

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/604H**9. API Well No. **3002549797**10. Field and Pool or Exploratory Area
Draper Mill/FAIRVIEW MILLS;BONE SPRING11. Country or Parish, State
LEA/NM**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

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

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

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

Change BHL FROM : 2590 FNL & 330 FWL SWNW 24-25S-34E 23406' MD, 12412' TVD

Change BHL TO: 50 ft FSL & 330 ft FWL SWSW 13-25S-34E Lea Co, NM.

Change TD to: 20,298MD, 12,412 TVD

Change dedicated acres to: 960 ac.

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

STAN WAGNER / Ph: (432) 253-9685

Regulatory Advisor

Title

Signature

Date

12/05/2022**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

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

Petroleum Engineer

Title

01/31/2023

Date

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

Office **CARLSBAD**

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

(Instructions on page 2)

Additional Information

Location of Well

0. SHL: SENW / 1861 FNL / 1445 FWL / TWSP: 25S / RANGE: 34E / SECTION: 12 / LAT: 32.147103 / LONG: -103.427532 (TVD: 0 feet, MD: 0 feet)

PPP: NWSW / 2540 FSL / 330 FWL / TWSP: 25S / RANGE: 34E / SECTION: 12 / LAT: 32.147103 / LONG: -103.427532 (TVD: 12586 feet, MD: 13000 feet)

BHL: SWNW / 2590 FNL / 330 FWL / TWSP: 25S / RANGE: 34E / SECTION: 24 / LAT: 32.116091 / LONG: -103.431147 (TVD: 12412 feet, MD: 23406 feet)

CONFIDENTIAL

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

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

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

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

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

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-49797	Pool Code 96340	Pool Name Fairview Mills; Bone Spring
Property Code 332421	Property Name BANDANA FEDERAL COM	Well Number 604H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3394.6'

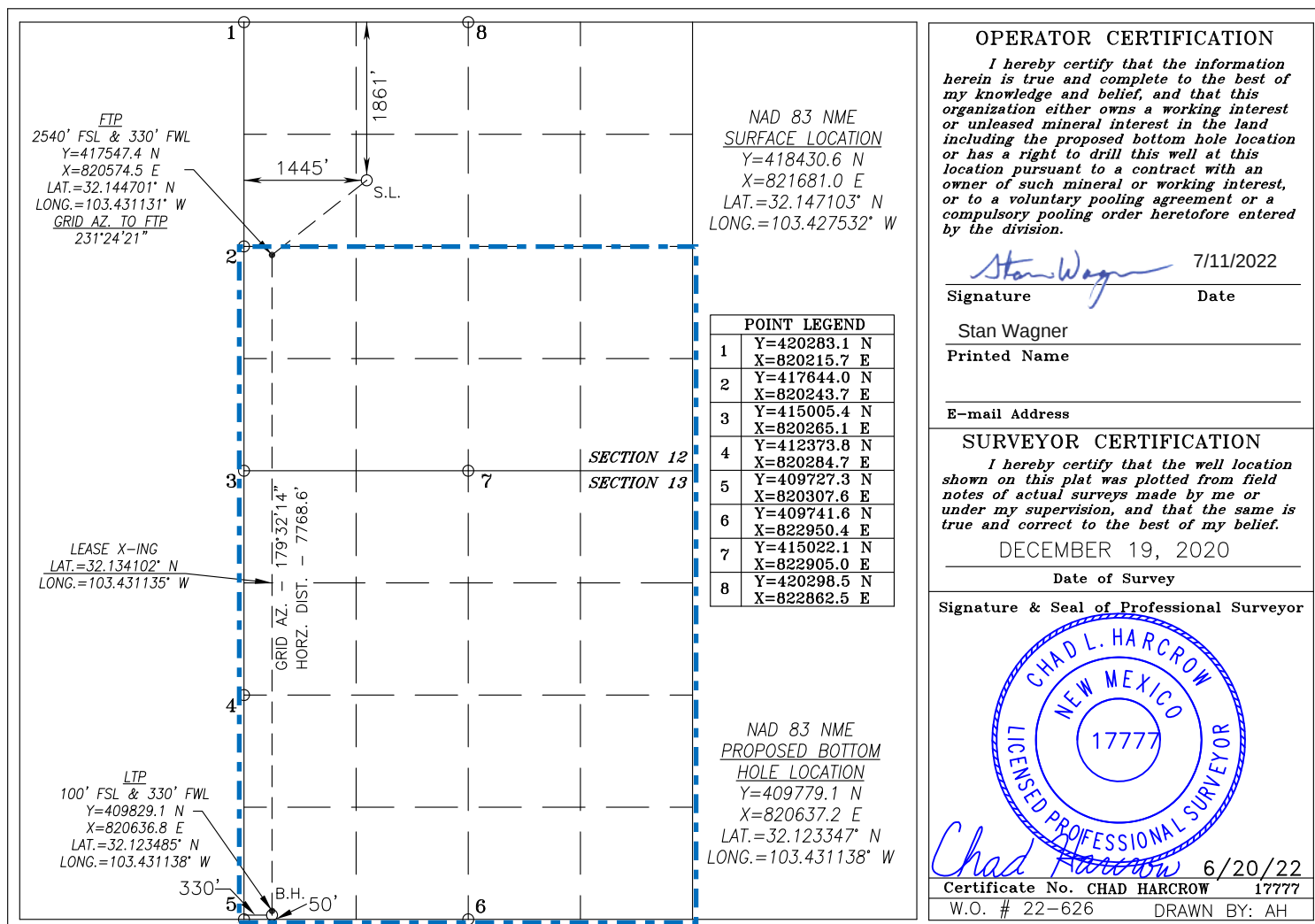
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	12	25-S	34-E		1861	NORTH	1445	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	330	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 #604H**

**OWB
PWP0**

Anticollision Report

07 July, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #604H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #604H	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	12,255.1	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	
12,255.1	20,298.1	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
BANDANA FEDERAL PROJECT						
*BANDANA FEDERAL COM #601H - OWB - PWP0						Out of range
BANDANA FEDERAL COM #602H - OWB - PWP0						Out of range
BANDANA FEDERAL COM #603H - OWB - PWP0	1,995.0	1,996.0	59.5	52.4	8.443	CC, ES, SF
BANDANA FEDERAL COM #702H - OWB - PWP0						Out of range
BANDANA FEDERAL COM #703H - OWB - PWP0	1,995.0	1,995.8	89.7	82.7	12.768	CC, ES
BANDANA FEDERAL COM #703H - OWB - PWP0	2,185.0	2,179.8	97.3	89.3	12.242	SF
BANDANA FEDERAL COM #704H - OWB - PWP0	1,995.0	1,995.9	29.4	22.4	4.181	CC, ES, SF
GREEN EYESHADE FED PROJECT						
GREEN EYESHADE FEDERAL COM #602H - OWB - AW						Out of range
GREEN EYESHADE FEDERAL COM #603H - OWB - AW	4,043.7	4,027.3	567.9	553.7	39.946	CC
GREEN EYESHADE FEDERAL COM #603H - OWB - AW	4,085.0	4,065.4	568.1	553.7	39.432	ES
GREEN EYESHADE FEDERAL COM #603H - OWB - AW	6,460.0	6,397.4	787.8	762.2	30.787	SF
GREEN EYESHADE FEDERAL COM #702H - OWB - AW						Out of range
GREEN EYESHADE FEDERAL COM #703H - OWB - AW	4,806.7	4,758.5	600.3	583.3	35.206	CC, ES
GREEN EYESHADE FEDERAL COM #703H - OWB - AW	6,365.0	6,263.7	716.8	692.3	29.307	SF
GREEN EYESHADE FEDERAL COM #704H - OWB - AW	6,989.0	6,919.2	445.7	418.5	16.393	CC
GREEN EYESHADE FEDERAL COM #704H - OWB - AW	7,030.0	6,959.3	445.8	418.4	16.251	ES
GREEN EYESHADE FEDERAL COM #704H - OWB - AW	12,635.0	12,502.3	635.6	585.2	12.602	SF
PITCHBLENDE 24-25 FEDERAL PROJECT						
PITCHBLENDE 24-25 FED 605H - OWB - PWP1						Out of range
PITCHBLENDE 24-25 FED 606H - OWB - PWP1	20,298.1	12,308.3	705.8	589.8	6.084	CC, ES, SF
PITCHBLENDE 24-25 FED 704H - OWB - PWP1						Out of range
PITCHBLENDE 24-25 FED 705H - OWB - PWP1						Out of range
PITCHBLENDE 24-25 FED 706H - OWB - PWP1	20,298.1	12,460.2	132.2	76.1	2.358	CC, ES, SF
PITCHBLENDE 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 #604H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #604H	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	20,298.1	20,602.6				Out of Range @TD
BANDANA FEDERAL COM #602H - OWB - PWP0	20,298.1	20,298.7				Out of Range @TD
BANDANA FEDERAL COM #603H - OWB - PWP0	20,298.1	20,281.0				Out of Range @TD
BANDANA FEDERAL COM #702H - OWB - PWP0	20,298.1	20,527.1				Out of Range @TD
BANDANA FEDERAL COM #703H - OWB - PWP0	20,298.1	20,603.1				Out of Range @TD
BANDANA FEDERAL COM #704H - OWB - PWP0	20,298.1	20,595.7	731.7	584.6	4.974	
GREEN EYESHAD FED PROJECT						
GREEN EYESHAD FEDERAL COM #602H - OWB - AW	20,298.1	12,205.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #603H - OWB - AW	20,298.1	12,185.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #702H - OWB - AW	20,298.1	12,444.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #703H - OWB - AW	20,298.1	12,372.0				Out of Range @TD
GREEN EYESHAD FEDERAL COM #704H - OWB - AW	20,298.1	12,468.0				Out of Range @TD
PITCHBLEND 24-25 FEDERAL PROJECT						
PITCHBLEND 24-25 FED 605H - OWB - PWP1	20,298.1	12,280.6				Out of Range @TD
PITCHBLEND 24-25 FED 606H - OWB - PWP1	20,298.1	12,308.3	705.8	589.8	6.084	CC, ES, SF
PITCHBLEND 24-25 FED 704H - OWB - PWP1	20,298.1	12,453.7				Out of Range @TD
PITCHBLEND 24-25 FED 705H - OWB - PWP1	20,298.1	12,378.9				Out of Range @TD
PITCHBLEND 24-25 FED 706H - OWB - PWP1	20,298.1	12,460.2	132.2	76.1	2.358	CC, ES, SF
PITCHBLEND 24-25 FED 803H - OWB - PWP1	20,298.1	12,428.4				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		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 3.0 usft		
Measured Reference	Vertical	Measured	Vertical	Reference	Offset	Highside			Distance					Warning
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	1.0	3.0	3.0	125.69	-34.7	48.3	59.5					
95.0	95.0	96.0	96.0	3.0	3.0	125.69	-34.7	48.3	59.5	53.5	6.00	9.912		
190.0	190.0	191.0	191.0	3.0	3.0	125.69	-34.7	48.3	59.5	53.5	6.00	9.904		
285.0	285.0	286.0	286.0	3.0	3.0	125.69	-34.7	48.3	59.5	53.5	6.01	9.888		
380.0	380.0	381.0	381.0	3.0	3.0	125.69	-34.7	48.3	59.5	53.4	6.03	9.862		
475.0	475.0	476.0	476.0	3.0	3.0	125.69	-34.7	48.3	59.5	53.4	6.05	9.828		
570.0	570.0	571.0	571.0	3.1	3.1	125.69	-34.7	48.3	59.5	53.4	6.08	9.786		
665.0	665.0	666.0	666.0	3.1	3.1	125.69	-34.7	48.3	59.5	53.4	6.11	9.736		
760.0	760.0	761.0	761.0	3.1	3.1	125.69	-34.7	48.3	59.5	53.3	6.15	9.677		
855.0	855.0	856.0	856.0	3.2	3.2	125.69	-34.7	48.3	59.5	53.3	6.19	9.612		
950.0	950.0	951.0	951.0	3.2	3.2	125.69	-34.7	48.3	59.5	53.2	6.23	9.540		

