

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

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

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

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

8. Well Name and No. **BANDANA FEDERAL COM/704H**9. API Well No. **3002549800**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 & 1000 FWL SWNW 24-25S-34E 24018' MD, 12871' TVD

Change BHL TO: 50 ft FSL & 1000 ft FWL SWSW 13-25S-34E Lea Co, NM.

Change TD to: 20,595MD, 12,707 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

02/08/2023

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: SENW / 1878 FNL / 1469 FWL / TWSP: 25S / RANGE: 34E / SECTION: 12 / LAT: 32.147056 / LONG: -103.427454 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 2540 FSL / 1000 FWL / TWSP: 25S / RANGE: 34E / SECTION: 12 / LAT: 32.144697 / LONG: -103.428966 (TVD: 0 feet, MD: 0 feet)

BHL: SWNW / 2590 FNL / 1000 FWL / TWSP: 25S / RANGE: 34E / SECTION: 24 / LAT: 32.116085 / LONG: -103.428983 (TVD: 0 feet, MD: 0 feet)

CONFIDENTIAL

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

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

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

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

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

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-49800	Pool Code 17980	Pool Name Dogie Draw; Wolfcamp
Property Code 332421	Property Name BANDANA FEDERAL COM	Well Number 704H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3395.5'

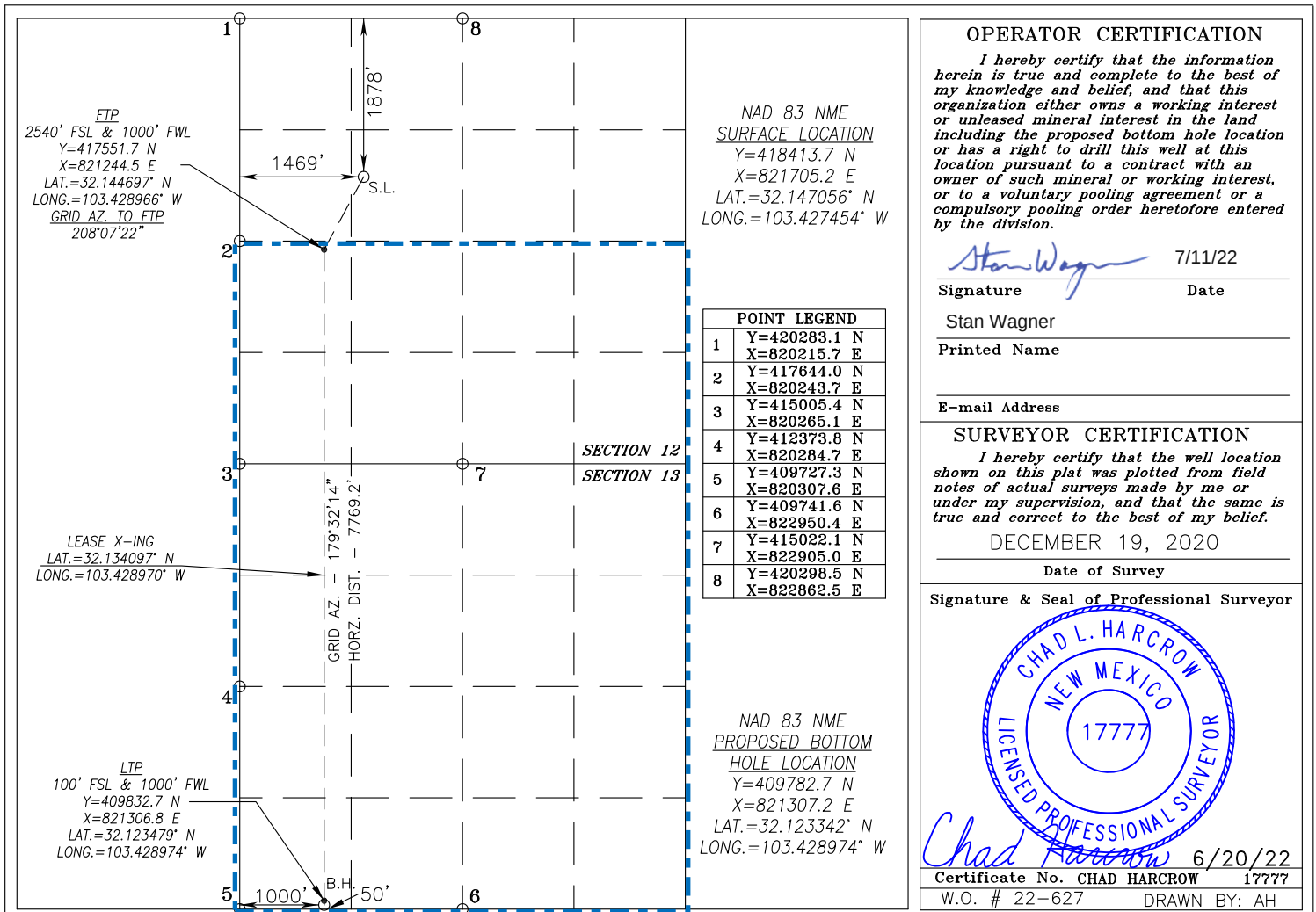
Surface Location

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		1878	NORTH	1469	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
M	13	25-S	34-E		50	SOUTH	1000	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 #704H
300254980000
OWB
PWP0**

Anticollision Report

07 July, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	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:	ISCSWA
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	12,475.8	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	
12,475.8	20,595.7	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
BANDANA FEDERAL PROJECT						
*BANDANA FEDERAL COM #601H - OWB - PWP0						Out of range
BANDANA FEDERAL COM #602H - OWB - PWP0						Out of range
BANDANA FEDERAL COM #603H - OWB - PWP0	1,995.0	1,995.1	30.1	23.0	4.263	CC, ES, SF
BANDANA FEDERAL COM #604H - OWB - PWP0	1,995.0	1,994.1	29.4	22.4	4.182	CC, ES, SF
BANDANA FEDERAL COM #702H - OWB - PWP0						Out of range
BANDANA FEDERAL COM #703H - OWB - PWP0	1,995.0	1,994.9	60.4	53.3	8.588	CC, ES
BANDANA FEDERAL COM #703H - OWB - PWP0	2,185.0	2,180.9	65.5	57.8	8.520	SF
GREEN EYESHAD FED PROJECT						
GREEN EYESHAD FEDERAL COM #602H - OWB - AW						Out of range
GREEN EYESHAD FEDERAL COM #603H - OWB - AW	4,838.7	4,801.9	355.6	338.3	20.643	CC
GREEN EYESHAD FEDERAL COM #603H - OWB - AW	4,845.0	4,807.8	355.6	338.3	20.604	ES
GREEN EYESHAD FEDERAL COM #603H - OWB - AW	12,350.0	12,233.0	473.1	425.0	9.839	SF
GREEN EYESHAD FEDERAL COM #702H - OWB - AW						Out of range
GREEN EYESHAD FEDERAL COM #703H - OWB - AW	5,929.8	5,866.8	333.9	312.2	15.368	CC
GREEN EYESHAD FEDERAL COM #703H - OWB - AW	5,985.0	5,920.3	334.2	312.2	15.187	ES
GREEN EYESHAD FEDERAL COM #703H - OWB - AW	6,365.0	6,284.9	352.1	328.2	14.714	SF
GREEN EYESHAD FEDERAL COM #704H - OWB - AW	12,738.4	12,685.0	87.2	37.8	1.765	Advise and Monitor, CC, ES,
PITCHBLEND 24-25 FEDERAL PROJECT						
PITCHBLEND 24-25 FED 604H - OWB - PWP1						Out of range
PITCHBLEND 24-25 FED 605H - OWB - PWP1						Out of range
PITCHBLEND 24-25 FED 606H - OWB - PWP1	20,595.7	12,450.0	397.4	307.6	4.424	CC, ES, SF
PITCHBLEND 24-25 FED 704H - OWB - PWP1						Out of range
PITCHBLEND 24-25 FED 705H - OWB - PWP1	20,595.7	12,585.0	547.5	466.2	6.736	CC, ES, SF
PITCHBLEND 24-25 FED 706H - OWB - PWP1	20,595.7	12,667.6	705.0	621.5	8.440	CC, ES, SF
PITCHBLEND 24-25 FED 803H - OWB - PWP1						Out of range

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	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	20,595.7	20,604.2				Out of Range @TD
BANDANA FEDERAL COM #602H - OWB - PWP0	20,595.7	20,292.3				Out of Range @TD
BANDANA FEDERAL COM #603H - OWB - PWP0	20,595.7	20,274.7	697.3	552.7	4.824	
BANDANA FEDERAL COM #604H - OWB - PWP0	20,595.7	20,292.8	731.7	584.6	4.973	
BANDANA FEDERAL COM #702H - OWB - PWP0	20,595.7	20,522.4				Out of Range @TD
BANDANA FEDERAL COM #703H - OWB - PWP0	20,595.7	20,599.7				Out of Range @TD
GREEN EYESHAD FED PROJECT						
GREEN EYESHAD FEDERAL COM #602H - OWB - AW	20,595.7	12,205.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #603H - OWB - AW	20,595.7	12,208.9				Out of Range @TD
GREEN EYESHAD FEDERAL COM #702H - OWB - AW	20,595.7	12,444.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #703H - OWB - AW	20,595.7	12,418.6				Out of Range @TD
GREEN EYESHAD FEDERAL COM #704H - OWB - AW	20,595.7	12,468.0				Out of Range @TD
PITCHBLENDE 24-25 FEDERAL PROJECT						
PITCHBLENDE 24-25 FED 604H - OWB - PWP1	20,595.7	12,450.0				Out of Range @TD
PITCHBLENDE 24-25 FED 605H - OWB - PWP1	20,595.7	12,415.3				Out of Range @TD
PITCHBLENDE 24-25 FED 606H - OWB - PWP1	20,595.7	12,450.0	397.4	307.6	4.424	CC, ES, SF
PITCHBLENDE 24-25 FED 704H - OWB - PWP1	20,595.7	12,659.1				Out of Range @TD
PITCHBLENDE 24-25 FED 705H - OWB - PWP1	20,595.7	12,585.0	547.5	466.2	6.736	CC, ES, SF
PITCHBLENDE 24-25 FED 706H - OWB - PWP1	20,595.7	12,667.6	705.0	621.5	8.440	CC, ES, SF
PITCHBLENDE 24-25 FED 803H - OWB - PWP1	20,595.7	12,686.0				Out of Range @TD

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	0.1	0.1	3.0	3.0	126.49	-17.9	24.2	30.1						
95.0	95.0	95.1	95.1	3.0	3.0	126.49	-17.9	24.2	30.1	24.1	6.00	5.016			
190.0	190.0	190.1	190.1	3.0	3.0	126.49	-17.9	24.2	30.1	24.1	6.00	5.013			
285.0	285.0	285.1	285.1	3.0	3.0	126.49	-17.9	24.2	30.1	24.1	6.01	5.004			
380.0	380.0	380.1	380.1	3.0	3.0	126.49	-17.9	24.2	30.1	24.1	6.03	4.991			
475.0	475.0	475.1	475.1	3.0	3.0	126.49	-17.9	24.2	30.1	24.0	6.05	4.974			
570.0	570.0	570.1	570.1	3.1	3.1	126.49	-17.9	24.2	30.1	24.0	6.08	4.952			
665.0	665.0	665.1	665.1	3.1	3.1	126.49	-17.9	24.2	30.1	24.0	6.11	4.926			
760.0	760.0	760.1	760.1	3.1	3.1	126.49	-17.9	24.2	30.1	24.0	6.15	4.896			
855.0	855.0	855.1	855.1	3.2	3.2	126.49	-17.9	24.2	30.1	23.9	6.19	4.862			

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	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	Reference	Offset	Highside	Rule Assigned:							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
950.0	950.0	950.1	950.1	3.2	3.2	126.49	-17.9	24.2	30.1	23.9	6.24	4.825	
1,045.0	1,045.0	1,045.1	1,045.1	3.3	3.3	126.49	-17.9	24.2	30.1	23.8	6.29	4.785	
1,140.0	1,140.0	1,140.1	1,140.1	3.3	3.3	126.49	-17.9	24.2	30.1	23.8	6.35	4.742	
1,235.0	1,235.0	1,235.1	1,235.1	3.4	3.4	126.49	-17.9	24.2	30.1	23.7	6.41	4.696	
1,330.0	1,330.0	1,330.1	1,330.1	3.4	3.4	126.49	-17.9	24.2	30.1	23.6	6.48	4.647	
1,425.0	1,425.0	1,425.1	1,425.1	3.5	3.5	126.49	-17.9	24.2	30.1	23.6	6.55	4.597	
1,520.0	1,520.0	1,520.1	1,520.1	3.6	3.6	126.49	-17.9	24.2	30.1	23.5	6.62	4.544	
1,615.0	1,615.0	1,615.1	1,615.1	3.6	3.6	126.49	-17.9	24.2	30.1	23.4	6.70	4.490	
1,710.0	1,710.0	1,710.1	1,710.1	3.7	3.7	126.49	-17.9	24.2	30.1	23.3	6.79	4.435	
1,805.0	1,805.0	1,805.1	1,805.1	3.8	3.8	126.49	-17.9	24.2	30.1	23.2	6.87	4.379	
1,900.0	1,900.0	1,900.1	1,900.1	3.9	3.9	126.49	-17.9	24.2	30.1	23.1	6.97	4.321	
1,995.0	1,995.0	1,995.1	1,995.1	3.9	3.9	126.49	-17.9	24.2	30.1	23.0	7.06	4.263	CC, ES, SF
2,090.0	2,090.0	2,089.4	2,089.4	4.1	4.1	-81.85	-19.3	24.5	30.9	23.8	7.16	4.317	
2,185.0	2,184.9	2,183.6	2,183.5	4.6	4.7	-84.13	-23.7	25.3	33.6	26.2	7.35	4.568	
2,280.0	2,279.6	2,277.7	2,277.3	5.2	5.3	-87.25	-31.1	26.6	38.1	30.6	7.54	5.058	
2,375.0	2,373.9	2,371.6	2,370.5	5.7	5.9	-90.53	-41.6	28.6	44.7	36.9	7.78	5.745	
2,470.0	2,467.9	2,465.2	2,463.2	6.2	6.4	-93.52	-55.0	31.0	53.3	45.2	8.10	6.586	
2,565.0	2,561.4	2,558.6	2,555.0	6.5	6.9	-96.04	-71.3	34.0	64.0	55.5	8.45	7.575	
2,660.0	2,654.6	2,652.3	2,646.7	6.7	7.2	-97.10	-90.2	37.5	76.2	67.4	8.83	8.631	
2,755.0	2,747.9	2,746.4	2,738.9	6.8	7.4	-97.70	-109.4	41.1	88.6	79.3	9.26	9.571	
2,850.0	2,841.1	2,840.6	2,831.0	7.0	7.6	-98.16	-128.7	44.6	101.0	91.2	9.73	10.376	
2,945.0	2,934.4	2,934.8	2,923.1	7.2	7.8	-98.51	-147.9	48.2	113.4	103.1	10.24	11.072	
3,040.0	3,027.6	3,029.0	3,015.2	7.4	8.0	-98.80	-167.2	51.7	125.8	115.0	10.77	11.673	
3,135.0	3,120.9	3,123.2	3,107.4	7.6	8.2	-99.03	-186.5	55.3	138.2	126.8	11.33	12.193	
3,230.0	3,214.1	3,217.4	3,199.5	7.8	8.4	-99.23	-205.7	58.9	150.6	138.7	11.91	12.643	
3,325.0	3,307.4	3,311.6	3,291.6	8.1	8.6	-99.39	-225.0	62.4	163.0	150.5	12.50	13.035	
3,420.0	3,400.6	3,405.7	3,383.8	8.3	8.8	-99.53	-244.3	66.0	175.4	162.3	13.11	13.376	
3,515.0	3,493.9	3,499.9	3,475.9	8.6	9.1	-99.66	-263.5	69.5	187.8	174.1	13.73	13.675	
3,610.0	3,587.1	3,594.1	3,568.0	8.8	9.3	-99.76	-282.8	73.1	200.2	185.8	14.36	13.938	
3,705.0	3,680.4	3,688.3	3,660.1	9.1	9.6	-99.86	-302.1	76.6	212.6	197.6	15.00	14.170	
3,800.0	3,773.6	3,782.5	3,752.3	9.4	9.8	-99.94	-321.3	80.2	225.0	209.4	15.65	14.376	
3,895.0	3,866.9	3,876.7	3,844.4	9.7	10.1	-100.02	-340.6	83.7	237.4	221.1	16.31	14.558	
3,990.0	3,960.2	3,970.9	3,936.5	9.9	10.4	-100.09	-359.9	87.3	249.8	232.9	16.97	14.722	
4,085.0	4,053.4	4,065.0	4,028.6	10.2	10.6	-100.15	-379.1	90.8	262.2	244.6	17.64	14.868	
4,180.0	4,146.7	4,159.2	4,120.8	10.5	10.9	-100.21	-398.4	94.4	274.6	256.3	18.31	15.000	
4,275.0	4,239.9	4,253.4	4,212.9	10.8	11.2	-100.26	-417.6	98.0	287.1	268.1	18.99	15.119	
4,370.0	4,333.2	4,347.6	4,305.0	11.1	11.5	-100.31	-436.9	101.5	299.5	279.8	19.67	15.226	
4,465.0	4,426.4	4,441.8	4,397.1	11.5	11.8	-100.35	-456.2	105.1	311.9	291.5	20.35	15.324	
4,560.0	4,519.7	4,536.0	4,489.3	11.8	12.1	-100.39	-475.4	108.6	324.3	303.2	21.04	15.413	
4,655.0	4,612.9	4,630.2	4,581.4	12.1	12.4	-100.43	-494.7	112.2	336.7	315.0	21.73	15.494	
4,750.0	4,706.2	4,724.3	4,673.5	12.4	12.7	-100.46	-514.0	115.7	349.1	326.7	22.42	15.569	
4,845.0	4,799.4	4,818.5	4,765.6	12.7	13.0	-100.49	-533.2	119.3	361.5	338.4	23.12	15.637	
4,940.0	4,892.7	4,912.7	4,857.8	13.0	13.3	-100.52	-552.5	122.8	373.9	350.1	23.82	15.700	
5,035.0	4,985.9	5,006.9	4,949.9	13.4	13.6	-100.55	-571.8	126.4	386.3	361.8	24.52	15.759	
5,130.0	5,079.2	5,101.1	5,042.0	13.7	14.0	-100.58	-591.0	129.9	398.7	373.5	25.22	15.812	
5,225.0	5,172.5	5,195.3	5,134.1	14.0	14.3	-100.60	-610.3	133.5	411.2	385.2	25.92	15.862	
5,320.0	5,265.7	5,289.5	5,226.3	14.4	14.6	-100.63	-629.5	137.1	423.6	396.9	26.63	15.908	
5,415.0	5,359.0	5,383.6	5,318.4	14.7	14.9	-100.65	-648.8	140.6	436.0	408.6	27.33	15.952	
5,510.0	5,452.2	5,477.8	5,410.5	15.0	15.2	-100.67	-668.1	144.2	448.4	420.3	28.04	15.992	
5,605.0	5,545.5	5,572.0	5,502.6	15.4	15.6	-100.69	-687.3	147.7	460.8	432.0	28.75	16.029	
5,700.0	5,638.7	5,666.2	5,594.8	15.7	15.9	-100.71	-706.6	151.3	473.2	443.8	29.46	16.064	
5,795.0	5,732.0	5,760.4	5,686.9	16.0	16.2	-100.72	-725.9	154.8	485.6	455.5	30.17	16.097	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	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	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
5,890.0	5,825.2	5,854.6	5,779.0	16.4	16.6	-100.74	-745.1	158.4	498.0	467.1	30.88	16.128	
5,985.0	5,918.5	5,948.8	5,871.2	16.7	16.9	-100.76	-764.4	161.9	510.4	478.8	31.59	16.157	
6,080.0	6,011.7	6,042.9	5,963.3	17.1	17.2	-100.77	-783.7	165.5	522.9	490.5	32.31	16.184	
6,175.0	6,105.0	6,140.0	6,058.3	17.4	17.6	-100.81	-803.3	169.1	535.2	502.1	33.04	16.198	
6,270.0	6,198.2	6,243.0	6,159.6	17.7	18.0	-101.12	-821.4	172.4	546.3	512.5	33.81	16.160	
6,365.0	6,291.5	6,346.0	6,261.5	18.1	18.5	-101.75	-835.9	175.1	556.0	521.4	34.57	16.083	
6,460.0	6,384.8	6,448.8	6,363.7	18.4	19.0	-102.71	-846.7	177.1	564.3	529.0	35.33	15.974	
6,555.0	6,478.0	6,551.1	6,465.8	18.8	19.4	-103.96	-853.9	178.4	571.4	535.3	36.07	15.840	
6,650.0	6,571.2	6,652.7	6,567.3	19.1	19.8	-105.50	-857.5	179.1	577.5	540.7	36.79	15.695	
6,745.0	6,664.8	6,750.3	6,664.9	19.5	20.1	-107.17	-858.0	179.2	582.4	544.9	37.48	15.540	
6,840.0	6,758.8	6,844.3	6,758.9	19.9	20.4	-108.50	-858.0	179.2	586.5	548.4	38.15	15.376	
6,935.0	6,853.3	6,938.8	6,853.4	20.3	20.6	-109.51	-858.0	179.2	589.9	551.1	38.82	15.196	
7,030.0	6,948.0	7,033.5	6,948.1	20.8	20.9	-110.21	-858.0	179.2	592.4	552.9	39.48	15.003	
7,125.0	7,042.9	7,128.4	7,043.0	21.1	21.2	-110.61	-858.0	179.2	593.8	553.7	40.12	14.800	
7,220.0	7,137.9	7,223.4	7,138.0	21.4	21.5	-96.85	-858.0	179.2	594.1	553.4	40.70	14.599	
7,315.0	7,232.9	7,318.4	7,233.0	21.7	21.7	-96.85	-858.0	179.2	594.1	552.9	41.25	14.402	
7,410.0	7,327.9	7,413.4	7,328.0	22.0	22.0	-96.85	-858.0	179.2	594.1	552.3	41.82	14.208	
7,505.0	7,422.9	7,508.4	7,423.0	22.3	22.3	-96.85	-858.0	179.2	594.1	551.8	42.38	14.018	
7,600.0	7,517.9	7,603.4	7,518.0	22.5	22.6	-96.85	-858.0	179.2	594.1	551.2	42.95	13.833	
7,695.0	7,612.9	7,698.4	7,613.0	22.8	22.8	-96.85	-858.0	179.2	594.1	550.6	43.53	13.650	
7,790.0	7,707.9	7,793.4	7,708.0	23.1	23.1	-96.85	-858.0	179.2	594.1	550.0	44.10	13.472	
7,885.0	7,802.9	7,888.4	7,803.0	23.4	23.4	-96.85	-858.0	179.2	594.1	549.5	44.68	13.298	
7,980.0	7,897.9	7,983.4	7,898.0	23.7	23.7	-96.85	-858.0	179.2	594.1	548.9	45.26	13.127	
8,075.0	7,992.9	8,078.4	7,993.0	24.0	24.0	-96.85	-858.0	179.2	594.1	548.3	45.85	12.959	
8,170.0	8,087.9	8,173.4	8,088.0	24.2	24.3	-96.85	-858.0	179.2	594.1	547.7	46.43	12.796	
8,265.0	8,182.9	8,268.4	8,183.0	24.5	24.6	-96.85	-858.0	179.2	594.1	547.1	47.02	12.635	
8,360.0	8,277.9	8,363.4	8,278.0	24.8	24.8	-96.85	-858.0	179.2	594.1	546.5	47.62	12.478	
8,455.0	8,372.9	8,458.4	8,373.0	25.1	25.1	-96.85	-858.0	179.2	594.1	545.9	48.21	12.324	
8,550.0	8,467.9	8,553.4	8,468.0	25.4	25.4	-96.85	-858.0	179.2	594.1	545.3	48.81	12.174	
8,645.0	8,562.9	8,648.4	8,563.0	25.7	25.7	-96.85	-858.0	179.2	594.1	544.7	49.40	12.026	
8,740.0	8,657.9	8,743.4	8,658.0	26.0	26.0	-96.85	-858.0	179.2	594.1	544.1	50.01	11.882	
8,835.0	8,752.9	8,838.4	8,753.0	26.3	26.3	-96.85	-858.0	179.2	594.1	543.5	50.61	11.740	
8,930.0	8,847.9	8,933.4	8,848.0	26.6	26.6	-96.85	-858.0	179.2	594.1	542.9	51.21	11.601	
9,025.0	8,942.9	9,028.4	8,943.0	26.9	26.9	-96.85	-858.0	179.2	594.1	542.3	51.82	11.466	
9,120.0	9,037.9	9,123.4	9,038.0	27.2	27.2	-96.85	-858.0	179.2	594.1	541.7	52.43	11.332	
9,215.0	9,132.9	9,218.4	9,133.0	27.5	27.5	-96.85	-858.0	179.2	594.1	541.1	53.04	11.202	
9,310.0	9,227.9	9,313.4	9,228.0	27.8	27.8	-96.85	-858.0	179.2	594.1	540.5	53.65	11.074	
9,405.0	9,322.9	9,408.4	9,323.0	28.1	28.1	-96.85	-858.0	179.2	594.1	539.9	54.26	10.949	
9,500.0	9,417.9	9,503.4	9,418.0	28.4	28.4	-96.85	-858.0	179.2	594.1	539.3	54.88	10.826	
9,595.0	9,512.9	9,598.4	9,513.0	28.7	28.7	-96.85	-858.0	179.2	594.1	538.6	55.50	10.706	
9,690.0	9,607.9	9,693.4	9,608.0	29.0	29.0	-96.85	-858.0	179.2	594.1	538.0	56.11	10.588	
9,785.0	9,702.9	9,788.4	9,703.0	29.3	29.3	-96.85	-858.0	179.2	594.1	537.4	56.73	10.472	
9,880.0	9,797.9	9,883.4	9,798.0	29.6	29.6	-96.85	-858.0	179.2	594.1	536.8	57.36	10.359	
9,975.0	9,892.9	9,978.4	9,893.0	29.9	30.0	-96.85	-858.0	179.2	594.1	536.2	57.98	10.248	
10,070.0	9,987.9	10,073.4	9,988.0	30.2	30.3	-96.85	-858.0	179.2	594.1	535.5	58.60	10.139	
10,165.0	10,082.9	10,168.4	10,083.0	30.5	30.6	-96.85	-858.0	179.2	594.1	534.9	59.23	10.032	
10,260.0	10,177.9	10,263.4	10,178.0	30.9	30.9	-96.85	-858.0	179.2	594.1	534.3	59.85	9.927	
10,355.0	10,272.9	10,358.4	10,273.0	31.2	31.2	-96.85	-858.0	179.2	594.1	533.7	60.48	9.824	
10,450.0	10,367.9	10,453.4	10,368.0	31.5	31.5	-96.85	-858.0	179.2	594.1	533.0	61.11	9.723	
10,545.0	10,462.9	10,548.4	10,463.0	31.8	31.8	-96.85	-858.0	179.2	594.1	532.4	61.74	9.624	
10,640.0	10,557.9	10,643.4	10,558.0	32.1	32.1	-96.85	-858.0	179.2	594.1	531.8	62.37	9.526	
10,735.0	10,652.9	10,738.4	10,653.0	32.4	32.4	-96.85	-858.0	179.2	594.1	531.1	63.00	9.431	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	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)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,830.0	10,747.9	10,833.4	10,748.0	32.7	32.8	96.85	-858.0	179.2	594.1	530.5	63.63	9.337		
10,925.0	10,842.9	10,928.4	10,843.0	33.0	33.1	96.85	-858.0	179.2	594.1	529.9	64.27	9.245		
11,020.0	10,937.9	11,023.4	10,938.0	33.3	33.4	96.85	-858.0	179.2	594.1	529.2	64.90	9.154		
11,115.0	11,032.9	11,118.4	11,033.0	33.7	33.7	96.85	-858.0	179.2	594.1	528.6	65.54	9.066		
11,210.0	11,127.9	11,213.4	11,128.0	34.0	34.0	96.85	-858.0	179.2	594.1	528.0	66.17	8.978		
11,305.0	11,222.9	11,308.4	11,223.0	34.3	34.3	96.85	-858.0	179.2	594.1	527.3	66.81	8.893		
11,400.0	11,317.9	11,403.4	11,318.0	34.6	34.7	96.85	-858.0	179.2	594.1	526.7	67.45	8.809		
11,495.0	11,412.9	11,498.4	11,413.0	34.9	35.0	96.85	-858.0	179.2	594.1	526.1	68.09	8.726		
11,590.0	11,507.9	11,593.4	11,508.0	35.2	35.3	96.85	-858.0	179.2	594.1	525.4	68.73	8.645		
11,685.0	11,602.9	11,688.4	11,603.0	35.6	35.6	96.85	-858.0	179.2	594.1	524.8	69.37	8.565		
11,780.0	11,697.9	11,783.4	11,698.0	35.9	35.9	96.85	-858.0	179.2	594.1	524.1	70.01	8.486		
11,875.0	11,792.9	11,878.4	11,793.0	36.2	36.2	96.85	-858.0	179.2	594.1	523.5	70.65	8.409		
11,970.0	11,887.9	11,973.4	11,888.0	36.5	36.6	96.85	-858.0	179.2	594.1	522.8	71.30	8.333		
12,065.0	11,982.9	12,068.4	11,983.0	36.8	36.9	96.85	-858.0	179.2	594.1	522.2	71.94	8.259		
12,160.0	12,077.9	12,163.4	12,078.0	37.1	37.2	96.85	-858.0	179.2	594.1	521.6	72.58	8.186		
12,167.8	12,085.7	12,171.2	12,085.8	37.2	37.2	96.85	-858.0	179.2	594.1	521.5	72.64	8.180		
12,255.0	12,172.9	12,255.8	12,170.3	37.5	37.4	96.88	-858.3	179.2	594.2	521.1	73.09	8.129		
12,350.0	12,267.9	12,336.4	12,250.3	37.8	37.4	97.80	-867.9	179.3	595.7	522.4	73.37	8.119		
12,445.0	12,362.9	12,411.8	12,322.7	38.1	37.5	99.79	-888.9	179.4	600.2	526.6	73.59	8.156		
12,540.0	12,457.7	12,480.7	12,385.1	38.3	37.5	-81.38	-917.8	179.7	608.4	534.9	73.54	8.273		
12,635.0	12,550.0	12,550.0	12,443.1	38.3	37.5	-78.07	-955.7	180.0	618.8	545.5	73.33	8.439		
12,730.0	12,636.0	12,611.8	12,489.7	38.3	37.6	-75.29	-996.2	180.3	630.2	557.1	73.04	8.628		
12,825.0	12,712.6	12,675.0	12,531.5	38.4	37.6	-72.90	-1,043.5	180.7	641.6	568.8	72.77	8.816		
12,920.0	12,776.5	12,738.0	12,566.6	38.4	37.7	-71.02	-1,095.7	181.1	652.1	579.6	72.56	8.988		
13,015.0	12,825.3	12,800.0	12,594.2	38.5	37.7	-69.71	-1,151.2	181.6	661.3	588.8	72.46	9.127		
13,110.0	12,857.2	12,862.2	12,614.4	38.6	37.8	-68.99	-1,210.0	182.0	668.6	596.1	72.52	9.219		
13,205.0	12,870.7	12,925.0	12,626.9	38.6	37.8	-68.85	-1,271.5	182.5	673.8	601.0	72.79	9.257		
13,300.0	12,869.6	12,986.9	12,631.2	38.7	37.8	-69.30	-1,333.3	183.0	677.7	604.6	73.18	9.262		
13,395.0	12,867.5	13,074.2	12,629.0	38.9	37.9	-69.47	-1,420.5	183.7	681.7	608.2	73.53	9.271		
13,490.0	12,865.3	13,169.2	12,626.4	39.0	38.0	-69.50	-1,515.4	184.5	682.9	609.1	73.87	9.245		
13,585.0	12,863.2	13,264.2	12,623.8	39.2	38.1	-69.46	-1,610.4	185.2	683.1	608.9	74.22	9.204		
13,680.0	12,861.1	13,359.2	12,621.1	39.3	38.2	-69.42	-1,705.3	186.0	683.3	608.7	74.58	9.161		
13,775.0	12,859.0	13,454.2	12,618.5	39.5	38.3	-69.38	-1,800.3	186.8	683.5	608.5	74.98	9.116		
13,870.0	12,856.9	13,549.2	12,615.9	39.7	38.4	-69.34	-1,895.3	187.5	683.7	608.3	75.40	9.067		
13,965.0	12,854.8	13,644.2	12,613.3	39.9	38.6	-69.30	-1,990.2	188.3	683.8	608.0	75.85	9.016		
14,060.0	12,852.6	13,739.2	12,610.7	40.2	38.8	-69.27	-2,085.2	189.1	684.0	607.7	76.32	8.963		
14,155.0	12,850.5	13,834.2	12,608.0	40.4	39.0	-69.23	-2,180.1	189.8	684.2	607.4	76.81	8.907		
14,250.0	12,848.4	13,929.2	12,605.4	40.7	39.3	-69.19	-2,275.1	190.6	684.4	607.0	77.33	8.850		
14,345.0	12,846.3	14,024.2	12,602.8	41.0	39.5	-69.15	-2,370.1	191.3	684.6	606.7	77.88	8.790		
14,440.0	12,844.2	14,119.2	12,600.2	41.2	39.8	-69.11	-2,465.0	192.1	684.7	606.3	78.44	8.729		
14,535.0	12,842.1	14,214.2	12,597.5	41.5	40.1	-69.07	-2,560.0	192.9	684.9	605.9	79.03	8.667		
14,630.0	12,839.9	14,309.2	12,594.9	41.8	40.4	-69.03	-2,654.9	193.6	685.1	605.5	79.64	8.602		
14,725.0	12,837.8	14,404.1	12,592.3	42.2	40.7	-68.99	-2,749.9	194.4	685.3	605.0	80.27	8.537		
14,820.0	12,835.7	14,499.1	12,589.7	42.5	41.0	-68.95	-2,844.8	195.2	685.5	604.6	80.93	8.470		
14,915.0	12,833.6	14,594.1	12,587.1	42.8	41.4	-68.91	-2,939.8	195.9	685.7	604.1	81.60	8.403		
15,010.0	12,831.5	14,689.1	12,584.4	43.2	41.7	-68.87	-3,034.8	196.7	685.8	603.6	82.30	8.334		
15,105.0	12,829.4	14,784.1	12,581.8	43.5	42.1	-68.83	-3,129.7	197.4	686.0	603.0	83.01	8.264		
15,200.0	12,827.2	14,879.1	12,579.2	43.9	42.4	-68.79	-3,224.7	198.2	686.2	602.5	83.74	8.194		
15,295.0	12,825.1	14,974.1	12,576.6	44.3	42.8	-68.75	-3,319.6	199.0	686.4	601.9	84.50	8.124		
15,390.0	12,823.0	15,069.1	12,573.9	44.7	43.2	-68.71	-3,414.6	199.7	686.6	601.3	85.27	8.052		
15,485.0	12,820.9	15,164.1	12,571.3	45.0	43.6	-68.67	-3,509.6	200.5	686.8	600.7	86.05	7.981		
15,580.0	12,818.8	15,259.1	12,568.7	45.4	44.0	-68.64	-3,604.5	201.3	687.0	600.1	86.86	7.909		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	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								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	
15,675.0	12,816.7	15,354.1	12,566.1	45.9	44.4	-68.60	-3,699.5	202.0	687.2	599.5	87.68	7.837		
15,770.0	12,814.5	15,449.1	12,563.5	46.3	44.8	-68.56	-3,794.4	202.8	687.3	598.8	88.52	7.765		
15,865.0	12,812.4	15,544.1	12,560.8	46.7	45.3	-68.52	-3,889.4	203.5	687.5	598.2	89.37	7.693		
15,960.0	12,810.3	15,639.1	12,558.2	47.1	45.7	-68.48	-3,984.4	204.3	687.7	597.5	90.24	7.621		
16,055.0	12,808.2	15,734.1	12,555.6	47.6	46.1	-68.44	-4,079.3	205.1	687.9	596.8	91.12	7.549		
16,150.0	12,806.1	15,829.1	12,553.0	48.0	46.6	-68.40	-4,174.3	205.8	688.1	596.1	92.02	7.477		
16,245.0	12,804.0	15,924.1	12,550.3	48.5	47.1	-68.36	-4,269.2	206.6	688.3	595.3	92.93	7.406		
16,340.0	12,801.8	16,019.1	12,547.7	48.9	47.5	-68.32	-4,364.2	207.4	688.5	594.6	93.86	7.335		
16,435.0	12,799.7	16,114.1	12,545.1	49.4	48.0	-68.28	-4,459.2	208.1	688.7	593.9	94.80	7.264		
16,530.0	12,797.6	16,209.1	12,542.5	49.9	48.5	-68.24	-4,554.1	208.9	688.8	593.1	95.75	7.194		
16,625.0	12,795.5	16,304.1	12,539.9	50.3	49.0	-68.21	-4,649.1	209.6	689.0	592.3	96.71	7.124		
16,720.0	12,793.4	16,399.1	12,537.2	50.8	49.4	-68.17	-4,744.0	210.4	689.2	591.5	97.69	7.055		
16,815.0	12,791.2	16,494.1	12,534.6	51.3	49.9	-68.13	-4,839.0	211.2	689.4	590.7	98.68	6.987		
16,910.0	12,789.1	16,589.1	12,532.0	51.8	50.4	-68.09	-4,934.0	211.9	689.6	589.9	99.68	6.918		
17,005.0	12,787.0	16,684.1	12,529.4	52.3	51.0	-68.05	-5,028.9	212.7	689.8	589.1	100.69	6.851		
17,100.0	12,784.9	16,779.1	12,526.7	52.8	51.5	-68.01	-5,123.9	213.5	690.0	588.3	101.71	6.784		
17,195.0	12,782.8	16,874.1	12,524.1	53.3	52.0	-67.97	-5,218.8	214.2	690.2	587.4	102.74	6.718		
17,290.0	12,780.7	16,969.1	12,521.5	53.8	52.5	-67.93	-5,313.8	215.0	690.4	586.6	103.78	6.652		
17,385.0	12,778.5	17,064.1	12,518.9	54.4	53.0	-67.90	-5,408.8	215.8	690.6	585.7	104.84	6.587		
17,480.0	12,776.4	17,159.1	12,516.3	54.9	53.6	-67.86	-5,503.7	216.5	690.8	584.9	105.90	6.523		
17,575.0	12,774.3	17,254.1	12,513.6	55.4	54.1	-67.82	-5,598.7	217.3	691.0	584.0	106.97	6.460		
17,670.0	12,772.2	17,349.1	12,511.0	55.9	54.6	-67.78	-5,693.6	218.0	691.2	583.1	108.05	6.397		
17,765.0	12,770.1	17,444.1	12,508.4	56.5	55.2	-67.74	-5,788.6	218.8	691.3	582.2	109.13	6.335		
17,860.0	12,768.0	17,539.1	12,505.8	57.0	55.7	-67.70	-5,883.5	219.6	691.5	581.3	110.23	6.274		
17,955.0	12,765.8	17,634.1	12,503.1	57.6	56.3	-67.66	-5,978.5	220.3	691.7	580.4	111.34	6.213		
18,050.0	12,763.7	17,729.1	12,500.5	58.1	56.8	-67.62	-6,073.5	221.1	691.9	579.5	112.45	6.153		
18,145.0	12,761.6	17,824.1	12,497.9	58.7	57.4	-67.59	-6,168.4	221.9	692.1	578.6	113.57	6.094		
18,240.0	12,759.5	17,919.1	12,495.3	59.2	58.0	-67.55	-6,263.4	222.6	692.3	577.6	114.70	6.036		
18,335.0	12,757.4	18,014.1	12,492.7	59.8	58.5	-67.51	-6,358.3	223.4	692.5	576.7	115.83	5.979		
18,430.0	12,755.3	18,109.1	12,490.0	60.4	59.1	-67.47	-6,453.3	224.1	692.7	575.7	116.97	5.922		
18,525.0	12,753.1	18,204.1	12,487.4	60.9	59.7	-67.43	-6,548.3	224.9	692.9	574.8	118.12	5.866		
18,620.0	12,751.0	18,299.1	12,484.8	61.5	60.3	-67.39	-6,643.2	225.7	693.1	573.8	119.28	5.811		
18,715.0	12,748.9	18,394.1	12,482.2	62.1	60.8	-67.35	-6,738.2	226.4	693.3	572.9	120.44	5.756		
18,810.0	12,746.8	18,489.1	12,479.5	62.7	61.4	-67.32	-6,833.1	227.2	693.5	571.9	121.61	5.703		
18,905.0	12,744.7	18,584.1	12,476.9	63.2	62.0	-67.28	-6,928.1	228.0	693.7	570.9	122.78	5.650		
19,000.0	12,742.6	18,679.1	12,474.3	63.8	62.6	-67.24	-7,023.1	228.7	693.9	569.9	123.96	5.598		
19,095.0	12,740.4	18,774.1	12,471.7	64.4	63.2	-67.20	-7,118.0	229.5	694.1	568.9	125.15	5.546		
19,190.0	12,738.3	18,869.1	12,469.1	65.0	63.8	-67.16	-7,213.0	230.2	694.3	568.0	126.34	5.495		
19,285.0	12,736.2	18,964.1	12,466.4	65.6	64.4	-67.12	-7,307.9	231.0	694.5	567.0	127.54	5.445		
19,380.0	12,734.1	19,059.1	12,463.8	66.2	65.0	-67.09	-7,402.9	231.8	694.7	566.0	128.74	5.396		
19,475.0	12,732.0	19,154.1	12,461.2	66.8	65.6	-67.05	-7,497.9	232.5	694.9	564.9	129.95	5.347		
19,570.0	12,729.9	19,249.1	12,458.6	67.4	66.2	-67.01	-7,592.8	233.3	695.1	563.9	131.16	5.299		
19,665.0	12,727.7	19,344.1	12,455.9	68.0	66.8	-66.97	-7,687.8	234.1	695.3	562.9	132.38	5.252		
19,760.0	12,725.6	19,439.1	12,453.3	68.6	67.4	-66.93	-7,782.7	234.8	695.5	561.9	133.60	5.206		
19,855.0	12,723.5	19,534.1	12,450.7	69.2	68.0	-66.89	-7,877.7	235.6	695.7	560.9	134.83	5.160		
19,950.0	12,721.4	19,629.1	12,448.1	69.8	68.6	-66.86	-7,972.7	236.3	695.9	559.8	136.06	5.115		
20,045.0	12,719.3	19,724.1	12,445.5	70.4	69.3	-66.82	-8,067.6	237.1	696.1	558.8	137.30	5.070		
20,140.0	12,717.2	19,819.1	12,442.8	71.0	69.9	-66.78	-8,162.6	237.9	696.3	557.8	138.54	5.026		
20,235.0	12,715.0	19,914.1	12,440.2	71.6	70.5	-66.74	-8,257.5	238.6	696.5	556.7	139.78	4.983		
20,330.0	12,712.9	20,009.1	12,437.6	72.3	71.1	-66.70	-8,352.5	239.4	696.7	555.7	141.03	4.940		
20,425.0	12,710.8	20,104.1	12,435.0	72.9	71.8	-66.67	-8,447.5	240.2	696.9	554.6	142.28	4.898		
20,520.0	12,708.7	20,199.1	12,432.3	73.5	72.4	-66.63	-8,542.4	240.9	697.1	553.6	143.54	4.857		

