703H	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	10,083.4	-819.0	809.8	896.6	0.00	0.00	0.00
10,300.0	0.00	0.00	10,183.4	-819.0	809.8	896.6	0.00	0.00	0.00
10,400.0	0.00	0.00	10,283.4	-819.0	809.8	896.6	0.00	0.00	0.00
10,500.0	0.00	0.00	10,383.4	-819.0	809.8	896.6	0.00	0.00	0.00
10,600.0	0.00	0.00	10,483.4	-819.0	809.8	896.6	0.00	0.00	0.00
10,700.0	0.00	0.00	10,583.4	-819.0	809.8	896.6	0.00	0.00	0.00
10,800.0	0.00	0.00	10,683.4	-819.0	809.8	896.6	0.00	0.00	0.00
10,900.0	0.00	0.00	10,783.4	-819.0	809.8	896.6	0.00	0.00	0.00
11,000.0	0.00	0.00	10,883.4	-819.0	809.8	896.6	0.00	0.00	0.00
11,100.0	0.00	0.00	10,983.4	-819.0	809.8	896.6	0.00	0.00	0.00
11,200.0	0.00	0.00	11,083.4	-819.0	809.8	896.6	0.00	0.00	0.00
11,300.0	0.00	0.00	11,183.4	-819.0	809.8	896.6	0.00	0.00	0.00
11,400.0	0.00	0.00	11,283.4	-819.0	809.8	896.6	0.00	0.00	0.00
11,500.0	0.00	0.00	11,383.4	-819.0	809.8	896.6	0.00	0.00	0.00
11,600.0	0.00	0.00	11,483.4	-819.0	809.8	896.6	0.00	0.00	0.00
11,700.0	0.00	0.00	11,583.4	-819.0	809.8	896.6	0.00	0.00	0.00
11,800.0	0.00	0.00	11,683.4	-819.0	809.8	896.6	0.00	0.00	0.00
11,900.0	0.00	0.00	11,783.4	-819.0	809.8	896.6	0.00	0.00	0.00
12,000.0	0.00	0.00	11,883.4	-819.0	809.8	896.6	0.00	0.00	0.00
12,100.0	0.00	0.00	11,983.4	-819.0	809.8	896.6	0.00	0.00	0.00
12,200.0	0.00	0.00	12,083.4	-819.0	809.8	896.6	0.00	0.00	0.00
12,300.0	0.00	0.00	12,183.4	-819.0	809.8	896.6	0.00	0.00	0.00
12,400.0	0.00	0.00	12,283.4	-819.0	809.8	896.6	0.00	0.00	0.00
12,500.0	0.00	0.00	12,383.4	-819.0	809.8	896.6	0.00	0.00	0.00
12,557.4	0.00	0.00	12,440.7	-819.0	809.8	896.6	0.00	0.00	0.00
Start DLS 12.00 TFO 179.54									
12,575.0	2.12	179.54	12,458.4	-819.3	809.8	896.9	12.00	12.00	0.00
12,600.0	5.12	179.54	12,483.3	-820.9	809.8	898.5	12.00	12.00	0.00
12,625.0	8.12	179.54	12,508.2	-823.8	809.8	901.4	12.00	12.00	0.00
12,650.0	11.12	179.54	12,532.8	-828.0	809.9	905.5	12.00	12.00	0.00
12,675.0	14.12	179.54	12,557.2	-833.4	809.9	911.0	12.00	12.00	0.00
12,700.0	17.12	179.54	12,581.3	-840.1	810.0	917.7	12.00	12.00	0.00
12,725.0	20.12	179.54	12,605.0	-848.1	810.0	925.6	12.00	12.00	0.00
12,750.0	23.12	179.54	12,628.2	-857.3	810.1	934.8	12.00	12.00	0.00
12,775.0	26.12	179.54	12,650.9	-867.7	810.2	945.2	12.00	12.00	0.00
12,800.0	29.12	179.54	12,673.1	-879.3	810.3	956.7	12.00	12.00	0.00
12,825.0	32.12	179.54	12,694.6	-892.1	810.4	969.4	12.00	12.00	0.00
12,850.0	35.12	179.54	12,715.4	-905.9	810.5	983.2	12.00	12.00	0.00
12,875.0	38.12	179.54	12,735.5	-920.8	810.6	998.0	12.00	12.00	0.00
12,900.0	41.12	179.54	12,754.7	-936.8	810.7	1,013.9	12.00	12.00	0.00
12,925.0	44.12	179.54	12,773.1	-953.7	810.9	1,030.7	12.00	12.00	0.00
12,950.0	47.12	179.54	12,790.6	-971.5	811.0	1,048.5	12.00	12.00	0.00
12,975.0	50.12	179.54	12,807.1	-990.3	811.2	1,067.2	12.00	12.00	0.00
13,000.0	53.12	179.54	12,822.6	-1,009.9	811.3	1,086.7	12.00	12.00	0.00
13,025.0	56.12	179.54	12,837.1	-1,030.3	811.5	1,107.0	12.00	12.00	0.00
13,050.0	59.12	179.54	12,850.5	-1,051.4	811.7	1,128.0	12.00	12.00	0.00
13,075.0	62.12	179.54	12,862.8	-1,073.2	811.8	1,149.7	12.00	12.00	0.00
13,100.0	65.12	179.54	12,873.9	-1,095.6	812.0	1,172.0	12.00	12.00	0.00
13,125.0	68.12	179.54	12,883.8	-1,118.5	812.2	1,194.8	12.00	12.00	0.00
13,150.0	71.12	179.54	12,892.5	-1,141.9	812.4	1,218.2	12.00	12.00	0.00
13,175.0	74.12	179.54	12,900.0	-1,165.8	812.6	1,241.9	12.00	12.00	0.00
13,200.0	77.12	179.54	12,906.2	-1,190.0	812.8	1,266.0	12.00	12.00	0.00
13,225.0	80.12	179.54	12,911.1	-1,214.5	813.0	1,290.4	12.00	12.00	0.00