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 #604H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #604H	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)	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
1,045.0	1,045.0	1,046.0	1,046.0	3.3	3.3	125.69		-34.7	48.3	59.5	53.2	6.29	9.461	
1,140.0	1,140.0	1,141.0	1,141.0	3.3	3.3	125.69		-34.7	48.3	59.5	53.1	6.34	9.377	
1,235.0	1,235.0	1,236.0	1,236.0	3.4	3.4	125.69		-34.7	48.3	59.5	53.1	6.40	9.288	
1,330.0	1,330.0	1,331.0	1,331.0	3.4	3.4	125.69		-34.7	48.3	59.5	53.0	6.47	9.193	
1,425.0	1,425.0	1,426.0	1,426.0	3.5	3.5	125.69		-34.7	48.3	59.5	52.9	6.54	9.095	
1,520.0	1,520.0	1,521.0	1,521.0	3.6	3.6	125.69		-34.7	48.3	59.5	52.9	6.61	8.993	
1,615.0	1,615.0	1,616.0	1,616.0	3.6	3.6	125.69		-34.7	48.3	59.5	52.8	6.69	8.887	
1,710.0	1,710.0	1,711.0	1,711.0	3.7	3.7	125.69		-34.7	48.3	59.5	52.7	6.77	8.779	
1,805.0	1,805.0	1,806.0	1,806.0	3.8	3.8	125.69		-34.7	48.3	59.5	52.6	6.86	8.669	
1,900.0	1,900.0	1,901.0	1,901.0	3.9	3.9	125.69		-34.7	48.3	59.5	52.5	6.95	8.557	
1,995.0	1,995.0	1,996.0	1,996.0	3.9	3.9	125.69		-34.7	48.3	59.5	52.4	7.04	8.443	CC, ES, SF
2,090.0	2,090.0	2,089.6	2,089.6	4.0	4.1	-106.03		-36.1	48.6	60.9	53.7	7.19	8.462	
2,185.0	2,184.9	2,183.1	2,182.9	4.4	4.7	-107.01		-40.4	49.4	65.4	57.8	7.58	8.623	
2,280.0	2,279.6	2,276.2	2,275.7	5.0	5.3	-108.38		-47.8	50.7	73.0	65.0	8.03	9.096	
2,375.0	2,373.9	2,368.8	2,367.8	5.5	5.8	-109.88		-58.0	52.6	83.8	75.3	8.51	9.854	
2,470.0	2,467.9	2,460.9	2,458.9	6.1	6.3	-111.28		-71.1	55.0	97.8	88.7	9.01	10.847	
2,565.0	2,561.3	2,552.1	2,548.7	6.6	6.8	-112.49		-86.9	57.9	114.8	105.3	9.54	12.031	
2,660.0	2,654.3	2,643.8	2,638.5	7.0	7.2	-113.59		-105.2	61.3	134.5	124.5	10.03	13.414	
2,755.0	2,747.2	2,736.6	2,729.3	7.2	7.4	-114.47		-124.2	64.8	154.6	144.1	10.45	14.792	
2,850.0	2,840.2	2,829.5	2,820.1	7.3	7.6	-115.15		-143.2	68.3	174.7	163.8	10.88	16.059	
2,945.0	2,933.1	2,922.3	2,910.9	7.5	7.7	-115.69		-162.2	71.8	194.8	183.5	11.34	17.183	
3,040.0	3,026.0	3,015.1	3,001.7	7.7	7.9	-116.13		-181.2	75.3	214.9	203.1	11.83	18.176	
3,135.0	3,118.9	3,108.0	3,092.5	7.9	8.1	-116.49		-200.2	78.8	235.1	222.8	12.34	19.053	
3,230.0	3,211.9	3,200.8	3,183.3	8.2	8.3	-116.80		-219.1	82.3	255.2	242.4	12.87	19.828	
3,325.0	3,304.8	3,293.6	3,274.1	8.4	8.5	-117.06		-238.1	85.8	275.4	262.0	13.43	20.513	
3,420.0	3,397.7	3,386.4	3,364.9	8.6	8.8	-117.29		-257.1	89.3	295.6	281.6	13.99	21.120	
3,515.0	3,490.6	3,479.3	3,455.7	8.9	9.0	-117.48		-276.1	92.8	315.7	301.2	14.58	21.658	
3,610.0	3,583.5	3,572.1	3,546.5	9.1	9.2	-117.66		-295.1	96.3	335.9	320.7	15.17	22.137	
3,705.0	3,676.5	3,664.9	3,637.3	9.4	9.5	-117.81		-314.1	99.8	356.1	340.3	15.78	22.564	
3,800.0	3,769.4	3,757.8	3,728.1	9.7	9.7	-117.95		-333.1	103.3	376.3	359.9	16.40	22.945	
3,895.0	3,862.3	3,850.6	3,818.9	9.9	10.0	-118.07		-352.0	106.9	396.4	379.4	17.02	23.287	
3,990.0	3,955.2	3,943.4	3,909.7	10.2	10.3	-118.18		-371.0	110.4	416.6	399.0	17.66	23.594	
4,085.0	4,048.2	4,036.2	4,000.5	10.5	10.6	-118.28		-390.0	113.9	436.8	418.5	18.30	23.871	
4,180.0	4,141.1	4,129.1	4,091.3	10.8	10.8	-118.37		-409.0	117.4	457.0	438.0	18.94	24.122	
4,275.0	4,234.0	4,221.9	4,182.1	11.1	11.1	-118.46		-428.0	120.9	477.2	457.6	19.60	24.349	
4,370.0	4,326.9	4,314.7	4,272.9	11.4	11.4	-118.54		-447.0	124.4	497.3	477.1	20.25	24.555	
4,465.0	4,419.9	4,407.6	4,363.7	11.7	11.7	-118.61		-466.0	127.9	517.5	496.6	20.92	24.743	
4,560.0	4,512.8	4,500.4	4,454.5	12.0	12.0	-118.67		-485.0	131.4	537.7	516.1	21.58	24.914	
4,655.0	4,605.7	4,593.2	4,545.2	12.3	12.3	-118.73		-503.9	134.9	557.9	535.6	22.25	25.071	
4,750.0	4,698.6	4,686.0	4,636.0	12.7	12.6	-118.79		-522.9	138.4	578.1	555.2	22.93	25.215	
4,845.0	4,791.6	4,778.9	4,726.8	13.0	12.9	-118.84		-541.9	141.9	598.3	574.7	23.60	25.348	
4,940.0	4,884.5	4,871.7	4,817.6	13.3	13.2	-118.89		-560.9	145.4	618.5	594.2	24.28	25.470	
5,035.0	4,977.4	4,964.5	4,908.4	13.6	13.5	-118.94		-579.9	148.9	638.6	613.7	24.96	25.582	
5,130.0	5,070.3	5,057.4	4,999.2	14.0	13.8	-118.98		-598.9	152.4	658.8	633.2	25.65	25.686	
5,225.0	5,163.2	5,150.2	5,090.0	14.3	14.1	-119.03		-617.9	155.9	679.0	652.7	26.34	25.783	
5,320.0	5,256.2	5,243.0	5,180.8	14.6	14.4	-119.06		-636.8	159.4	699.2	672.2	27.02	25.873	
5,415.0	5,349.1	5,335.8	5,271.6	15.0	14.8	-119.10		-655.8	162.9	719.4	691.7	27.72	25.956	
5,510.0	5,442.0	5,428.7	5,362.4	15.3	15.1	-119.14		-674.8	166.4	739.6	711.2	28.41	26.034	
5,605.0	5,534.9	5,521.5	5,453.2	15.6	15.4	-119.17		-693.8	169.9	759.8	730.7	29.10	26.106	
5,700.0	5,627.9	5,614.3	5,544.0	16.0	15.7	-119.20		-712.8	173.4	780.0	750.2	29.80	26.174	
5,795.0	5,720.8	5,707.2	5,634.8	16.3	16.0	-119.23		-731.8	176.9	800.2	769.7	30.50	26.237	
5,890.0	5,813.7	5,800.0	5,725.6	16.7	16.4	-119.26		-750.8	180.4	820.3	789.1	31.20	26.296	

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 #604H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #604H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - BANDANA FEDERAL COM #603H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12239-MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		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	
5,985.0	5,906.6	5,892.8	5,816.4	17.0	16.7	-119.28	-769.8	183.9	840.5	808.6	31.90	26.352	
6,080.0	5,999.6	5,985.6	5,907.2	17.3	17.0	-119.31	-788.7	187.4	860.7	828.1	32.60	26.404	
6,175.0	6,092.5	6,078.5	5,998.0	17.7	17.4	-119.33	-807.7	190.9	880.9	847.6	33.30	26.453	
6,270.0	6,185.4	6,184.2	6,101.7	18.0	17.8	-119.42	-828.3	194.7	900.6	866.5	34.09	26.421	
6,365.0	6,278.3	6,295.8	6,211.8	18.4	18.3	-119.73	-846.1	198.0	918.6	883.6	34.91	26.311	
6,460.0	6,371.2	6,407.7	6,322.9	18.7	18.8	-120.26	-859.6	200.5	934.6	898.9	35.72	26.164	
6,555.0	6,464.2	6,519.7	6,434.4	19.1	19.3	-120.99	-868.9	202.2	948.9	912.4	36.51	25.990	
6,650.0	6,557.1	6,631.4	6,546.0	19.4	19.7	-121.93	-873.9	203.1	961.6	924.3	37.27	25.797	
6,745.0	6,650.0	6,736.4	6,651.0	19.8	20.1	-122.98	-874.8	203.3	972.7	934.8	37.97	25.620	
6,840.0	6,742.9	6,829.4	6,743.9	20.1	20.3	-123.93	-874.8	203.3	983.8	945.2	38.60	25.485	
6,935.0	6,835.9	6,922.3	6,836.9	20.5	20.6	-124.86	-874.8	203.3	995.1	955.9	39.24	25.358	