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	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		Highside		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	
20,595.7	12,707.0	20,274.7	12,430.3	74.0	72.9	-66.60	-8,618.1	241.5	697.3	552.7	144.54	4.824		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	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								Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	3.0	-55.12	16.8	-24.1	29.4				
95.0	95.0	94.1	94.1	3.0	3.0	3.0	-55.12	16.8	-24.1	29.4	23.4	6.00	4.896	
190.0	190.0	189.1	189.1	3.0	3.0	3.0	-55.12	16.8	-24.1	29.4	23.4	6.00	4.893	
285.0	285.0	284.1	284.1	3.0	3.0	3.0	-55.12	16.8	-24.1	29.4	23.4	6.01	4.885	
380.0	380.0	379.1	379.1	3.0	3.0	3.0	-55.12	16.8	-24.1	29.4	23.3	6.03	4.872	
475.0	475.0	474.1	474.1	3.0	3.0	3.0	-55.12	16.8	-24.1	29.4	23.3	6.05	4.856	
570.0	570.0	569.1	569.1	3.1	3.1	3.1	-55.12	16.8	-24.1	29.4	23.3	6.08	4.835	
665.0	665.0	664.1	664.1	3.1	3.1	3.1	-55.12	16.8	-24.1	29.4	23.3	6.11	4.811	
760.0	760.0	759.1	759.1	3.1	3.1	3.1	-55.12	16.8	-24.1	29.4	23.2	6.14	4.783	
855.0	855.0	854.1	854.1	3.2	3.2	3.2	-55.12	16.8	-24.1	29.4	23.2	6.18	4.751	
950.0	950.0	949.1	949.1	3.2	3.2	3.2	-55.12	16.8	-24.1	29.4	23.1	6.23	4.716	
1,045.0	1,045.0	1,044.1	1,044.1	3.3	3.3	3.3	-55.12	16.8	-24.1	29.4	23.1	6.28	4.678	
1,140.0	1,140.0	1,139.1	1,139.1	3.3	3.3	3.3	-55.12	16.8	-24.1	29.4	23.0	6.34	4.637	
1,235.0	1,235.0	1,234.1	1,234.1	3.4	3.4	3.4	-55.12	16.8	-24.1	29.4	23.0	6.40	4.593	
1,330.0	1,330.0	1,329.1	1,329.1	3.4	3.4	3.4	-55.12	16.8	-24.1	29.4	22.9	6.46	4.548	
1,425.0	1,425.0	1,424.1	1,424.1	3.5	3.5	3.5	-55.12	16.8	-24.1	29.4	22.8	6.53	4.500	
1,520.0	1,520.0	1,519.1	1,519.1	3.6	3.6	3.6	-55.12	16.8	-24.1	29.4	22.8	6.60	4.450	
1,615.0	1,615.0	1,614.1	1,614.1	3.6	3.6	3.6	-55.12	16.8	-24.1	29.4	22.7	6.68	4.398	
1,710.0	1,710.0	1,709.1	1,709.1	3.7	3.7	3.7	-55.12	16.8	-24.1	29.4	22.6	6.76	4.346	
1,805.0	1,805.0	1,804.1	1,804.1	3.8	3.8	3.8	-55.12	16.8	-24.1	29.4	22.5	6.84	4.292	
1,900.0	1,900.0	1,899.1	1,899.1	3.9	3.9	3.9	-55.12	16.8	-24.1	29.4	22.4	6.93	4.237	
1,995.0	1,995.0	1,994.1	1,994.1	3.9	3.9	3.9	-55.12	16.8	-24.1	29.4	22.4	7.02	4.182 CC, ES, SF	
2,090.0	2,090.0	2,088.8	2,088.8	4.1	4.0	4.0	97.46	15.9	-25.2	30.0	22.8	7.15	4.189	
2,185.0	2,184.9	2,183.5	2,183.4	4.6	4.4	4.4	97.76	13.1	-28.7	31.8	24.4	7.40	4.297	
2,280.0	2,279.6	2,278.2	2,277.7	5.2	4.9	4.9	98.16	8.4	-34.6	35.0	27.3	7.70	4.541	
2,375.0	2,373.9	2,372.8	2,371.7	5.7	5.5	5.5	98.59	1.7	-43.0	39.4	31.4	8.05	4.900	
2,470.0	2,467.9	2,467.2	2,465.2	6.2	6.1	6.1	98.99	-6.9	-53.8	45.2	36.7	8.42	5.361	
2,565.0	2,561.4	2,561.6	2,558.0	6.5	6.6	6.6	99.32	-17.4	-67.0	52.2	43.3	8.84	5.905	
2,660.0	2,654.6	2,656.1	2,650.5	6.7	7.0	7.0	98.33	-29.5	-82.1	60.0	50.7	9.32	6.435	
2,755.0	2,747.9	2,750.7	2,743.1	6.8	7.2	7.2	97.35	-41.8	-97.5	67.9	58.1	9.83	6.910	
2,850.0	2,841.1	2,845.4	2,835.6	7.0	7.3	7.3	96.58	-54.1	-112.9	75.9	65.5	10.35	7.329	
2,945.0	2,934.4	2,940.1	2,928.2	7.2	7.5	7.5	95.96	-66.4	-128.3	83.8	72.9	10.89	7.694	
3,040.0	3,027.6	3,034.7	3,020.8	7.4	7.7	7.7	95.44	-78.6	-143.7	91.7	80.3	11.45	8.011	
3,135.0	3,120.9	3,129.4	3,113.4	7.6	7.9	7.9	95.00	-90.9	-159.1	99.7	87.7	12.03	8.287	
3,230.0	3,214.1	3,224.0	3,206.0	7.8	8.1	8.1	94.63	-103.2	-174.5	107.7	95.0	12.62	8.528	
3,325.0	3,307.4	3,318.7	3,298.6	8.1	8.4	8.4	94.31	-115.5	-189.8	115.6	102.4	13.23	8.739	
3,420.0	3,400.6	3,413.4	3,391.2	8.3	8.6	8.6	94.03	-127.7	-205.2	123.6	109.7	13.85	8.924	
3,515.0	3,493.9	3,508.0	3,483.8	8.6	8.9	8.9	93.79	-140.0	-220.6	131.6	117.1	14.48	9.087	
3,610.0	3,587.1	3,602.7	3,576.4	8.8	9.1	9.1	93.57	-152.3	-236.0	139.5	124.4	15.12	9.232	
3,705.0	3,680.4	3,697.4	3,669.0	9.1	9.4	9.4	93.38	-164.6	-251.4	147.5	131.8	15.76	9.359	
3,800.0	3,773.6	3,792.0	3,761.6	9.4	9.6	9.6	93.21	-176.9	-266.8	155.5	139.1	16.41	9.473	
3,895.0	3,866.9	3,886.7	3,854.2	9.7	9.9	9.9	93.05	-189.1	-282.2	163.5	146.4	17.07	9.575	
3,990.0	3,960.2	3,981.3	3,946.8	9.9	10.2	10.2	92.91	-201.4	-297.5	171.4	153.7	17.74	9.666	
4,085.0	4,053.4	4,076.0	4,039.4	10.2	10.5	10.5	92.78	-213.7	-312.9	179.4	161.0	18.41	9.747	
4,180.0	4,146.7	4,170.7	4,132.0	10.5	10.8	10.8	92.66	-226.0	-328.3	187.4	168.3	19.08	9.821	
4,275.0	4,239.9	4,265.3	4,224.6	10.8	11.1	11.1	92.55	-238.3	-343.7	195.4	175.6	19.76	9.888	
4,370.0	4,333.2	4,360.0	4,317.2	11.1	11.4	11.4	92.45	-250.5	-359.1	203.4	182.9	20.44	9.948	
4,465.0	4,426.4	4,454.7	4,409.7	11.5	11.7	11.7	92.36	-262.8	-374.5	211.3	190.2	21.13	10.003	
4,560.0	4,519.7	4,549.3	4,502.3	11.8	12.0	12.0	92.27	-275.1	-389.9	219.3	197.5	21.82	10.054	
4,655.0	4,612.9	4,644.0	4,594.9	12.1	12.3	12.3	92.19	-287.4	-405.2	227.3	204.8	22.51	10.099	
4,750.0	4,706.2	4,738.7	4,687.5	12.4	12.6	12.6	92.12	-299.6	-420.6	235.3	212.1	23.20	10.141	
4,845.0	4,799.4	4,833.3	4,780.1	12.7	12.9	12.9	92.05	-311.9	-436.0	243.3	219.4	23.90	10.180	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	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
4,940.0	4,892.7	4,928.0	4,872.7	13.0	13.3	91.98	-324.2	-451.4	251.3	226.7	24.60	10.216	
5,035.0	4,985.9	5,022.6	4,965.3	13.4	13.6	91.92	-336.5	-466.8	259.2	233.9	25.30	10.248	
5,130.0	5,079.2	5,117.3	5,057.9	13.7	13.9	91.87	-348.8	-482.2	267.2	241.2	26.00	10.279	
5,225.0	5,172.5	5,212.0	5,150.5	14.0	14.2	91.81	-361.0	-497.6	275.2	248.5	26.70	10.307	
5,320.0	5,265.7	5,306.6	5,243.1	14.4	14.6	91.76	-373.3	-512.9	283.2	255.8	27.41	10.333	
5,415.0	5,359.0	5,401.3	5,335.7	14.7	14.9	91.71	-385.6	-528.3	291.2	263.1	28.12	10.357	
5,510.0	5,452.2	5,496.0	5,428.3	15.0	15.2	91.67	-397.9	-543.7	299.2	270.3	28.82	10.379	
5,605.0	5,545.5	5,590.6	5,520.9	15.4	15.6	91.62	-410.1	-559.1	307.2	277.6	29.53	10.400	
5,700.0	5,638.7	5,685.3	5,613.5	15.7	15.9	91.58	-422.4	-574.5	315.1	284.9	30.24	10.420	
5,795.0	5,732.0	5,780.0	5,706.1	16.0	16.3	91.54	-434.7	-589.9	323.1	292.2	30.96	10.438	
5,890.0	5,825.2	5,874.6	5,798.7	16.4	16.6	91.51	-447.0	-605.3	331.1	299.4	31.67	10.456	
5,985.0	5,918.5	5,969.3	5,891.3	16.7	16.9	91.47	-459.3	-620.6	339.1	306.7	32.38	10.472	
6,080.0	6,011.7	6,063.9	5,983.9	17.1	17.3	91.44	-471.5	-636.0	347.1	314.0	33.10	10.487	
6,175.0	6,105.0	6,158.6	6,076.4	17.4	17.6	91.40	-483.8	-651.4	355.1	321.3	33.81	10.501	
6,270.0	6,198.2	6,253.3	6,169.0	17.7	18.0	91.37	-496.1	-666.8	363.1	328.5	34.53	10.514	
6,365.0	6,291.5	6,347.9	6,261.6	18.1	18.3	91.34	-508.4	-682.2	371.0	335.8	35.25	10.527	
6,460.0	6,384.8	6,442.6	6,354.2	18.4	18.7	91.32	-520.7	-697.6	379.0	343.1	35.96	10.539	
6,555.0	6,478.0	6,537.3	6,446.8	18.8	19.0	91.29	-532.9	-713.0	387.0	350.3	36.68	10.550	
6,650.0	6,571.2	6,631.9	6,539.4	19.1	19.4	91.26	-545.2	-728.3	395.0	357.6	37.40	10.562	
6,745.0	6,664.8	6,726.6	6,632.0	19.5	19.7	91.17	-557.5	-743.7	403.0	364.8	38.12	10.572	
6,840.0	6,758.8	6,821.1	6,724.5	19.9	20.1	90.65	-569.7	-759.1	410.9	372.0	38.85	10.576	
6,935.0	6,853.3	6,915.4	6,816.7	20.3	20.4	89.73	-582.0	-774.4	418.9	379.3	39.60	10.578	
7,030.0	6,948.0	7,009.5	6,908.7	20.8	20.8	88.44	-594.2	-789.7	427.1	386.7	40.35	10.584	
7,125.0	7,042.9	7,103.1	7,000.3	21.1	21.1	86.81	-606.3	-804.9	435.8	394.6	41.11	10.599	
7,220.0	7,137.9	7,196.2	7,091.3	21.4	21.4	-67.60	-618.4	-820.1	445.1	403.2	41.85	10.635	
7,315.0	7,232.9	7,289.1	7,182.2	21.7	21.8	-69.74	-630.4	-835.2	455.2	412.6	42.57	10.692	
7,410.0	7,327.9	7,382.0	7,273.1	22.0	22.1	-71.79	-642.5	-850.3	465.9	422.6	43.29	10.762	
7,505.0	7,422.9	7,475.0	7,364.0	22.3	22.5	-73.75	-654.6	-865.4	477.1	433.1	44.00	10.845	
7,600.0	7,517.9	7,567.9	7,454.9	22.5	22.8	-75.61	-666.6	-880.5	488.9	444.2	44.70	10.937	
7,695.0	7,612.9	7,660.8	7,545.8	22.8	23.2	-77.39	-678.7	-895.6	501.2	455.8	45.40	11.039	
7,790.0	7,707.9	7,753.7	7,636.7	23.1	23.5	-79.09	-690.7	-910.7	514.0	467.9	46.10	11.149	
7,885.0	7,802.9	7,846.6	7,727.6	23.4	23.9	-80.70	-702.8	-925.8	527.2	480.4	46.80	11.266	
7,980.0	7,897.9	7,939.6	7,818.5	23.7	24.2	-82.24	-714.8	-940.9	540.8	493.3	47.49	11.389	
8,075.0	7,992.9	8,032.5	7,909.4	24.0	24.6	-83.70	-726.9	-956.0	554.8	506.6	48.17	11.517	
8,170.0	8,087.9	8,125.4	8,000.3	24.2	24.9	-85.09	-738.9	-971.1	569.1	520.2	48.85	11.649	
8,265.0	8,182.9	8,218.3	8,091.2	24.5	25.3	-86.41	-751.0	-986.2	583.7	534.2	49.53	11.784	
8,360.0	8,277.9	8,311.3	8,182.0	24.8	25.6	-87.67	-763.0	-1,001.3	598.7	548.4	50.21	11.923	
8,455.0	8,372.9	8,404.2	8,272.9	25.1	26.0	-88.86	-775.1	-1,016.4	613.9	563.0	50.89	12.063	
8,550.0	8,467.9	8,497.1	8,363.8	25.4	26.4	-90.00	-787.1	-1,031.5	629.3	577.7	51.56	12.205	
8,645.0	8,562.9	8,590.0	8,454.7	25.7	26.7	-91.09	-799.2	-1,046.6	645.0	592.8	52.23	12.349	
8,740.0	8,657.9	8,683.0	8,545.6	26.0	27.1	-92.12	-811.2	-1,061.7	660.9	608.0	52.90	12.493	
8,835.0	8,752.9	8,775.9	8,636.5	26.3	27.4	-93.11	-823.3	-1,076.8	677.0	623.4	53.57	12.638	
8,930.0	8,847.9	8,884.5	8,742.9	26.6	27.8	-94.16	-836.7	-1,093.6	692.6	638.3	54.34	12.745	
9,025.0	8,942.9	9,002.1	8,859.1	26.9	28.3	-95.03	-848.5	-1,108.4	705.3	650.2	55.17	12.784	
9,120.0	9,037.9	9,121.2	8,977.3	27.2	28.8	-95.67	-857.5	-1,119.6	714.9	658.9	55.96	12.775	
9,215.0	9,132.9	9,241.3	9,096.9	27.5	29.3	-96.07	-863.3	-1,127.0	721.2	664.5	56.69	12.722	
9,310.0	9,227.9	9,361.9	9,217.5	27.8	29.8	-96.26	-866.1	-1,130.4	724.1	666.8	57.29	12.639	
9,405.0	9,322.9	9,466.4	9,322.0	28.1	30.1	-96.28	-866.3	-1,130.7	724.3	666.5	57.84	12.523	
9,500.0	9,417.9	9,561.4	9,417.0	28.4	30.3	-96.28	-866.3	-1,130.7	724.3	665.9	58.42	12.400	
9,595.0	9,512.9	9,656.4	9,512.0	28.7	30.6	-96.28	-866.3	-1,130.7	724.3	665.3	58.99	12.278	
9,690.0	9,607.9	9,751.4	9,607.0	29.0	30.9	-96.28	-866.3	-1,130.7	724.3	664.8	59.57	12.159	
9,785.0	9,702.9	9,846.4	9,702.0	29.3	31.2	-96.28	-866.3	-1,130.7	724.3	664.2	60.15	12.041	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	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								Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,880.0	9,797.9	9,941.4	9,797.0	29.6	31.4	-96.28	-866.3	-1,130.7	724.3	663.6	60.74	11.926		
9,975.0	9,892.9	10,036.4	9,892.0	29.9	31.7	-96.28	-866.3	-1,130.7	724.3	663.0	61.32	11.812		
10,070.0	9,987.9	10,131.4	9,987.0	30.2	32.0	-96.28	-866.3	-1,130.7	724.3	662.4	61.91	11.700		
10,165.0	10,082.9	10,226.4	10,082.0	30.5	32.3	-96.28	-866.3	-1,130.7	724.3	661.8	62.50	11.590		
10,260.0	10,177.9	10,321.4	10,177.0	30.9	32.6	-96.28	-866.3	-1,130.7	724.3	661.3	63.09	11.481		
10,355.0	10,272.9	10,416.4	10,272.0	31.2	32.8	-96.28	-866.3	-1,130.7	724.3	660.7	63.68	11.374		
10,450.0	10,367.9	10,511.4	10,367.0	31.5	33.1	-96.28	-866.3	-1,130.7	724.3	660.1	64.28	11.269		
10,545.0	10,462.9	10,606.4	10,462.0	31.8	33.4	-96.28	-866.3	-1,130.7	724.3	659.5	64.87	11.166		
10,640.0	10,557.9	10,701.4	10,557.0	32.1	33.7	-96.28	-866.3	-1,130.7	724.3	658.9	65.47	11.064		
10,735.0	10,652.9	10,796.4	10,652.0	32.4	34.0	-96.28	-866.3	-1,130.7	724.3	658.3	66.07	10.963		
10,830.0	10,747.9	10,891.4	10,747.0	32.7	34.3	-96.28	-866.3	-1,130.7	724.3	657.7	66.67	10.864		
10,925.0	10,842.9	10,986.4	10,842.0	33.0	34.6	-96.28	-866.3	-1,130.7	724.3	657.1	67.27	10.767		
11,020.0	10,937.9	11,081.4	10,937.0	33.3	34.9	-96.28	-866.3	-1,130.7	724.3	656.5	67.88	10.671		
11,115.0	11,032.9	11,176.4	11,032.0	33.7	35.1	-96.28	-866.3	-1,130.7	724.3	655.9	68.48	10.577		
11,210.0	11,127.9	11,271.4	11,127.0	34.0	35.4	-96.28	-866.3	-1,130.7	724.3	655.3	69.09	10.484		
11,305.0	11,222.9	11,366.4	11,222.0	34.3	35.7	-96.28	-866.3	-1,130.7	724.3	654.6	69.70	10.393		
11,400.0	11,317.9	11,461.4	11,317.0	34.6	36.0	-96.28	-866.3	-1,130.7	724.3	654.0	70.31	10.303		
11,495.0	11,412.9	11,556.4	11,412.0	34.9	36.3	-96.28	-866.3	-1,130.7	724.3	653.4	70.92	10.214		
11,590.0	11,507.9	11,651.4	11,507.0	35.2	36.6	-96.28	-866.3	-1,130.7	724.3	652.8	71.53	10.127		
11,685.0	11,602.9	11,746.4	11,602.0	35.6	36.9	-96.28	-866.3	-1,130.7	724.3	652.2	72.14	10.040		
11,780.0	11,697.9	11,841.4	11,697.0	35.9	37.2	-96.28	-866.3	-1,130.7	724.3	651.6	72.76	9.956		
11,875.0	11,792.9	11,936.4	11,792.0	36.2	37.5	-96.28	-866.3	-1,130.7	724.3	651.0	73.37	9.872		
11,970.0	11,887.9	12,031.4	11,887.0	36.5	37.8	-96.28	-866.3	-1,130.7	724.3	650.4	73.99	9.790		
12,065.0	11,982.9	12,126.4	11,982.0	36.8	38.1	-96.28	-866.3	-1,130.7	724.3	649.7	74.61	9.709		
12,160.0	12,077.9	12,221.4	12,077.0	37.1	38.4	-96.28	-866.3	-1,130.7	724.3	649.1	75.22	9.629		
12,168.7	12,086.6	12,230.1	12,085.7	37.2	38.4	-96.28	-866.3	-1,130.7	724.3	649.1	75.28	9.622		
12,255.0	12,172.9	12,308.0	12,163.5	37.5	38.5	-96.51	-869.2	-1,130.7	724.7	649.0	75.74	9.568		
12,350.0	12,267.9	12,387.1	12,241.0	37.8	38.6	-97.70	-884.4	-1,130.6	726.9	650.7	76.19	9.541		
12,445.0	12,362.9	12,459.4	12,308.8	38.1	38.6	-99.64	-909.4	-1,130.4	731.9	655.2	76.67	9.546		
12,540.0	12,457.7	12,525.0	12,366.4	38.3	38.6	73.21	-940.6	-1,130.1	739.9	663.0	76.97	9.613		
12,635.0	12,550.0	12,587.4	12,416.8	38.3	38.6	70.52	-977.4	-1,129.8	747.4	670.4	77.03	9.704		
12,730.0	12,636.0	12,650.0	12,462.1	38.3	38.7	68.33	-1,020.5	-1,129.5	753.3	676.4	76.99	9.785		
12,825.0	12,712.6	12,709.0	12,499.2	38.4	38.7	66.79	-1,066.3	-1,129.1	756.9	680.1	76.86	9.848		
12,920.0	12,776.5	12,768.5	12,530.7	38.4	38.8	65.84	-1,116.7	-1,128.7	757.7	681.0	76.69	9.879		
13,015.0	12,825.3	12,825.0	12,554.6	38.5	38.9	65.55	-1,167.9	-1,128.3	755.3	678.7	76.53	9.869		
13,110.0	12,857.2	12,886.4	12,573.5	38.6	38.9	65.88	-1,226.3	-1,127.8	749.6	673.1	76.47	9.803		
13,205.0	12,870.7	12,945.2	12,584.4	38.6	39.0	66.88	-1,284.0	-1,127.3	740.8	664.3	76.51	9.682		
13,300.0	12,869.6	13,004.4	12,588.1	38.7	39.1	67.48	-1,343.1	-1,126.9	731.5	654.8	76.67	9.541		
13,395.0	12,867.5	13,092.2	12,586.2	38.9	39.3	67.35	-1,430.8	-1,126.2	727.6	650.6	76.95	9.455		
13,487.4	12,865.4	13,184.5	12,583.9	39.0	39.4	67.27	-1,523.1	-1,125.4	726.4	649.1	77.28	9.400		
13,490.0	12,865.3	13,187.2	12,583.9	39.0	39.4	67.28	-1,525.8	-1,125.4	726.6	649.3	77.29	9.401		
13,585.0	12,863.2	13,282.2	12,581.6	39.2	39.6	67.27	-1,620.7	-1,124.6	726.7	649.0	77.63	9.360		
13,680.0	12,861.1	13,377.2	12,579.3	39.3	39.8	67.25	-1,715.7	-1,123.9	726.7	648.7	78.00	9.317		
13,775.0	12,859.0	13,472.2	12,577.0	39.5	40.0	67.24	-1,810.7	-1,123.1	726.8	648.4	78.40	9.271		
13,870.0	12,856.9	13,567.2	12,574.7	39.7	40.2	67.23	-1,905.6	-1,122.4	726.9	648.1	78.82	9.222		
13,965.0	12,854.8	13,662.2	12,572.4	39.9	40.5	67.21	-2,000.6	-1,121.6	726.9	647.7	79.27	9.171		
14,060.0	12,852.6	13,757.2	12,570.1	40.2	40.7	67.20	-2,095.6	-1,120.8	727.0	647.3	79.74	9.118		
14,155.0	12,850.5	13,852.2	12,567.8	40.4	41.0	67.19	-2,190.5	-1,120.1	727.1	646.9	80.23	9.062		
14,250.0	12,848.4	13,947.2	12,565.5	40.7	41.2	67.17	-2,285.5	-1,119.3	727.1	646.4	80.75	9.005		
14,345.0	12,846.3	14,042.2	12,563.2	41.0	41.5	67.16	-2,380.5	-1,118.5	727.2	645.9	81.29	8.946		
14,440.0	12,844.2	14,137.2	12,560.9	41.2	41.8	67.15	-2,475.4	-1,117.8	727.3	645.4	81.85	8.886		
14,535.0	12,842.1	14,232.2	12,558.6	41.5	42.1	67.13	-2,570.4	-1,117.0	727.4	644.9	82.43	8.824		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	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								Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,630.0	12,839.9	14,327.2	12,556.3	41.8	42.4	67.12	-2,665.4	-1,116.2	727.4	644.4	83.04	8.760		
14,725.0	12,837.8	14,422.2	12,554.0	42.2	42.7	67.11	-2,760.4	-1,115.5	727.5	643.8	83.66	8.696		
14,820.0	12,835.7	14,517.2	12,551.7	42.5	43.0	67.10	-2,855.3	-1,114.7	727.6	643.2	84.31	8.630		
14,915.0	12,833.6	14,612.2	12,549.4	42.8	43.4	67.08	-2,950.3	-1,114.0	727.6	642.6	84.97	8.563		
15,010.0	12,831.5	14,707.2	12,547.1	43.2	43.7	67.07	-3,045.3	-1,113.2	727.7	642.0	85.66	8.495		
15,105.0	12,829.4	14,802.2	12,544.8	43.5	44.1	67.06	-3,140.2	-1,112.4	727.8	641.4	86.36	8.427		
15,200.0	12,827.2	14,897.2	12,542.5	43.9	44.4	67.04	-3,235.2	-1,111.7	727.8	640.7	87.08	8.358		
15,295.0	12,825.1	14,992.2	12,540.2	44.3	44.8	67.03	-3,330.2	-1,110.9	727.9	640.1	87.83	8.288		
15,390.0	12,823.0	15,087.2	12,538.0	44.7	45.2	67.02	-3,425.1	-1,110.1	728.0	639.4	88.58	8.218		
15,485.0	12,820.9	15,182.2	12,535.7	45.0	45.6	67.00	-3,520.1	-1,109.4	728.0	638.7	89.36	8.147		
15,580.0	12,818.8	15,277.2	12,533.4	45.4	46.0	66.99	-3,615.1	-1,108.6	728.1	637.9	90.15	8.076		
15,675.0	12,816.7	15,372.2	12,531.1	45.9	46.4	66.98	-3,710.0	-1,107.9	728.2	637.2	90.96	8.005		
15,770.0	12,814.5	15,467.2	12,528.8	46.3	46.8	66.96	-3,805.0	-1,107.1	728.2	636.4	91.79	7.934		
15,865.0	12,812.4	15,562.2	12,526.5	46.7	47.2	66.95	-3,900.0	-1,106.3	728.3	635.7	92.63	7.862		
15,960.0	12,810.3	15,657.2	12,524.2	47.1	47.6	66.94	-3,995.0	-1,105.6	728.4	634.9	93.48	7.791		
16,055.0	12,808.2	15,752.2	12,521.9	47.6	48.1	66.93	-4,089.9	-1,104.8	728.4	634.1	94.35	7.720		
16,150.0	12,806.1	15,847.2	12,519.6	48.0	48.5	66.91	-4,184.9	-1,104.0	728.5	633.3	95.24	7.649		
16,245.0	12,804.0	15,942.2	12,517.3	48.5	48.9	66.90	-4,279.9	-1,103.3	728.6	632.4	96.14	7.578		
16,340.0	12,801.8	16,037.2	12,515.0	48.9	49.4	66.89	-4,374.8	-1,102.5	728.6	631.6	97.05	7.508		
16,435.0	12,799.7	16,132.2	12,512.7	49.4	49.9	66.87	-4,469.8	-1,101.8	728.7	630.7	97.97	7.438		
16,530.0	12,797.6	16,227.2	12,510.4	49.9	50.3	66.86	-4,564.8	-1,101.0	728.8	629.9	98.91	7.368		
16,625.0	12,795.5	16,322.2	12,508.1	50.3	50.8	66.85	-4,659.7	-1,100.2	728.8	629.0	99.86	7.298		
16,720.0	12,793.4	16,417.2	12,505.8	50.8	51.3	66.83	-4,754.7	-1,099.5	728.9	628.1	100.82	7.229		
16,815.0	12,791.2	16,512.2	12,503.5	51.3	51.8	66.82	-4,849.7	-1,098.7	729.0	627.2	101.80	7.161		
16,910.0	12,789.1	16,607.2	12,501.2	51.8	52.2	66.81	-4,944.6	-1,097.9	729.0	626.3	102.78	7.093		
17,005.0	12,787.0	16,702.2	12,498.9	52.3	52.7	66.80	-5,039.6	-1,097.2	729.1	625.3	103.78	7.026		
17,100.0	12,784.9	16,797.2	12,496.6	52.8	53.2	66.78	-5,134.6	-1,096.4	729.2	624.4	104.78	6.959		
17,195.0	12,782.8	16,892.2	12,494.3	53.3	53.7	66.77	-5,229.5	-1,095.6	729.2	623.4	105.80	6.893		
17,290.0	12,780.7	16,987.2	12,492.0	53.8	54.3	66.76	-5,324.5	-1,094.9	729.3	622.5	106.83	6.827		
17,385.0	12,778.5	17,082.2	12,489.7	54.4	54.8	66.74	-5,419.5	-1,094.1	729.4	621.5	107.87	6.762		
17,480.0	12,776.4	17,177.2	12,487.4	54.9	55.3	66.73	-5,514.5	-1,093.4	729.4	620.5	108.91	6.697		
17,575.0	12,774.3	17,272.2	12,485.1	55.4	55.8	66.72	-5,609.4	-1,092.6	729.5	619.5	109.97	6.634		
17,670.0	12,772.2	17,367.1	12,482.8	55.9	56.3	66.70	-5,704.4	-1,091.8	729.6	618.5	111.03	6.571		
17,765.0	12,770.1	17,462.1	12,480.5	56.5	56.9	66.69	-5,799.4	-1,091.1	729.6	617.5	112.11	6.508		
17,860.0	12,768.0	17,557.1	12,478.3	57.0	57.4	66.68	-5,894.3	-1,090.3	729.7	616.5	113.19	6.447		
17,955.0	12,765.8	17,652.1	12,476.0	57.6	57.9	66.66	-5,989.3	-1,089.5	729.8	615.5	114.28	6.386		
18,050.0	12,763.7	17,747.1	12,473.7	58.1	58.5	66.65	-6,084.3	-1,088.8	729.9	614.5	115.38	6.326		
18,145.0	12,761.6	17,842.1	12,471.4	58.7	59.0	66.64	-6,179.2	-1,088.0	729.9	613.4	116.49	6.266		
18,240.0	12,759.5	17,937.1	12,469.1	59.2	59.6	66.63	-6,274.2	-1,087.3	730.0	612.4	117.60	6.207		
18,335.0	12,757.4	18,032.1	12,466.8	59.8	60.1	66.61	-6,369.2	-1,086.5	730.1	611.3	118.72	6.149		
18,430.0	12,755.3	18,127.1	12,464.5	60.4	60.7	66.60	-6,464.1	-1,085.7	730.1	610.3	119.85	6.092		
18,525.0	12,753.1	18,222.1	12,462.2	60.9	61.3	66.59	-6,559.1	-1,085.0	730.2	609.2	120.98	6.035		
18,620.0	12,751.0	18,317.1	12,459.9	61.5	61.8	66.57	-6,654.1	-1,084.2	730.3	608.1	122.13	5.980		
18,715.0	12,748.9	18,412.1	12,457.6	62.1	62.4	66.56	-6,749.1	-1,083.4	730.3	607.1	123.27	5.924		
18,810.0	12,746.8	18,507.1	12,455.3	62.7	63.0	66.55	-6,844.0	-1,082.7	730.4	606.0	124.43	5.870		
18,905.0	12,744.7	18,602.1	12,453.0	63.2	63.6	66.53	-6,939.0	-1,081.9	730.5	604.9	125.59	5.816		
19,000.0	12,742.6	18,697.1	12,450.7	63.8	64.1	66.52	-7,034.0	-1,081.2	730.5	603.8	126.76	5.763		
19,095.0	12,740.4	18,792.1	12,448.4	64.4	64.7	66.51	-7,128.9	-1,080.4	730.6	602.7	127.93	5.711		
19,190.0	12,738.3	18,887.1	12,446.1	65.0	65.3	66.50	-7,223.9	-1,079.6	730.7	601.6	129.11	5.659		
19,285.0	12,736.2	18,982.1	12,443.8	65.6	65.9	66.48	-7,318.9	-1,078.9	730.7	600.4	130.30	5.608		
19,380.0	12,734.1	19,077.1	12,441.5	66.2	66.5	66.47	-7,413.8	-1,078.1	730.8	599.3	131.49	5.558		
19,475.0	12,732.0	19,172.1	12,439.2	66.8	67.1	66.46	-7,508.8	-1,077.3	730.9	598.2	132.68	5.509		