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Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #703H	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)
13,250.0	83.12	179.54	12,914.8	-1,239.2	813.2	1,315.0	12.00	12.00	0.00
13,275.0	86.12	179.54	12,917.1	-1,264.1	813.4	1,339.8	12.00	12.00	0.00
13,300.0	89.12	179.54	12,918.1	-1,289.1	813.6	1,364.7	12.00	12.00	0.00
13,321.3	91.67	179.54	12,918.0	-1,310.3	813.7	1,385.9	12.00	12.00	0.00
Start 7231.9 hold at 13321.3 MD									
13,400.0	91.67	179.54	12,915.7	-1,389.0	814.4	1,464.2	0.00	0.00	0.00
13,500.0	91.67	179.54	12,912.8	-1,489.0	815.2	1,563.7	0.00	0.00	0.00
13,600.0	91.67	179.54	12,909.9	-1,589.0	816.0	1,663.3	0.00	0.00	0.00
13,700.0	91.67	179.54	12,907.0	-1,688.9	816.8	1,762.8	0.00	0.00	0.00
13,800.0	91.67	179.54	12,904.1	-1,788.9	817.6	1,862.3	0.00	0.00	0.00
13,900.0	91.67	179.54	12,901.2	-1,888.8	818.4	1,961.8	0.00	0.00	0.00
14,000.0	91.67	179.54	12,898.2	-1,988.8	819.2	2,061.4	0.00	0.00	0.00
14,100.0	91.67	179.54	12,895.3	-2,088.7	820.0	2,160.9	0.00	0.00	0.00
14,200.0	91.67	179.54	12,892.4	-2,188.7	820.8	2,260.4	0.00	0.00	0.00
14,300.0	91.67	179.54	12,889.5	-2,288.6	821.6	2,359.9	0.00	0.00	0.00
14,400.0	91.67	179.54	12,886.6	-2,388.6	822.4	2,459.5	0.00	0.00	0.00
14,500.0	91.67	179.54	12,883.7	-2,488.5	823.2	2,559.0	0.00	0.00	0.00
14,600.0	91.67	179.54	12,880.8	-2,588.5	824.0	2,658.5	0.00	0.00	0.00
14,700.0	91.67	179.54	12,877.9	-2,688.5	824.8	2,758.0	0.00	0.00	0.00
14,800.0	91.67	179.54	12,875.0	-2,788.4	825.6	2,857.6	0.00	0.00	0.00
14,900.0	91.67	179.54	12,872.0	-2,888.4	826.4	2,957.1	0.00	0.00	0.00
15,000.0	91.67	179.54	12,869.1	-2,988.3	827.2	3,056.6	0.00	0.00	0.00
15,100.0	91.67	179.54	12,866.2	-3,088.3	828.0	3,156.1	0.00	0.00	0.00
15,200.0	91.67	179.54	12,863.3	-3,188.2	828.8	3,255.7	0.00	0.00	0.00
15,300.0	91.67	179.54	12,860.4	-3,288.2	829.6	3,355.2	0.00	0.00	0.00
15,400.0	91.67	179.54	12,857.5	-3,388.1	830.4	3,454.7	0.00	0.00	0.00
15,500.0	91.67	179.54	12,854.6	-3,488.1	831.2	3,554.2	0.00	0.00	0.00
15,600.0	91.67	179.54	12,851.7	-3,588.0	832.0	3,653.7	0.00	0.00	0.00
15,700.0	91.67	179.54	12,848.7	-3,688.0	832.8	3,753.3	0.00	0.00	0.00
15,800.0	91.67	179.54	12,845.8	-3,788.0	833.6	3,852.8	0.00	0.00	0.00
15,900.0	91.67	179.54	12,842.9	-3,887.9	834.4	3,952.3	0.00	0.00	0.00
16,000.0	91.67	179.54	12,840.0	-3,987.9	835.2	4,051.8	0.00	0.00	0.00
16,100.0	91.67	179.54	12,837.1	-4,087.8	836.1	4,151.4	0.00	0.00	0.00
16,200.0	91.67	179.54	12,834.2	-4,187.8	836.9	4,250.9	0.00	0.00	0.00
16,300.0	91.67	179.54	12,831.3	-4,287.7	837.7	4,350.4	0.00	0.00	0.00
16,400.0	91.67	179.54	12,828.4	-4,387.7	838.5	4,449.9	0.00	0.00	0.00
16,500.0	91.67	179.54	12,825.5	-4,487.6	839.3	4,549.5	0.00	0.00	0.00
16,600.0	91.67	179.54	12,822.5	-4,587.6	840.1	4,649.0	0.00	0.00	0.00
16,700.0	91.67	179.54	12,819.6	-4,687.5	840.9	4,748.5	0.00	0.00	0.00
16,800.0	91.67	179.54	12,816.7	-4,787.5	841.7	4,848.0	0.00	0.00	0.00
16,900.0	91.67	179.54	12,813.8	-4,887.5	842.5	4,947.6	0.00	0.00	0.00
17,000.0	91.67	179.54	12,810.9	-4,987.4	843.3	5,047.1	0.00	0.00	0.00
17,100.0	91.67	179.54	12,808.0	-5,087.4	844.1	5,146.6	0.00	0.00	0.00
17,200.0	91.67	179.54	12,805.1	-5,187.3	844.9	5,246.1	0.00	0.00	0.00
17,300.0	91.67	179.54	12,802.2	-5,287.3	845.7	5,345.7	0.00	0.00	0.00
17,400.0	91.67	179.54	12,799.3	-5,387.2	846.5	5,445.2	0.00	0.00	0.00
17,500.0	91.67	179.54	12,796.3	-5,487.2	847.3	5,544.7	0.00	0.00	0.00
17,600.0	91.67	179.54	12,793.4	-5,587.1	848.1	5,644.2	0.00	0.00	0.00
17,700.0	91.67	179.54	12,790.5	-5,687.1	848.9	5,743.8	0.00	0.00	0.00
17,800.0	91.67	179.54	12,787.6	-5,787.0	849.7	5,843.3	0.00	0.00	0.00
17,900.0	91.67	179.54	12,784.7	-5,887.0	850.5	5,942.8	0.00	0.00	0.00
18,000.0	91.67	179.54	12,781.8	-5,987.0	851.3	6,042.3	0.00	0.00	0.00
18,100.0	91.67	179.54	12,778.9	-6,086.9	852.1	6,141.8	0.00	0.00	0.00
18,200.0	91.67	179.54	12,776.0	-6,186.9	852.9	6,241.4	0.00	0.00	0.00