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 #604H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #604H	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	0.8	0.8	3.0	3.0	125.02	-51.5	73.5	89.7				
95.0	95.0	95.8	95.8	3.0	3.0	125.02	-51.5	73.5	89.7	83.7	6.00	14.957	
190.0	190.0	190.8	190.8	3.0	3.0	125.02	-51.5	73.5	89.7	83.7	6.00	14.946	
285.0	285.0	285.8	285.8	3.0	3.0	125.02	-51.5	73.5	89.7	83.7	6.01	14.922	
380.0	380.0	380.8	380.8	3.0	3.0	125.02	-51.5	73.5	89.7	83.7	6.03	14.884	
475.0	475.0	475.8	475.8	3.0	3.0	125.02	-51.5	73.5	89.7	83.7	6.05	14.834	
570.0	570.0	570.8	570.8	3.1	3.1	125.02	-51.5	73.5	89.7	83.7	6.08	14.771	
665.0	665.0	665.8	665.8	3.1	3.1	125.02	-51.5	73.5	89.7	83.6	6.11	14.695	
760.0	760.0	760.8	760.8	3.1	3.1	125.02	-51.5	73.5	89.7	83.6	6.14	14.609	
855.0	855.0	855.8	855.8	3.2	3.2	125.02	-51.5	73.5	89.7	83.6	6.18	14.512	
950.0	950.0	950.8	950.8	3.2	3.2	125.02	-51.5	73.5	89.7	83.5	6.23	14.404	
1,045.0	1,045.0	1,045.8	1,045.8	3.3	3.3	125.02	-51.5	73.5	89.7	83.5	6.28	14.287	
1,140.0	1,140.0	1,140.8	1,140.8	3.3	3.3	125.02	-51.5	73.5	89.7	83.4	6.34	14.162	
1,235.0	1,235.0	1,235.8	1,235.8	3.4	3.4	125.02	-51.5	73.5	89.7	83.3	6.40	14.029	
1,330.0	1,330.0	1,330.8	1,330.8	3.4	3.4	125.02	-51.5	73.5	89.7	83.3	6.46	13.888	
1,425.0	1,425.0	1,425.8	1,425.8	3.5	3.5	125.02	-51.5	73.5	89.7	83.2	6.53	13.741	
1,520.0	1,520.0	1,520.8	1,520.8	3.6	3.6	125.02	-51.5	73.5	89.7	83.1	6.60	13.589	
1,615.0	1,615.0	1,615.8	1,615.8	3.6	3.6	125.02	-51.5	73.5	89.7	83.1	6.68	13.432	
1,710.0	1,710.0	1,710.8	1,710.8	3.7	3.7	125.02	-51.5	73.5	89.7	83.0	6.76	13.270	
1,805.0	1,805.0	1,805.8	1,805.8	3.8	3.8	125.02	-51.5	73.5	89.7	82.9	6.85	13.106	
1,900.0	1,900.0	1,900.8	1,900.8	3.9	3.9	125.02	-51.5	73.5	89.7	82.8	6.94	12.938	
1,995.0	1,995.0	1,995.8	1,995.8	3.9	3.9	125.02	-51.5	73.5	89.7	82.7	7.03	12.768 CC, ES	
2,090.0	2,090.0	2,088.0	2,088.0	4.0	4.1	-107.03	-52.5	74.5	91.5	84.3	7.26	12.608	
2,185.0	2,184.9	2,179.8	2,179.7	4.4	4.6	-108.93	-55.5	77.5	97.3	89.3	7.95	12.242 SF	
2,280.0	2,279.6	2,271.0	2,270.6	5.0	5.2	-111.64	-60.6	82.5	107.2	98.5	8.70	12.324	
2,375.0	2,373.9	2,361.3	2,360.3	5.5	5.7	-114.66	-67.7	89.5	121.5	112.0	9.43	12.881	
2,470.0	2,467.9	2,450.3	2,448.5	6.1	6.2	-117.58	-76.6	98.3	140.2	130.1	10.15	13.812	
2,565.0	2,561.3	2,537.8	2,534.7	6.6	6.7	-120.17	-87.3	108.9	163.5	152.6	10.86	15.059	
2,660.0	2,654.3	2,625.2	2,620.2	7.0	7.1	-122.55	-99.7	121.2	190.7	179.3	11.44	16.666	
2,755.0	2,747.2	2,715.6	2,708.7	7.2	7.3	-124.49	-113.1	134.4	219.0	207.1	11.86	18.466	
2,850.0	2,840.2	2,806.1	2,797.2	7.3	7.5	-125.99	-126.5	147.6	247.4	235.2	12.21	20.262	
2,945.0	2,933.1	2,896.5	2,885.7	7.5	7.6	-127.18	-139.8	160.9	275.9	263.4	12.59	21.910	
3,040.0	3,026.0	2,987.0	2,974.2	7.7	7.8	-128.15	-153.2	174.1	304.6	291.6	13.01	23.415	
3,135.0	3,118.9	3,077.5	3,062.7	7.9	8.0	-128.96	-166.6	187.3	333.3	319.8	13.45	24.784	
3,230.0	3,211.9	3,167.9	3,151.1	8.2	8.2	-129.63	-180.0	200.5	362.1	348.1	13.91	26.026	
3,325.0	3,304.8	3,258.4	3,239.6	8.4	8.4	-130.21	-193.3	213.7	390.8	376.5	14.40	27.151	
3,420.0	3,397.7	3,348.8	3,328.1	8.6	8.6	-130.71	-206.7	227.0	419.7	404.8	14.90	28.169	
3,515.0	3,490.6	3,439.3	3,416.6	8.9	8.9	-131.14	-220.1	240.2	448.5	433.1	15.42	29.090	
3,610.0	3,583.5	3,529.8	3,505.1	9.1	9.1	-131.52	-233.4	253.4	477.4	461.4	15.95	29.924	
3,705.0	3,676.5	3,620.2	3,593.6	9.4	9.3	-131.86	-246.8	266.6	506.3	489.8	16.50	30.679	
3,800.0	3,769.4	3,710.7	3,682.0	9.7	9.6	-132.16	-260.2	279.8	535.2	518.1	17.06	31.363	
3,895.0	3,862.3	3,801.1	3,770.5	9.9	9.8	-132.43	-273.6	293.1	564.1	546.5	17.64	31.985	
3,990.0	3,955.2	3,891.6	3,859.0	10.2	10.1	-132.67	-286.9	306.3	593.0	574.8	18.22	32.549	
4,085.0	4,048.2	3,982.0	3,947.5	10.5	10.3	-132.89	-300.3	319.5	622.0	603.2	18.81	33.063	
4,180.0	4,141.1	4,072.5	4,036.0	10.8	10.6	-133.10	-313.7	332.7	650.9	631.5	19.41	33.532	
4,275.0	4,234.0	4,163.0	4,124.4	11.1	10.9	-133.28	-327.0	345.9	679.9	659.8	20.02	33.961	
4,370.0	4,326.9	4,253.4	4,212.9	11.4	11.2	-133.45	-340.4	359.2	708.8	688.2	20.63	34.353	
4,465.0	4,419.9	4,343.9	4,301.4	11.7	11.5	-133.61	-353.8	372.4	737.8	716.5	21.25	34.713	
4,560.0	4,512.8	4,434.3	4,389.9	12.0	11.7	-133.75	-367.1	385.6	766.7	744.9	21.88	35.044	
4,655.0	4,605.7	4,524.8	4,478.4	12.3	12.0	-133.88	-380.5	398.8	795.7	773.2	22.51	35.348	
4,750.0	4,698.6	4,615.3	4,566.9	12.7	12.3	-134.01	-393.9	412.0	824.7	801.5	23.15	35.629	
4,845.0	4,791.6	4,705.7	4,655.3	13.0	12.6	-134.12	-407.3	425.3	853.7	829.9	23.79	35.888	

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 #604H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #604H	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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,940.0	4,884.5	4,796.2	4,743.8	13.3	12.9	-134.23	-420.6	438.5	882.6	858.2	24.43	36.128		
5,035.0	4,977.4	4,886.6	4,832.3	13.6	13.2	-134.33	-434.0	451.7	911.6	886.6	25.08	36.350		
5,130.0	5,070.3	4,977.1	4,920.8	14.0	13.5	-134.43	-447.4	464.9	940.6	914.9	25.73	36.557		
5,225.0	5,163.2	5,067.5	5,009.3	14.3	13.8	-134.52	-460.7	478.1	969.6	943.2	26.38	36.748		
5,320.0	5,256.2	5,158.0	5,097.8	14.6	14.1	-134.60	-474.1	491.4	998.6	971.5	27.04	36.927		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #604H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #604H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - BANDANA FEDERAL COM #704H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12476-MWD+IFR1+MS							Rule Assigned:				Offset Well Error: 3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre			Distance							
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	0.9	0.9	3.0	3.0	124.88	-16.8	24.1	29.4					
95.0	95.0	95.9	95.9	3.0	3.0	124.88	-16.8	24.1	29.4	23.4	6.00	4.896		
190.0	190.0	190.9	190.9	3.0	3.0	124.88	-16.8	24.1	29.4	23.4	6.00	4.892		
285.0	285.0	285.9	285.9	3.0	3.0	124.88	-16.8	24.1	29.4	23.4	6.01	4.884		
380.0	380.0	380.9	380.9	3.0	3.0	124.88	-16.8	24.1	29.4	23.3	6.03	4.872		
475.0	475.0	475.9	475.9	3.0	3.0	124.88	-16.8	24.1	29.4	23.3	6.05	4.856		
570.0	570.0	570.9	570.9	3.1	3.1	124.88	-16.8	24.1	29.4	23.3	6.08	4.835		
665.0	665.0	665.9	665.9	3.1	3.1	124.88	-16.8	24.1	29.4	23.3	6.11	4.811		
760.0	760.0	760.9	760.9	3.1	3.1	124.88	-16.8	24.1	29.4	23.2	6.14	4.782		
855.0	855.0	855.9	855.9	3.2	3.2	124.88	-16.8	24.1	29.4	23.2	6.18	4.751		
950.0	950.0	950.9	950.9	3.2	3.2	124.88	-16.8	24.1	29.4	23.1	6.23	4.716		
1,045.0	1,045.0	1,045.9	1,045.9	3.3	3.3	124.88	-16.8	24.1	29.4	23.1	6.28	4.677		
1,140.0	1,140.0	1,140.9	1,140.9	3.3	3.3	124.88	-16.8	24.1	29.4	23.0	6.34	4.636		
1,235.0	1,235.0	1,235.9	1,235.9	3.4	3.4	124.88	-16.8	24.1	29.4	23.0	6.40	4.593		
1,330.0	1,330.0	1,330.9	1,330.9	3.4	3.4	124.88	-16.8	24.1	29.4	22.9	6.46	4.547		
1,425.0	1,425.0	1,425.9	1,425.9	3.5	3.5	124.88	-16.8	24.1	29.4	22.8	6.53	4.499		
1,520.0	1,520.0	1,520.9	1,520.9	3.6	3.6	124.88	-16.8	24.1	29.4	22.8	6.60	4.449		
1,615.0	1,615.0	1,615.9	1,615.9	3.6	3.6	124.88	-16.8	24.1	29.4	22.7	6.68	4.398		
1,710.0	1,710.0	1,710.9	1,710.9	3.7	3.7	124.88	-16.8	24.1	29.4	22.6	6.76	4.345		
1,805.0	1,805.0	1,805.9	1,805.9	3.8	3.8	124.88	-16.8	24.1	29.4	22.5	6.85	4.291		
1,900.0	1,900.0	1,900.9	1,900.9	3.9	3.9	124.88	-16.8	24.1	29.4	22.4	6.93	4.237		
1,995.0	1,995.0	1,995.9	1,995.9	3.9	3.9	124.88	-16.8	24.1	29.4	22.4	7.03	4.181	CC, ES, SF	
2,090.0	2,090.0	2,090.8	2,090.8	4.0	4.1	-106.38	-18.1	23.4	30.0	22.8	7.15	4.191		
2,185.0	2,184.9	2,185.6	2,185.5	4.4	4.6	-106.04	-22.1	21.3	31.8	24.4	7.41	4.300		
2,280.0	2,279.6	2,280.4	2,280.0	5.0	5.2	-105.58	-29.0	17.8	35.0	27.3	7.71	4.545		
2,375.0	2,373.9	2,375.1	2,374.1	5.5	5.7	-105.06	-38.5	12.8	39.5	31.4	8.05	4.906		
2,470.0	2,467.9	2,469.7	2,467.6	6.1	6.2	-104.54	-50.9	6.3	45.3	36.8	8.43	5.367		
2,565.0	2,561.3	2,564.3	2,560.6	6.6	6.5	-104.09	-65.9	-1.5	52.3	43.4	8.85	5.910		
2,660.0	2,654.3	2,658.9	2,653.6	7.0	6.7	-105.08	-81.9	-9.9	60.1	50.8	9.34	6.438		
2,755.0	2,747.2	2,753.6	2,746.5	7.2	6.8	-106.05	-97.9	-18.2	68.0	58.2	9.85	6.911		
2,850.0	2,840.2	2,848.3	2,839.4	7.3	7.0	-106.82	-113.9	-26.6	76.0	65.6	10.37	7.329		
2,945.0	2,933.1	2,942.9	2,932.3	7.5	7.2	-107.44	-129.9	-34.9	83.9	73.0	10.91	7.692		
3,040.0	3,026.0	3,037.6	3,025.3	7.7	7.4	-107.96	-146.0	-43.3	91.9	80.4	11.47	8.009		
3,135.0	3,118.9	3,132.3	3,118.2	7.9	7.6	-108.39	-162.0	-51.7	99.8	87.8	12.05	8.284		
3,230.0	3,211.9	3,226.9	3,211.1	8.2	7.8	-108.76	-178.0	-60.0	107.8	95.1	12.64	8.524		
3,325.0	3,304.8	3,321.6	3,304.0	8.4	8.1	-109.08	-194.0	-68.4	115.7	102.5	13.25	8.735		
3,420.0	3,397.7	3,416.2	3,396.9	8.6	8.3	-109.36	-210.0	-76.7	123.7	109.8	13.87	8.920		
3,515.0	3,490.6	3,510.9	3,489.9	8.9	8.6	-109.60	-226.1	-85.1	131.7	117.2	14.50	9.083		
3,610.0	3,583.5	3,605.6	3,582.8	9.1	8.8	-109.82	-242.1	-93.4	139.7	124.5	15.13	9.228		
3,705.0	3,676.5	3,700.2	3,675.7	9.4	9.1	-110.01	-258.1	-101.8	147.6	131.9	15.78	9.356		
3,800.0	3,769.4	3,794.9	3,768.6	9.7	9.4	-110.18	-274.1	-110.2	155.6	139.2	16.43	9.469		
3,895.0	3,862.3	3,889.6	3,861.6	9.9	9.6	-110.34	-290.1	-118.5	163.6	146.5	17.09	9.571		
3,990.0	3,955.2	3,984.2	3,954.5	10.2	9.9	-110.48	-306.1	-126.9	171.6	153.8	17.76	9.662		
4,085.0	4,048.2	4,078.9	4,047.4	10.5	10.2	-110.61	-322.2	-135.2	179.5	161.1	18.43	9.744		
4,180.0	4,141.1	4,173.5	4,140.3	10.8	10.5	-110.73	-338.2	-143.6	187.5	168.4	19.10	9.818		
4,275.0	4,234.0	4,268.2	4,233.3	11.1	10.8	-110.84	-354.2	-152.0	195.5	175.7	19.78	9.885		
4,370.0	4,326.9	4,362.9	4,326.2	11.4	11.1	-110.94	-370.2	-160.3	203.5	183.0	20.46	9.945		
4,465.0	4,419.9	4,457.5	4,419.1	11.7	11.4	-111.03	-386.2	-168.7	211.5	190.3	21.15	10.000		
4,560.0	4,512.8	4,552.2	4,512.0	12.0	11.7	-111.12	-402.3	-177.0	219.4	197.6	21.83	10.051		
4,655.0	4,605.7	4,646.9	4,604.9	12.3	12.1	-111.20	-418.3	-185.4	227.4	204.9	22.53	10.097		
4,750.0	4,698.6	4,741.5	4,697.9	12.7	12.4	-111.27	-434.3	-193.7	235.4	212.2	23.22	10.139		
4,845.0	4,791.6	4,836.2	4,790.8	13.0	12.7	-111.34	-450.3	-202.1	243.4	219.5	23.92	10.178		