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	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
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
19,570.0	12,729.9	19,267.1	12,436.9	67.4	67.7	66.44	-7,603.8	-1,076.6	730.9	597.1	133.88	5.460	
19,665.0	12,727.7	19,362.1	12,434.6	68.0	68.3	66.43	-7,698.7	-1,075.8	731.0	595.9	135.09	5.411	
19,760.0	12,725.6	19,457.1	12,432.3	68.6	68.9	66.42	-7,793.7	-1,075.1	731.1	594.8	136.30	5.364	
19,855.0	12,723.5	19,552.1	12,430.0	69.2	69.5	66.41	-7,888.7	-1,074.3	731.2	593.6	137.51	5.317	
19,950.0	12,721.4	19,647.1	12,427.7	69.8	70.1	66.39	-7,983.6	-1,073.5	731.2	592.5	138.73	5.271	
20,045.0	12,719.3	19,742.1	12,425.4	70.4	70.7	66.38	-8,078.6	-1,072.8	731.3	591.3	139.96	5.225	
20,140.0	12,717.2	19,837.1	12,423.1	71.0	71.3	66.37	-8,173.6	-1,072.0	731.4	590.2	141.19	5.180	
20,235.0	12,715.0	19,932.1	12,420.8	71.6	71.9	66.35	-8,268.6	-1,071.2	731.4	589.0	142.42	5.136	
20,330.0	12,712.9	20,027.1	12,418.5	72.3	72.5	66.34	-8,363.5	-1,070.5	731.5	587.8	143.66	5.092	
20,425.0	12,710.8	20,122.1	12,416.3	72.9	73.1	66.33	-8,458.5	-1,069.7	731.6	586.7	144.90	5.049	
20,520.0	12,708.7	20,217.1	12,414.0	73.5	73.7	66.31	-8,553.5	-1,068.9	731.6	585.5	146.14	5.006	
20,595.7	12,707.0	20,292.8	12,412.1	74.0	74.2	66.30	-8,629.1	-1,068.3	731.7	584.6	147.13	4.973	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - BANDANA FEDERAL COM #703H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12557-MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	125.09	-34.7	49.4	60.4				
95.0	95.0	94.9	94.9	3.0	3.0	125.09	-34.7	49.4	60.4	54.4	6.00	10.061	
190.0	190.0	189.9	189.9	3.0	3.0	125.09	-34.7	49.4	60.4	54.4	6.00	10.054	
285.0	285.0	284.9	284.9	3.0	3.0	125.09	-34.7	49.4	60.4	54.4	6.01	10.037	
380.0	380.0	379.9	379.9	3.0	3.0	125.09	-34.7	49.4	60.4	54.3	6.03	10.012	
475.0	475.0	474.9	474.9	3.0	3.0	125.09	-34.7	49.4	60.4	54.3	6.05	9.978	
570.0	570.0	569.9	569.9	3.1	3.1	125.09	-34.7	49.4	60.4	54.3	6.08	9.936	
665.0	665.0	664.9	664.9	3.1	3.1	125.09	-34.7	49.4	60.4	54.3	6.11	9.885	
760.0	760.0	759.9	759.9	3.1	3.1	125.09	-34.7	49.4	60.4	54.2	6.14	9.827	
855.0	855.0	854.9	854.9	3.2	3.2	125.09	-34.7	49.4	60.4	54.2	6.18	9.761	
950.0	950.0	949.9	949.9	3.2	3.2	125.09	-34.7	49.4	60.4	54.1	6.23	9.689	
1,045.0	1,045.0	1,044.9	1,044.9	3.3	3.3	125.09	-34.7	49.4	60.4	54.1	6.28	9.610	
1,140.0	1,140.0	1,139.9	1,139.9	3.3	3.3	125.09	-34.7	49.4	60.4	54.0	6.34	9.526	
1,235.0	1,235.0	1,234.9	1,234.9	3.4	3.4	125.09	-34.7	49.4	60.4	54.0	6.40	9.436	
1,330.0	1,330.0	1,329.9	1,329.9	3.4	3.4	125.09	-34.7	49.4	60.4	53.9	6.46	9.341	
1,425.0	1,425.0	1,424.9	1,424.9	3.5	3.5	125.09	-34.7	49.4	60.4	53.8	6.53	9.243	
1,520.0	1,520.0	1,519.9	1,519.9	3.6	3.6	125.09	-34.7	49.4	60.4	53.8	6.61	9.140	
1,615.0	1,615.0	1,614.9	1,614.9	3.6	3.6	125.09	-34.7	49.4	60.4	53.7	6.68	9.034	
1,710.0	1,710.0	1,709.9	1,709.9	3.7	3.7	125.09	-34.7	49.4	60.4	53.6	6.76	8.925	
1,805.0	1,805.0	1,804.9	1,804.9	3.8	3.8	125.09	-34.7	49.4	60.4	53.5	6.85	8.815	
1,900.0	1,900.0	1,899.9	1,899.9	3.9	3.9	125.09	-34.7	49.4	60.4	53.4	6.94	8.702	
1,995.0	1,995.0	1,994.9	1,994.9	3.9	3.9	125.09	-34.7	49.4	60.4	53.3	7.03	8.588 CC, ES	
2,090.0	2,090.0	2,088.0	2,088.0	4.1	4.1	-83.50	-35.7	50.4	61.6	54.3	7.21	8.540	
2,185.0	2,184.9	2,180.9	2,180.8	4.6	4.6	-86.55	-38.8	53.4	65.5	57.8	7.69	8.520 SF	
2,280.0	2,279.6	2,273.3	2,272.9	5.2	5.2	-90.90	-44.0	58.6	72.6	64.4	8.18	8.872	
2,375.0	2,373.9	2,365.2	2,364.2	5.7	5.7	-95.69	-51.2	65.7	83.1	74.4	8.67	9.579	
2,470.0	2,467.9	2,456.2	2,454.3	6.2	6.2	-100.23	-60.5	74.9	97.3	88.1	9.21	10.569	
2,565.0	2,561.4	2,546.3	2,543.0	6.5	6.7	-104.21	-71.6	85.9	115.3	105.6	9.71	11.876	
2,660.0	2,654.6	2,636.9	2,631.7	6.7	7.1	-107.15	-84.7	98.8	136.2	126.1	10.13	13.443	
2,755.0	2,747.9	2,729.3	2,722.1	6.8	7.3	-109.23	-98.3	112.3	157.8	147.3	10.52	15.003	
2,850.0	2,841.1	2,821.6	2,812.4	7.0	7.5	-110.81	-112.0	125.8	179.5	168.6	10.92	16.447	
2,945.0	2,934.4	2,914.0	2,902.8	7.2	7.7	-112.06	-125.6	139.3	201.4	190.0	11.35	17.740	
3,040.0	3,027.6	3,006.4	2,993.1	7.4	7.8	-113.05	-139.3	152.8	223.3	211.5	11.82	18.894	
3,135.0	3,120.9	3,098.7	3,083.5	7.6	8.0	-113.87	-152.9	166.3	245.3	233.0	12.31	19.921	
3,230.0	3,214.1	3,191.1	3,173.8	7.8	8.2	-114.56	-166.6	179.8	267.3	254.4	12.83	20.833	
3,325.0	3,307.4	3,283.5	3,264.2	8.1	8.5	-115.14	-180.2	193.3	289.3	276.0	13.37	21.644	
3,420.0	3,400.6	3,375.8	3,354.5	8.3	8.7	-115.64	-193.9	206.8	311.4	297.5	13.92	22.367	
3,515.0	3,493.9	3,468.2	3,444.9	8.6	8.9	-116.07	-207.5	220.3	333.5	319.0	14.49	23.011	
3,610.0	3,587.1	3,560.6	3,535.2	8.8	9.2	-116.45	-221.2	233.8	355.6	340.5	15.08	23.586	
3,705.0	3,680.4	3,652.9	3,625.6	9.1	9.4	-116.79	-234.8	247.3	377.7	362.0	15.67	24.101	
3,800.0	3,773.6	3,745.3	3,715.9	9.4	9.7	-117.08	-248.5	260.8	399.8	383.5	16.28	24.563	
3,895.0	3,866.9	3,837.7	3,806.3	9.7	9.9	-117.35	-262.2	274.3	421.9	405.0	16.89	24.979	
3,990.0	3,960.2	3,930.0	3,896.6	9.9	10.2	-117.59	-275.8	287.8	444.1	426.6	17.52	25.354	
4,085.0	4,053.4	4,022.4	3,987.0	10.2	10.5	-117.81	-289.5	301.3	466.2	448.1	18.15	25.693	
4,180.0	4,146.7	4,114.8	4,077.3	10.5	10.7	-118.00	-303.1	314.8	488.4	469.6	18.78	26.001	
4,275.0	4,239.9	4,207.1	4,167.7	10.8	11.0	-118.18	-316.8	328.3	510.5	491.1	19.43	26.281	
4,370.0	4,333.2	4,299.5	4,258.0	11.1	11.3	-118.35	-330.4	341.8	532.7	512.6	20.08	26.536	
4,465.0	4,426.4	4,391.9	4,348.4	11.5	11.6	-118.50	-344.1	355.3	554.9	534.1	20.73	26.768	
4,560.0	4,519.7	4,484.2	4,438.7	11.8	11.9	-118.64	-357.7	368.8	577.0	555.7	21.39	26.982	
4,655.0	4,612.9	4,576.6	4,529.1	12.1	12.2	-118.77	-371.4	382.3	599.2	577.2	22.05	27.178	
4,750.0	4,706.2	4,669.0	4,619.4	12.4	12.5	-118.89	-385.0	395.8	621.4	598.7	22.71	27.358	
4,845.0	4,799.4	4,761.3	4,709.8	12.7	12.8	-119.01	-398.7	409.3	643.6	620.2	23.38	27.524	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - BANDANA FEDERAL COM #703H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12557-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		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		
4,940.0	4,892.7	4,853.7	4,800.1	13.0	13.1	-119.11	-412.3	422.8	665.7	641.7	24.05	27.677		
5,035.0	4,985.9	4,946.1	4,890.5	13.4	13.4	-119.21	-426.0	436.3	687.9	663.2	24.73	27.819		
5,130.0	5,079.2	5,038.4	4,980.8	13.7	13.7	-119.30	-439.6	449.8	710.1	684.7	25.41	27.951		
5,225.0	5,172.5	5,130.8	5,071.2	14.0	14.0	-119.39	-453.3	463.3	732.3	706.2	26.08	28.074		
5,320.0	5,265.7	5,223.2	5,161.5	14.4	14.3	-119.47	-466.9	476.8	754.5	727.7	26.77	28.188		
5,415.0	5,359.0	5,315.5	5,251.9	14.7	14.6	-119.54	-480.6	490.3	776.7	749.2	27.45	28.294		
5,510.0	5,452.2	5,407.9	5,342.2	15.0	15.0	-119.62	-494.2	503.8	798.9	770.7	28.14	28.394		
5,605.0	5,545.5	5,500.3	5,432.6	15.4	15.3	-119.69	-507.9	517.3	821.1	792.2	28.82	28.487		
5,700.0	5,638.7	5,592.6	5,522.9	15.7	15.6	-119.75	-521.6	530.8	843.3	813.7	29.51	28.574		
5,795.0	5,732.0	5,685.0	5,613.3	16.0	15.9	-119.81	-535.2	544.3	865.4	835.2	30.20	28.655		
5,890.0	5,825.2	5,777.4	5,703.6	16.4	16.2	-119.87	-548.9	557.8	887.6	856.7	30.89	28.732		
5,985.0	5,918.5	5,869.8	5,794.0	16.7	16.6	-119.93	-562.5	571.3	909.8	878.2	31.59	28.804		
6,080.0	6,011.7	5,962.1	5,884.3	17.1	16.9	-119.98	-576.2	584.8	932.0	899.7	32.28	28.872		
6,175.0	6,105.0	6,054.5	5,974.7	17.4	17.2	-120.03	-589.8	598.3	954.2	921.2	32.98	28.936		
6,270.0	6,198.2	6,146.9	6,065.0	17.7	17.6	-120.08	-603.5	611.8	976.4	942.7	33.67	28.997		
6,365.0	6,291.5	6,239.2	6,155.4	18.1	17.9	-120.12	-617.1	625.3	998.6	964.2	34.37	29.054		