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Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #703H	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	91.67	179.54	12,773.1	-6,286.8	853.7	6,340.9	0.00	0.00	0.00	
18,400.0	91.67	179.54	12,770.1	-6,386.8	854.5	6,440.4	0.00	0.00	0.00	
18,500.0	91.67	179.54	12,767.2	-6,486.7	855.3	6,539.9	0.00	0.00	0.00	
18,600.0	91.67	179.54	12,764.3	-6,586.7	856.1	6,639.5	0.00	0.00	0.00	
18,700.0	91.67	179.54	12,761.4	-6,686.6	856.9	6,739.0	0.00	0.00	0.00	
18,800.0	91.67	179.54	12,758.5	-6,786.6	857.7	6,838.5	0.00	0.00	0.00	
18,900.0	91.67	179.54	12,755.6	-6,886.5	858.5	6,938.0	0.00	0.00	0.00	
19,000.0	91.67	179.54	12,752.7	-6,986.5	859.3	7,037.6	0.00	0.00	0.00	
19,100.0	91.67	179.54	12,749.8	-7,086.4	860.1	7,137.1	0.00	0.00	0.00	
19,200.0	91.67	179.54	12,746.8	-7,186.4	860.9	7,236.6	0.00	0.00	0.00	
19,300.0	91.67	179.54	12,743.9	-7,286.4	861.7	7,336.1	0.00	0.00	0.00	
19,400.0	91.67	179.54	12,741.0	-7,386.3	862.5	7,435.7	0.00	0.00	0.00	
19,500.0	91.67	179.54	12,738.1	-7,486.3	863.3	7,535.2	0.00	0.00	0.00	
19,600.0	91.67	179.54	12,735.2	-7,586.2	864.1	7,634.7	0.00	0.00	0.00	
19,700.0	91.67	179.54	12,732.3	-7,686.2	865.0	7,734.2	0.00	0.00	0.00	
19,800.0	91.67	179.54	12,729.4	-7,786.1	865.8	7,833.8	0.00	0.00	0.00	
19,900.0	91.67	179.54	12,726.5	-7,886.1	866.6	7,933.3	0.00	0.00	0.00	
20,000.0	91.67	179.54	12,723.6	-7,986.0	867.4	8,032.8	0.00	0.00	0.00	
20,100.0	91.67	179.54	12,720.6	-8,086.0	868.2	8,132.3	0.00	0.00	0.00	
20,200.0	91.67	179.54	12,717.7	-8,185.9	869.0	8,231.9	0.00	0.00	0.00	
20,300.0	91.67	179.54	12,714.8	-8,285.9	869.8	8,331.4	0.00	0.00	0.00	
20,400.0	91.67	179.54	12,711.9	-8,385.9	870.6	8,430.9	0.00	0.00	0.00	
20,500.0	91.67	179.54	12,709.0	-8,485.8	871.4	8,530.4	0.00	0.00	0.00	
20,553.2	91.67	179.54	12,707.5	-8,539.0	871.8	8,583.4	0.00	0.00	0.00	
Start 49.9 hold at 20553.2 MD										
20,603.1	91.67	179.54	12,706.0	-8,588.9	872.2	8,633.1	0.00	0.00	0.00	
TD at 20603.1										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
PBHL (BANDANA FED C - plan hits target center - Rectangle (sides W100.0 H7,770.2 D20.0)	1.67	359.54	12,706.0	-8,588.9	872.2	409,731.90	781,440.60	32° 7' 23.540 N		103° 25' 27.278 W
LTP (BANDANA FED C - plan hits target center - Point	0.00	0.01	12,707.5	-8,539.0	871.8	409,781.80	781,440.20	32° 7' 24.034 N		103° 25' 27.278 W
FTP (BANDANA FED C - plan misses target center by 197.6usft at 12930.1usft MD (12776.7 TVD, -957.2 N, 810.9 E) - Circle (radius 50.0)	0.00	0.00	12,918.0	-819.0	809.8	417,501.80	781,378.20	32° 8' 40.430 N		103° 25' 27.241 W