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 #604H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #604H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - BANDANA FEDERAL COM #704H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12476-MWD+IFR1+MS								Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre	Distance	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,940.0	4,884.5	4,930.9	4,883.7	13.3	13.0	-111.41	-466.3	-210.5	251.4	226.8	24.61	10.213		
5,035.0	4,977.4	5,025.5	4,976.6	13.6	13.3	-111.47	-482.3	-218.8	259.4	234.1	25.31	10.246		
5,130.0	5,070.3	5,120.2	5,069.6	14.0	13.7	-111.52	-498.4	-227.2	267.4	241.3	26.02	10.276		
5,225.0	5,163.2	5,214.8	5,162.5	14.3	14.0	-111.58	-514.4	-235.5	275.3	248.6	26.72	10.305		
5,320.0	5,256.2	5,309.5	5,255.4	14.6	14.3	-111.63	-530.4	-243.9	283.3	255.9	27.43	10.331		
5,415.0	5,349.1	5,404.2	5,348.3	15.0	14.6	-111.68	-546.4	-252.2	291.3	263.2	28.13	10.355		
5,510.0	5,442.0	5,498.8	5,441.3	15.3	15.0	-111.72	-562.4	-260.6	299.3	270.5	28.84	10.378		
5,605.0	5,534.9	5,593.5	5,534.2	15.6	15.3	-111.77	-578.4	-269.0	307.3	277.7	29.55	10.399		
5,700.0	5,627.9	5,688.2	5,627.1	16.0	15.7	-111.81	-594.5	-277.3	315.3	285.0	30.26	10.418		
5,795.0	5,720.8	5,782.8	5,720.0	16.3	16.0	-111.85	-610.5	-285.7	323.2	292.3	30.97	10.437		
5,890.0	5,813.7	5,877.5	5,813.0	16.7	16.3	-111.88	-626.5	-294.0	331.2	299.6	31.68	10.454		
5,985.0	5,906.6	5,972.2	5,905.9	17.0	16.7	-111.92	-642.5	-302.4	339.2	306.8	32.40	10.470		
6,080.0	5,999.6	6,066.8	5,998.8	17.3	17.0	-111.95	-658.5	-310.8	347.2	314.1	33.11	10.485		
6,175.0	6,092.5	6,161.5	6,091.7	17.7	17.4	-111.98	-674.6	-319.1	355.2	321.4	33.83	10.500		
6,270.0	6,185.4	6,256.1	6,184.6	18.0	17.7	-112.02	-690.6	-327.5	363.2	328.6	34.55	10.513		
6,365.0	6,278.3	6,350.8	6,277.6	18.4	18.0	-112.05	-706.6	-335.8	371.2	335.9	35.26	10.526		
6,460.0	6,371.2	6,445.5	6,370.5	18.7	18.4	-112.07	-722.6	-344.2	379.2	343.2	35.98	10.538		
6,555.0	6,464.2	6,540.1	6,463.4	19.1	18.7	-112.10	-738.6	-352.5	387.1	350.4	36.70	10.549		
6,650.0	6,557.1	6,634.8	6,556.3	19.4	19.1	-112.13	-754.6	-360.9	395.1	357.7	37.42	10.561		
6,745.0	6,650.0	6,729.7	6,649.7	19.8	19.4	-112.31	-769.7	-368.8	403.1	365.0	38.13	10.571		
6,840.0	6,742.9	6,824.4	6,743.4	20.1	19.8	-112.92	-782.1	-375.2	411.0	372.2	38.87	10.576		
6,935.0	6,835.9	6,918.8	6,837.2	20.5	20.3	-113.93	-791.7	-380.2	419.0	379.4	39.61	10.579		
7,030.0	6,928.8	7,012.6	6,930.6	20.8	20.7	-115.31	-798.5	-383.8	427.2	386.9	40.36	10.586		
7,125.0	7,021.7	7,105.6	7,023.5	21.2	21.1	-117.02	-802.5	-385.9	435.9	394.8	41.11	10.603		
7,220.0	7,114.6	7,197.7	7,115.6	21.5	21.4	-119.03	-803.9	-386.6	445.2	403.3	41.84	10.641		
7,315.0	7,207.6	7,290.6	7,208.5	21.9	21.6	-121.17	-803.9	-386.6	455.3	412.7	42.54	10.701		
7,410.0	7,300.5	7,383.5	7,301.4	22.2	21.9	-123.22	-803.9	-386.6	465.9	422.7	43.25	10.774		
7,505.0	7,393.4	7,476.4	7,394.3	22.6	22.2	-125.17	-803.9	-386.6	477.2	433.3	43.94	10.859		
7,600.0	7,486.3	7,569.3	7,487.2	23.0	22.5	-127.04	-803.9	-386.6	489.0	444.4	44.64	10.955		
7,695.0	7,579.3	7,662.3	7,580.2	23.3	22.7	-128.82	-803.9	-386.6	501.3	456.0	45.33	11.060		
7,790.0	7,672.2	7,755.2	7,673.1	23.7	23.0	-130.51	-803.9	-386.6	514.1	468.1	46.01	11.173		
7,885.0	7,765.1	7,848.1	7,766.0	24.0	23.3	-132.12	-803.9	-386.6	527.3	480.6	46.69	11.293		
7,980.0	7,858.0	7,941.0	7,858.9	24.4	23.6	-133.66	-803.9	-386.6	540.9	493.5	47.37	11.419		
8,075.0	7,950.9	8,034.0	7,951.8	24.8	23.8	-135.12	-803.9	-386.6	554.9	506.8	48.05	11.549		
8,170.0	8,043.9	8,126.9	8,044.8	25.1	24.1	-136.51	-803.9	-386.6	569.2	520.5	48.72	11.684		
8,265.0	8,136.8	8,219.8	8,137.7	25.5	24.4	-137.83	-803.9	-386.6	583.8	534.5	49.39	11.822		
8,360.0	8,229.7	8,312.7	8,230.6	25.8	24.7	-139.08	-803.9	-386.6	598.8	548.7	50.05	11.963		
8,455.0	8,322.6	8,405.7	8,323.5	26.2	25.0	-140.28	-803.9	-386.6	614.0	563.3	50.72	12.106		
8,550.0	8,415.6	8,498.6	8,416.5	26.6	25.3	-141.42	-803.9	-386.6	629.4	578.0	51.38	12.250		
8,645.0	8,508.5	8,591.5	8,509.4	26.9	25.5	-142.51	-803.9	-386.6	645.1	593.1	52.04	12.396		
8,740.0	8,601.4	8,684.4	8,602.3	27.3	25.8	-143.54	-803.9	-386.6	661.0	608.3	52.71	12.542		
8,835.0	8,694.4	8,777.4	8,695.3	27.6	26.1	-144.58	-803.9	-386.6	677.0	623.6	53.37	12.685		
8,930.0	8,787.8	8,870.8	8,788.7	28.0	26.4	-145.56	-803.9	-386.6	691.3	637.2	54.06	12.786		
9,025.0	8,881.7	8,964.7	8,882.6	28.4	26.7	-146.35	-803.9	-386.6	703.0	648.3	54.78	12.834		
9,120.0	8,976.1	9,059.1	8,977.0	28.8	27.0	-146.94	-803.9	-386.6	712.3	656.8	55.49	12.836		
9,215.0	9,070.7	9,153.7	9,071.6	29.2	27.3	-147.36	-803.9	-386.6	718.9	662.8	56.19	12.794		
9,310.0	9,165.6	9,248.6	9,166.5	29.6	27.6	-147.60	-803.9	-386.6	723.0	666.1	56.88	12.711		
9,405.0	9,260.6	9,343.6	9,261.5	29.9	27.9	-147.69	-803.9	-386.6	724.3	666.9	57.47	12.604		
9,500.0	9,355.6	9,438.6	9,356.5	30.2	28.2	83.72	-803.9	-386.6	724.3	666.3	58.05	12.479		
9,595.0	9,450.6	9,533.6	9,451.5	30.4	28.5	83.72	-803.9	-386.6	724.3	665.7	58.62	12.356		
9,690.0	9,545.6	9,628.6	9,546.5	30.7	28.8	83.72	-803.9	-386.6	724.3	665.1	59.20	12.236		
9,785.0	9,640.6	9,723.6	9,641.5	31.0	29.1	83.72	-803.9	-386.6	724.3	664.6	59.78	12.117		