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	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												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	4.6	4.6	3.0	4.2	-170.74	-775.0	-126.4	785.2				
95.0	95.0	91.4	91.4	3.0	4.2	-170.72	-775.5	-126.7	785.8	778.5	7.24	108.494	
190.0	190.0	189.8	189.8	3.0	4.2	-170.69	-776.2	-127.2	786.6	779.3	7.25	108.501	
285.0	285.0	283.5	283.5	3.0	4.3	-170.66	-776.8	-127.8	787.3	780.0	7.26	108.381	
380.0	380.0	375.5	375.4	3.0	4.3	-170.63	-777.8	-128.4	788.4	781.1	7.29	108.195	
475.0	475.0	470.0	470.0	3.0	4.3	-170.63	-778.9	-128.6	789.5	782.2	7.32	107.880	
570.0	570.0	558.8	558.8	3.1	4.3	-170.64	-780.3	-128.6	791.0	783.6	7.36	107.519	
665.0	665.0	650.5	650.4	3.1	4.3	-170.71	-782.6	-128.0	793.3	785.9	7.40	107.167	
760.0	760.0	761.4	761.3	3.1	4.3	-170.91	-784.9	-125.6	794.9	787.4	7.46	106.619	
855.0	855.0	876.1	875.9	3.2	4.3	-171.09	-784.2	-123.0	793.9	786.4	7.50	105.926	
950.0	950.0	976.6	976.4	3.2	4.3	-171.19	-782.0	-121.1	791.6	784.1	7.53	105.071	
1,045.0	1,045.0	1,070.7	1,070.5	3.3	4.3	-171.26	-779.6	-119.8	789.0	781.4	7.58	104.074	
1,140.0	1,140.0	1,156.6	1,156.3	3.3	4.3	-171.39	-778.3	-117.9	787.2	779.6	7.64	103.065	
1,235.0	1,235.0	1,288.2	1,287.7	3.4	4.4	-171.80	-774.0	-111.6	783.5	775.8	7.69	101.853	
1,330.0	1,330.0	1,383.1	1,382.3	3.4	4.4	-172.19	-769.0	-105.5	777.7	769.9	7.76	100.199	
1,425.0	1,425.0	1,475.9	1,474.7	3.5	4.4	-172.58	-764.3	-99.6	772.0	764.2	7.84	98.517	
1,520.0	1,520.0	1,570.1	1,568.6	3.6	4.4	-172.96	-759.6	-93.9	766.6	758.7	7.92	96.829	
1,615.0	1,615.0	1,665.6	1,663.9	3.6	4.4	-173.34	-754.8	-88.1	761.2	753.2	8.00	95.116	
1,710.0	1,710.0	1,757.7	1,755.7	3.7	4.5	-173.72	-750.2	-82.6	755.8	747.7	8.09	93.372	
1,805.0	1,805.0	1,852.0	1,849.7	3.8	4.5	-174.08	-745.7	-77.3	750.8	742.6	8.19	91.660	
1,900.0	1,900.0	1,947.0	1,944.5	3.9	4.5	-174.44	-741.3	-72.2	745.8	737.5	8.29	89.948	
1,995.0	1,995.0	2,045.9	2,043.0	3.9	4.6	-174.83	-736.3	-66.6	740.6	732.2	8.40	88.199	
2,090.0	2,090.0	2,140.6	2,137.5	4.1	4.6	-22.91	-731.3	-60.6	733.7	725.1	8.58	85.559	
2,185.0	2,184.9	2,235.9	2,232.4	4.6	4.7	-23.60	-726.2	-54.3	724.0	715.0	9.00	80.464	
2,280.0	2,279.6	2,329.4	2,325.5	5.2	4.7	-24.45	-721.2	-47.7	711.5	702.0	9.43	75.477	
2,375.0	2,373.9	2,422.3	2,418.1	5.7	4.7	-25.46	-716.2	-41.2	696.2	686.4	9.83	70.838	
2,470.0	2,467.9	2,514.3	2,509.7	6.2	4.8	-26.66	-711.4	-34.7	678.5	668.3	10.20	66.488	
2,565.0	2,561.4	2,607.4	2,602.5	6.5	4.9	-28.11	-706.3	-27.6	658.1	647.7	10.43	63.120	
2,660.0	2,654.6	2,698.5	2,693.1	6.7	4.9	-29.52	-701.4	-20.5	637.1	626.6	10.54	60.448	
2,755.0	2,747.9	2,786.3	2,780.5	6.8	5.0	-30.96	-696.6	-13.6	616.6	605.9	10.67	57.795	
2,850.0	2,841.1	2,870.7	2,864.6	7.0	5.0	-32.37	-693.4	-7.5	597.8	587.0	10.81	55.280	
2,945.0	2,934.4	2,961.9	2,955.6	7.2	5.1	-34.00	-690.1	-0.9	579.8	568.8	10.97	52.847	
3,040.0	3,027.6	3,053.9	3,047.2	7.4	5.1	-35.84	-686.7	6.8	562.3	551.2	11.14	50.488	
3,135.0	3,120.9	3,146.0	3,138.9	7.6	5.2	-37.81	-683.3	14.8	545.4	534.1	11.32	48.194	
3,230.0	3,214.1	3,240.2	3,232.8	7.8	5.3	-39.81	-679.6	21.5	528.7	517.2	11.51	45.924	
3,325.0	3,307.4	3,333.6	3,325.9	8.1	5.3	-41.88	-675.7	27.7	512.4	500.7	11.72	43.703	
3,420.0	3,400.6	3,425.3	3,417.2	8.3	5.4	-44.09	-671.5	34.2	496.6	484.7	11.95	41.555	
3,515.0	3,493.9	3,525.0	3,516.6	8.6	5.5	-46.58	-666.3	40.5	480.7	468.5	12.18	39.452	
3,610.0	3,587.1	3,617.8	3,609.0	8.8	5.6	-49.04	-660.8	45.9	464.9	452.5	12.44	37.372	
3,705.0	3,680.4	3,709.2	3,700.2	9.1	5.6	-51.47	-655.7	50.2	449.9	437.2	12.71	35.386	
3,800.0	3,773.6	3,800.5	3,791.3	9.4	5.7	-53.92	-651.0	53.4	435.8	422.8	13.00	33.510	
3,895.0	3,866.9	3,890.6	3,881.2	9.7	5.8	-56.47	-646.7	56.8	422.8	409.5	13.31	31.761	
3,990.0	3,960.2	3,981.8	3,972.3	9.9	5.9	-59.14	-642.9	59.9	411.1	397.5	13.63	30.156	
4,085.0	4,053.4	4,071.4	4,061.9	10.2	5.9	-61.82	-639.7	62.7	400.8	386.8	13.97	28.693	
4,180.0	4,146.7	4,162.7	4,153.0	10.5	6.0	-64.66	-636.9	65.7	391.9	377.6	14.32	27.366	
4,275.0	4,239.9	4,257.0	4,247.2	10.8	6.1	-67.67	-634.1	68.5	384.0	369.3	14.69	26.132	
4,370.0	4,333.2	4,349.6	4,339.8	11.1	6.2	-70.55	-632.0	70.1	376.9	361.8	15.08	24.991	
4,465.0	4,426.4	4,442.6	4,432.8	11.5	6.3	-73.37	-630.7	71.0	370.8	355.3	15.49	23.943	
4,560.0	4,519.7	4,536.7	4,526.9	11.8	6.3	-76.27	-629.5	71.6	365.6	349.7	15.91	22.984	
4,655.0	4,612.9	4,633.5	4,623.7	12.1	6.4	-79.30	-627.9	71.5	360.6	344.3	16.34	22.074	
4,750.0	4,706.2	4,720.9	4,711.1	12.4	6.5	-82.11	-626.4	71.4	356.6	339.8	16.78	21.253	
4,838.7	4,793.2	4,801.9	4,792.1	12.7	6.5	-84.81	-625.7	72.9	355.6	338.3	17.22	20.643 CC	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	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)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,845.0	4,799.4	4,807.8	4,797.9	12.7	6.5	-85.00	-625.7	73.0	355.6	338.3	17.26	20.604	ES
4,940.0	4,892.7	4,897.4	4,887.5	13.0	6.6	-87.99	-625.6	75.7	356.8	339.1	17.76	20.093	
5,035.0	4,985.9	4,993.6	4,983.6	13.4	6.7	-91.15	-625.5	78.8	359.4	341.1	18.29	19.649	
5,130.0	5,079.2	5,093.0	5,083.0	13.7	6.8	-94.42	-624.3	80.1	360.9	342.1	18.82	19.177	
5,225.0	5,172.5	5,179.6	5,169.6	14.0	6.9	-97.26	-623.2	81.4	363.8	344.5	19.34	18.811	
5,320.0	5,265.7	5,266.3	5,256.2	14.4	7.0	-99.95	-623.4	84.4	369.8	349.9	19.87	18.606	
5,415.0	5,359.0	5,374.2	5,364.1	14.7	7.0	-103.03	-624.2	86.7	375.6	355.2	20.45	18.365	
5,510.0	5,452.2	5,470.1	5,460.0	15.0	7.0	-105.66	-624.5	86.2	379.8	358.9	20.93	18.146	
5,605.0	5,545.5	5,564.7	5,554.6	15.4	7.0	-108.10	-625.4	85.2	384.3	362.9	21.39	17.964	
5,700.0	5,638.7	5,660.2	5,650.1	15.7	7.0	-110.38	-627.1	83.7	389.1	367.3	21.85	17.808	
5,795.0	5,732.0	5,750.0	5,739.9	16.0	7.0	-112.59	-627.8	82.2	394.4	372.1	22.29	17.697	
5,890.0	5,825.2	5,838.8	5,828.6	16.4	7.0	-115.20	-625.2	82.4	401.8	379.1	22.76	17.656	
5,985.0	5,918.5	5,930.3	5,920.0	16.7	7.1	-117.84	-622.1	83.0	410.7	387.5	23.24	17.669	
6,080.0	6,011.7	6,026.0	6,015.7	17.1	7.2	-120.52	-618.7	83.4	420.2	396.4	23.74	17.701	
6,175.0	6,105.0	6,117.9	6,107.5	17.4	7.2	-122.95	-615.6	83.5	430.2	406.0	24.21	17.774	
6,270.0	6,198.2	6,211.1	6,200.7	17.7	7.3	-125.32	-612.2	83.7	441.1	416.5	24.68	17.878	
6,365.0	6,291.5	6,304.5	6,294.0	18.1	7.4	-127.64	-608.5	83.7	452.6	427.5	25.14	18.005	
6,460.0	6,384.8	6,404.1	6,393.5	18.4	7.4	-129.86	-605.8	82.9	463.9	438.3	25.60	18.119	
6,555.0	6,478.0	6,496.4	6,485.8	18.8	7.5	-131.63	-604.9	82.1	475.3	449.3	26.01	18.274	
6,650.0	6,571.2	6,591.8	6,581.2	19.1	7.5	-133.40	-603.9	80.9	486.8	460.4	26.41	18.430	
6,745.0	6,664.8	6,684.3	6,673.8	19.5	7.5	-135.04	-603.0	79.7	497.6	470.8	26.81	18.559	
6,840.0	6,758.8	6,777.4	6,766.8	19.9	7.6	-136.37	-602.0	78.8	506.7	479.4	27.25	18.591	
6,935.0	6,853.3	6,873.8	6,863.2	20.3	7.6	-137.47	-600.6	77.5	513.5	485.8	27.73	18.521	
7,030.0	6,948.0	6,968.6	6,958.0	20.8	7.7	-138.26	-599.3	76.0	518.0	489.8	28.17	18.385	
7,125.0	7,042.9	7,062.5	7,051.9	21.1	7.7	-138.75	-598.1	74.9	520.3	491.8	28.58	18.209	
7,220.0	7,137.9	7,155.7	7,145.1	21.4	7.8	-68.54	-596.7	73.8	520.5	491.6	28.88	18.022	
7,315.0	7,232.9	7,251.9	7,241.2	21.7	7.8	68.34	-595.1	72.6	520.0	490.8	29.21	17.804	
7,410.0	7,327.9	7,345.8	7,335.1	22.0	7.9	68.15	-593.7	71.4	519.5	490.0	29.51	17.603	
7,505.0	7,422.9	7,441.3	7,430.6	22.3	8.0	67.95	-592.3	70.2	518.9	489.0	29.82	17.399	
7,600.0	7,517.9	7,536.2	7,525.5	22.5	8.0	67.77	-591.0	69.3	518.5	488.4	30.14	17.205	
7,695.0	7,612.9	7,630.8	7,620.1	22.8	8.1	67.61	-589.8	68.1	517.9	487.5	30.45	17.010	
7,790.0	7,707.9	7,727.3	7,716.5	23.1	8.1	67.44	-588.5	67.2	517.5	486.8	30.77	16.817	
7,885.0	7,802.9	7,822.7	7,811.9	23.4	8.2	67.26	-587.4	65.9	516.8	485.7	31.09	16.624	
7,980.0	7,897.9	7,915.1	7,904.4	23.7	8.3	67.12	-586.3	65.0	516.4	485.0	31.40	16.447	
8,075.0	7,992.9	8,013.8	8,003.0	24.0	8.3	66.93	-585.0	63.8	515.7	484.0	31.73	16.252	
8,170.0	8,087.9	8,108.3	8,097.5	24.2	8.4	66.78	-584.1	62.5	514.9	482.9	32.05	16.067	
8,265.0	8,182.9	8,206.0	8,195.2	24.5	8.4	66.61	-583.1	60.8	513.8	481.4	32.37	15.871	
8,360.0	8,277.9	8,301.5	8,290.6	24.8	8.4	66.61	-583.6	59.8	512.7	480.0	32.67	15.690	
8,455.0	8,372.9	8,395.8	8,385.0	25.1	8.4	66.67	-584.6	58.8	511.4	478.4	32.97	15.511	
8,550.0	8,467.9	8,489.7	8,478.9	25.4	8.4	66.74	-585.6	58.2	510.4	477.1	33.27	15.341	
8,645.0	8,562.9	8,584.1	8,573.3	25.7	8.4	66.82	-586.7	57.5	509.3	475.7	33.57	15.170	
8,740.0	8,657.9	8,679.9	8,669.1	26.0	8.4	66.92	-587.9	56.8	508.2	474.3	33.89	14.997	
8,835.0	8,752.9	8,775.2	8,764.3	26.3	8.4	67.01	-589.0	56.1	507.1	472.9	34.20	14.827	
8,930.0	8,847.9	8,868.5	8,857.7	26.6	8.4	67.11	-590.2	55.6	506.1	471.6	34.51	14.665	
9,025.0	8,942.9	8,965.8	8,954.9	26.9	8.4	67.16	-591.1	54.7	505.0	470.2	34.84	14.496	
9,120.0	9,037.9	9,059.0	9,048.1	27.2	8.4	67.25	-592.3	53.9	503.8	468.7	35.15	14.333	
9,215.0	9,132.9	9,153.5	9,142.6	27.5	8.4	67.29	-593.0	53.2	502.9	467.5	35.47	14.179	
9,310.0	9,227.9	9,249.1	9,238.2	27.8	8.5	67.33	-593.7	52.3	501.8	466.0	35.80	14.019	
9,405.0	9,322.9	9,345.4	9,334.5	28.1	8.5	67.37	-594.5	51.4	500.7	464.6	36.13	13.859	
9,500.0	9,417.9	9,441.0	9,430.1	28.4	8.5	67.41	-595.2	50.5	499.5	463.1	36.46	13.701	
9,595.0	9,512.9	9,535.0	9,524.0	28.7	8.5	67.48	-596.2	49.5	498.3	461.5	36.79	13.546	
9,690.0	9,607.9	9,633.7	9,622.7	29.0	8.5	67.52	-597.2	48.3	496.8	459.7	37.14	13.378	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #603H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 11951-MWD+IFR1+FDIR								Rule Assigned:				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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
9,785.0	9,702.9	9,725.0	9,714.0	29.3	8.6	67.58	-598.2	47.0	495.2	457.8	37.45	13.222	
9,880.0	9,797.9	9,814.4	9,803.5	29.6	8.6	67.75	-599.8	47.1	494.6	456.9	37.77	13.095	
9,975.0	9,892.9	9,912.5	9,901.5	29.9	8.6	67.95	-601.5	47.4	494.2	456.1	38.14	12.958	
10,070.0	9,987.9	10,006.2	9,995.2	30.2	8.6	68.04	-602.5	47.2	493.7	455.2	38.48	12.829	
10,165.0	10,082.9	10,106.1	10,095.1	30.5	8.7	67.94	-602.1	45.8	492.6	453.8	38.86	12.678	
10,260.0	10,177.9	10,195.2	10,184.2	30.9	8.7	67.81	-601.4	44.7	491.8	452.6	39.18	12.552	
10,355.0	10,272.9	10,294.9	10,283.9	31.2	8.8	67.56	-599.6	43.2	491.1	451.5	39.57	12.411	
10,450.0	10,367.9	10,391.5	10,380.4	31.5	8.9	67.33	-598.3	41.4	490.0	450.1	39.94	12.270	
10,545.0	10,462.9	10,487.7	10,476.6	31.8	9.0	67.23	-598.1	39.6	488.4	448.1	40.30	12.119	
10,640.0	10,557.9	10,582.6	10,571.5	32.1	9.0	67.23	-598.7	38.1	486.8	446.2	40.65	11.975	
10,735.0	10,652.9	10,678.1	10,667.0	32.4	9.0	67.23	-599.4	36.4	485.0	444.0	41.01	11.828	
10,830.0	10,747.9	10,763.5	10,752.3	32.7	9.1	67.18	-599.4	35.4	484.0	442.6	41.31	11.714	
10,874.4	10,792.2	10,810.4	10,799.3	32.9	9.1	67.10	-598.8	35.1	483.9	442.4	41.50	11.660	
10,925.0	10,842.9	10,862.2	10,851.0	33.0	9.2	66.97	-597.9	34.4	483.7	442.0	41.71	11.597	
10,991.3	10,909.2	10,925.0	10,913.8	33.3	9.2	66.81	-596.8	33.5	483.3	441.3	41.94	11.521	
11,020.0	10,937.9	10,950.4	10,939.3	33.3	9.3	66.77	-596.4	33.5	483.4	441.3	42.04	11.497	
11,115.0	11,032.9	11,048.1	11,036.9	33.7	9.4	66.57	-594.6	33.3	484.0	441.5	42.43	11.405	
11,210.0	11,127.9	11,134.8	11,123.6	34.0	9.4	66.39	-592.9	33.6	485.0	442.2	42.78	11.337	
11,305.0	11,222.9	11,231.9	11,220.7	34.3	9.5	66.17	-590.5	34.6	486.8	443.6	43.17	11.276	
11,400.0	11,317.9	11,333.0	11,321.7	34.6	9.6	65.98	-588.6	34.9	487.8	444.3	43.58	11.193	
11,495.0	11,412.9	11,426.4	11,415.1	34.9	9.7	65.92	-587.9	35.2	488.4	444.4	43.96	11.109	
11,590.0	11,507.9	11,519.0	11,507.8	35.2	9.8	65.86	-587.0	35.7	489.2	444.9	44.34	11.033	
11,685.0	11,602.9	11,622.4	11,611.1	35.6	9.9	65.83	-586.6	36.0	489.6	444.8	44.76	10.938	
11,780.0	11,697.9	11,721.8	11,710.5	35.9	9.9	65.95	-588.0	35.3	488.5	443.3	45.15	10.819	
11,875.0	11,792.9	11,823.5	11,812.1	36.2	9.9	66.16	-590.5	34.2	486.6	441.1	45.55	10.682	
11,970.0	11,887.9	11,932.9	11,921.4	36.5	9.9	66.42	-594.5	30.5	482.2	436.2	46.04	10.475	
12,065.0	11,982.9	12,029.4	12,017.7	36.8	10.1	66.47	-597.5	24.9	476.0	429.6	46.41	10.257	
12,160.0	12,077.9	12,115.1	12,103.3	37.1	10.1	66.53	-599.8	20.8	470.9	424.1	46.76	10.070	
12,250.0	12,167.9	12,185.0	12,173.2	37.5	10.1	66.58	-601.0	19.0	468.3	421.1	47.16	9.929	
12,255.0	12,172.9	12,185.0	12,173.2	37.5	10.1	66.58	-601.0	19.0	468.3	421.1	47.22	9.918	
12,350.0	12,267.9	12,233.0	12,221.0	37.8	10.1	66.28	-597.9	19.8	473.1	425.0	48.08	9.839 SF	
12,445.0	12,362.9	12,280.0	12,266.7	38.1	10.1	65.28	-587.6	22.6	487.7	438.5	49.21	9.910	
12,540.0	12,457.7	12,327.0	12,309.6	38.3	10.2	-118.89	-569.1	26.8	514.4	464.2	50.18	10.250	
12,635.0	12,550.0	12,358.8	12,337.0	38.3	10.2	-115.90	-553.3	30.4	558.1	506.9	51.17	10.905	
12,730.0	12,636.0	12,374.0	12,349.9	38.3	10.2	-108.93	-545.5	32.4	616.4	564.4	52.07	11.838	
12,825.0	12,712.6	12,395.6	12,367.7	38.4	10.2	-99.35	-533.8	35.3	685.8	633.2	52.55	13.051	
12,920.0	12,776.5	12,398.9	12,370.4	38.4	10.2	-84.28	-531.8	35.8	762.4	709.4	52.93	14.404	
13,015.0	12,825.3	12,396.4	12,368.4	38.5	10.2	-67.27	-533.3	35.5	841.7	788.6	53.11	15.846	
13,110.0	12,857.2	12,374.0	12,349.9	38.6	10.2	-50.90	-545.5	32.4	920.6	867.4	53.26	17.285	
13,205.0	12,870.7	12,374.0	12,349.9	38.6	10.2	-40.65	-545.5	32.4	995.0	941.9	53.05	18.755	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	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 EYESHADE FED PROJECT - GREEN EYESHADE FEDERAL COM #703H - OWB - AWP													Offset Site Error: 3.0 usft	
Survey Program: 100-Standard Keeper 104, 12241-MWD+IFR1+FDIR													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	5.7	5.7	3.0	4.2	-172.91	-774.7	-96.4	780.7					
95.0	95.0	107.4	107.4	3.0	4.2	-172.84	-774.0	-97.2	780.2	772.9	7.24	107.715		
190.0	190.0	205.0	205.0	3.0	4.2	-172.72	-772.8	-98.8	779.2	771.9	7.25	107.495		
259.3	259.3	264.6	264.6	3.0	4.2	-172.70	-772.4	-98.9	778.7	771.4	7.26	107.297		
285.0	285.0	288.7	288.7	3.0	4.2	-172.73	-772.5	-98.5	778.7	771.5	7.26	107.248		
380.0	380.0	379.1	379.1	3.0	4.2	-172.83	-773.1	-97.2	779.2	771.9	7.28	107.078		
475.0	475.0	472.2	472.1	3.0	4.3	-172.83	-774.1	-97.3	780.2	772.9	7.30	106.885		
570.0	570.0	566.3	566.3	3.1	4.3	-172.82	-775.2	-97.7	781.4	774.0	7.33	106.590		
665.0	665.0	660.1	660.1	3.1	4.3	-172.80	-776.3	-98.0	782.6	775.2	7.37	106.185		
760.0	760.0	756.3	756.3	3.1	4.3	-172.79	-777.5	-98.4	783.7	776.3	7.42	105.657		
855.0	855.0	851.8	851.8	3.2	4.3	-172.78	-778.5	-98.7	784.8	777.3	7.47	105.014		
950.0	950.0	947.0	946.9	3.2	4.3	-172.77	-779.6	-98.9	785.9	778.3	7.54	104.269		
1,045.0	1,045.0	1,041.3	1,041.3	3.3	4.3	-172.77	-780.7	-99.1	787.0	779.4	7.61	103.448		
1,140.0	1,140.0	1,133.0	1,132.9	3.3	4.4	-172.77	-782.0	-99.2	788.4	780.7	7.69	102.580		
1,235.0	1,235.0	1,226.1	1,226.0	3.4	4.4	-172.78	-783.7	-99.3	790.1	782.4	7.77	101.690		
1,330.0	1,330.0	1,331.3	1,331.1	3.4	4.4	-172.83	-785.4	-98.8	791.6	783.7	7.86	100.671		
1,425.0	1,425.0	1,428.6	1,428.4	3.5	4.5	-173.01	-786.0	-96.4	791.9	784.0	7.94	99.703		
1,520.0	1,520.0	1,522.6	1,522.4	3.6	4.5	-173.19	-786.7	-93.9	792.2	784.2	8.03	98.714		
1,615.0	1,615.0	1,616.0	1,615.7	3.6	4.5	-173.33	-787.2	-92.1	792.6	784.5	8.12	97.659		
1,710.0	1,710.0	1,711.4	1,711.2	3.7	4.5	-173.32	-787.7	-92.2	793.1	784.9	8.23	96.417		
1,805.0	1,805.0	1,805.0	1,804.8	3.8	4.6	-173.30	-788.2	-92.5	793.7	785.3	8.34	95.166		
1,900.0	1,900.0	1,901.0	1,900.7	3.9	4.6	-173.28	-788.8	-93.0	794.3	785.9	8.46	93.904		
1,995.0	1,995.0	1,996.7	1,996.5	3.9	4.7	-173.24	-789.2	-93.5	794.8	786.2	8.58	92.648		
2,090.0	2,090.0	2,091.5	2,091.2	4.1	4.7	-20.81	-789.7	-93.9	794.0	785.2	8.78	90.479		
2,185.0	2,184.9	2,195.3	2,195.0	4.6	4.7	-20.93	-789.6	-94.5	789.7	780.4	9.21	85.710		
2,280.0	2,279.6	2,292.6	2,292.4	5.2	4.7	-21.16	-788.8	-94.9	781.8	772.1	9.64	81.063		
2,375.0	2,373.9	2,385.7	2,385.4	5.7	4.7	-21.50	-788.0	-95.2	770.9	760.8	10.06	76.661		
2,470.0	2,467.9	2,479.7	2,479.5	6.2	4.7	-21.96	-787.2	-95.5	757.1	746.6	10.45	72.452		
2,565.0	2,561.4	2,572.6	2,572.3	6.5	4.7	-22.54	-786.3	-95.6	740.4	729.8	10.68	69.307		
2,660.0	2,654.6	2,666.8	2,666.5	6.7	4.7	-23.07	-785.5	-95.8	722.9	712.1	10.80	66.937		
2,755.0	2,747.9	2,761.1	2,760.9	6.8	4.7	-23.66	-784.5	-95.8	705.2	694.3	10.93	64.523		
2,850.0	2,841.1	2,855.6	2,855.3	7.0	4.7	-24.30	-783.4	-95.3	687.5	676.4	11.08	62.046		
2,945.0	2,934.4	2,950.0	2,949.7	7.2	4.7	-25.05	-782.2	-94.1	669.7	658.4	11.25	59.532		
3,040.0	3,027.6	3,043.7	3,043.4	7.4	4.8	-25.89	-780.9	-92.1	651.8	640.4	11.43	57.011		
3,135.0	3,120.9	3,138.7	3,138.3	7.6	4.8	-26.83	-779.2	-89.7	633.8	622.2	11.63	54.500		
3,230.0	3,214.1	3,226.2	3,225.8	7.8	4.8	-27.77	-777.7	-87.4	616.1	604.2	11.84	52.015		
3,325.0	3,307.4	3,316.8	3,316.4	8.1	4.8	-28.76	-777.1	-85.2	599.3	587.3	12.07	49.650		
3,420.0	3,400.6	3,410.8	3,410.3	8.3	4.9	-29.86	-776.3	-82.7	582.7	570.4	12.31	47.351		
3,515.0	3,493.9	3,505.7	3,505.2	8.6	4.9	-31.15	-775.2	-79.2	566.1	553.6	12.55	45.118		
3,610.0	3,587.1	3,590.6	3,590.0	8.8	4.9	-32.41	-774.3	-75.7	549.9	537.1	12.80	42.946		
3,705.0	3,680.4	3,676.5	3,675.8	9.1	5.0	-33.67	-775.3	-72.7	536.0	522.9	13.08	40.990		
3,800.0	3,773.6	3,768.9	3,768.2	9.4	5.0	-35.09	-776.7	-69.5	522.7	509.4	13.35	39.141		
3,895.0	3,866.9	3,852.6	3,851.8	9.7	5.1	-36.23	-779.1	-68.2	510.8	497.1	13.66	37.403		
3,990.0	3,960.2	3,939.4	3,938.5	9.9	5.1	-37.43	-783.1	-67.0	500.7	486.7	13.97	35.852		
4,085.0	4,053.4	4,032.7	4,031.6	10.2	5.2	-38.80	-788.0	-65.4	491.5	477.3	14.28	34.417		
4,180.0	4,146.7	4,148.5	4,147.4	10.5	5.2	-40.45	-790.9	-64.9	479.7	465.1	14.60	32.869		
4,275.0	4,239.9	4,243.0	4,241.9	10.8	5.3	-41.78	-792.0	-65.7	466.8	451.9	14.92	31.280		
4,370.0	4,333.2	4,337.8	4,336.6	11.1	5.3	-43.13	-792.8	-67.0	453.8	438.6	15.25	29.754		
4,465.0	4,426.4	4,434.8	4,433.6	11.5	5.3	-44.56	-793.4	-68.7	440.7	425.1	15.58	28.293		
4,560.0	4,519.7	4,535.5	4,534.3	11.8	5.4	-46.35	-792.0	-69.4	426.4	410.6	15.88	26.859		
4,655.0	4,612.9	4,631.8	4,630.6	12.1	5.4	-48.26	-789.3	-70.0	411.3	395.1	16.19	25.411		
4,750.0	4,706.2	4,716.9	4,715.7	12.4	5.4	-50.24	-787.0	-69.3	397.2	380.7	16.53	24.032		