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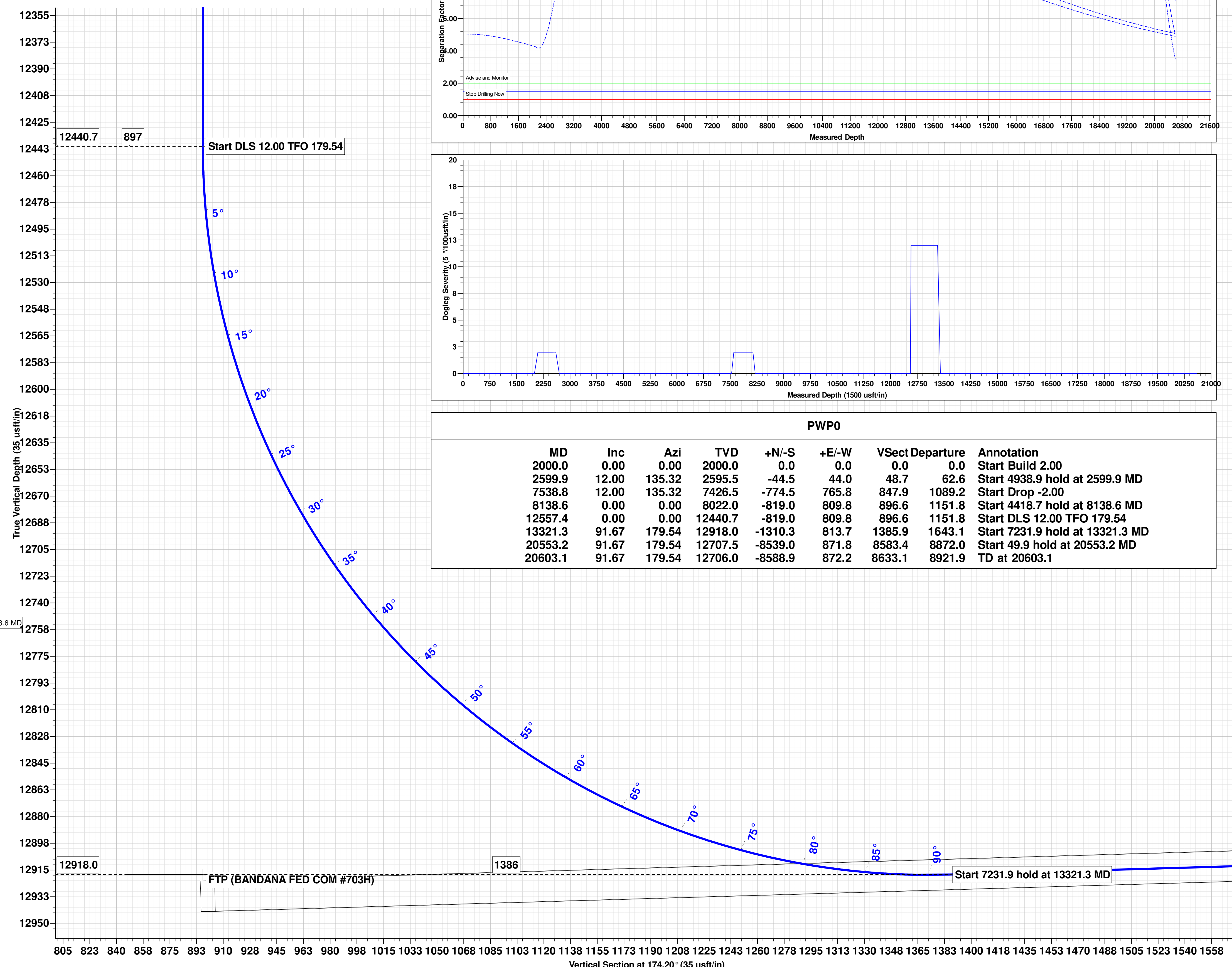
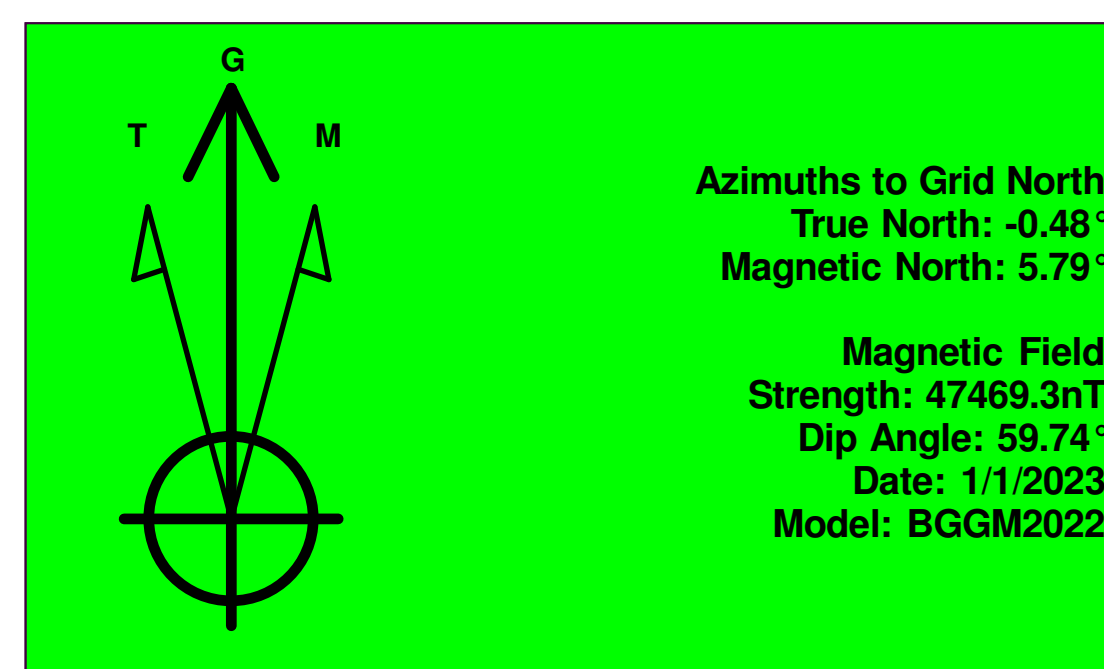
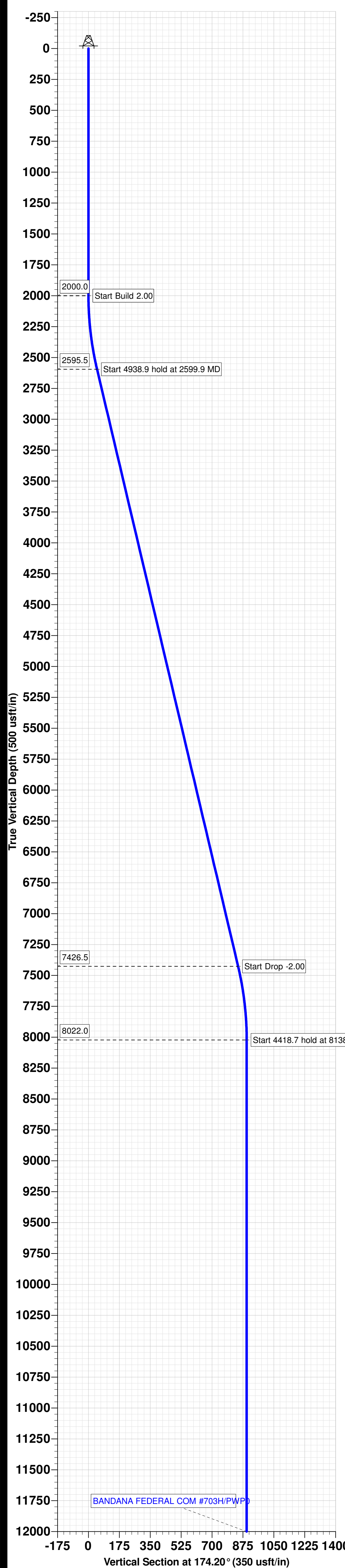
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #703H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3425.4usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3425.4usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.0	2,000.0	0.0	0.0	Start Build 2.00
2,599.9	2,595.5	-44.5	44.0	Start 4938.9 hold at 2599.9 MD
7,538.8	7,426.5	-774.5	765.8	Start Drop -2.00
8,138.6	8,022.0	-819.0	809.8	Start 4418.7 hold at 8138.6 MD
12,557.4	12,440.7	-819.0	809.8	Start DLS 12.00 TFO 179.54
13,321.3	12,918.0	-1,310.3	813.7	Start 7231.9 hold at 13321.3 MD
20,553.2	12,707.5	-8,539.0	871.8	Start 49.9 hold at 20553.2 MD
20,603.1	12,706.0	-8,588.9	872.2	TD at 20603.1