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 #604H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #604H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - BANDANA FEDERAL COM #704H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12476-MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,880.0	9,735.6	9,818.6	9,736.5	31.3	29.4	83.72	-803.9	-386.6	724.3	664.0	60.36	12.000	
9,975.0	9,830.6	9,913.6	9,831.5	31.5	29.7	83.72	-803.9	-386.6	724.3	663.4	60.94	11.885	
10,070.0	9,925.6	10,008.6	9,926.5	31.8	30.0	83.72	-803.9	-386.6	724.3	662.8	61.53	11.772	
10,165.0	10,020.6	10,103.6	10,021.5	32.1	30.3	83.72	-803.9	-386.6	724.3	662.2	62.12	11.661	
10,260.0	10,115.6	10,198.6	10,116.5	32.4	30.7	83.72	-803.9	-386.6	724.3	661.6	62.71	11.551	
10,355.0	10,210.6	10,293.6	10,211.5	32.7	31.0	83.72	-803.9	-386.6	724.3	661.0	63.30	11.443	
10,450.0	10,305.6	10,388.6	10,306.5	32.9	31.3	83.72	-803.9	-386.6	724.3	660.5	63.89	11.337	
10,545.0	10,400.6	10,483.6	10,401.5	33.2	31.6	83.72	-803.9	-386.6	724.3	659.9	64.49	11.232	
10,640.0	10,495.6	10,578.6	10,496.5	33.5	31.9	83.72	-803.9	-386.6	724.3	659.3	65.08	11.129	
10,735.0	10,590.6	10,673.6	10,591.5	33.8	32.2	83.72	-803.9	-386.6	724.3	658.7	65.68	11.028	
10,830.0	10,685.6	10,768.6	10,686.5	34.1	32.5	83.72	-803.9	-386.6	724.3	658.1	66.28	10.928	
10,925.0	10,780.6	10,863.6	10,781.5	34.4	32.8	83.72	-803.9	-386.6	724.3	657.5	66.88	10.830	
11,020.0	10,875.6	10,958.6	10,876.5	34.7	33.1	83.72	-803.9	-386.6	724.3	656.9	67.49	10.733	
11,115.0	10,970.6	11,053.6	10,971.5	35.0	33.5	83.72	-803.9	-386.6	724.3	656.3	68.09	10.638	
11,210.0	11,065.6	11,148.6	11,066.5	35.2	33.8	83.72	-803.9	-386.6	724.3	655.6	68.70	10.544	
11,305.0	11,160.6	11,243.6	11,161.5	35.5	34.1	83.72	-803.9	-386.6	724.3	655.0	69.30	10.452	
11,400.0	11,255.6	11,338.6	11,256.5	35.8	34.4	83.72	-803.9	-386.6	724.3	654.4	69.91	10.361	
11,495.0	11,350.6	11,433.6	11,351.5	36.1	34.7	83.72	-803.9	-386.6	724.3	653.8	70.52	10.271	
11,590.0	11,445.6	11,528.6	11,446.5	36.4	35.0	83.72	-803.9	-386.6	724.3	653.2	71.13	10.183	
11,685.0	11,540.6	11,623.6	11,541.5	36.7	35.4	83.72	-803.9	-386.6	724.3	652.6	71.75	10.096	
11,780.0	11,635.6	11,718.6	11,636.5	37.0	35.7	83.72	-803.9	-386.6	724.3	652.0	72.36	10.010	
11,875.0	11,730.6	11,813.6	11,731.5	37.3	36.0	83.72	-803.9	-386.6	724.3	651.4	72.97	9.926	
11,970.0	11,825.6	11,908.6	11,826.5	37.6	36.3	83.72	-803.9	-386.6	724.3	650.8	73.59	9.843	
12,065.0	11,920.6	12,003.6	11,921.5	37.9	36.6	83.72	-803.9	-386.6	724.3	650.1	74.21	9.761	
12,160.0	12,015.6	12,098.6	12,016.5	38.2	36.9	83.72	-803.9	-386.6	724.3	649.5	74.83	9.680	
12,255.1	12,110.7	12,193.7	12,111.6	38.5	37.3	83.72	-803.9	-386.6	724.3	648.9	75.44	9.601	
12,350.0	12,205.0	12,288.0	12,205.9	38.5	37.6	-96.43	-803.9	-386.6	725.4	649.5	75.81	9.568	
12,445.0	12,295.6	12,378.6	12,296.5	38.6	37.9	-98.06	-803.9	-386.6	729.1	652.9	76.17	9.572	
12,540.0	12,379.0	12,462.0	12,379.9	38.6	38.2	-100.15	-803.9	-386.6	737.3	660.8	76.53	9.634	
12,635.0	12,451.7	12,611.6	12,527.7	38.7	38.3	-104.94	-823.0	-388.0	749.4	672.4	77.07	9.724	
12,730.0	12,511.1	12,819.7	12,708.5	38.8	38.4	-110.01	-922.2	-395.5	757.3	680.3	77.00	9.836	
12,825.0	12,554.6	13,099.2	12,854.4	38.9	38.6	-112.53	-1,155.3	-413.0	753.6	677.5	76.09	9.904	
12,920.0	12,580.6	13,271.0	12,870.2	39.0	38.7	-112.06	-1,325.1	-425.6	738.4	662.1	76.29	9.679	
13,015.0	12,588.0	13,347.2	12,868.5	39.1	38.8	-112.61	-1,401.2	-429.4	729.7	653.0	76.70	9.514	
13,110.0	12,585.7	13,424.1	12,866.8	39.3	38.9	-112.70	-1,478.1	-431.1	727.1	650.0	77.02	9.440	
13,171.4	12,584.3	13,474.3	12,865.7	39.4	39.0	-112.72	-1,528.2	-431.2	726.6	649.4	77.24	9.407	
13,205.0	12,583.4	13,507.3	12,865.0	39.5	39.0	-112.72	-1,561.3	-430.9	726.6	649.3	77.35	9.394	
13,300.0	12,581.2	13,602.3	12,862.8	39.6	39.2	-112.74	-1,656.3	-430.1	726.7	649.0	77.70	9.353	
13,395.0	12,578.9	13,697.3	12,860.7	39.8	39.4	-112.75	-1,751.2	-429.4	726.8	648.7	78.07	9.309	
13,490.0	12,576.6	13,792.3	12,858.6	40.1	39.6	-112.76	-1,846.2	-428.6	726.8	648.4	78.48	9.262	
13,585.0	12,574.3	13,887.3	12,856.5	40.3	39.8	-112.78	-1,941.2	-427.9	726.9	648.0	78.90	9.213	
13,680.0	12,572.0	13,982.3	12,854.4	40.5	40.0	-112.79	-2,036.2	-427.1	727.0	647.6	79.35	9.161	
13,775.0	12,569.7	14,077.3	12,852.3	40.8	40.2	-112.80	-2,131.1	-426.3	727.0	647.2	79.83	9.108	
13,870.0	12,567.4	14,172.3	12,850.1	41.0	40.5	-112.82	-2,226.1	-425.6	727.1	646.8	80.32	9.052	
13,965.0	12,565.1	14,267.3	12,848.0	41.3	40.7	-112.83	-2,321.1	-424.8	727.2	646.3	80.85	8.995	
14,060.0	12,562.8	14,362.3	12,845.9	41.6	41.0	-112.84	-2,416.0	-424.1	727.2	645.8	81.39	8.935	
14,155.0	12,560.5	14,457.3	12,843.8	41.8	41.3	-112.85	-2,511.0	-423.3	727.3	645.3	81.95	8.874	
14,250.0	12,558.2	14,552.3	12,841.7	42.1	41.6	-112.87	-2,606.0	-422.5	727.4	644.8	82.54	8.812	
14,345.0	12,555.9	14,647.3	12,839.6	42.4	41.9	-112.88	-2,701.0	-421.8	727.4	644.3	83.15	8.748	
14,440.0	12,553.6	14,742.3	12,837.4	42.8	42.2	-112.89	-2,795.9	-421.0	727.5	643.7	83.78	8.684	
14,535.0	12,551.3	14,837.3	12,835.3	43.1	42.5	-112.91	-2,890.9	-420.3	727.6	643.1	84.43	8.618	
14,630.0	12,549.0	14,932.3	12,833.2	43.4	42.9	-112.92	-2,985.9	-419.5	727.6	642.5	85.10	8.551	