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	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	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,845.0	4,799.4	4,803.0	4,801.8	12.7	5.4	-52.55	-785.7	-66.7	385.6	368.7	16.88	22.840	
4,940.0	4,892.7	4,893.0	4,891.6	13.0	5.5	-55.19	-785.4	-62.9	376.2	359.0	17.25	21.813	
5,035.0	4,985.9	4,984.4	4,983.0	13.4	5.5	-57.92	-785.5	-59.2	368.0	350.4	17.62	20.887	
5,130.0	5,079.2	5,075.3	5,073.8	13.7	5.6	-60.53	-786.7	-56.5	361.3	343.2	18.01	20.056	
5,225.0	5,172.5	5,162.5	5,160.9	14.0	5.6	-63.06	-788.8	-53.7	356.2	337.8	18.42	19.340	
5,320.0	5,265.7	5,251.4	5,249.7	14.4	5.7	-65.78	-791.9	-49.4	353.7	334.9	18.83	18.782	
5,415.0	5,359.0	5,362.1	5,360.3	14.7	5.8	-69.26	-793.7	-45.6	349.9	330.7	19.25	18.178	
5,510.0	5,452.2	5,455.8	5,454.0	15.0	5.8	-72.25	-793.6	-43.9	344.9	325.3	19.68	17.524	
5,605.0	5,545.5	5,548.9	5,547.1	15.4	5.9	-75.25	-793.6	-42.6	340.8	320.7	20.13	16.931	
5,700.0	5,638.7	5,642.3	5,640.5	15.7	6.0	-78.28	-793.8	-41.5	337.6	317.1	20.59	16.400	
5,795.0	5,732.0	5,735.5	5,733.6	16.0	6.0	-81.35	-794.1	-40.3	335.5	314.4	21.06	15.932	
5,890.0	5,825.2	5,829.3	5,827.4	16.4	6.1	-84.50	-794.1	-39.2	334.1	312.6	21.53	15.518	
5,929.8	5,864.3	5,866.8	5,865.0	16.5	6.1	-85.86	-793.6	-38.4	333.9	312.2	21.73	15.368 CC	
5,985.0	5,918.5	5,920.3	5,918.4	16.7	6.1	-87.92	-792.4	-36.8	334.2	312.2	22.00	15.187 ES	
6,080.0	6,011.7	6,012.3	6,010.3	17.1	6.2	-91.52	-789.9	-33.8	335.7	313.2	22.48	14.932	
6,175.0	6,105.0	6,101.1	6,098.9	17.4	6.3	-95.09	-787.2	-29.7	339.6	316.6	22.96	14.789	
6,270.0	6,198.2	6,193.8	6,191.5	17.7	6.3	-98.78	-784.0	-25.2	345.1	321.6	23.45	14.716	
6,365.0	6,291.5	6,284.9	6,282.4	18.1	6.4	-102.29	-780.8	-20.7	352.1	328.2	23.93	14.714 SF	
6,460.0	6,384.8	6,370.8	6,368.2	18.4	6.4	-105.37	-778.7	-15.8	361.4	337.0	24.38	14.822	
6,555.0	6,478.0	6,463.7	6,460.8	18.8	6.5	-108.37	-777.6	-9.8	372.7	347.8	24.86	14.991	
6,650.0	6,571.2	6,555.6	6,552.6	19.1	6.6	-111.16	-776.5	-4.0	384.7	359.4	25.32	15.193	
6,745.0	6,664.8	6,639.7	6,636.4	19.5	6.7	-113.56	-776.0	2.3	398.3	372.5	25.74	15.475	
6,840.0	6,758.8	6,732.5	6,728.9	19.9	6.7	-115.61	-775.7	10.2	412.0	385.8	26.21	15.723	
6,935.0	6,853.3	6,826.2	6,822.3	20.3	6.8	-117.15	-775.5	18.2	424.8	398.1	26.68	15.921	
7,030.0	6,948.0	6,920.9	6,916.6	20.8	6.9	-118.27	-775.0	26.1	436.0	408.9	27.15	16.059	
7,125.0	7,042.9	7,015.2	7,010.6	21.1	7.0	-118.95	-774.5	34.0	446.0	418.4	27.59	16.163	
7,220.0	7,137.9	7,110.0	7,105.1	21.4	7.1	88.32	-773.8	41.9	454.4	426.5	27.96	16.251	
7,315.0	7,232.9	7,201.9	7,196.6	21.7	7.2	88.31	-773.5	49.8	462.6	434.3	28.31	16.343	
7,410.0	7,327.9	7,292.8	7,287.1	22.0	7.2	88.43	-774.3	58.5	471.7	443.0	28.64	16.466	
7,505.0	7,422.9	7,389.3	7,383.1	22.3	7.3	88.58	-775.2	67.8	480.8	451.8	29.01	16.571	
7,600.0	7,517.9	7,486.0	7,479.4	22.5	7.4	88.71	-776.2	76.7	489.5	460.1	29.39	16.657	
7,695.0	7,612.9	7,582.4	7,575.5	22.8	7.5	88.85	-777.1	85.2	497.8	468.0	29.76	16.726	
7,790.0	7,707.9	7,676.2	7,668.9	23.1	7.6	88.97	-778.1	93.3	506.0	475.9	30.13	16.797	
7,885.0	7,802.9	7,776.0	7,768.4	23.4	7.7	89.15	-779.5	101.6	513.9	483.4	30.52	16.836	
7,980.0	7,897.9	7,872.1	7,864.1	23.7	7.8	89.31	-780.9	108.8	521.0	490.1	30.90	16.860	
8,075.0	7,992.9	7,968.9	7,960.7	24.0	7.9	89.50	-782.5	115.8	527.9	496.6	31.29	16.873	
8,170.0	8,087.9	8,066.2	8,057.7	24.2	8.0	89.67	-784.0	122.5	534.4	502.7	31.68	16.872	
8,265.0	8,182.9	8,159.3	8,150.6	24.5	8.1	89.75	-784.7	128.9	540.9	508.9	32.05	16.877	
8,360.0	8,277.9	8,258.9	8,250.0	24.8	8.2	89.78	-785.0	135.6	547.3	514.8	32.46	16.862	
8,455.0	8,372.9	8,358.1	8,349.1	25.1	8.3	89.80	-785.2	141.2	552.6	519.8	32.86	16.816	
8,550.0	8,467.9	8,454.4	8,445.2	25.4	8.4	89.85	-785.7	146.2	557.7	524.4	33.26	16.767	
8,645.0	8,562.9	8,552.9	8,543.6	25.7	8.5	89.95	-786.6	150.9	562.2	528.5	33.66	16.700	
8,740.0	8,657.9	8,649.6	8,640.2	26.0	8.6	90.03	-787.4	155.0	566.1	532.1	34.06	16.620	
8,835.0	8,752.9	8,747.0	8,737.5	26.3	8.7	90.12	-788.3	158.6	569.7	535.3	34.47	16.529	
8,930.0	8,847.9	8,826.3	8,816.7	26.6	8.8	90.16	-788.7	162.1	574.0	539.2	34.79	16.496	
9,025.0	8,942.9	8,927.1	8,917.3	26.9	8.9	90.13	-788.4	168.5	580.0	544.8	35.22	16.468	
9,120.0	9,037.9	9,013.0	9,003.1	27.2	9.0	90.08	-787.9	173.4	585.4	549.8	35.58	16.453	
9,215.0	9,132.9	9,107.8	9,097.6	27.5	9.1	89.95	-786.5	180.4	592.5	556.5	35.98	16.466	
9,310.0	9,227.9	9,211.5	9,201.1	27.8	9.2	89.76	-784.6	186.4	598.0	561.6	36.42	16.418	
9,405.0	9,322.9	9,300.0	9,289.5	28.1	9.3	89.56	-782.5	191.5	603.5	566.7	36.80	16.401	
9,500.0	9,417.9	9,399.5	9,388.7	28.4	9.4	89.29	-779.6	197.8	609.6	572.3	37.22	16.377	
9,595.0	9,512.9	9,493.9	9,482.9	28.7	9.5	89.08	-777.2	203.1	614.8	577.2	37.62	16.342	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #703H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12241-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,690.0	9,607.9	9,590.0	9,578.9	29.0	9.6	88.91	-775.3	208.2	620.0	581.9	38.03	16.300	
9,785.0	9,702.9	9,687.6	9,676.3	29.3	9.7	88.79	-773.9	213.6	625.2	586.7	38.46	16.258	
9,880.0	9,797.9	9,762.9	9,751.4	29.6	9.8	88.79	-773.8	218.5	631.4	592.6	38.79	16.279	
9,975.0	9,892.9	9,866.6	9,854.8	29.9	9.9	88.89	-774.8	226.7	639.0	599.7	39.23	16.288	
10,070.0	9,987.9	9,973.9	9,962.0	30.2	10.0	88.98	-775.6	232.8	644.4	604.7	39.69	16.234	
10,165.0	10,082.9	10,066.8	10,054.8	30.5	10.1	88.98	-775.5	237.4	649.1	609.0	40.10	16.187	
10,260.0	10,177.9	10,156.4	10,144.2	30.9	10.2	88.91	-774.7	242.1	654.1	613.6	40.49	16.154	
10,355.0	10,272.9	10,245.5	10,233.2	31.2	10.3	88.84	-773.8	247.9	660.3	619.4	40.89	16.150	
10,450.0	10,367.9	10,335.3	10,322.7	31.5	10.4	88.80	-773.2	254.2	667.0	625.7	41.28	16.156	
10,545.0	10,462.9	10,430.8	10,417.9	31.8	10.5	88.81	-773.1	261.5	674.2	632.5	41.70	16.167	
10,640.0	10,557.9	10,536.2	10,523.0	32.1	10.6	88.86	-773.6	268.7	680.8	638.6	42.16	16.146	
10,735.0	10,652.9	10,629.4	10,616.1	32.4	10.7	88.86	-773.5	274.1	686.2	643.6	42.58	16.117	
10,830.0	10,747.9	10,722.0	10,708.5	32.7	10.8	88.76	-772.2	280.0	692.3	649.3	42.99	16.104	
10,925.0	10,842.9	10,814.6	10,800.9	33.0	10.9	88.64	-770.5	285.7	698.2	654.8	43.40	16.087	
11,020.0	10,937.9	10,906.9	10,893.0	33.3	11.0	88.49	-768.6	292.3	705.0	661.2	43.81	16.092	
11,115.0	11,032.9	11,014.7	11,000.6	33.7	11.2	88.40	-767.3	299.1	711.1	666.8	44.28	16.057	
11,210.0	11,127.9	11,104.0	11,089.7	34.0	11.3	88.32	-766.1	303.9	716.2	671.5	44.69	16.028	
11,305.0	11,222.9	11,206.2	11,191.7	34.3	11.4	88.29	-765.6	310.1	722.0	676.9	45.14	15.995	
11,400.0	11,317.9	11,293.2	11,278.6	34.6	11.5	88.27	-765.2	314.4	726.8	681.2	45.54	15.960	
11,495.0	11,412.9	11,389.9	11,375.0	34.9	11.6	88.22	-764.4	320.8	733.1	687.2	45.97	15.949	
11,590.0	11,507.9	11,505.7	11,490.8	35.2	11.7	88.09	-762.5	325.1	736.5	690.0	46.47	15.847	
11,685.0	11,602.9	11,590.9	11,575.9	35.6	11.8	87.99	-761.2	327.8	739.7	692.8	46.86	15.786	
11,780.0	11,697.9	11,673.6	11,658.5	35.9	11.9	87.91	-760.0	332.3	744.9	697.6	47.24	15.768	
11,875.0	11,792.9	11,759.2	11,743.9	36.2	12.0	87.89	-759.5	338.4	751.6	703.9	47.64	15.777	
11,970.0	11,887.9	11,852.1	11,836.6	36.5	12.1	87.89	-759.2	344.8	758.1	710.1	48.06	15.774	
12,065.0	11,982.9	11,963.8	11,948.0	36.8	12.3	87.85	-758.4	352.4	764.7	716.1	48.55	15.751	
12,160.0	12,077.9	12,054.9	12,038.9	37.1	12.4	87.82	-757.9	357.0	769.5	720.5	48.97	15.715	
12,255.0	12,172.9	12,150.2	12,134.1	37.5	12.5	87.81	-757.5	362.7	775.3	725.9	49.40	15.694	
12,350.0	12,267.9	12,254.3	12,238.1	37.8	12.6	87.87	-758.2	368.0	780.0	730.1	49.86	15.645	
12,445.0	12,362.9	12,352.1	12,335.7	38.1	12.6	87.96	-759.2	372.2	784.0	733.8	50.21	15.615	
12,540.0	12,457.7	12,420.0	12,403.6	38.3	12.6	-96.03	-758.9	375.8	789.7	739.4	50.31	15.698	
12,635.0	12,550.0	12,467.0	12,450.3	38.3	12.6	-95.49	-756.3	380.0	801.6	751.3	50.33	15.926	
12,730.0	12,636.0	12,490.8	12,473.6	38.3	12.7	-93.77	-753.5	383.4	822.5	772.0	50.51	16.283	
12,825.0	12,712.6	12,514.0	12,495.8	38.4	12.7	-91.11	-749.2	388.6	853.5	802.7	50.77	16.810	
12,920.0	12,776.5	12,514.0	12,495.8	38.4	12.7	-85.96	-749.2	388.6	892.5	841.4	51.12	17.458	
13,015.0	12,825.3	12,514.0	12,495.8	38.5	12.7	-79.72	-749.2	388.6	938.4	887.1	51.39	18.261	
13,110.0	12,857.2	12,514.0	12,495.8	38.6	12.7	-72.84	-749.2	388.6	988.6	937.1	51.52	19.190	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	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: Reference		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		
0.0	0.0	7.8	7.8	3.0	4.2	-168.59	-775.1	-156.4	790.7						
95.0	95.0	121.2	121.2	3.0	4.2	-168.59	-773.4	-156.1	789.3	782.0	7.24	108.994			
190.0	190.0	239.8	239.7	3.0	4.2	-168.56	-769.1	-155.6	785.9	778.7	7.24	108.523			
285.0	285.0	309.7	309.5	3.0	4.3	-168.47	-765.7	-156.2	781.7	774.4	7.27	107.587			
325.6	325.6	330.9	330.7	3.0	4.3	-168.45	-765.4	-156.5	781.2	774.0	7.27	107.401			
380.0	380.0	364.5	364.3	3.0	4.3	-168.42	-765.9	-156.9	782.1	774.9	7.28	107.438			
475.0	475.0	465.7	465.4	3.0	4.3	-168.43	-769.3	-157.5	785.4	778.1	7.30	107.592			
570.0	570.0	585.0	584.7	3.1	4.3	-168.64	-769.9	-154.7	785.4	778.0	7.33	107.133			
665.0	665.0	690.9	690.6	3.1	4.3	-168.66	-768.2	-154.1	783.8	776.4	7.37	106.353			
760.0	760.0	781.7	781.4	3.1	4.3	-168.56	-765.7	-155.0	781.4	774.0	7.42	105.369			
855.0	855.0	861.8	861.4	3.2	4.3	-168.45	-764.9	-156.3	780.7	773.3	7.46	104.603			
858.2	858.2	864.8	864.4	3.2	4.3	-168.45	-764.9	-156.3	780.7	773.3	7.47	104.580			
950.0	950.0	950.0	949.6	3.2	4.3	-168.31	-764.8	-158.2	781.0	773.5	7.51	103.951			
1,045.0	1,045.0	1,040.6	1,040.1	3.3	4.3	-168.12	-765.2	-161.0	782.0	774.5	7.57	103.368			
1,140.0	1,140.0	1,126.8	1,126.3	3.3	4.3	-167.98	-766.4	-163.2	783.9	776.2	7.62	102.866			
1,235.0	1,235.0	1,200.0	1,199.4	3.4	4.3	-167.80	-768.4	-166.2	787.3	779.6	7.67	102.611			
1,330.0	1,330.0	1,290.6	1,289.7	3.4	4.4	-167.36	-772.3	-173.2	792.8	785.1	7.74	102.476			
1,425.0	1,425.0	1,394.4	1,393.2	3.5	4.4	-166.96	-776.3	-179.8	797.8	790.0	7.81	102.094			
1,520.0	1,520.0	1,491.1	1,489.7	3.6	4.4	-166.66	-779.8	-185.0	802.3	794.4	7.89	101.639			
1,615.0	1,615.0	1,586.8	1,585.2	3.6	4.4	-166.37	-783.1	-189.8	806.6	798.6	7.98	101.113			
1,710.0	1,710.0	1,688.1	1,686.3	3.7	4.5	-166.05	-786.2	-195.3	810.6	802.6	8.07	100.468			
1,805.0	1,805.0	1,782.4	1,780.3	3.8	4.5	-165.67	-788.2	-201.4	814.1	806.0	8.16	99.763			
1,900.0	1,900.0	1,876.3	1,874.0	3.9	4.5	-165.29	-790.3	-207.4	817.6	809.4	8.26	99.034			
1,995.0	1,995.0	1,959.8	1,957.3	3.9	4.6	-164.95	-792.5	-213.1	821.8	813.5	8.35	98.422			
2,090.0	2,090.0	2,047.0	2,044.2	4.1	4.6	-12.11	-796.2	-220.0	826.3	817.7	8.54	96.721			
2,185.0	2,184.9	2,141.8	2,138.6	4.6	4.7	-11.74	-800.2	-227.5	827.7	818.6	9.07	91.287			
2,280.0	2,279.6	2,237.8	2,234.3	5.2	4.7	-11.43	-804.3	-235.1	826.1	816.5	9.62	85.899			
2,375.0	2,373.9	2,341.3	2,337.3	5.7	4.8	-11.13	-808.4	-243.4	821.3	811.1	10.15	80.902			
2,470.0	2,467.9	2,441.1	2,436.8	6.2	4.8	-10.89	-810.8	-251.2	811.9	801.2	10.66	76.132			
2,565.0	2,561.4	2,535.9	2,531.2	6.5	4.9	-10.70	-813.2	-258.6	799.5	788.5	10.98	72.796			
2,660.0	2,654.6	2,630.8	2,625.8	6.7	4.9	-10.49	-815.5	-265.8	786.0	774.8	11.16	70.451			
2,755.0	2,747.9	2,722.8	2,717.5	6.8	5.0	-10.29	-817.8	-272.7	772.5	761.1	11.35	68.078			
2,850.0	2,841.1	2,818.0	2,812.5	7.0	5.1	-10.09	-820.2	-279.5	758.9	747.3	11.56	65.649			
2,945.0	2,934.4	2,915.2	2,909.4	7.2	5.1	-9.90	-822.6	-286.3	745.2	733.4	11.79	63.206			
3,040.0	3,027.6	3,003.9	2,997.9	7.4	5.2	-9.69	-824.8	-292.8	731.6	719.6	12.03	60.805			
3,135.0	3,120.9	3,097.1	3,090.7	7.6	5.3	-9.41	-827.3	-300.5	718.6	706.3	12.29	58.451			
3,230.0	3,214.1	3,190.9	3,184.1	7.8	5.3	-9.13	-829.8	-308.0	705.4	692.9	12.57	56.122			
3,325.0	3,307.4	3,278.4	3,271.4	8.1	5.4	-8.86	-832.5	-315.0	692.7	679.8	12.85	53.885			
3,420.0	3,400.6	3,371.5	3,364.0	8.3	5.5	-8.53	-835.9	-323.2	680.7	667.6	13.16	51.735			
3,515.0	3,493.9	3,467.6	3,459.7	8.6	5.5	-8.17	-839.5	-331.7	668.8	655.3	13.47	49.637			
3,610.0	3,587.1	3,566.7	3,558.5	8.8	5.6	-7.86	-842.6	-339.4	656.1	642.3	13.80	47.550			
3,705.0	3,680.4	3,665.3	3,656.8	9.1	5.7	-7.59	-845.3	-346.3	642.7	628.6	14.13	45.491			
3,800.0	3,773.6	3,755.3	3,746.5	9.4	5.8	-7.35	-847.6	-352.4	629.3	614.8	14.46	43.504			
3,895.0	3,866.9	3,844.8	3,835.7	9.7	5.9	-7.07	-850.9	-359.1	616.9	602.1	14.81	41.649			
3,990.0	3,960.2	3,939.4	3,930.0	9.9	5.9	-6.78	-854.4	-366.0	604.6	589.5	15.17	39.860			
4,085.0	4,053.4	4,031.9	4,022.2	10.2	6.0	-6.49	-857.9	-372.7	592.3	576.8	15.53	38.136			
4,180.0	4,146.7	4,117.4	4,107.2	10.5	6.1	-6.13	-861.8	-380.1	581.3	565.4	15.91	36.546			
4,275.0	4,239.9	4,210.8	4,200.2	10.8	6.2	-5.69	-866.4	-388.6	570.7	554.4	16.29	35.034			
4,370.0	4,333.2	4,304.0	4,292.9	11.1	6.3	-5.25	-871.1	-397.1	560.3	543.6	16.68	33.592			
4,465.0	4,426.4	4,393.6	4,381.9	11.5	6.4	-4.86	-876.3	-405.0	550.5	533.4	17.07	32.241			
4,560.0	4,519.7	4,485.8	4,473.6	11.8	6.4	-4.52	-882.5	-412.5	541.2	523.7	17.47	30.974			
4,655.0	4,612.9	4,580.7	4,568.1	12.1	6.5	-4.27	-889.3	-419.6	532.1	514.2	17.87	29.772			