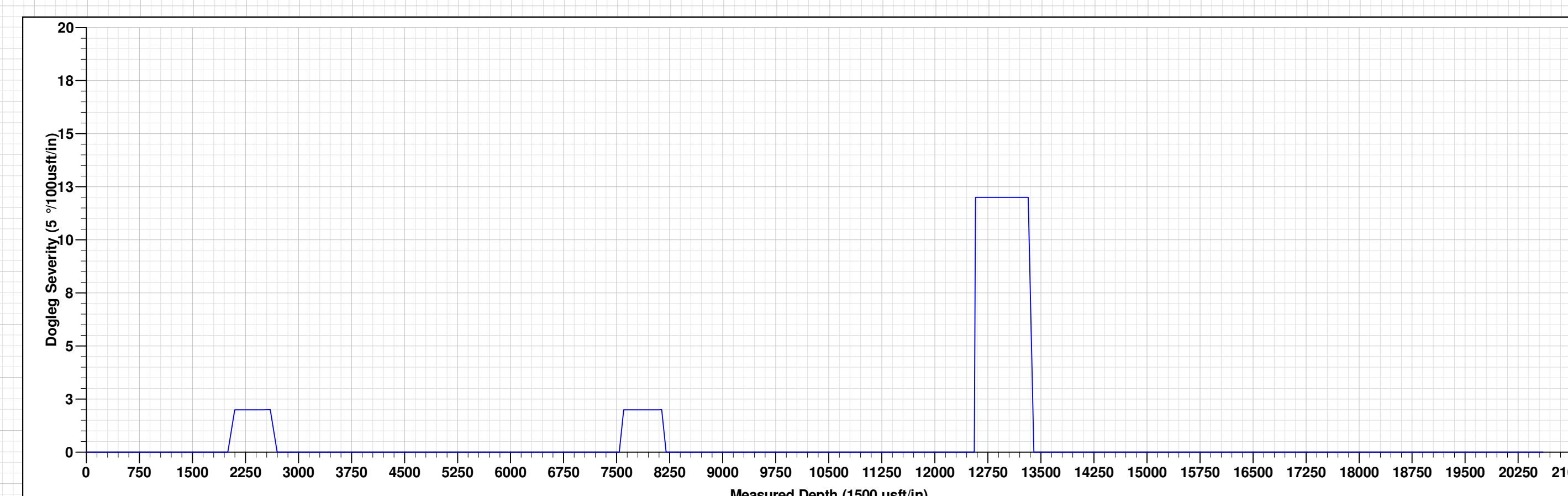
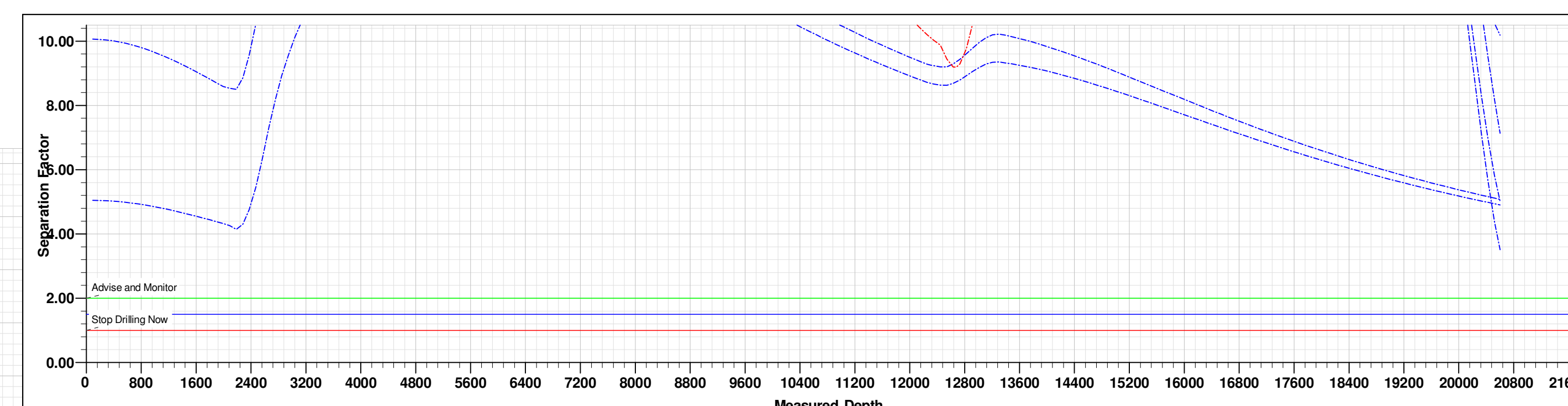