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 #604H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #604H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - BANDANA FEDERAL COM #704H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12476-MWD+IFR1+MS								Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,725.0	12,546.7	15,027.3	12,831.1	43.8	43.2	-112.93	-3,080.9	-418.7	727.7	641.9	85.79	8.483		
14,820.0	12,544.4	15,122.3	12,829.0	44.1	43.6	-112.95	-3,175.8	-418.0	727.8	641.3	86.49	8.414		
14,915.0	12,542.1	15,217.3	12,826.9	44.5	44.0	-112.96	-3,270.8	-417.2	727.8	640.6	87.22	8.345		
15,010.0	12,539.8	15,312.3	12,824.7	44.9	44.3	-112.97	-3,365.8	-416.5	727.9	639.9	87.96	8.275		
15,105.0	12,537.5	15,407.3	12,822.6	45.3	44.7	-112.99	-3,460.7	-415.7	728.0	639.2	88.72	8.205		
15,200.0	12,535.2	15,502.3	12,820.5	45.6	45.1	-113.00	-3,555.7	-414.9	728.0	638.5	89.50	8.134		
15,295.0	12,532.9	15,597.3	12,818.4	46.0	45.5	-113.01	-3,650.7	-414.2	728.1	637.8	90.30	8.063		
15,390.0	12,530.6	15,692.3	12,816.3	46.4	45.9	-113.02	-3,745.7	-413.4	728.2	637.1	91.11	7.992		
15,485.0	12,528.3	15,787.3	12,814.2	46.9	46.3	-113.04	-3,840.6	-412.7	728.2	636.3	91.94	7.921		
15,580.0	12,526.0	15,882.3	12,812.0	47.3	46.8	-113.05	-3,935.6	-411.9	728.3	635.5	92.78	7.850		
15,675.0	12,523.7	15,977.3	12,809.9	47.7	47.2	-113.06	-4,030.6	-411.1	728.4	634.7	93.64	7.778		
15,770.0	12,521.4	16,072.3	12,807.8	48.1	47.6	-113.08	-4,125.6	-410.4	728.4	633.9	94.51	7.707		
15,865.0	12,519.2	16,167.3	12,805.7	48.6	48.1	-113.09	-4,220.5	-409.6	728.5	633.1	95.40	7.636		
15,960.0	12,516.9	16,262.3	12,803.6	49.0	48.5	-113.10	-4,315.5	-408.9	728.6	632.3	96.30	7.565		
16,055.0	12,514.6	16,357.3	12,801.4	49.5	49.0	-113.12	-4,410.5	-408.1	728.6	631.4	97.22	7.495		
16,150.0	12,512.3	16,452.3	12,799.3	49.9	49.5	-113.13	-4,505.5	-407.3	728.7	630.6	98.14	7.425		
16,245.0	12,510.0	16,547.3	12,797.2	50.4	49.9	-113.14	-4,600.4	-406.6	728.8	629.7	99.08	7.355		
16,340.0	12,507.7	16,642.3	12,795.1	50.9	50.4	-113.16	-4,695.4	-405.8	728.8	628.8	100.04	7.286		
16,435.0	12,505.4	16,737.3	12,793.0	51.4	50.9	-113.17	-4,790.4	-405.1	728.9	627.9	101.00	7.217		
16,530.0	12,503.1	16,832.3	12,790.9	51.8	51.4	-113.18	-4,885.3	-404.3	729.0	627.0	101.98	7.149		
16,625.0	12,500.8	16,927.3	12,788.7	52.3	51.9	-113.19	-4,980.3	-403.5	729.0	626.1	102.96	7.081		
16,720.0	12,498.5	17,022.3	12,786.6	52.8	52.4	-113.21	-5,075.3	-402.8	729.1	625.2	103.96	7.013		
16,815.0	12,496.2	17,117.3	12,784.5	53.3	52.9	-113.22	-5,170.3	-402.0	729.2	624.2	104.97	6.947		
16,910.0	12,493.9	17,212.3	12,782.4	53.8	53.4	-113.23	-5,265.2	-401.3	729.3	623.3	105.99	6.881		
17,005.0	12,491.6	17,307.3	12,780.3	54.3	53.9	-113.25	-5,360.2	-400.5	729.3	622.3	107.02	6.815		
17,100.0	12,489.3	17,402.3	12,778.2	54.9	54.5	-113.26	-5,455.2	-399.7	729.4	621.3	108.05	6.750		
17,195.0	12,487.0	17,497.3	12,776.0	55.4	55.0	-113.27	-5,550.2	-399.0	729.5	620.4	109.10	6.686		
17,290.0	12,484.7	17,592.3	12,773.9	55.9	55.5	-113.29	-5,645.1	-398.2	729.5	619.4	110.16	6.622		
17,385.0	12,482.4	17,687.3	12,771.8	56.4	56.0	-113.30	-5,740.1	-397.5	729.6	618.4	111.23	6.559		
17,480.0	12,480.1	17,782.3	12,769.7	57.0	56.6	-113.31	-5,835.1	-396.7	729.7	617.4	112.30	6.497		
17,575.0	12,477.8	17,877.3	12,767.6	57.5	57.1	-113.32	-5,930.1	-395.9	729.7	616.3	113.39	6.436		
17,670.0	12,475.5	17,972.3	12,765.5	58.0	57.7	-113.34	-6,025.0	-395.2	729.8	615.3	114.48	6.375		
17,765.0	12,473.2	18,067.3	12,763.3	58.6	58.2	-113.35	-6,120.0	-394.4	729.9	614.3	115.58	6.315		
17,860.0	12,470.9	18,162.3	12,761.2	59.1	58.8	-113.36	-6,215.0	-393.7	729.9	613.2	116.69	6.255		
17,955.0	12,468.6	18,257.3	12,759.1	59.7	59.3	-113.38	-6,309.9	-392.9	730.0	612.2	117.80	6.197		
18,050.0	12,466.3	18,352.3	12,757.0	60.3	59.9	-113.39	-6,404.9	-392.1	730.1	611.1	118.92	6.139		
18,145.0	12,464.0	18,447.3	12,754.9	60.8	60.5	-113.40	-6,499.9	-391.4	730.1	610.1	120.05	6.082		
18,240.0	12,461.7	18,542.3	12,752.8	61.4	61.0	-113.42	-6,594.9	-390.6	730.2	609.0	121.19	6.025		
18,335.0	12,459.5	18,637.3	12,750.6	61.9	61.6	-113.43	-6,689.8	-389.9	730.3	607.9	122.33	5.969		
18,430.0	12,457.2	18,732.3	12,748.5	62.5	62.2	-113.44	-6,784.8	-389.1	730.3	606.9	123.48	5.914		
18,525.0	12,454.9	18,827.3	12,746.4	63.1	62.8	-113.45	-6,879.8	-388.3	730.4	605.8	124.64	5.860		
18,620.0	12,452.6	18,922.3	12,744.3	63.7	63.3	-113.47	-6,974.8	-387.6	730.5	604.7	125.80	5.807		
18,715.0	12,450.3	19,017.3	12,742.2	64.2	63.9	-113.48	-7,069.7	-386.8	730.5	603.6	126.97	5.754		
18,810.0	12,448.0	19,112.3	12,740.1	64.8	64.5	-113.49	-7,164.7	-386.1	730.6	602.5	128.15	5.701		
18,905.0	12,445.7	19,207.3	12,737.9	65.4	65.1	-113.51	-7,259.7	-385.3	730.7	601.4	129.33	5.650		
19,000.0	12,443.4	19,302.3	12,735.8	66.0	65.7	-113.52	-7,354.7	-384.5	730.8	600.2	130.51	5.599		
19,095.0	12,441.1	19,397.3	12,733.7	66.6	66.3	-113.53	-7,449.6	-383.8	730.8	599.1	131.70	5.549		
19,190.0	12,438.8	19,492.3	12,731.6	67.2	66.9	-113.55	-7,544.6	-383.0	730.9	598.0	132.90	5.500		
19,285.0	12,436.5	19,587.3	12,729.5	67.8	67.5	-113.56	-7,639.6	-382.3	731.0	596.9	134.10	5.451		
19,380.0	12,434.2	19,682.3	12,727.4	68.4	68.1	-113.57	-7,734.5	-381.5	731.0	595.7	135.31	5.403		
19,475.0	12,431.9	19,777.3	12,725.2	69.0	68.7	-113.58	-7,829.5	-380.7	731.1	594.6	136.52	5.355		
19,570.0	12,429.6	19,872.3	12,723.1	69.6	69.3	-113.60	-7,924.5	-380.0	731.2	593.4	137.73	5.309		

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 #604H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #604H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: BANDANA FEDERAL PROJECT - BANDANA FEDERAL COM #704H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 12476-MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,665.0	12,427.3	19,967.3	12,721.0	70.2	69.9	-113.61	-8,019.5	-379.2	731.2	592.3	138.95	5.262	
19,760.0	12,425.0	20,062.3	12,718.9	70.8	70.5	-113.62	-8,114.4	-378.5	731.3	591.1	140.18	5.217	
19,855.0	12,422.7	20,157.3	12,716.8	71.4	71.1	-113.64	-8,209.4	-377.7	731.4	590.0	141.41	5.172	
19,950.0	12,420.4	20,252.3	12,714.7	72.0	71.8	-113.65	-8,304.4	-376.9	731.4	588.8	142.64	5.128	
20,045.0	12,418.1	20,347.3	12,712.5	72.6	72.4	-113.66	-8,399.4	-376.2	731.5	587.6	143.88	5.084	
20,140.0	12,415.8	20,442.3	12,710.4	73.2	73.0	-113.68	-8,494.3	-375.4	731.6	586.5	145.12	5.041	
20,235.0	12,413.5	20,537.3	12,708.3	73.9	73.6	-113.69	-8,589.3	-374.7	731.7	585.3	146.36	4.999	
20,235.8	12,413.5	20,538.2	12,708.3	73.9	73.6	-113.69	-8,590.1	-374.7	731.7	585.3	146.37	4.999	
20,298.1	12,412.0	20,595.7	12,707.0	74.3	74.0	-113.70	-8,647.6	-374.2	731.7	584.6	147.11	4.974	

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 #604H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #604H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #603H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 11951-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	5.4	5.4	3.0	4.2	-172.64	-791.8	-102.3	798.4				
95.0	95.0	92.2	92.2	3.0	4.2	-172.62	-792.3	-102.6	798.9	791.7	7.24	110.308	
190.0	190.0	190.7	190.7	3.0	4.2	-172.59	-793.0	-103.1	799.7	792.5	7.25	110.311	
285.0	285.0	284.4	284.4	3.0	4.3	-172.55	-793.6	-103.7	800.4	793.1	7.26	110.186	
380.0	380.0	376.3	376.3	3.0	4.3	-172.52	-794.6	-104.3	801.5	794.2	7.29	109.993	
475.0	475.0	470.8	470.7	3.0	4.3	-172.52	-795.7	-104.5	802.6	795.3	7.32	109.671	
570.0	570.0	559.2	559.2	3.1	4.3	-172.53	-797.1	-104.5	804.1	796.7	7.36	109.302	
665.0	665.0	650.7	650.6	3.1	4.3	-172.59	-799.4	-103.9	806.4	799.0	7.40	108.941	
760.0	760.0	761.7	761.5	3.1	4.3	-172.79	-801.7	-101.5	808.1	800.7	7.46	108.381	
855.0	855.0	876.7	876.5	3.2	4.3	-172.96	-801.0	-98.8	807.2	799.7	7.50	107.674	
950.0	950.0	977.7	977.5	3.2	4.3	-173.07	-798.8	-97.0	804.9	797.4	7.54	106.811	
1,045.0	1,045.0	1,071.5	1,071.3	3.3	4.3	-173.15	-796.3	-95.7	802.3	794.7	7.58	105.803	
1,140.0	1,140.0	1,157.1	1,156.8	3.3	4.3	-173.27	-795.1	-93.7	800.6	793.0	7.64	104.785	
1,235.0	1,235.0	1,288.4	1,287.9	3.4	4.4	-173.69	-790.8	-87.5	797.0	789.3	7.70	103.564	
1,330.0	1,330.0	1,383.3	1,382.5	3.4	4.4	-174.09	-785.8	-81.3	791.4	783.6	7.76	101.918	
1,425.0	1,425.0	1,476.1	1,475.0	3.5	4.4	-174.48	-781.1	-75.5	785.9	778.1	7.84	100.243	
1,520.0	1,520.0	1,570.4	1,568.9	3.6	4.4	-174.87	-776.4	-69.7	780.7	772.8	7.92	98.561	
1,615.0	1,615.0	1,665.9	1,664.2	3.6	4.4	-175.26	-771.6	-64.0	775.5	767.5	8.01	96.853	
1,710.0	1,710.0	1,758.0	1,756.0	3.7	4.5	-175.64	-767.0	-58.5	770.3	762.2	8.10	95.115	
1,805.0	1,805.0	1,852.3	1,850.0	3.8	4.5	-176.01	-762.5	-53.2	765.4	757.2	8.19	93.407	
1,900.0	1,900.0	1,947.4	1,944.9	3.9	4.5	-176.37	-758.0	-48.0	760.6	752.3	8.29	91.698	
1,995.0	1,995.0	2,046.2	2,043.4	3.9	4.6	-176.77	-753.1	-42.5	755.5	747.1	8.40	89.953	
2,090.0	2,090.0	2,140.8	2,137.7	4.0	4.6	-48.78	-748.1	-36.5	749.2	740.7	8.51	88.053	
2,185.0	2,184.9	2,236.0	2,232.5	4.4	4.7	-49.65	-743.0	-30.2	740.9	732.2	8.69	85.282	
2,280.0	2,279.6	2,329.3	2,325.5	5.0	4.7	-50.77	-738.0	-23.6	730.7	721.8	8.88	82.307	
2,375.0	2,373.9	2,422.2	2,418.0	5.5	4.7	-52.13	-733.0	-17.1	718.7	709.6	9.07	79.256	
2,470.0	2,467.9	2,513.9	2,509.3	6.1	4.8	-53.74	-728.2	-10.6	705.4	696.1	9.25	76.223	
2,565.0	2,561.3	2,606.8	2,601.8	6.6	4.9	-55.72	-723.2	-3.5	690.6	681.1	9.43	73.213	
2,660.0	2,654.3	2,697.2	2,691.8	7.0	4.9	-57.76	-718.3	3.5	675.0	665.5	9.58	70.482	
2,755.0	2,747.2	2,784.7	2,778.9	7.2	5.0	-59.73	-713.5	10.3	660.3	650.6	9.72	67.903	
2,850.0	2,840.2	2,867.6	2,861.6	7.3	5.0	-61.61	-710.3	16.3	647.7	637.8	9.90	65.435	
2,945.0	2,933.1	2,957.9	2,951.6	7.5	5.1	-63.73	-707.0	22.9	636.4	626.3	10.10	62.995	
3,040.0	3,026.0	3,048.6	3,041.9	7.7	5.1	-66.01	-703.7	30.5	626.2	615.8	10.33	60.598	
3,135.0	3,118.9	3,139.7	3,132.6	7.9	5.2	-68.39	-700.3	38.3	617.0	606.4	10.59	58.245	
3,230.0	3,211.9	3,235.2	3,227.7	8.2	5.3	-70.84	-696.6	45.2	608.5	597.6	10.88	55.909	
3,325.0	3,304.8	3,327.8	3,320.1	8.4	5.3	-73.24	-692.7	51.4	600.7	589.5	11.20	53.634	
3,420.0	3,397.7	3,418.7	3,410.7	8.6	5.4	-75.70	-688.6	57.8	593.9	582.4	11.54	51.460	
3,515.0	3,490.6	3,520.1	3,511.7	8.9	5.5	-78.46	-683.4	64.3	587.5	575.6	11.91	49.330	
3,610.0	3,583.5	3,612.1	3,603.4	9.1	5.6	-81.00	-677.9	69.7	581.5	569.2	12.30	47.290	
3,705.0	3,676.5	3,705.6	3,696.6	9.4	5.6	-83.54	-672.7	74.1	576.4	563.7	12.70	45.390	
3,800.0	3,769.4	3,796.4	3,787.2	9.7	5.7	-85.93	-668.0	77.4	572.3	559.1	13.11	43.647	
3,895.0	3,862.3	3,885.6	3,876.3	9.9	5.8	-88.29	-663.7	80.7	569.5	556.0	13.54	42.072	
3,990.0	3,955.2	3,976.7	3,967.3	10.2	5.9	-90.68	-659.9	83.9	568.1	554.2	13.97	40.664	
4,043.7	4,007.7	4,027.3	4,017.8	10.4	5.9	-91.98	-658.0	85.5	567.9	553.7	14.22	39.946 CC	
4,085.0	4,048.2	4,065.4	4,055.9	10.5	5.9	-92.95	-656.7	86.6	568.1	553.7	14.41	39.432 ES	
4,180.0	4,141.1	4,155.3	4,145.6	10.8	6.0	-95.22	-653.9	89.6	569.5	554.6	14.85	38.346	
4,275.0	4,234.0	4,250.8	4,241.1	11.1	6.1	-97.60	-651.0	92.4	571.7	556.4	15.31	37.349	
4,370.0	4,326.9	4,343.8	4,334.0	11.4	6.2	-99.78	-648.9	94.1	574.6	558.9	15.76	36.456	
4,465.0	4,419.9	4,436.9	4,427.1	11.7	6.3	-101.83	-647.5	95.0	578.2	562.0	16.21	35.659	
4,560.0	4,512.8	4,531.3	4,521.5	12.0	6.3	-103.85	-646.4	95.7	582.4	565.8	16.67	34.942	
4,655.0	4,605.7	4,630.4	4,620.6	12.3	6.4	-105.92	-644.8	95.6	586.6	569.5	17.12	34.264	
4,750.0	4,698.6	4,715.0	4,705.2	12.7	6.5	-107.67	-643.3	95.5	591.4	573.9	17.55	33.694	