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	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			
Reference Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Offset Well Error: 3.0 usft		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
4,750.0	4,706.2	4,689.7	4,676.6	12.4	6.6	-4.08	-896.1	-426.0	521.6	503.3	18.27	28.544	
4,845.0	4,799.4	4,795.2	4,781.9	12.7	6.7	-4.05	-901.1	-430.1	509.0	490.4	18.66	27.275	
4,940.0	4,892.7	4,892.0	4,878.6	13.0	6.8	-4.03	-904.5	-433.2	495.1	476.0	19.06	25.979	
5,035.0	4,985.9	4,990.0	4,976.5	13.4	6.9	-4.02	-907.4	-435.9	480.7	461.2	19.45	24.710	
5,130.0	5,079.2	5,089.4	5,075.8	13.7	7.0	-3.80	-908.4	-439.8	464.8	445.0	19.84	23.433	
5,225.0	5,172.5	5,184.2	5,170.6	14.0	7.1	-3.65	-909.1	-442.6	448.5	428.2	20.23	22.169	
5,320.0	5,265.7	5,276.9	5,263.3	14.4	7.2	-3.76	-910.6	-443.6	432.2	411.5	20.64	20.943	
5,415.0	5,359.0	5,372.4	5,358.8	14.7	7.3	-3.93	-912.1	-444.3	415.7	394.7	21.04	19.761	
5,510.0	5,452.2	5,465.4	5,451.7	15.0	7.4	-4.07	-913.4	-445.1	399.2	377.7	21.45	18.611	
5,605.0	5,545.5	5,556.7	5,543.0	15.4	7.4	-4.26	-915.1	-445.9	382.9	361.1	21.86	17.514	
5,700.0	5,638.7	5,650.3	5,636.6	15.7	7.5	-4.47	-917.0	-446.7	366.9	344.7	22.28	16.473	
5,795.0	5,732.0	5,750.9	5,737.1	16.0	7.6	-4.60	-918.1	-447.9	350.3	327.6	22.66	15.462	
5,890.0	5,825.2	5,844.3	5,830.6	16.4	7.7	-4.44	-917.5	-450.2	332.5	309.5	23.04	14.434	
5,985.0	5,918.5	5,937.6	5,923.8	16.7	7.8	-4.24	-916.8	-452.6	314.7	291.3	23.42	13.435	
6,080.0	6,011.7	6,032.0	6,018.2	17.1	7.9	-4.05	-915.9	-454.7	296.8	273.0	23.80	12.467	
6,175.0	6,105.0	6,123.4	6,109.6	17.4	8.0	-3.82	-915.3	-457.0	279.0	254.7	24.21	11.524	
6,270.0	6,198.2	6,216.8	6,202.9	17.7	8.0	-3.60	-915.0	-459.2	261.5	236.9	24.61	10.627	
6,365.0	6,291.5	6,310.3	6,296.4	18.1	8.1	-3.36	-914.6	-461.4	243.9	218.9	25.01	9.755	
6,460.0	6,384.8	6,403.6	6,389.7	18.4	8.2	-3.08	-914.2	-463.5	226.4	201.0	25.41	8.908	
6,555.0	6,478.0	6,497.1	6,483.2	18.8	8.3	-2.71	-913.7	-465.9	208.8	183.0	25.82	8.087	
6,650.0	6,571.2	6,590.5	6,576.5	19.1	8.4	-2.27	-913.1	-468.0	191.0	164.8	26.23	7.283	
6,745.0	6,664.8	6,684.1	6,670.1	19.5	8.5	-1.70	-912.6	-470.4	175.0	148.3	26.68	6.560	
6,840.0	6,758.8	6,778.3	6,764.3	19.9	8.6	-1.04	-912.0	-472.6	162.0	134.8	27.18	5.961	
6,935.0	6,853.3	6,872.7	6,858.6	20.3	8.7	-0.26	-911.5	-474.8	152.2	124.5	27.72	5.490	
7,030.0	6,948.0	6,967.3	6,953.2	20.8	8.8	0.61	-911.0	-477.1	145.6	117.4	28.26	5.152	
7,125.0	7,042.9	7,062.3	7,048.2	21.1	8.9	1.52	-910.5	-479.4	142.2	113.5	28.76	4.946	
7,205.0	7,123.3	7,143.2	7,129.1	21.4	9.0	2.29	-910.0	-481.2	141.5	112.4	29.09	4.864	
7,220.0	7,137.9	7,157.6	7,143.5	21.4	9.0	-150.02	-909.9	-481.6	141.8	112.6	29.15	4.864	
7,315.0	7,232.9	7,252.4	7,238.2	21.7	9.1	-149.11	-909.3	-483.8	142.4	112.9	29.57	4.816	
7,410.0	7,327.9	7,348.8	7,334.6	22.0	9.2	-148.77	-908.8	-484.5	142.3	112.5	29.88	4.764	
7,505.0	7,422.9	7,443.7	7,429.6	22.3	9.2	-148.52	-908.2	-484.9	142.0	111.8	30.19	4.705	
7,600.0	7,517.9	7,538.8	7,524.6	22.5	9.3	-148.29	-907.7	-485.2	141.7	111.2	30.50	4.647	
7,695.0	7,612.9	7,633.8	7,619.6	22.8	9.3	-148.02	-907.1	-485.6	141.4	110.6	30.81	4.589	
7,790.0	7,707.9	7,729.0	7,714.8	23.1	9.4	-147.80	-906.5	-485.9	141.1	110.0	31.12	4.534	
7,885.0	7,802.9	7,823.6	7,809.4	23.4	9.5	-147.56	-906.0	-486.3	140.9	109.4	31.45	4.479	
7,980.0	7,897.9	7,918.7	7,904.5	23.7	9.6	-147.30	-905.5	-486.7	140.7	108.9	31.78	4.427	
8,075.0	7,992.9	8,013.5	7,999.3	24.0	9.6	-147.01	-904.9	-487.1	140.4	108.3	32.11	4.372	
8,161.7	8,079.6	8,100.1	8,085.9	24.2	9.7	-146.72	-904.4	-487.7	140.3	107.9	32.44	4.327	
8,170.0	8,087.9	8,108.3	8,094.1	24.2	9.7	-146.69	-904.4	-487.8	140.3	107.9	32.47	4.322	
8,265.0	8,182.9	8,203.3	8,189.1	24.5	9.8	-146.38	-904.0	-488.4	140.4	107.6	32.83	4.277	
8,360.0	8,277.9	8,297.2	8,283.0	24.8	9.9	-145.96	-903.8	-489.5	140.9	107.6	33.23	4.239	
8,455.0	8,372.9	8,392.3	8,378.1	25.1	10.0	-145.60	-904.0	-490.8	141.7	108.1	33.62	4.215	
8,550.0	8,467.9	8,487.5	8,473.3	25.4	10.1	-145.72	-904.7	-490.9	142.3	108.3	34.00	4.186	
8,645.0	8,562.9	8,582.2	8,568.0	25.7	10.1	-145.93	-905.7	-490.9	143.2	108.8	34.38	4.164	
8,740.0	8,657.9	8,677.1	8,662.9	26.0	10.2	-146.21	-906.7	-490.8	144.0	109.2	34.75	4.143	
8,835.0	8,752.9	8,772.2	8,758.0	26.3	10.2	-146.50	-907.8	-490.6	144.7	109.6	35.12	4.121	
8,930.0	8,847.9	8,867.4	8,853.1	26.6	10.2	-146.88	-908.9	-490.1	145.4	109.9	35.47	4.099	
9,025.0	8,942.9	8,962.6	8,948.3	26.9	10.2	-147.40	-910.1	-489.4	146.0	110.2	35.81	4.077	
9,120.0	9,037.9	9,057.6	9,043.3	27.2	10.3	-147.90	-911.3	-488.6	146.6	110.4	36.15	4.055	
9,215.0	9,132.9	9,152.5	9,138.2	27.5	10.3	-148.42	-912.5	-487.8	147.2	110.7	36.49	4.035	
9,310.0	9,227.9	9,247.3	9,233.0	27.8	10.3	-148.97	-913.7	-486.8	147.7	110.9	36.83	4.010	
9,405.0	9,322.9	9,342.7	9,328.4	28.1	10.3	-149.53	-914.9	-485.9	148.3	111.1	37.17	3.989	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #704H - OWB - AWP													Offset Site Error: 3.0 usft
Survey Program: 100-Standard Keeper 104, 12139-MWD+IFR1+FDIR													Offset Well Error: 3.0 usft
Reference													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,500.0	9,417.9	9,438.3	9,423.9	28.4	10.3	-150.04	-915.8	-484.9	148.6	111.1	37.50	3.963	
9,595.0	9,512.9	9,533.9	9,519.6	28.7	10.3	-150.61	-916.5	-483.6	148.5	110.7	37.81	3.927	
9,690.0	9,607.9	9,628.9	9,614.5	29.0	10.3	-151.15	-916.9	-482.2	148.1	110.0	38.12	3.886	
9,785.0	9,702.9	9,724.3	9,709.9	29.3	10.3	-151.48	-916.9	-481.2	147.7	109.3	38.43	3.844	
9,880.0	9,797.9	9,818.5	9,804.2	29.6	10.3	-151.76	-917.0	-480.5	147.5	108.7	38.76	3.804	
9,881.3	9,799.2	9,819.8	9,805.5	29.6	10.3	-151.77	-917.0	-480.5	147.5	108.7	38.77	3.804	
9,975.0	9,892.9	9,913.1	9,898.7	29.9	10.3	-152.00	-917.4	-480.0	147.6	108.5	39.13	3.773	
10,070.0	9,987.9	10,007.3	9,992.9	30.2	10.3	-152.21	-918.1	-479.7	148.1	108.5	39.52	3.747	
10,165.0	10,082.9	10,102.5	10,088.1	30.5	10.4	-152.38	-918.9	-479.6	148.7	108.8	39.91	3.726	
10,260.0	10,177.9	10,197.3	10,183.0	30.9	10.4	-152.53	-919.8	-479.7	149.5	109.2	40.31	3.709	
10,355.0	10,272.9	10,292.1	10,277.7	31.2	10.5	-152.64	-920.7	-479.8	150.4	109.7	40.72	3.695	
10,450.0	10,367.9	10,386.5	10,372.1	31.5	10.6	-152.59	-921.5	-480.4	151.4	110.3	41.14	3.680	
10,545.0	10,462.9	10,481.5	10,467.1	31.8	10.7	-152.46	-922.4	-481.3	152.6	111.1	41.56	3.673	
10,640.0	10,557.9	10,576.2	10,561.8	32.1	10.8	-152.33	-923.5	-482.2	154.0	112.0	41.99	3.668	
10,735.0	10,652.9	10,672.6	10,658.2	32.4	10.9	-152.37	-924.5	-482.6	155.1	112.7	42.38	3.659	
10,830.0	10,747.9	10,768.1	10,753.7	32.7	11.0	-152.57	-925.1	-482.3	155.5	112.7	42.76	3.636	
10,925.0	10,842.9	10,862.6	10,848.2	33.0	11.0	-152.81	-925.8	-482.0	155.9	112.8	43.15	3.613	
11,020.0	10,937.9	10,958.8	10,944.4	33.3	11.0	-153.09	-926.3	-481.4	156.1	112.6	43.50	3.589	
11,115.0	11,032.9	11,055.4	11,041.0	33.7	11.0	-153.34	-926.2	-480.5	155.6	111.8	43.81	3.553	
11,210.0	11,127.9	11,151.0	11,136.5	34.0	11.0	-153.43	-925.2	-479.8	154.4	110.3	44.11	3.501	
11,305.0	11,222.9	11,246.5	11,232.1	34.3	11.0	-153.34	-923.5	-479.2	152.7	108.3	44.43	3.437	
11,400.0	11,317.9	11,339.9	11,325.5	34.6	11.0	-153.05	-922.0	-479.3	151.4	106.6	44.78	3.380	
11,451.6	11,369.5	11,390.3	11,375.8	34.8	11.1	-152.84	-921.6	-479.7	151.1	106.2	44.99	3.359	
11,495.0	11,412.9	11,433.2	11,418.8	34.9	11.1	-152.66	-921.4	-480.1	151.2	106.0	45.18	3.347	
11,590.0	11,507.9	11,526.2	11,511.8	35.2	11.2	-152.42	-921.8	-481.0	151.9	106.3	45.61	3.331	
11,685.0	11,602.9	11,620.5	11,606.0	35.6	11.3	-152.69	-923.6	-481.2	153.7	107.7	46.03	3.339	
11,780.0	11,697.9	11,714.3	11,699.8	35.9	11.4	-152.93	-925.8	-481.6	155.9	109.4	46.45	3.356	
11,875.0	11,792.9	11,809.1	11,794.6	36.2	11.5	-153.16	-928.4	-482.2	158.4	111.6	46.86	3.380	
11,970.0	11,887.9	11,904.2	11,889.6	36.5	11.5	-153.24	-931.2	-483.4	161.4	114.2	47.28	3.414	
12,065.0	11,982.9	11,999.1	11,984.5	36.8	11.7	-153.00	-933.2	-485.1	164.0	116.3	47.71	3.438	
12,160.0	12,077.9	12,094.3	12,079.6	37.1	11.8	-152.56	-935.0	-487.5	166.7	118.6	48.15	3.462	
12,255.0	12,172.9	12,188.9	12,174.2	37.5	11.8	-152.23	-936.8	-489.6	169.3	120.7	48.57	3.486	
12,350.0	12,267.9	12,283.3	12,268.6	37.8	11.9	-151.95	-939.1	-491.7	172.3	123.3	48.93	3.521	
12,445.0	12,362.9	12,378.3	12,363.5	38.1	11.9	-151.62	-941.3	-494.0	175.4	126.1	49.28	3.559	
12,540.0	12,457.9	12,491.1	12,476.1	38.3	11.9	26.17	-941.5	-497.8	173.7	124.2	49.53	3.508	
12,635.0	12,550.0	12,633.4	12,605.7	38.3	12.0	55.08	-886.2	-502.7	126.0	74.0	51.95	2.425	
12,730.0	12,636.0	12,682.0	12,644.5	38.3	12.0	84.73	-857.1	-503.0	87.5	38.0	49.54	1.767	Advise and Monitor
12,738.4	12,643.3	12,685.0	12,646.9	38.3	12.0	86.62	-855.2	-503.1	87.2	37.8	49.37	1.765	Advise and Monitor, CC, ES, SF
12,825.0	12,712.6	12,704.0	12,661.8	38.4	12.0	93.76	-843.5	-503.3	120.4	68.8	51.53	2.336	
12,920.0	12,776.5	12,711.4	12,667.6	38.4	12.0	81.94	-838.8	-503.3	197.4	144.7	52.65	3.749	
13,015.0	12,825.3	12,704.0	12,661.8	38.5	12.0	54.13	-843.5	-503.3	284.3	231.3	52.98	5.367	
13,110.0	12,857.2	12,675.1	12,639.1	38.6	12.0	29.94	-861.3	-503.0	370.5	317.3	53.24	6.959	
13,205.0	12,870.7	12,644.4	12,614.7	38.6	12.0	18.99	-879.9	-502.8	451.3	398.2	53.10	8.498	
13,300.0	12,869.6	12,609.0	12,585.1	38.7	12.0	13.91	-899.4	-502.7	528.1	475.3	52.86	9.992	
13,395.0	12,867.5	12,609.0	12,585.1	38.9	12.0	10.99	-899.4	-502.7	607.8	555.8	52.06	11.675	
13,490.0	12,865.3	12,575.7	12,556.0	39.0	12.0	7.31	-915.6	-502.3	689.8	637.9	51.95	13.279	
13,585.0	12,863.2	12,562.0	12,543.8	39.2	12.0	6.99	-921.7	-501.9	774.0	722.4	51.60	14.999	
13,680.0	12,861.1	12,562.0	12,543.8	39.3	12.0	6.99	-921.7	-501.9	860.1	809.0	51.15	16.815	
13,775.0	12,859.0	12,562.0	12,543.8	39.5	12.0	6.99	-921.7	-501.9	948.0	897.2	50.79	18.663	

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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	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 606H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,950.0	12,721.4	12,300.0	12,271.3	69.8	44.4	-0.18	-8,816.1	-395.5	931.4	846.4	84.94	10.966	
20,045.0	12,719.3	12,309.8	12,279.9	70.4	44.4	-0.19	-8,820.7	-395.5	846.6	761.2	85.33	9.920	
20,140.0	12,717.2	12,325.0	12,293.1	71.0	44.5	-0.20	-8,828.3	-395.4	763.2	677.4	85.82	8.894	
20,235.0	12,715.0	12,350.0	12,314.2	71.6	44.5	-0.21	-8,841.7	-395.3	681.8	595.4	86.35	7.895	
20,330.0	12,712.9	12,375.0	12,334.6	72.3	44.6	-0.22	-8,856.1	-395.2	602.5	515.5	87.01	6.925	
20,425.0	12,710.8	12,400.0	12,354.3	72.9	44.6	-0.24	-8,871.6	-395.1	525.9	438.1	87.83	5.988	
20,520.0	12,708.7	12,425.0	12,373.0	73.5	44.7	-0.25	-8,888.1	-394.9	452.7	363.8	88.88	5.093	
20,595.7	12,707.0	12,450.0	12,390.9	74.0	44.7	-0.27	-8,905.6	-394.8	397.4	307.6	89.83	4.424 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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	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		
19,950.0	12,721.4	12,475.0	12,466.5	69.8	15.8	-67.42	-8,777.6	103.0	967.0	901.4	65.57	14.747		
20,045.0	12,719.3	12,475.0	12,466.5	70.4	15.8	-67.42	-8,777.6	103.0	889.9	822.5	67.37	13.208		
20,140.0	12,717.2	12,492.4	12,483.1	71.0	15.8	-69.08	-8,782.8	103.0	816.1	746.9	69.24	11.786		
20,235.0	12,715.0	12,500.0	12,490.2	71.6	15.8	-69.80	-8,785.3	103.0	746.8	675.2	71.61	10.429		
20,330.0	12,712.9	12,525.0	12,513.6	72.3	15.8	-72.21	-8,794.2	103.1	683.0	609.1	73.95	9.236		
20,425.0	12,710.8	12,539.7	12,527.1	72.9	15.8	-73.64	-8,800.0	103.2	626.2	549.5	76.73	8.161		
20,520.0	12,708.7	12,562.7	12,547.8	73.5	15.8	-75.87	-8,809.9	103.2	578.3	498.9	79.39	7.284		
20,595.7	12,707.0	12,585.0	12,567.5	74.0	15.8	-78.04	-8,820.5	103.3	547.5	466.2	81.29	6.736 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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	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 706H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 12420-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
20,045.0	12,719.3	12,563.3	12,472.7	70.4	15.0	73.31	-8,785.7	-1,067.0	992.9	923.8	69.06	14.378		
20,140.0	12,717.2	12,575.0	12,483.8	71.0	15.0	74.20	-8,789.3	-1,067.0	927.7	856.4	71.29	13.013		
20,235.0	12,715.0	12,587.5	12,495.6	71.6	15.0	75.14	-8,793.5	-1,066.9	867.7	793.9	73.78	11.761		
20,330.0	12,712.9	12,600.0	12,507.3	72.3	15.0	76.09	-8,797.9	-1,066.9	813.8	737.3	76.48	10.640		
20,425.0	12,710.8	12,625.0	12,530.3	72.9	15.0	77.97	-8,807.7	-1,066.8	767.1	688.1	79.04	9.705		
20,520.0	12,708.7	12,645.0	12,548.3	73.5	15.0	79.47	-8,816.5	-1,066.8	728.9	647.2	81.69	8.922		
20,595.7	12,707.0	12,667.6	12,568.1	74.0	15.0	81.14	-8,827.2	-1,066.7	705.0	621.5	83.53	8.440 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 #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	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' @ 3425.5usft (TBD)

Offset Depths are relative to Offset Datum

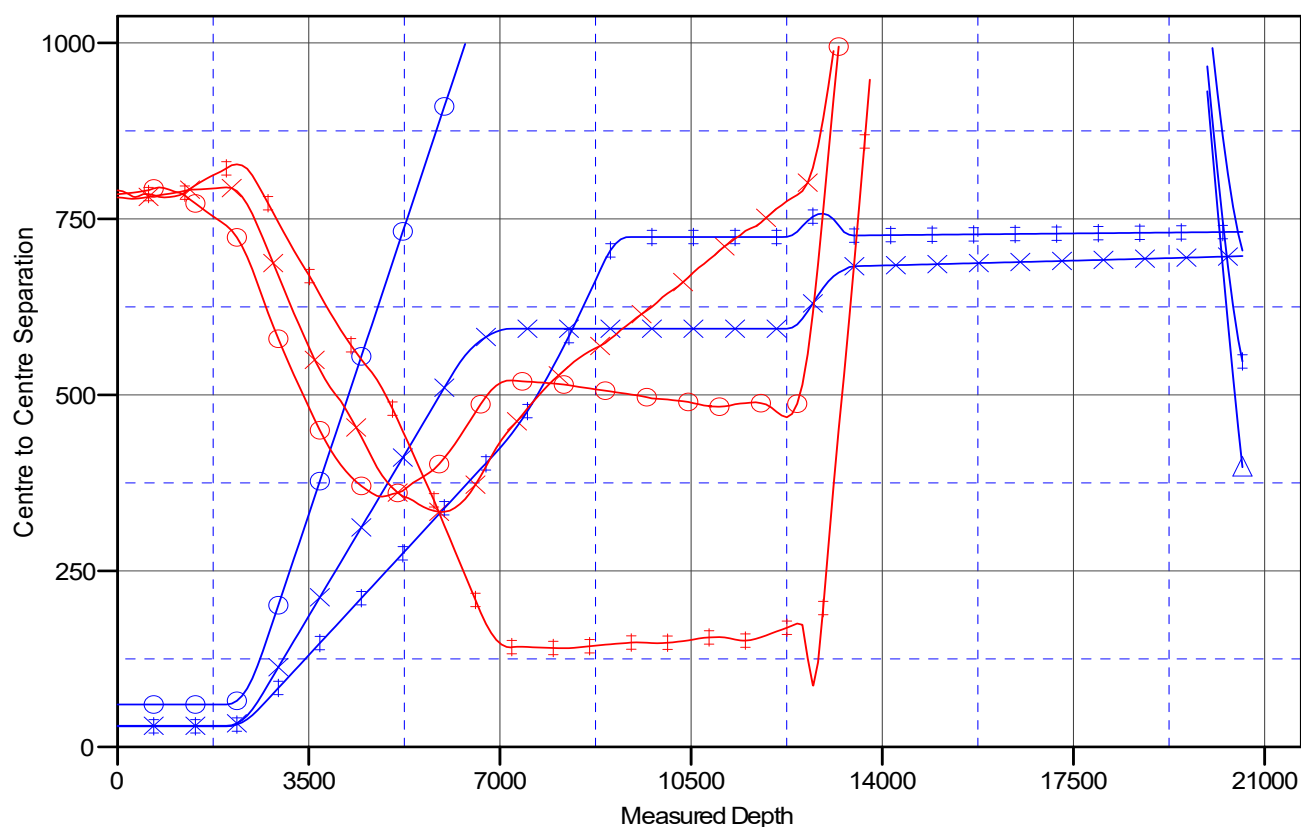
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: BANDANA FEDERAL COM #704H

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

Grid Convergence at Surface is: 0.48°

Ladder Plot



LEGEND

BANDANA FEDERAL COM #603H, OWB, PWP0 V0
 BANDANA FEDERAL COM #604H, OWB, PWP0 V0
 BANDANA FEDERAL COM #703H, OWB, PWP0 V0

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

PITCHBLEND 24-25 FED 604H, OWB, PWP1 V0
 PITCHBLEND 24-25 FED 704H, OWB, PWP1 V0
 PITCHBLEND 24-25 FED 704H, OWB, PWP1 V0

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #704H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #704H	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' @ 3425.5usft (TBD)

Offset Depths are relative to Offset Datum

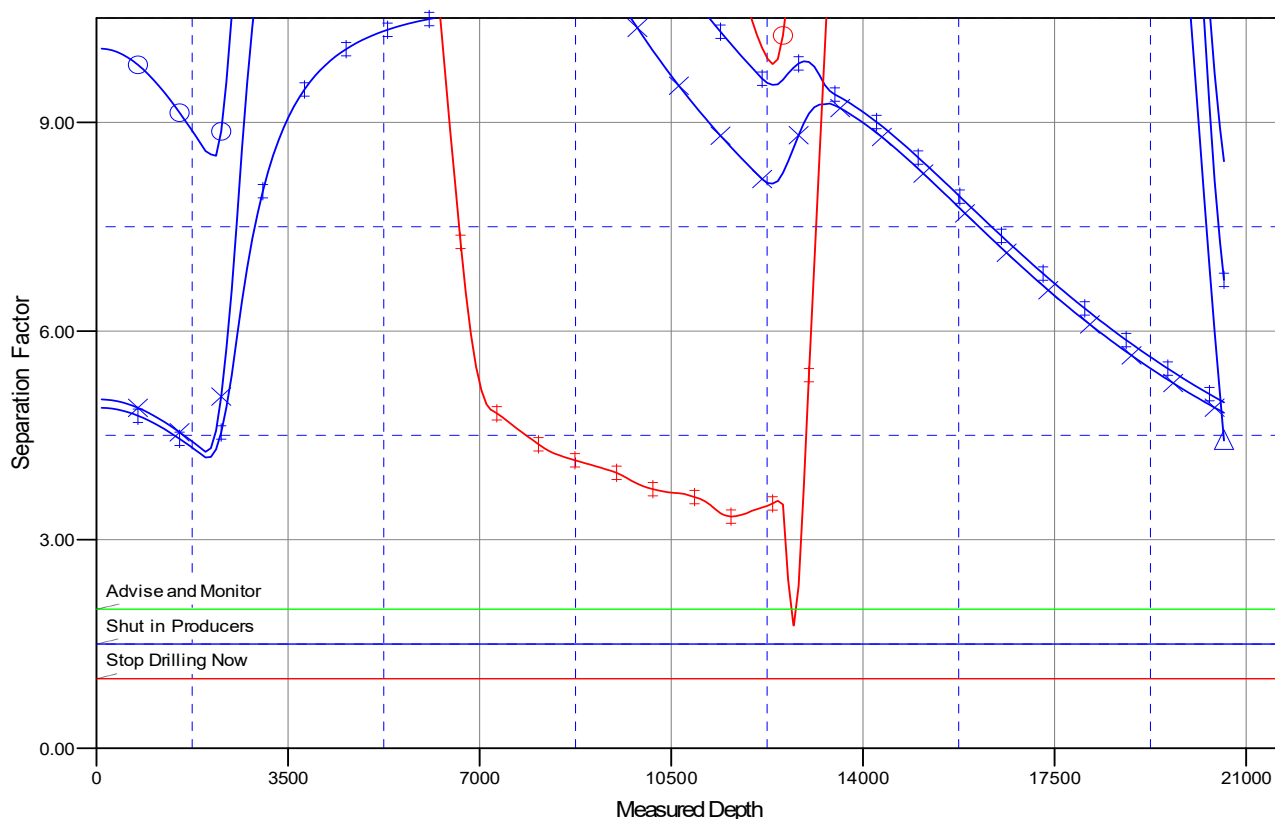
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: BANDANA FEDERAL COM #704H

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 #603H, OWB, PWP0 V0
 BANDANA FEDERAL COM #604H, OWB, PWP0 V0
 BANDANA FEDERAL COM #703H, OWB, PWP0 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 604H, OWB, PWP1 V0
 PITCHBLEND 24-25 FED 703H, OWB, PWP1 V0
 PITCHBLEND 24-25 FED 704H, 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 #704H

300254980000

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 #704H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #704H	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 #704H		
Well Position	+N/-S	-1,906.6 usft	Northing: 418,355.50 usft
	+E/-W	-3,795.9 usft	Easting: 780,519.00 usft
Position Uncertainty		3.0 usft	Wellhead Elevation:
			Latitude: 32° 8' 48.950 N
			Longitude: 103° 25' 37.150 W
			Ground Level: 3,395.5 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	1/1/2023	6.28	59.74	47,469.35384185

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	182.64

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	12,475.8 PWP0 (OWB)	MWD+IFR1+MS	
			OWSG MWD + IFR1 + Multi-St	
3	12,475.8	20,595.7 PWP0 (OWB)	MWD+IFR1+MS	
			OWSG MWD + IFR1 + Multi-St	

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Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #704H	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	
2,550.1	11.00	207.56	2,546.8	-46.7	-24.4	2.00	2.00	0.00	207.56	
6,650.0	11.00	207.56	6,571.2	-740.4	-386.3	0.00	0.00	0.00	0.00	
7,200.1	0.00	0.00	7,118.0	-787.1	-410.7	2.00	-2.00	0.00	180.00	
12,475.8	0.00	0.00	12,393.7	-787.1	-410.7	0.00	0.00	0.00	0.00	
13,236.4	91.28	184.30	12,871.0	-1,273.8	-447.3	12.00	12.00	0.00	184.30	
13,474.3	91.28	179.54	12,865.7	-1,511.4	-455.3	2.00	0.00	-2.00	-89.95	
20,545.6	91.28	179.54	12,708.1	-8,580.8	-398.7	0.00	0.00	0.00	0.00	
20,595.7	91.28	179.54	12,707.0	-8,630.8	-398.3	0.00	0.00	0.00	0.00	