Project: BULLDOG PROSPECT (NM-E)
Site: BANDANA FEDERAL PROJECT
Well: BANDANA FEDERAL COM #703H
Wellbore: OWB
Design: PWP0
GL: 3395.4
*KB=30' @ 3425.4usft (TBD)

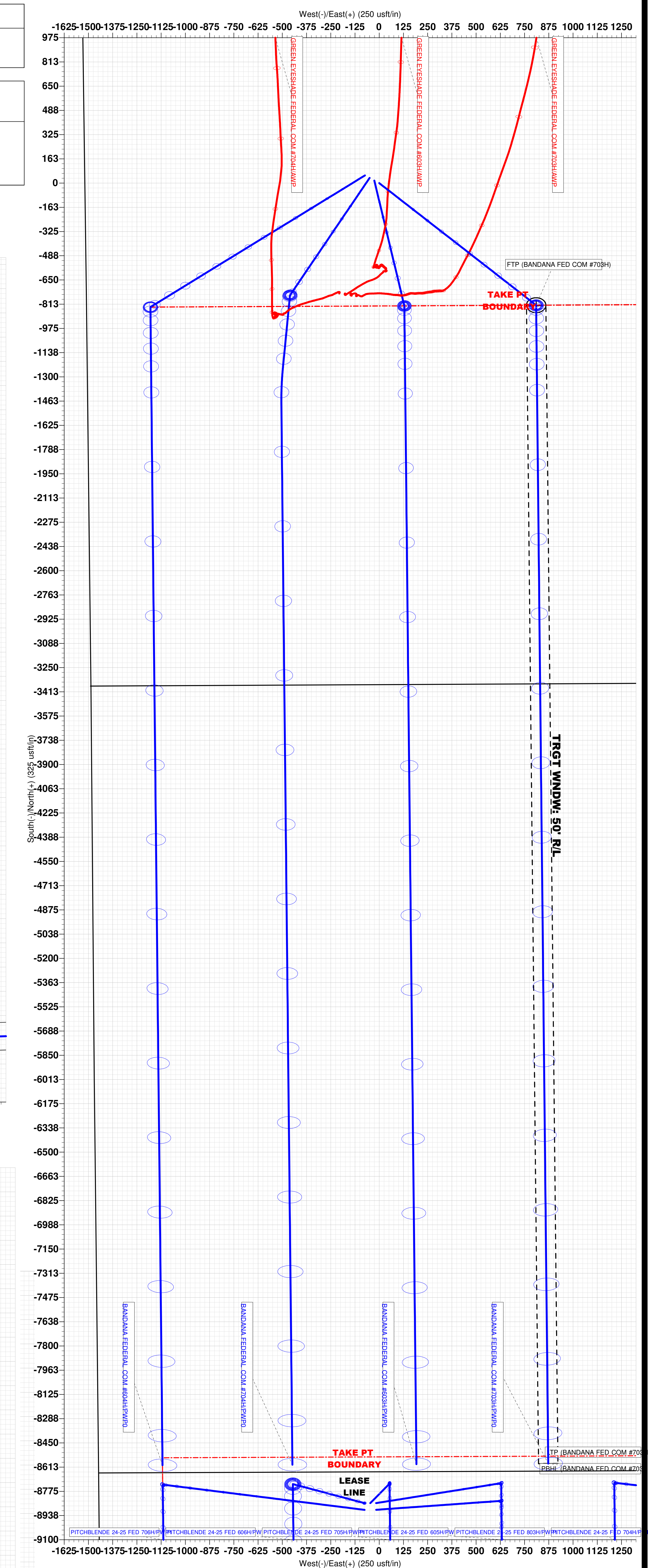
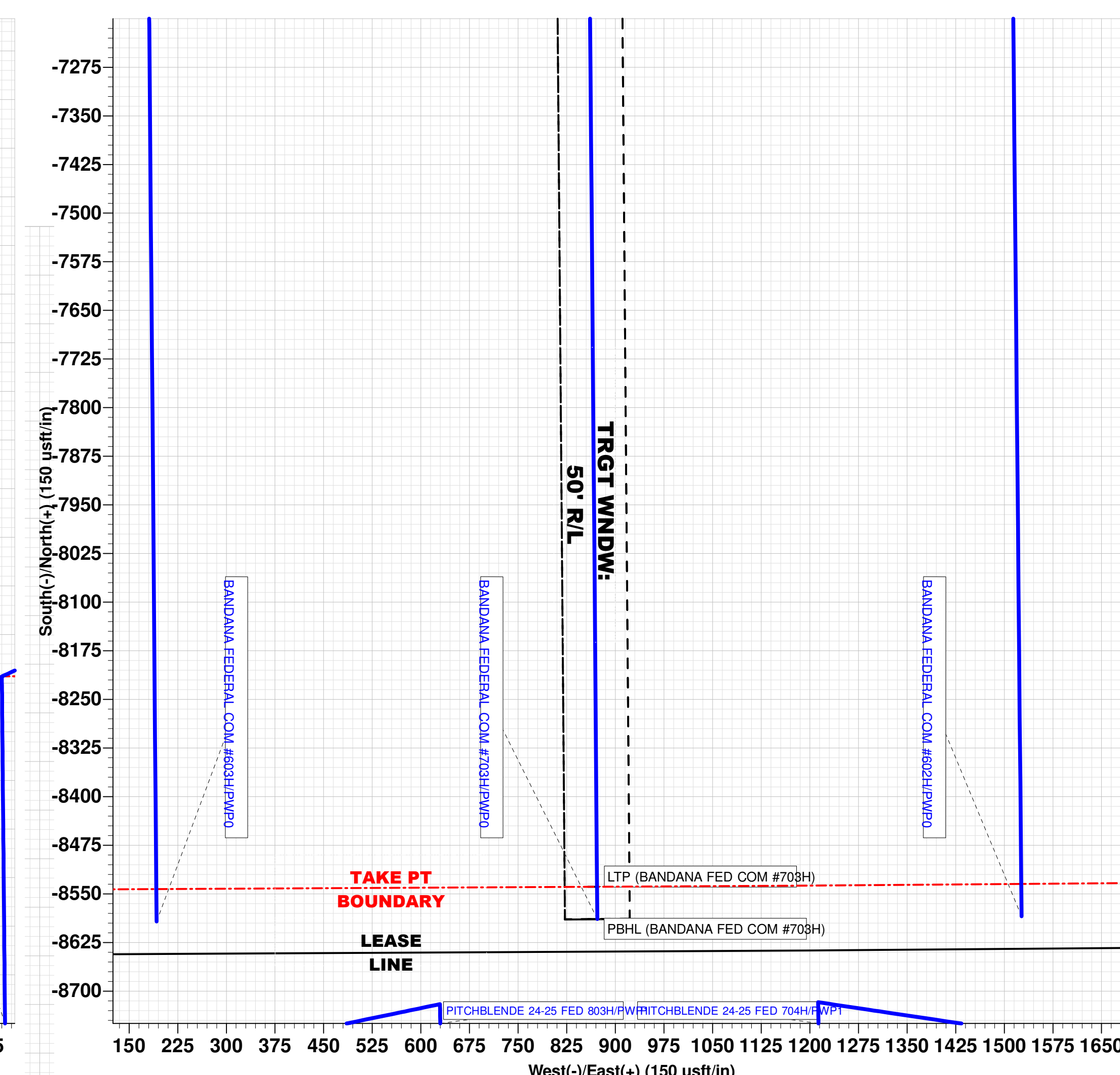
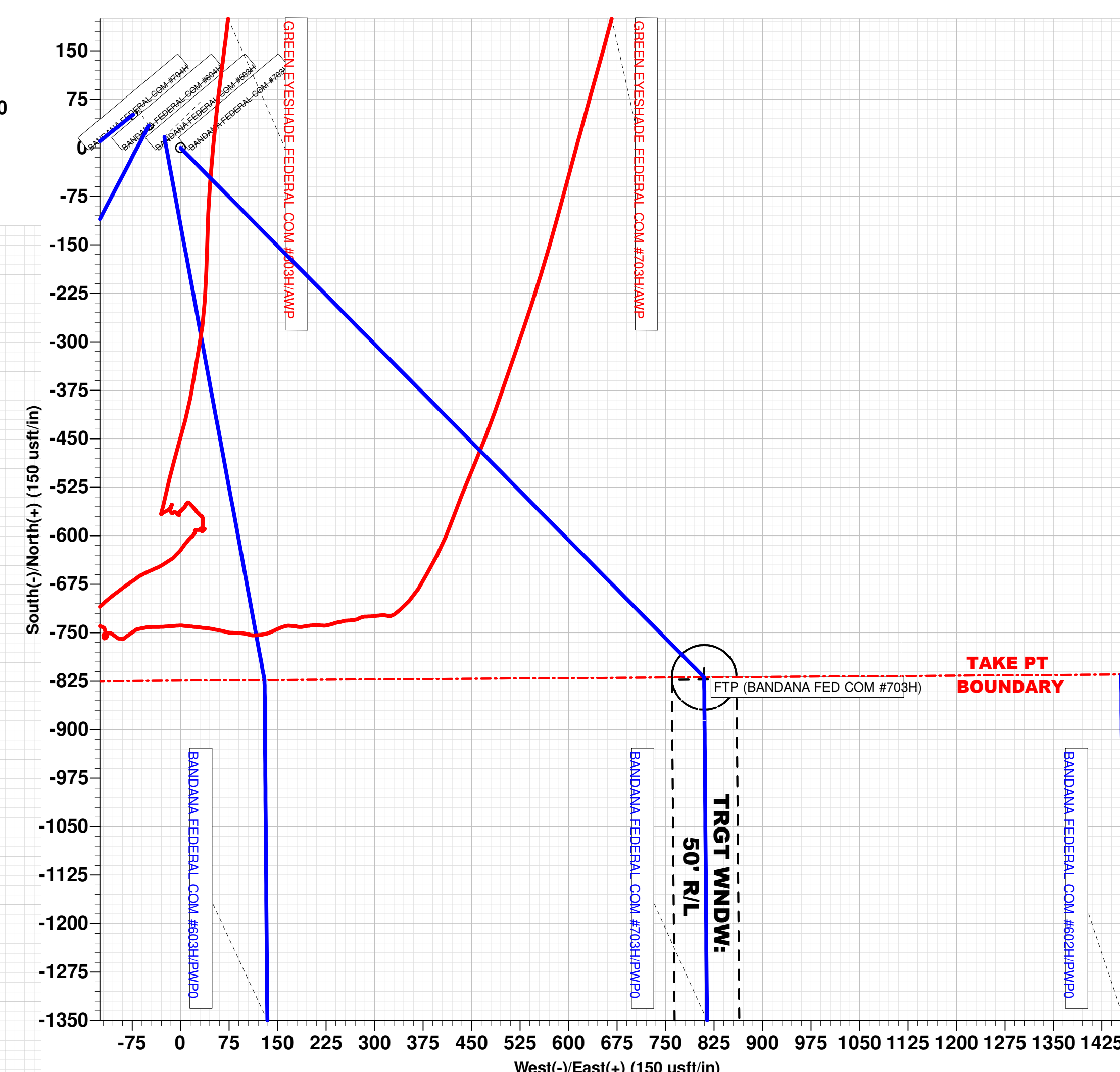
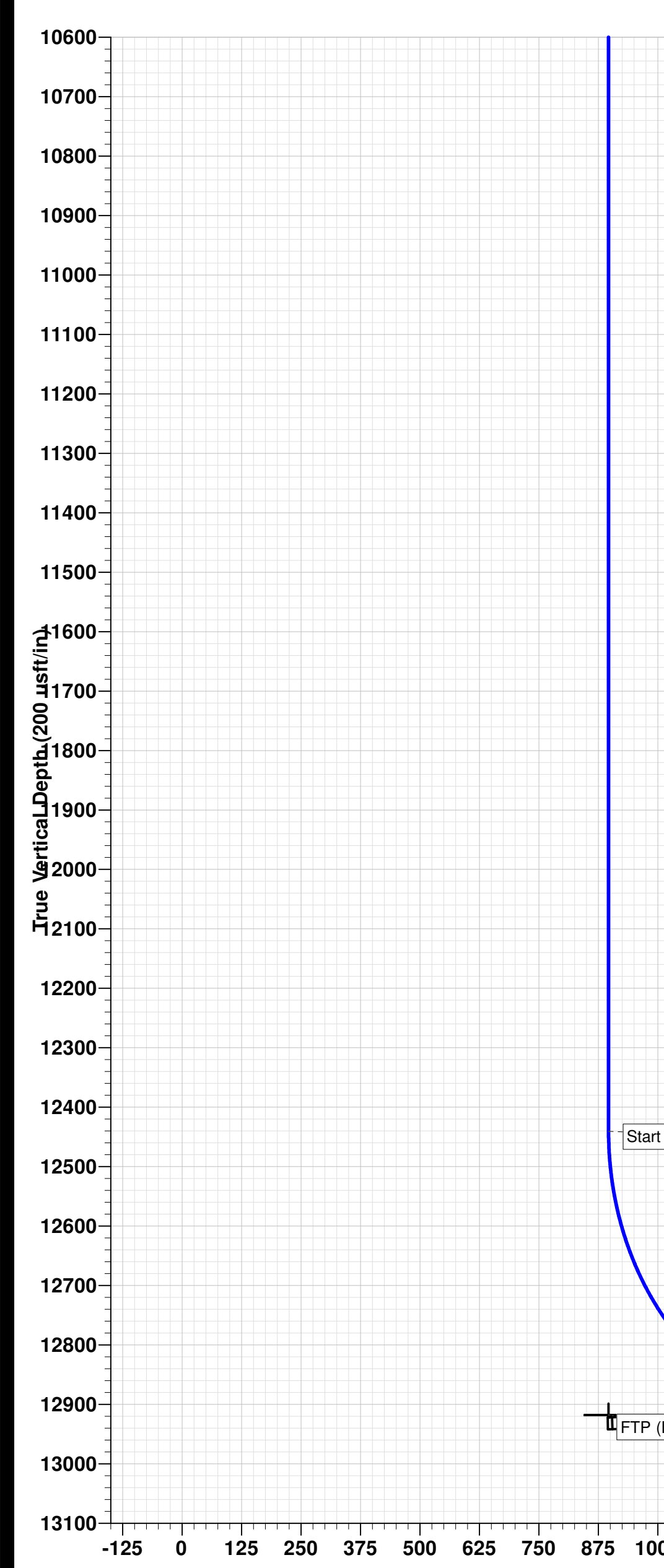