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 #604H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #604H	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												Rule Assigned:	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Depth	Depth	Depth	Depth	Depth	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)		
4,845.0	4,791.6	4,797.2	4,787.3	13.0	6.5	-109.37	-642.6	96.9	598.7	580.7	18.00	33.260	
4,940.0	4,884.5	4,883.3	4,873.4	13.3	6.6	-111.10	-642.4	99.4	608.0	589.5	18.47	32.924	
5,035.0	4,977.4	4,978.1	4,968.1	13.6	6.7	-112.96	-642.4	102.5	618.3	599.3	18.96	32.617	
5,130.0	5,070.3	5,084.9	5,075.0	14.0	6.8	-114.99	-641.3	104.1	627.3	607.8	19.46	32.232	
5,225.0	5,163.2	5,168.4	5,158.4	14.3	6.9	-116.56	-640.1	105.3	636.7	616.8	19.91	31.982	
5,320.0	5,256.2	5,246.8	5,236.8	14.6	7.0	-117.95	-640.0	107.8	648.7	628.3	20.35	31.871	
5,415.0	5,349.1	5,364.0	5,353.9	15.0	7.0	-119.86	-640.9	110.8	661.1	640.2	20.91	31.623	
5,510.0	5,442.0	5,461.8	5,451.7	15.3	7.0	-121.33	-641.3	110.4	671.1	649.7	21.34	31.441	
5,605.0	5,534.9	5,555.8	5,545.7	15.6	7.0	-122.66	-642.1	109.5	681.1	659.3	21.76	31.295	
5,700.0	5,627.9	5,652.5	5,642.4	16.0	7.0	-123.90	-643.8	108.0	691.2	669.0	22.19	31.152	
5,795.0	5,720.8	5,745.1	5,734.9	16.3	7.0	-125.10	-644.6	106.4	701.2	678.6	22.59	31.040	
5,890.0	5,813.7	5,832.4	5,822.2	16.7	7.0	-126.50	-642.2	106.4	712.3	689.3	23.00	30.962	
5,985.0	5,906.6	5,922.5	5,912.3	17.0	7.1	-127.94	-639.1	107.0	724.3	700.8	23.43	30.906	
6,080.0	5,999.6	6,020.4	6,010.1	17.3	7.2	-129.47	-635.7	107.5	736.5	712.6	23.88	30.840	
6,175.0	6,092.5	6,111.3	6,100.9	17.7	7.2	-130.83	-632.6	107.6	748.9	724.6	24.30	30.814	
6,270.0	6,185.4	6,205.6	6,195.2	18.0	7.3	-132.20	-629.2	107.8	761.8	737.1	24.74	30.798	
6,365.0	6,278.3	6,299.5	6,289.1	18.4	7.4	-133.55	-625.5	107.8	774.9	749.7	25.16	30.793	
6,460.0	6,371.2	6,397.4	6,386.8	18.7	7.4	-134.84	-622.7	107.0	787.8	762.2	25.59	30.787 SF	
6,555.0	6,464.2	6,488.7	6,478.2	19.1	7.5	-135.87	-621.8	106.3	801.1	775.1	25.97	30.842	
6,650.0	6,557.1	6,585.2	6,574.6	19.4	7.5	-136.92	-620.7	105.1	814.3	787.9	26.37	30.880	
6,745.0	6,650.0	6,676.1	6,665.5	19.8	7.5	-137.88	-619.9	103.9	827.7	801.0	26.75	30.947	
6,840.0	6,742.9	6,768.7	6,758.1	20.1	7.6	-138.83	-618.9	103.0	841.6	814.5	27.13	31.017	
6,935.0	6,835.9	6,865.5	6,854.9	20.5	7.6	-139.82	-617.5	101.7	855.4	827.9	27.53	31.069	
7,030.0	6,928.8	6,958.2	6,947.6	20.8	7.7	-140.73	-616.2	100.3	869.3	841.4	27.92	31.138	
7,125.0	7,021.7	7,048.9	7,038.3	21.2	7.7	-141.59	-615.1	99.2	883.7	855.4	28.30	31.227	
7,220.0	7,114.6	7,140.2	7,129.6	21.5	7.8	-142.44	-613.8	98.0	898.2	869.6	28.68	31.316	
7,315.0	7,207.6	7,234.1	7,223.5	21.9	7.8	-143.29	-612.2	96.9	913.0	884.0	29.08	31.400	
7,410.0	7,300.5	7,325.9	7,315.3	22.2	7.9	-144.10	-610.8	95.7	928.0	898.5	29.46	31.494	
7,505.0	7,393.4	7,421.2	7,410.5	22.6	7.9	-144.91	-609.3	94.5	943.1	913.2	29.86	31.580	
7,600.0	7,486.3	7,511.4	7,500.7	23.0	8.0	-145.63	-608.1	93.6	958.6	928.3	30.25	31.693	
7,695.0	7,579.3	7,606.1	7,595.3	23.3	8.1	-146.38	-606.9	92.5	974.0	943.4	30.64	31.789	
7,790.0	7,672.2	7,696.9	7,686.2	23.7	8.1	-147.06	-605.8	91.7	989.9	958.9	31.03	31.906	