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Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #704H	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	207.56	2,100.0	-1.5	-0.8	1.6	2.00	2.00	0.00
2,200.0	4.00	207.56	2,199.8	-6.2	-3.2	6.3	2.00	2.00	0.00
2,300.0	6.00	207.56	2,299.5	-13.9	-7.3	14.2	2.00	2.00	0.00
2,400.0	8.00	207.56	2,398.7	-24.7	-12.9	25.3	2.00	2.00	0.00
2,500.0	10.00	207.56	2,497.5	-38.6	-20.1	39.5	2.00	2.00	0.00
2,550.1	11.00	207.56	2,546.8	-46.7	-24.4	47.8	2.00	2.00	0.00
Start 4099.8 hold at 2550.1 MD									
2,600.0	11.00	207.56	2,595.7	-55.1	-28.8	56.4	0.00	0.00	0.00
2,700.0	11.00	207.56	2,693.9	-72.0	-37.6	73.7	0.00	0.00	0.00
2,800.0	11.00	207.56	2,792.0	-89.0	-46.4	91.0	0.00	0.00	0.00
2,900.0	11.00	207.56	2,890.2	-105.9	-55.3	108.3	0.00	0.00	0.00
3,000.0	11.00	207.56	2,988.4	-122.8	-64.1	125.6	0.00	0.00	0.00
3,100.0	11.00	207.56	3,086.5	-139.7	-72.9	142.9	0.00	0.00	0.00
3,200.0	11.00	207.56	3,184.7	-156.6	-81.7	160.3	0.00	0.00	0.00
3,300.0	11.00	207.56	3,282.8	-173.6	-90.6	177.6	0.00	0.00	0.00
3,400.0	11.00	207.56	3,381.0	-190.5	-99.4	194.9	0.00	0.00	0.00
3,500.0	11.00	207.56	3,479.2	-207.4	-108.2	212.2	0.00	0.00	0.00
3,600.0	11.00	207.56	3,577.3	-224.3	-117.1	229.5	0.00	0.00	0.00
3,700.0	11.00	207.56	3,675.5	-241.3	-125.9	246.8	0.00	0.00	0.00
3,800.0	11.00	207.56	3,773.6	-258.2	-134.7	264.1	0.00	0.00	0.00
3,900.0	11.00	207.56	3,871.8	-275.1	-143.5	281.4	0.00	0.00	0.00
4,000.0	11.00	207.56	3,970.0	-292.0	-152.4	298.7	0.00	0.00	0.00
4,100.0	11.00	207.56	4,068.1	-308.9	-161.2	316.0	0.00	0.00	0.00
4,200.0	11.00	207.56	4,166.3	-325.9	-170.0	333.3	0.00	0.00	0.00
4,300.0	11.00	207.56	4,264.5	-342.8	-178.9	350.7	0.00	0.00	0.00
4,400.0	11.00	207.56	4,362.6	-359.7	-187.7	368.0	0.00	0.00	0.00
4,500.0	11.00	207.56	4,460.8	-376.6	-196.5	385.3	0.00	0.00	0.00
4,600.0	11.00	207.56	4,558.9	-393.5	-205.3	402.6	0.00	0.00	0.00
4,700.0	11.00	207.56	4,657.1	-410.5	-214.2	419.9	0.00	0.00	0.00
4,800.0	11.00	207.56	4,755.3	-427.4	-223.0	437.2	0.00	0.00	0.00
4,900.0	11.00	207.56	4,853.4	-444.3	-231.8	454.5	0.00	0.00	0.00
5,000.0	11.00	207.56	4,951.6	-461.2	-240.7	471.8	0.00	0.00	0.00

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Planning Report

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Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #704H	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)
5,100.0	11.00	207.56	5,049.8	-478.1	-249.5	489.1	0.00	0.00	0.00
5,200.0	11.00	207.56	5,147.9	-495.1	-258.3	506.4	0.00	0.00	0.00
5,300.0	11.00	207.56	5,246.1	-512.0	-267.1	523.8	0.00	0.00	0.00
5,400.0	11.00	207.56	5,344.2	-528.9	-276.0	541.1	0.00	0.00	0.00
5,500.0	11.00	207.56	5,442.4	-545.8	-284.8	558.4	0.00	0.00	0.00
5,600.0	11.00	207.56	5,540.6	-562.7	-293.6	575.7	0.00	0.00	0.00
5,700.0	11.00	207.56	5,638.7	-579.7	-302.5	593.0	0.00	0.00	0.00
5,800.0	11.00	207.56	5,736.9	-596.6	-311.3	610.3	0.00	0.00	0.00
5,900.0	11.00	207.56	5,835.0	-613.5	-320.1	627.6	0.00	0.00	0.00
6,000.0	11.00	207.56	5,933.2	-630.4	-329.0	644.9	0.00	0.00	0.00
6,100.0	11.00	207.56	6,031.4	-647.4	-337.8	662.2	0.00	0.00	0.00
6,200.0	11.00	207.56	6,129.5	-664.3	-346.6	679.5	0.00	0.00	0.00
6,300.0	11.00	207.56	6,227.7	-681.2	-355.4	696.9	0.00	0.00	0.00
6,400.0	11.00	207.56	6,325.9	-698.1	-364.3	714.2	0.00	0.00	0.00
6,500.0	11.00	207.56	6,424.0	-715.0	-373.1	731.5	0.00	0.00	0.00
6,600.0	11.00	207.56	6,522.2	-732.0	-381.9	748.8	0.00	0.00	0.00
6,650.0	11.00	207.56	6,571.2	-740.4	-386.3	757.4	0.00	0.00	0.00
Start Drop -2.00									
6,700.0	10.00	207.56	6,620.4	-748.5	-390.6	765.7	2.00	-2.00	0.00
6,800.0	8.00	207.56	6,719.2	-762.4	-397.8	779.9	2.00	-2.00	0.00
6,900.0	6.00	207.56	6,818.4	-773.2	-403.4	791.0	2.00	-2.00	0.00
7,000.0	4.00	207.56	6,918.0	-780.9	-407.5	798.9	2.00	-2.00	0.00
7,100.0	2.00	207.56	7,017.9	-785.5	-409.9	803.6	2.00	-2.00	0.00
7,200.1	0.00	0.00	7,118.0	-787.1	-410.7	805.2	2.00	-2.00	0.00
Start 5275.7 hold at 7200.1 MD									
7,300.0	0.00	0.00	7,217.9	-787.1	-410.7	805.2	0.00	0.00	0.00
7,400.0	0.00	0.00	7,317.9	-787.1	-410.7	805.2	0.00	0.00	0.00
7,500.0	0.00	0.00	7,417.9	-787.1	-410.7	805.2	0.00	0.00	0.00
7,600.0	0.00	0.00	7,517.9	-787.1	-410.7	805.2	0.00	0.00	0.00
7,700.0	0.00	0.00	7,617.9	-787.1	-410.7	805.2	0.00	0.00	0.00
7,800.0	0.00	0.00	7,717.9	-787.1	-410.7	805.2	0.00	0.00	0.00
7,900.0	0.00	0.00	7,817.9	-787.1	-410.7	805.2	0.00	0.00	0.00
8,000.0	0.00	0.00	7,917.9	-787.1	-410.7	805.2	0.00	0.00	0.00
8,100.0	0.00	0.00	8,017.9	-787.1	-410.7	805.2	0.00	0.00	0.00
8,200.0	0.00	0.00	8,117.9	-787.1	-410.7	805.2	0.00	0.00	0.00
8,300.0	0.00	0.00	8,217.9	-787.1	-410.7	805.2	0.00	0.00	0.00
8,400.0	0.00	0.00	8,317.9	-787.1	-410.7	805.2	0.00	0.00	0.00
8,500.0	0.00	0.00	8,417.9	-787.1	-410.7	805.2	0.00	0.00	0.00
8,600.0	0.00	0.00	8,517.9	-787.1	-410.7	805.2	0.00	0.00	0.00
8,700.0	0.00	0.00	8,617.9	-787.1	-410.7	805.2	0.00	0.00	0.00
8,800.0	0.00	0.00	8,717.9	-787.1	-410.7	805.2	0.00	0.00	0.00
8,900.0	0.00	0.00	8,817.9	-787.1	-410.7	805.2	0.00	0.00	0.00
9,000.0	0.00	0.00	8,917.9	-787.1	-410.7	805.2	0.00	0.00	0.00
9,100.0	0.00	0.00	9,017.9	-787.1	-410.7	805.2	0.00	0.00	0.00
9,200.0	0.00	0.00	9,117.9	-787.1	-410.7	805.2	0.00	0.00	0.00
9,300.0	0.00	0.00	9,217.9	-787.1	-410.7	805.2	0.00	0.00	0.00
9,400.0	0.00	0.00	9,317.9	-787.1	-410.7	805.2	0.00	0.00	0.00
9,500.0	0.00	0.00	9,417.9	-787.1	-410.7	805.2	0.00	0.00	0.00
9,600.0	0.00	0.00	9,517.9	-787.1	-410.7	805.2	0.00	0.00	0.00
9,700.0	0.00	0.00	9,617.9	-787.1	-410.7	805.2	0.00	0.00	0.00
9,800.0	0.00	0.00	9,717.9	-787.1	-410.7	805.2	0.00	0.00	0.00
9,900.0	0.00	0.00	9,817.9	-787.1	-410.7	805.2	0.00	0.00	0.00
10,000.0	0.00	0.00	9,917.9	-787.1	-410.7	805.2	0.00	0.00	0.00
10,100.0	0.00	0.00	10,017.9	-787.1	-410.7	805.2	0.00	0.00	0.00

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Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #704H	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	10,117.9	-787.1	-410.7	805.2	0.00	0.00	0.00
10,300.0	0.00	0.00	10,217.9	-787.1	-410.7	805.2	0.00	0.00	0.00
10,400.0	0.00	0.00	10,317.9	-787.1	-410.7	805.2	0.00	0.00	0.00
10,500.0	0.00	0.00	10,417.9	-787.1	-410.7	805.2	0.00	0.00	0.00
10,600.0	0.00	0.00	10,517.9	-787.1	-410.7	805.2	0.00	0.00	0.00
10,700.0	0.00	0.00	10,617.9	-787.1	-410.7	805.2	0.00	0.00	0.00
10,800.0	0.00	0.00	10,717.9	-787.1	-410.7	805.2	0.00	0.00	0.00
10,900.0	0.00	0.00	10,817.9	-787.1	-410.7	805.2	0.00	0.00	0.00
11,000.0	0.00	0.00	10,917.9	-787.1	-410.7	805.2	0.00	0.00	0.00
11,100.0	0.00	0.00	11,017.9	-787.1	-410.7	805.2	0.00	0.00	0.00
11,200.0	0.00	0.00	11,117.9	-787.1	-410.7	805.2	0.00	0.00	0.00
11,300.0	0.00	0.00	11,217.9	-787.1	-410.7	805.2	0.00	0.00	0.00
11,400.0	0.00	0.00	11,317.9	-787.1	-410.7	805.2	0.00	0.00	0.00
11,500.0	0.00	0.00	11,417.9	-787.1	-410.7	805.2	0.00	0.00	0.00
11,600.0	0.00	0.00	11,517.9	-787.1	-410.7	805.2	0.00	0.00	0.00
11,700.0	0.00	0.00	11,617.9	-787.1	-410.7	805.2	0.00	0.00	0.00
11,800.0	0.00	0.00	11,717.9	-787.1	-410.7	805.2	0.00	0.00	0.00
11,900.0	0.00	0.00	11,817.9	-787.1	-410.7	805.2	0.00	0.00	0.00
12,000.0	0.00	0.00	11,917.9	-787.1	-410.7	805.2	0.00	0.00	0.00
12,100.0	0.00	0.00	12,017.9	-787.1	-410.7	805.2	0.00	0.00	0.00
12,200.0	0.00	0.00	12,117.9	-787.1	-410.7	805.2	0.00	0.00	0.00
12,300.0	0.00	0.00	12,217.9	-787.1	-410.7	805.2	0.00	0.00	0.00
12,400.0	0.00	0.00	12,317.9	-787.1	-410.7	805.2	0.00	0.00	0.00
12,475.8	0.00	0.00	12,393.7	-787.1	-410.7	805.2	0.00	0.00	0.00
Start Build 12.00									
12,500.0	2.91	184.30	12,417.9	-787.7	-410.7	805.8	12.00	12.00	0.00
12,525.0	5.91	184.30	12,442.8	-789.6	-410.9	807.7	12.00	12.00	0.00
12,550.0	8.91	184.30	12,467.6	-792.8	-411.1	811.0	12.00	12.00	0.00
12,575.0	11.91	184.30	12,492.2	-797.3	-411.5	815.5	12.00	12.00	0.00
12,600.0	14.91	184.30	12,516.5	-803.1	-411.9	821.3	12.00	12.00	0.00
12,625.0	17.91	184.30	12,540.5	-810.2	-412.4	828.3	12.00	12.00	0.00
12,650.0	20.91	184.30	12,564.0	-818.4	-413.1	836.6	12.00	12.00	0.00
12,675.0	23.91	184.30	12,587.2	-828.0	-413.8	846.1	12.00	12.00	0.00
12,700.0	26.91	184.30	12,609.7	-838.6	-414.6	856.9	12.00	12.00	0.00
12,725.0	29.91	184.30	12,631.7	-850.5	-415.5	868.8	12.00	12.00	0.00
12,750.0	32.91	184.30	12,653.1	-863.5	-416.4	881.8	12.00	12.00	0.00
12,775.0	35.91	184.30	12,673.7	-877.6	-417.5	895.9	12.00	12.00	0.00
12,800.0	38.91	184.30	12,693.5	-892.7	-418.6	911.1	12.00	12.00	0.00
12,825.0	41.91	184.30	12,712.6	-908.9	-419.9	927.3	12.00	12.00	0.00
12,850.0	44.91	184.30	12,730.7	-926.0	-421.1	944.4	12.00	12.00	0.00
12,875.0	47.91	184.30	12,748.0	-944.1	-422.5	962.5	12.00	12.00	0.00
12,900.0	50.91	184.30	12,764.2	-963.0	-423.9	981.5	12.00	12.00	0.00
12,925.0	53.91	184.30	12,779.5	-982.7	-425.4	1,001.3	12.00	12.00	0.00
12,950.0	56.91	184.30	12,793.7	-1,003.3	-427.0	1,021.9	12.00	12.00	0.00
12,975.0	59.91	184.30	12,806.8	-1,024.5	-428.5	1,043.2	12.00	12.00	0.00
13,000.0	62.91	184.30	12,818.7	-1,046.4	-430.2	1,065.1	12.00	12.00	0.00
13,025.0	65.91	184.30	12,829.5	-1,068.9	-431.9	1,087.6	12.00	12.00	0.00
13,050.0	68.91	184.30	12,839.1	-1,091.9	-433.6	1,110.7	12.00	12.00	0.00
13,075.0	71.91	184.30	12,847.5	-1,115.4	-435.4	1,134.2	12.00	12.00	0.00
13,100.0	74.91	184.30	12,854.6	-1,139.3	-437.2	1,158.2	12.00	12.00	0.00
13,125.0	77.91	184.30	12,860.5	-1,163.5	-439.0	1,182.5	12.00	12.00	0.00
13,150.0	80.91	184.30	12,865.1	-1,188.0	-440.8	1,207.0	12.00	12.00	0.00
13,175.0	83.91	184.30	12,868.4	-1,212.7	-442.7	1,231.8	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 #704H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #704H	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)
13,200.0	86.91	184.30	12,870.4	-1,237.5	-444.6	1,256.7	12.00	12.00	0.00
13,225.0	89.91	184.30	12,871.1	-1,262.5	-446.4	1,281.7	12.00	12.00	0.00
13,236.4	91.28	184.30	12,871.0	-1,273.8	-447.3	1,293.1	12.00	12.00	0.00
Start DLS 2.00 TFO -89.95									
13,300.0	91.28	183.03	12,869.6	-1,337.3	-451.4	1,356.7	2.00	0.00	-2.00
13,400.0	91.28	181.03	12,867.4	-1,437.2	-454.9	1,456.6	2.00	0.00	-2.00
13,474.3	91.28	179.54	12,865.7	-1,511.4	-455.3	1,530.8	2.00	0.00	-2.00
Start 7071.3 hold at 13474.3 MD									
13,500.0	91.28	179.54	12,865.1	-1,537.2	-455.1	1,556.5	0.00	0.00	0.00
13,600.0	91.28	179.54	12,862.9	-1,637.1	-454.3	1,656.3	0.00	0.00	0.00
13,700.0	91.28	179.54	12,860.7	-1,737.1	-453.5	1,756.2	0.00	0.00	0.00
13,800.0	91.28	179.54	12,858.4	-1,837.1	-452.7	1,856.0	0.00	0.00	0.00
13,900.0	91.28	179.54	12,856.2	-1,937.0	-451.9	1,955.8	0.00	0.00	0.00
14,000.0	91.28	179.54	12,854.0	-2,037.0	-451.1	2,055.6	0.00	0.00	0.00
14,100.0	91.28	179.54	12,851.8	-2,137.0	-450.3	2,155.5	0.00	0.00	0.00
14,200.0	91.28	179.54	12,849.5	-2,237.0	-449.5	2,255.3	0.00	0.00	0.00
14,300.0	91.28	179.54	12,847.3	-2,336.9	-448.7	2,355.1	0.00	0.00	0.00
14,400.0	91.28	179.54	12,845.1	-2,436.9	-447.9	2,455.0	0.00	0.00	0.00
14,500.0	91.28	179.54	12,842.8	-2,536.9	-447.1	2,554.8	0.00	0.00	0.00
14,600.0	91.28	179.54	12,840.6	-2,636.8	-446.3	2,654.6	0.00	0.00	0.00
14,700.0	91.28	179.54	12,838.4	-2,736.8	-445.5	2,754.4	0.00	0.00	0.00
14,800.0	91.28	179.54	12,836.2	-2,836.8	-444.7	2,854.3	0.00	0.00	0.00
14,900.0	91.28	179.54	12,833.9	-2,936.8	-443.9	2,954.1	0.00	0.00	0.00
15,000.0	91.28	179.54	12,831.7	-3,036.7	-443.1	3,053.9	0.00	0.00	0.00
15,100.0	91.28	179.54	12,829.5	-3,136.7	-442.3	3,153.8	0.00	0.00	0.00
15,200.0	91.28	179.54	12,827.2	-3,236.7	-441.5	3,253.6	0.00	0.00	0.00
15,300.0	91.28	179.54	12,825.0	-3,336.6	-440.7	3,353.4	0.00	0.00	0.00
15,400.0	91.28	179.54	12,822.8	-3,436.6	-439.9	3,453.2	0.00	0.00	0.00
15,500.0	91.28	179.54	12,820.6	-3,536.6	-439.1	3,553.1	0.00	0.00	0.00
15,600.0	91.28	179.54	12,818.3	-3,636.6	-438.3	3,652.9	0.00	0.00	0.00
15,700.0	91.28	179.54	12,816.1	-3,736.5	-437.5	3,752.7	0.00	0.00	0.00
15,800.0	91.28	179.54	12,813.9	-3,836.5	-436.7	3,852.6	0.00	0.00	0.00
15,900.0	91.28	179.54	12,811.6	-3,936.5	-435.9	3,952.4	0.00	0.00	0.00
16,000.0	91.28	179.54	12,809.4	-4,036.5	-435.1	4,052.2	0.00	0.00	0.00
16,100.0	91.28	179.54	12,807.2	-4,136.4	-434.3	4,152.0	0.00	0.00	0.00
16,200.0	91.28	179.54	12,805.0	-4,236.4	-433.5	4,251.9	0.00	0.00	0.00
16,300.0	91.28	179.54	12,802.7	-4,336.4	-432.7	4,351.7	0.00	0.00	0.00
16,400.0	91.28	179.54	12,800.5	-4,436.3	-431.9	4,451.5	0.00	0.00	0.00
16,500.0	91.28	179.54	12,798.3	-4,536.3	-431.1	4,551.4	0.00	0.00	0.00
16,600.0	91.28	179.54	12,796.0	-4,636.3	-430.3	4,651.2	0.00	0.00	0.00
16,700.0	91.28	179.54	12,793.8	-4,736.3	-429.5	4,751.0	0.00	0.00	0.00
16,800.0	91.28	179.54	12,791.6	-4,836.2	-428.7	4,850.8	0.00	0.00	0.00
16,900.0	91.28	179.54	12,789.4	-4,936.2	-427.9	4,950.7	0.00	0.00	0.00
17,000.0	91.28	179.54	12,787.1	-5,036.2	-427.1	5,050.5	0.00	0.00	0.00
17,100.0	91.28	179.54	12,784.9	-5,136.1	-426.3	5,150.3	0.00	0.00	0.00
17,200.0	91.28	179.54	12,782.7	-5,236.1	-425.5	5,250.2	0.00	0.00	0.00
17,300.0	91.28	179.54	12,780.4	-5,336.1	-424.7	5,350.0	0.00	0.00	0.00
17,400.0	91.28	179.54	12,778.2	-5,436.1	-423.9	5,449.8	0.00	0.00	0.00
17,500.0	91.28	179.54	12,776.0	-5,536.0	-423.1	5,549.6	0.00	0.00	0.00
17,600.0	91.28	179.54	12,773.8	-5,636.0	-422.3	5,649.5	0.00	0.00	0.00
17,700.0	91.28	179.54	12,771.5	-5,736.0	-421.5	5,749.3	0.00	0.00	0.00
17,800.0	91.28	179.54	12,769.3	-5,835.9	-420.7	5,849.1	0.00	0.00	0.00
17,900.0	91.28	179.54	12,767.1	-5,935.9	-419.9	5,949.0	0.00	0.00	0.00
18,000.0	91.28	179.54	12,764.8	-6,035.9	-419.1	6,048.8	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #704H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #704H	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)	
18,100.0	91.28	179.54	12,762.6	-6,135.9	-418.3	6,148.6	0.00	0.00	0.00	
18,200.0	91.28	179.54	12,760.4	-6,235.8	-417.5	6,248.5	0.00	0.00	0.00	
18,300.0	91.28	179.54	12,758.2	-6,335.8	-416.7	6,348.3	0.00	0.00	0.00	
18,400.0	91.28	179.54	12,755.9	-6,435.8	-415.9	6,448.1	0.00	0.00	0.00	
18,500.0	91.28	179.54	12,753.7	-6,535.8	-415.1	6,547.9	0.00	0.00	0.00	
18,600.0	91.28	179.54	12,751.5	-6,635.7	-414.3	6,647.8	0.00	0.00	0.00	
18,700.0	91.28	179.54	12,749.2	-6,735.7	-413.5	6,747.6	0.00	0.00	0.00	
18,800.0	91.28	179.54	12,747.0	-6,835.7	-412.7	6,847.4	0.00	0.00	0.00	
18,900.0	91.28	179.54	12,744.8	-6,935.6	-411.9	6,947.3	0.00	0.00	0.00	
19,000.0	91.28	179.54	12,742.6	-7,035.6	-411.1	7,047.1	0.00	0.00	0.00	
19,100.0	91.28	179.54	12,740.3	-7,135.6	-410.3	7,146.9	0.00	0.00	0.00	
19,200.0	91.28	179.54	12,738.1	-7,235.6	-409.5	7,246.7	0.00	0.00	0.00	
19,300.0	91.28	179.54	12,735.9	-7,335.5	-408.7	7,346.6	0.00	0.00	0.00	
19,400.0	91.28	179.54	12,733.6	-7,435.5	-407.9	7,446.4	0.00	0.00	0.00	
19,500.0	91.28	179.54	12,731.4	-7,535.5	-407.1	7,546.2	0.00	0.00	0.00	
19,600.0	91.28	179.54	12,729.2	-7,635.4	-406.3	7,646.1	0.00	0.00	0.00	
19,700.0	91.28	179.54	12,727.0	-7,735.4	-405.5	7,745.9	0.00	0.00	0.00	
19,800.0	91.28	179.54	12,724.7	-7,835.4	-404.7	7,845.7	0.00	0.00	0.00	
19,900.0	91.28	179.54	12,722.5	-7,935.4	-403.9	7,945.5	0.00	0.00	0.00	
20,000.0	91.28	179.54	12,720.3	-8,035.3	-403.1	8,045.4	0.00	0.00	0.00	
20,100.0	91.28	179.54	12,718.0	-8,135.3	-402.3	8,145.2	0.00	0.00	0.00	
20,200.0	91.28	179.54	12,715.8	-8,235.3	-401.5	8,245.0	0.00	0.00	0.00	
20,300.0	91.28	179.54	12,713.6	-8,335.2	-400.7	8,344.9	0.00	0.00	0.00	
20,400.0	91.28	179.54	12,711.4	-8,435.2	-399.9	8,444.7	0.00	0.00	0.00	
20,500.0	91.28	179.54	12,709.1	-8,535.2	-399.1	8,544.5	0.00	0.00	0.00	
20,545.6	91.28	179.54	12,708.1	-8,580.8	-398.7	8,590.1	0.00	0.00	0.00	
Start 50.1 hold at 20545.6 MD										
20,595.7	91.28	179.54	12,707.0	-8,630.8	-398.3	8,640.0	0.00	0.00	0.00	
TD at 20595.7										

Design Targets										
Target Name										
- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
- Shape										
VT (BANDANA FED CO - plan hits target center - Point	0.00	0.00	12,393.7	-787.1	-410.7	417,568.40	780,108.30	32° 8' 41.195 N		103° 25' 42.003 W
PBHL (BANDANA FED C - plan hits target center - Rectangle (sides W100.0 H7,769.0 D20.0)	1.28	359.54	12,707.0	-8,630.8	-398.3	409,724.70	780,120.70	32° 7' 23.579 N		103° 25' 42.625 W
LTP (BANDANA FED C - plan hits target center - Point	0.00	0.00	12,708.1	-8,580.8	-398.7	409,774.70	780,120.30	32° 7' 24.073 N		103° 25' 42.625 W
FTP (BANDANA FED C - plan misses target center by 151.3usft at 12895.2usft MD (12761.2 TVD, -959.3 N, -423.6 E) - Circle (radius 50.0)	0.00	0.00	12,871.0	-862.1	-460.7	417,493.40	780,058.30	32° 8' 40.457 N		103° 25' 42.592 W