WELL DETAILS: BANDANA FEDERAL COM #703H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	418320.80	780568.40	32° 8' 48.602 N	103° 25' 36.579 W

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL (BANDANA FED COM #703H)	12706.0	-8588.9	872.2	409731.90	781440.60
LTP (BANDANA FED COM #703H)	12707.5	-8539.0	871.8	409781.80	781440.20
FTP (BANDANA FED COM #703H)	12918.0	-819.0	809.8	417501.80	781378.20
Shape					
Rectangle (Sides: L7770.2 W100.0)					
Point					
Circle (Radius: 50.0)					



PWP0							
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect Departure	Annotation
2000.0	0.00	0.00	2000.0	0.0	0.0	0.0	Start Build 2.00
2599.9	12.00	135.32	2595.5	-44.5	44.0	48.7	Start 4938.9 hold at 2599.9 MD
7538.8	12.00	135.32	7426.5	-774.5	765.8	847.9	Start Drop -2.00
8138.6	0.00	0.00	8022.0	-819.0	809.8	896.6	Start 4418.7 hold at 8138.6 MD
12557.4	0.00	0.00	12440.7	-819.0	809.8	896.6	Start DLS 12.00 TFO 179.54
13321.3	91.67	179.54	12918.0	-1310.3	813.7	1385.9	Start 7231.9 hold at 13321.3 MD
20553.2	91.67	179.54	12707.5	-8539.0	871.8	8563.4	Start 49.9 hold at 20553.2 MD
20603.1	91.67	179.54	12706.0	-8588.9	872.2	8633.1	TD at 20603.1



TRGT WNDW:
10' A/B

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

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

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

ORDER

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

FINDINGS OF FACT

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

CONCLUSIONS OF LAW

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

ORDER

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

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

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

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

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

**STATE OF NEW MEXICO
OIL CONSERVATION DIVISION**


DYLAN M FUGE
DIRECTOR (ACTING)
DMF/jag

Date: 4/30/2023

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Exhibit A

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

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

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Received by OCD: 7/20/23 4:36:30 PM	Exhibit B-3	Page 7 of 10
Cross Section Location Map (including WEL)	Exhibit B-4	
Additional Information		
Special Provisions/Stipulations	N/A	
CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.		
Printed Name (Attorney or Party Representative):	Dana S. Hardy	
Signed Name (Attorney or Party Representative):	/s/ Dana S. Hardy	
Date:		3/07/2023

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

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

CONDITIONS

Action 240868

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 240868
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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