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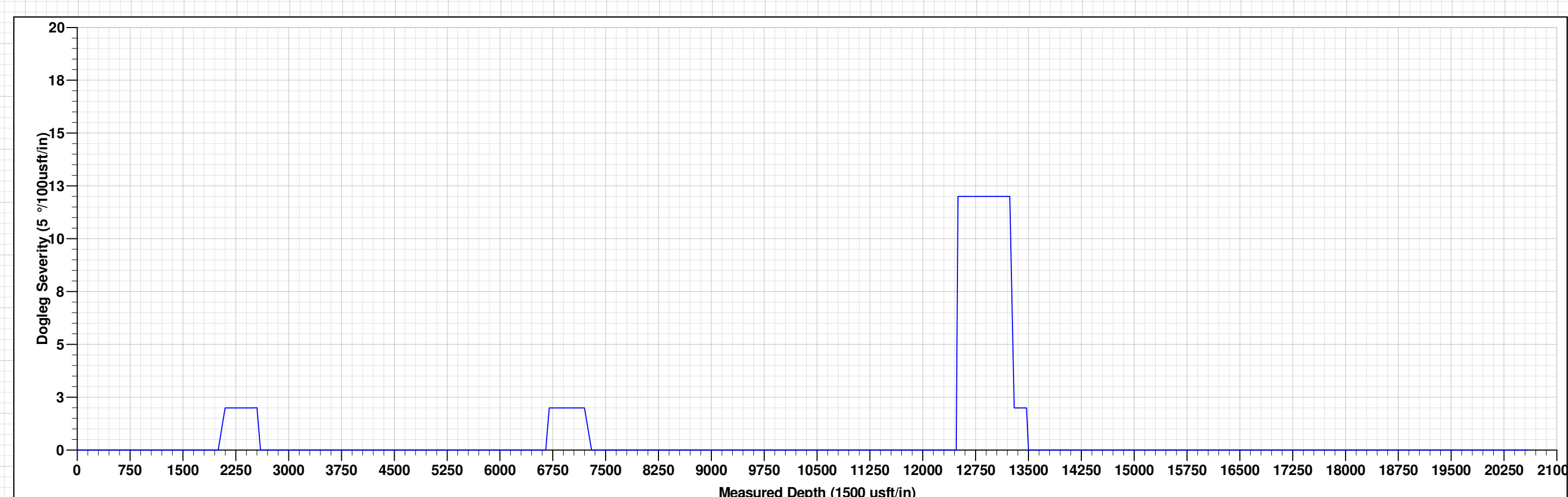
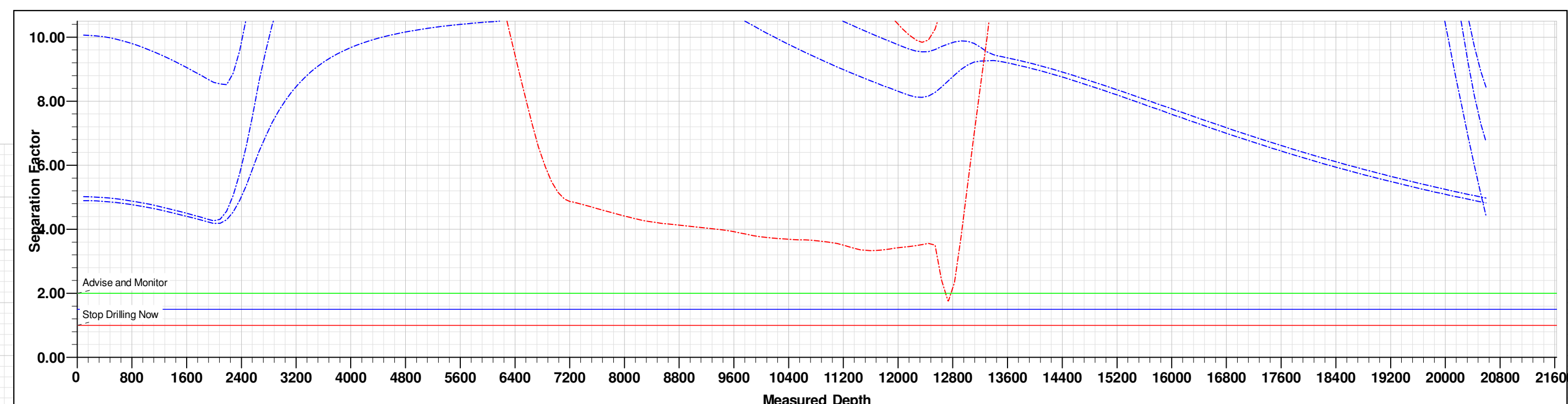
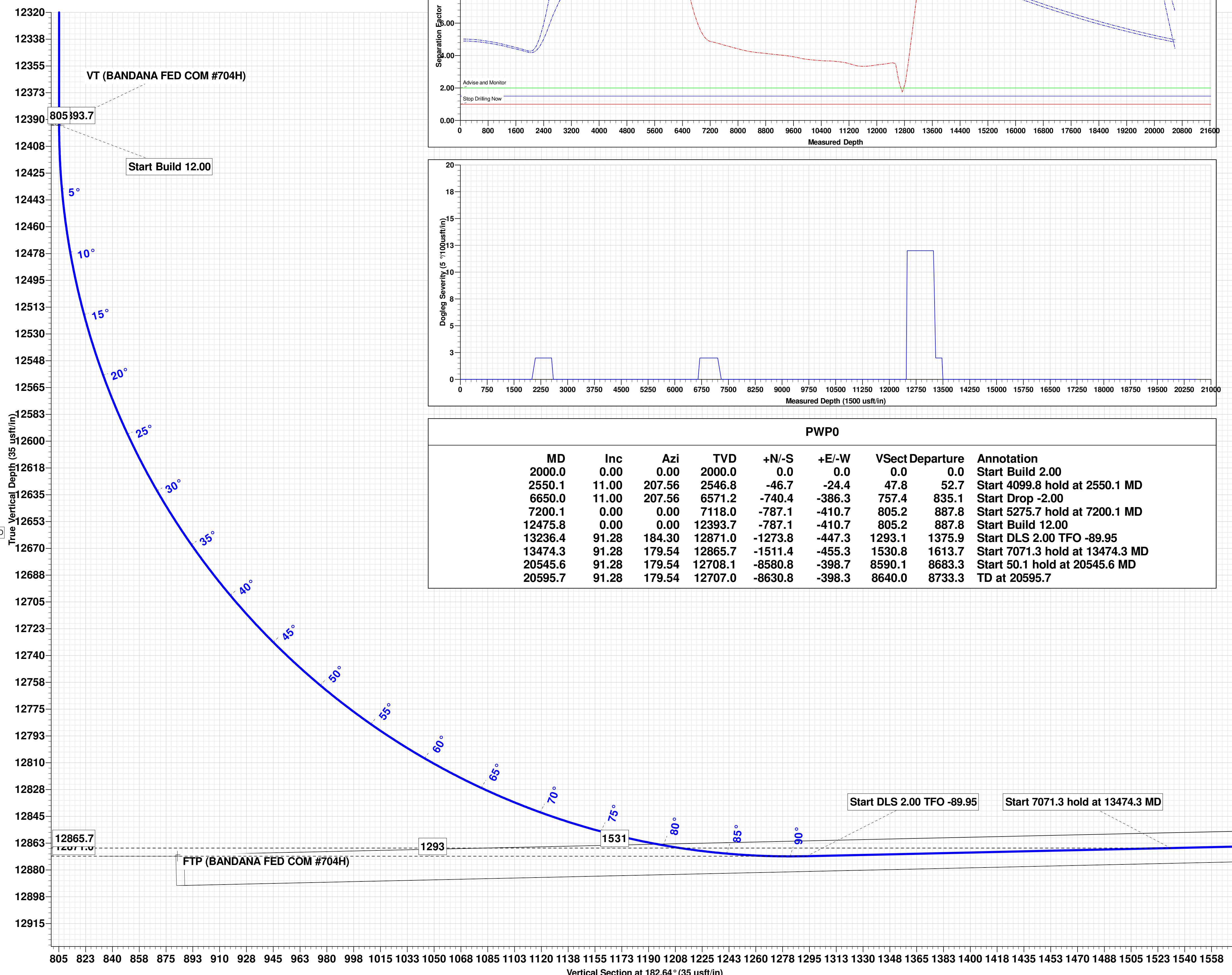
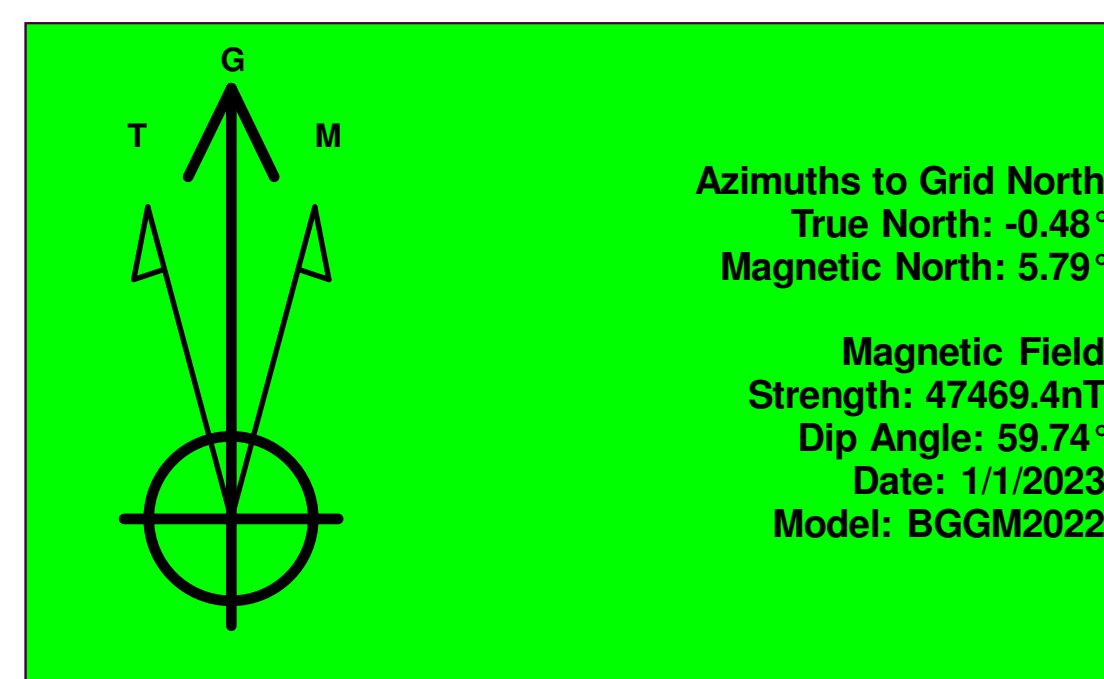
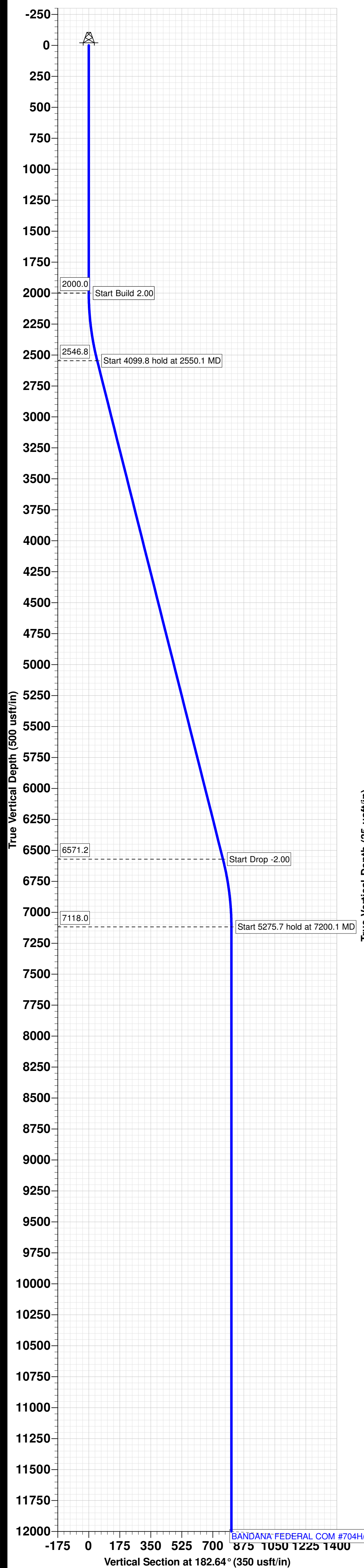
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #704H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3425.5usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3425.5usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

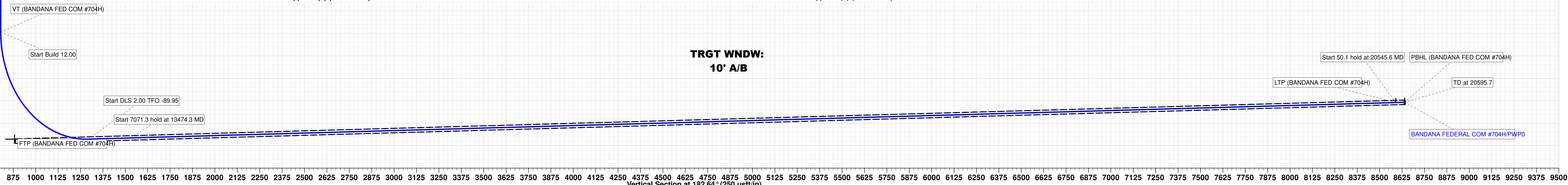
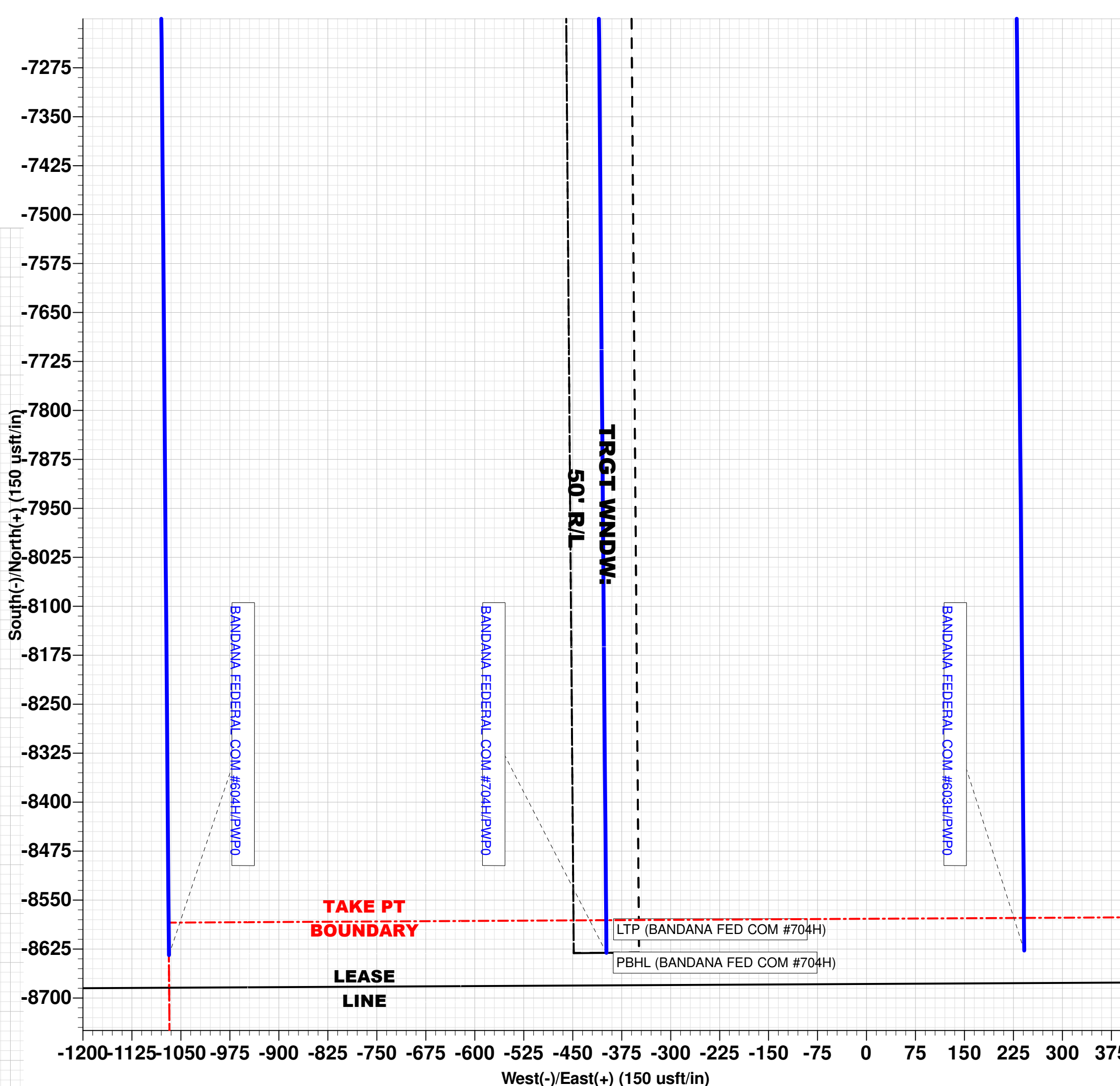
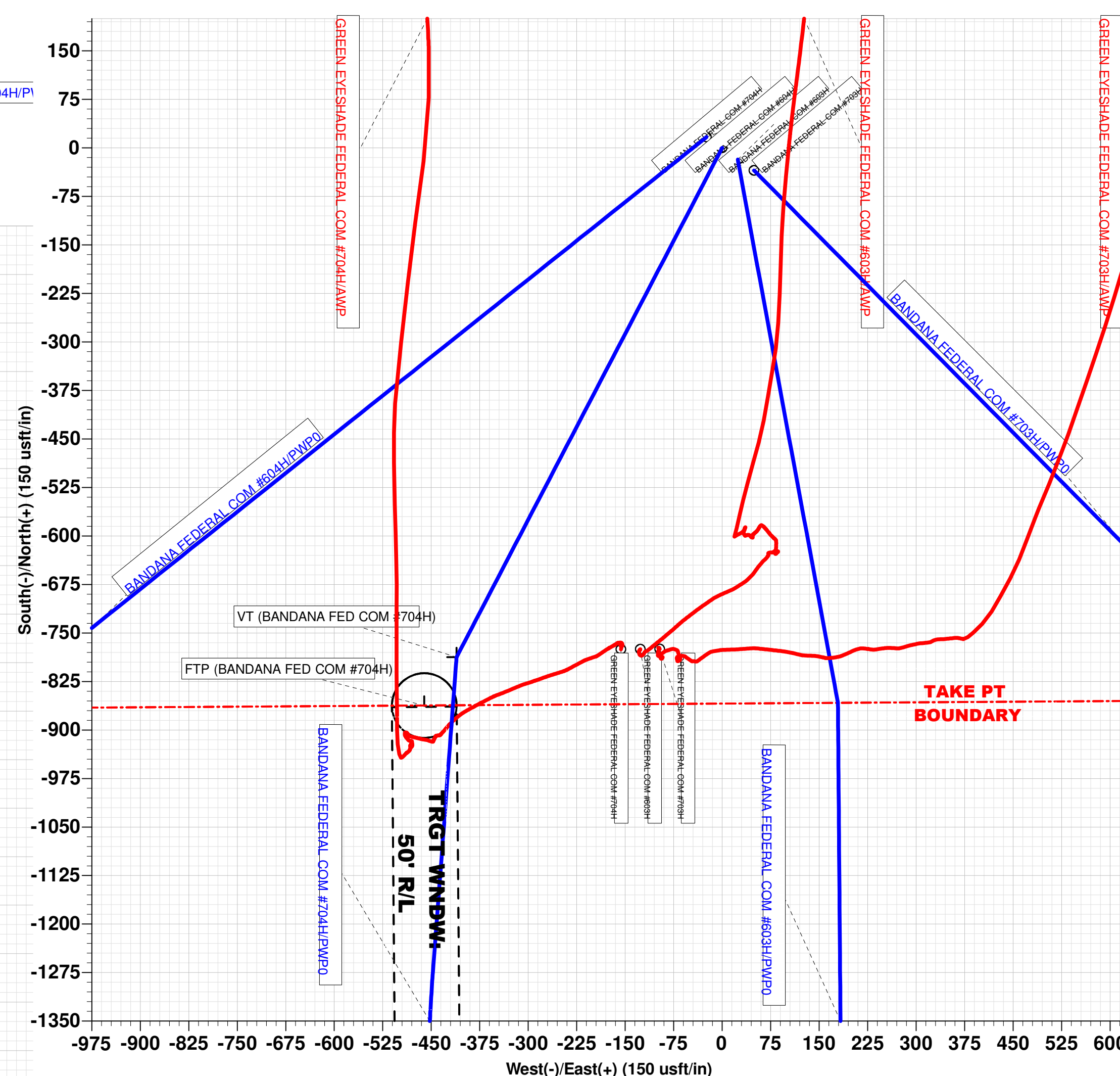
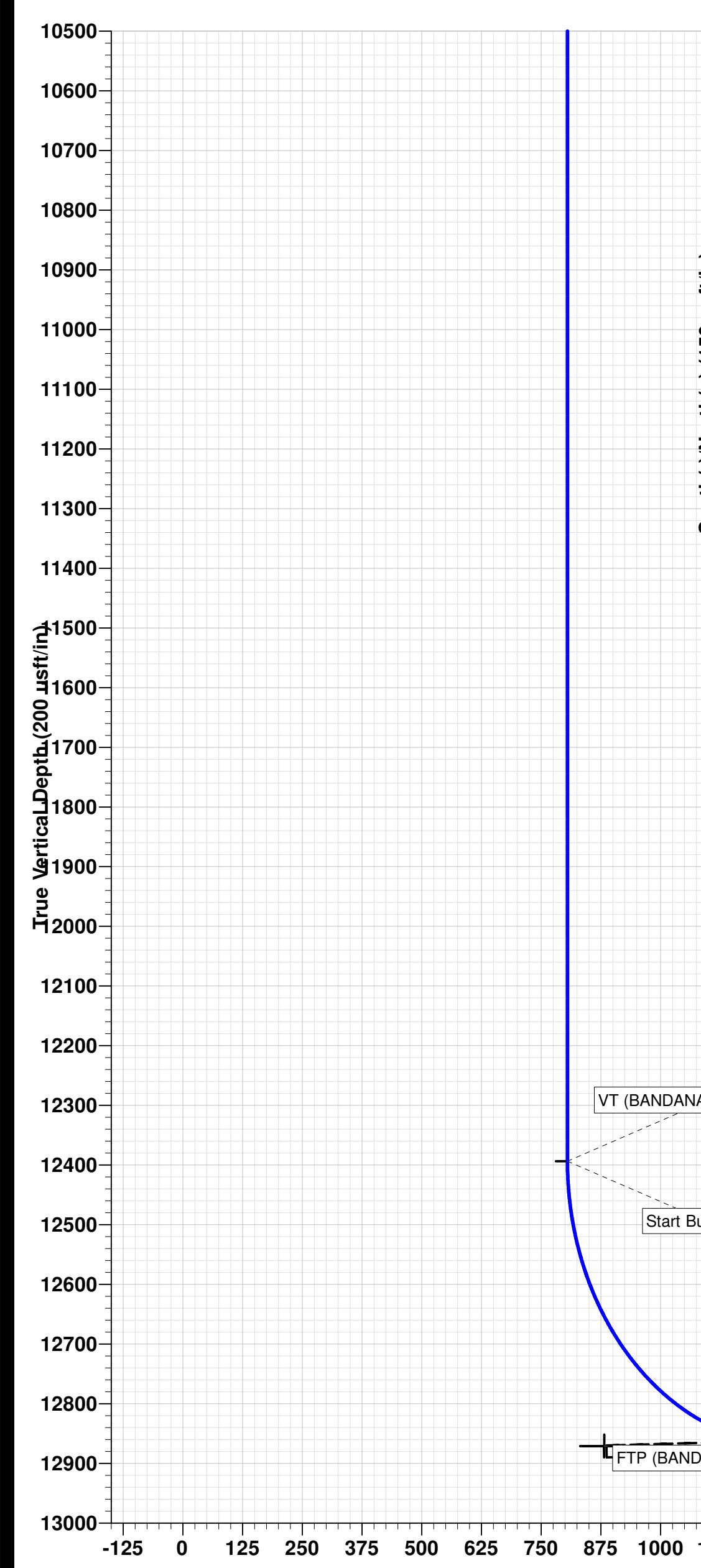
Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.0	2,000.0	0.0	0.0	Start Build 2.00
2,550.1	2,546.8	-46.7	-24.4	Start 4099.8 hold at 2550.1 MD
6,650.0	6,571.2	-740.4	-386.3	Start Drop -2.00
7,200.1	7,118.0	-787.1	-410.7	Start 5275.7 hold at 7200.1 MD
12,475.8	12,393.7	-787.1	-410.7	Start Build 12.00
13,236.4	12,871.0	-1,273.8	-447.3	Start DLS 2.00 TFO -89.95
13,474.3	12,865.7	-1,511.4	-455.3	Start 7071.3 hold at 13474.3 MD
20,545.6	12,708.1	-8,580.8	-398.7	Start 50.1 hold at 20545.6 MD
20,595.7	12,707.0	-8,630.8	-398.3	TD at 20595.7



Project: BULLDOG PROSPECT (NM-E)
Site: BANDANA FEDERAL PROJECT
Well: BANDANA FEDERAL COM #704H
Wellbore: OWB
Design: PWP0
GL: 3395.5
*KB=30' @ 3425.5usft (TBD)

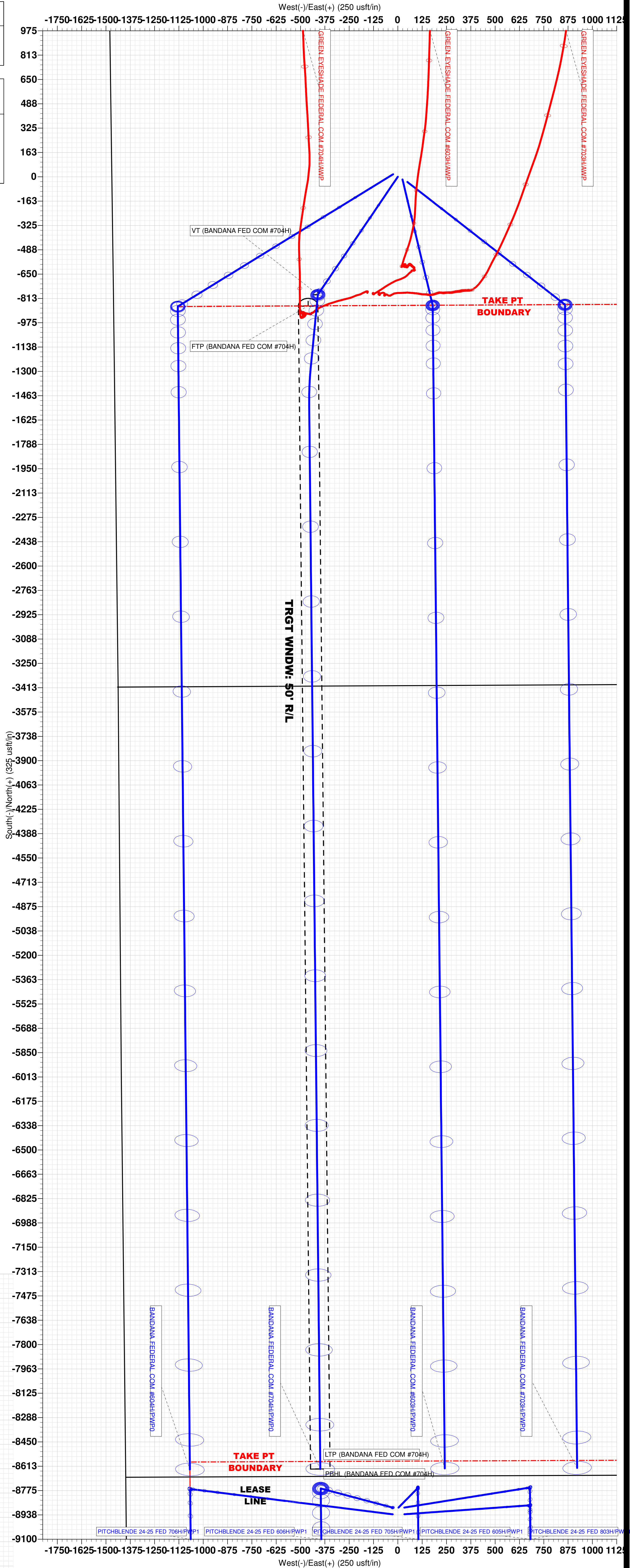


MD	Inc	Azi	TVD	+N-S	+E-W	Vsect	Departure	Annotation
2000.0	0.00	0.00	2000.0	0.0	0.0	0.0	0.0	Start Build 2.00
2550.1	11.00	207.56	2546.8	-46.7	-24.4	47.8	52.7	Start 4099.8 hold at 2550.1 MD
6650.0	11.00	207.56	6571.2	-740.4	-386.3	757.4	835.1	Start Drop -2.00
7200.1	0.00	0.00	7118.0	-787.1	-410.7	805.2	887.8	Start 5275.7 hold at 7200.1 MD
12475.8	0.00	0.00	12393.7	-787.1	-410.7	805.2	887.8	Start Build 12.00
13236.4	91.28	184.30	12871.0	-1273.8	-447.3	1293.1	1375.9	Start DLS 2.00 TFO -89.95
13474.3	91.28	179.54	12965.7	-1511.4	-455.3	1530.8	1613.7	Start 7071.3 hold at 13474.3 MD
20545.6	91.28	179.54	12708.1	-8580.8	-398.7	8590.1	8683.3	Start 50.1 hold at 20545.6 MD
20595.7	91.28	179.54	12707.0	-8630.8	-398.3	8640.0	8733.3	TD at 20595.7



WELL DETAILS: BANDANA FEDERAL COM #704H					
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.0	0.0	418355.50	780519.00	32° 8' 48.950 N	103° 25' 37.150 W

DESIGN TARGET DETAILS						
Name	TVD	+N-S	+E-W	Northing	Easting	Shape
VT (BANDANA FED COM #704H)	12393.7	-787.1	-410.7	417568.40	780108.30	Point
PBHL (BANDANA FED COM #704H)	12707.0	-8630.8	-398.3	409724.70	780120.70	Rectangle (Sides: L7769.0 W100.0)
LTP (BANDANA FED COM #704H)	12708.1	-8580.8	-398.7	409774.70	780120.30	Point
FTP (BANDANA FED COM #704H)	12871.0	-862.1	-460.7	417493.40	780058.30	Circle (Radius: 50.0)



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

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

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

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

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ORDER NO. R-22629-A

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

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

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

**STATE OF NEW MEXICO
OIL CONSERVATION DIVISION**


DYLAN M FUGE
DIRECTOR (ACTING)
DMF/jag

Date: 4/30/2023

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Exhibit A

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

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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 240871

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 240871
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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