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 #604H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #604H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #703H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12241-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	6.7	6.7	3.0	4.2	-174.78	-791.5	-72.3	794.8				
95.0	95.0	108.8	108.8	3.0	4.2	-174.71	-790.8	-73.2	794.2	787.0	7.24	109.659	
190.0	190.0	206.4	206.4	3.0	4.2	-174.60	-789.6	-74.7	793.2	785.9	7.25	109.429	
256.3	256.3	262.5	262.5	3.0	4.2	-174.58	-789.2	-74.9	792.7	785.5	7.26	109.233	
285.0	285.0	289.1	289.1	3.0	4.2	-174.61	-789.3	-74.4	792.8	785.5	7.26	109.180	
380.0	380.0	379.7	379.7	3.0	4.2	-174.71	-789.9	-73.1	793.3	786.0	7.28	109.013	
475.0	475.0	473.1	473.0	3.0	4.3	-174.71	-790.9	-73.2	794.3	787.0	7.30	108.812	
570.0	570.0	567.1	567.0	3.1	4.3	-174.69	-792.0	-73.6	795.5	788.1	7.33	108.506	
665.0	665.0	660.9	660.8	3.1	4.3	-174.67	-793.1	-73.9	796.6	789.3	7.37	108.088	
760.0	760.0	757.1	757.0	3.1	4.3	-174.66	-794.3	-74.3	797.8	790.4	7.42	107.545	
855.0	855.0	852.6	852.5	3.2	4.3	-174.64	-795.3	-74.6	798.9	791.4	7.47	106.886	
950.0	950.0	947.8	947.7	3.2	4.3	-174.63	-796.4	-74.8	799.9	792.4	7.54	106.123	
1,045.0	1,045.0	1,042.1	1,042.0	3.3	4.3	-174.63	-797.5	-75.0	801.1	793.5	7.61	105.282	
1,140.0	1,140.0	1,133.6	1,133.5	3.3	4.4	-174.63	-798.8	-75.1	802.4	794.7	7.69	104.395	
1,235.0	1,235.0	1,226.7	1,226.6	3.4	4.4	-174.63	-800.5	-75.2	804.2	796.4	7.77	103.483	
1,330.0	1,330.0	1,331.6	1,331.5	3.4	4.4	-174.68	-802.2	-74.7	805.7	797.8	7.86	102.440	
1,425.0	1,425.0	1,428.7	1,428.6	3.5	4.5	-174.85	-802.8	-72.3	806.1	798.1	7.95	101.453	
1,520.0	1,520.0	1,522.7	1,522.5	3.6	4.5	-175.03	-803.5	-69.8	806.5	798.5	8.03	100.445	
1,615.0	1,615.0	1,616.6	1,616.4	3.6	4.5	-175.17	-804.0	-68.0	806.9	798.8	8.12	99.366	
1,710.0	1,710.0	1,712.2	1,712.0	3.7	4.5	-175.16	-804.5	-68.1	807.4	799.2	8.23	98.096	
1,805.0	1,805.0	1,806.0	1,805.8	3.8	4.6	-175.14	-805.0	-68.4	808.0	799.6	8.34	96.821	
1,900.0	1,900.0	1,901.9	1,901.7	3.9	4.6	-175.11	-805.6	-68.9	808.6	800.1	8.46	95.537	
1,995.0	1,995.0	1,997.7	1,997.4	3.9	4.7	-175.08	-806.0	-69.4	809.0	800.4	8.58	94.260	
2,090.0	2,090.0	2,092.4	2,092.2	4.0	4.7	-46.54	-806.5	-69.8	808.6	799.9	8.71	92.823	
2,185.0	2,184.9	2,196.5	2,196.2	4.4	4.7	-46.81	-806.4	-70.4	805.4	796.5	8.90	90.458	
2,280.0	2,279.6	2,294.0	2,293.7	5.0	4.7	-47.28	-805.6	-70.8	799.4	790.3	9.09	87.896	
2,375.0	2,373.9	2,386.9	2,386.6	5.5	4.7	-47.93	-804.8	-71.1	791.2	781.9	9.29	85.142	
2,470.0	2,467.9	2,480.9	2,480.7	6.1	4.7	-48.82	-804.0	-71.4	781.1	771.6	9.49	82.276	
2,565.0	2,561.3	2,573.7	2,573.5	6.6	4.7	-49.93	-803.1	-71.5	769.0	759.3	9.69	79.325	
2,660.0	2,654.3	2,667.8	2,667.5	7.0	4.7	-51.13	-802.2	-71.7	755.6	745.7	9.85	76.707	
2,755.0	2,747.2	2,761.7	2,761.4	7.2	4.7	-52.32	-801.3	-71.7	742.2	732.2	9.98	74.337	
2,850.0	2,840.2	2,855.6	2,855.3	7.3	4.7	-53.58	-800.2	-71.2	729.0	718.9	10.14	71.924	
2,945.0	2,933.1	2,949.5	2,949.3	7.5	4.7	-54.95	-799.0	-70.0	716.1	705.8	10.31	69.434	
3,040.0	3,026.0	3,041.8	3,041.4	7.7	4.8	-56.40	-797.7	-68.1	703.6	693.1	10.52	66.912	
3,135.0	3,118.9	3,136.2	3,135.9	7.9	4.8	-57.97	-796.1	-65.7	691.3	680.5	10.74	64.384	
3,230.0	3,211.9	3,225.0	3,224.6	8.2	4.8	-59.51	-794.5	-63.3	679.5	668.6	10.98	61.888	
3,325.0	3,304.8	3,313.3	3,312.9	8.4	4.8	-61.06	-793.9	-61.2	669.2	657.9	11.25	59.506	
3,420.0	3,397.7	3,406.3	3,405.8	8.6	4.9	-62.75	-793.1	-58.8	659.4	647.8	11.53	57.196	
3,515.0	3,490.6	3,499.0	3,498.5	8.9	4.9	-64.57	-792.1	-55.4	650.1	638.3	11.83	54.970	
3,610.0	3,583.5	3,584.9	3,584.3	9.1	4.9	-66.34	-791.1	-51.8	641.7	629.5	12.14	52.849	
3,705.0	3,676.5	3,668.0	3,667.3	9.4	5.0	-68.00	-792.0	-48.9	635.7	623.3	12.48	50.957	
3,800.0	3,769.4	3,760.5	3,759.8	9.7	5.0	-69.86	-793.4	-45.7	630.8	618.0	12.83	49.178	
3,895.0	3,862.3	3,845.4	3,844.6	9.9	5.1	-71.44	-795.6	-44.2	627.2	614.0	13.19	47.539	
3,990.0	3,955.2	3,928.2	3,927.3	10.2	5.1	-72.91	-799.3	-43.1	625.5	611.9	13.57	46.105	
4,085.0	4,048.2	4,020.2	4,019.2	10.5	5.1	-74.57	-804.1	-41.5	625.2	611.2	13.96	44.793	
4,122.6	4,084.9	4,067.9	4,066.9	10.6	5.2	-75.42	-806.4	-40.8	625.0	610.9	14.12	44.250	
4,180.0	4,141.1	4,143.8	4,142.7	10.8	5.2	-76.78	-807.7	-40.8	622.9	608.5	14.38	43.317	
4,275.0	4,234.0	4,238.6	4,237.5	11.1	5.3	-78.45	-808.7	-41.6	619.2	604.4	14.78	41.887	
4,370.0	4,326.9	4,334.1	4,333.0	11.4	5.3	-80.13	-809.6	-42.9	615.6	600.4	15.18	40.543	
4,465.0	4,419.9	4,431.1	4,430.0	11.7	5.3	-81.82	-810.2	-44.6	612.1	596.5	15.58	39.276	
4,560.0	4,512.8	4,532.4	4,531.2	12.0	5.4	-83.79	-808.9	-45.3	608.1	592.1	15.98	38.051	
4,655.0	4,605.7	4,629.8	4,628.6	12.3	5.4	-85.79	-806.2	-45.9	603.7	587.3	16.39	36.841	

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 #604H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #604H	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		Semi Major Axis		Offset Wellbore Centre			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	
4,750.0	4,698.6	4,710.0	4,708.8	12.7	5.4	-87.54	-804.0	-45.4	600.7	583.9	16.80	35.759		
4,806.7	4,754.0	4,758.5	4,757.3	12.9	5.4	-88.64	-803.1	-44.2	600.3	583.3	17.05	35.206	CC, ES	
4,845.0	4,791.6	4,790.5	4,789.3	13.0	5.4	-89.37	-802.7	-43.1	600.6	583.3	17.22	34.870		
4,940.0	4,884.5	4,875.8	4,874.5	13.3	5.5	-91.34	-802.2	-39.6	602.8	585.2	17.66	34.138		
5,035.0	4,977.4	4,967.2	4,965.8	13.6	5.5	-93.40	-802.2	-35.8	606.3	588.2	18.11	33.488		
5,130.0	5,070.3	5,058.1	5,056.7	14.0	5.6	-95.32	-803.2	-32.8	610.8	592.2	18.56	32.918		
5,225.0	5,163.2	5,143.5	5,142.0	14.3	5.6	-97.01	-805.1	-30.3	616.5	597.5	19.00	32.455		
5,320.0	5,256.2	5,225.8	5,224.1	14.6	5.7	-98.63	-807.8	-26.6	624.6	605.2	19.43	32.145		
5,415.0	5,349.1	5,348.5	5,346.7	15.0	5.8	-101.03	-810.5	-21.8	632.5	612.6	19.95	31.708		
5,510.0	5,442.0	5,442.6	5,440.8	15.3	5.8	-102.87	-810.4	-20.0	638.0	617.6	20.41	31.262		
5,605.0	5,534.9	5,535.9	5,534.1	15.6	5.9	-104.62	-810.4	-18.7	643.9	623.1	20.87	30.857		
5,700.0	5,627.9	5,627.8	5,625.9	16.0	5.9	-106.30	-810.6	-17.6	650.4	629.1	21.33	30.497		
5,795.0	5,720.8	5,721.0	5,719.1	16.3	6.0	-107.97	-810.8	-16.4	657.5	635.7	21.79	30.174		
5,890.0	5,813.7	5,815.1	5,813.3	16.7	6.1	-109.63	-810.9	-15.3	665.0	642.7	22.25	29.883		
5,985.0	5,906.6	5,904.7	5,902.8	17.0	6.1	-111.31	-809.6	-13.2	673.2	650.5	22.70	29.663		
6,080.0	5,999.6	5,996.9	5,994.9	17.3	6.2	-113.11	-807.2	-10.2	682.4	659.3	23.14	29.485		
6,175.0	6,092.5	6,081.0	6,078.9	17.7	6.2	-114.77	-804.6	-6.6	692.9	669.3	23.57	29.399		
6,270.0	6,185.4	6,172.0	6,169.8	18.0	6.3	-116.56	-801.5	-2.2	704.5	680.4	24.01	29.337		
6,365.0	6,278.3	6,263.7	6,261.3	18.4	6.4	-118.31	-798.3	2.3	716.8	692.3	24.46	29.307	SF	
6,460.0	6,371.2	6,342.5	6,339.9	18.7	6.4	-119.74	-796.0	6.5	730.3	705.4	24.86	29.377		
6,555.0	6,464.2	6,429.5	6,426.7	19.1	6.5	-121.21	-794.8	12.1	745.8	720.6	25.29	29.493		
6,650.0	6,557.1	6,523.0	6,520.1	19.4	6.6	-122.70	-793.7	18.0	761.8	736.1	25.74	29.597		
6,745.0	6,650.0	6,603.2	6,600.1	19.8	6.6	-123.93	-792.9	23.4	778.7	752.6	26.14	29.789		
6,840.0	6,742.9	6,688.0	6,684.6	20.1	6.7	-125.17	-792.6	30.5	797.7	771.1	26.56	30.035		
6,935.0	6,835.9	6,777.0	6,773.3	20.5	6.8	-126.41	-792.4	38.1	817.2	790.2	26.99	30.279		
7,030.0	6,928.8	6,873.9	6,869.8	20.8	6.9	-127.70	-792.1	46.3	837.1	809.7	27.45	30.494		
7,125.0	7,021.7	6,963.3	6,958.9	21.2	6.9	-128.85	-791.6	53.7	857.1	829.2	27.88	30.737		
7,220.0	7,114.6	7,053.2	7,048.4	21.5	7.0	-129.96	-791.0	61.3	877.5	849.2	28.32	30.990		
7,315.0	7,207.6	7,144.4	7,139.4	21.9	7.1	-131.04	-790.4	68.9	898.3	869.5	28.75	31.240		
7,410.0	7,300.5	7,225.0	7,219.6	22.2	7.2	-131.92	-790.4	76.1	919.8	890.7	29.15	31.556		
7,505.0	7,393.4	7,312.6	7,306.8	22.6	7.3	-132.80	-791.3	84.6	942.5	912.9	29.57	31.872		
7,600.0	7,486.3	7,407.8	7,401.5	23.0	7.3	-133.70	-792.2	93.6	965.2	935.2	30.03	32.148		
7,695.0	7,579.3	7,502.7	7,496.0	23.3	7.4	-134.56	-793.1	102.3	987.8	957.4	30.48	32.411		

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 #604H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #604H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #704H - OWB - AWP														Offset Site Error:	3.0 usft
Survey Program:		100-Standard Keeper 104, 12139-MWD+IFR1+FDIR							Rule Assigned:				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)					
0.0	0.0	8.9	8.9	3.0	4.2	-170.52	-791.9	-132.3	802.9						
95.0	95.0	122.5	122.5	3.0	4.2	-170.52	-790.2	-132.0	801.4	794.1	7.24	110.669			
190.0	190.0	242.2	242.1	3.0	4.2	-170.50	-785.8	-131.5	798.0	790.8	7.24	110.193			
285.0	285.0	310.5	310.3	3.0	4.3	-170.41	-782.5	-132.1	793.8	786.5	7.27	109.245			
325.6	325.6	331.5	331.3	3.0	4.3	-170.39	-782.2	-132.4	793.3	786.1	7.27	109.059			
380.0	380.0	365.1	364.9	3.0	4.3	-170.37	-782.7	-132.8	794.2	787.0	7.28	109.095			
475.0	475.0	466.1	465.8	3.0	4.3	-170.37	-786.1	-133.4	797.5	790.2	7.30	109.242			
570.0	570.0	585.6	585.3	3.1	4.3	-170.58	-786.7	-130.6	797.5	790.2	7.33	108.783			
665.0	665.0	692.5	692.1	3.1	4.3	-170.60	-785.0	-130.0	795.9	788.5	7.37	107.991			
760.0	760.0	782.9	782.5	3.1	4.3	-170.50	-782.5	-130.9	793.5	786.1	7.42	106.986			
855.0	855.0	863.0	862.7	3.2	4.3	-170.40	-781.7	-132.2	792.8	785.4	7.47	106.198			
898.2	898.2	905.8	905.4	3.2	4.3	-170.35	-781.6	-133.0	792.8	785.3	7.49	105.871			
950.0	950.0	951.5	951.1	3.2	4.3	-170.26	-781.6	-134.2	793.1	785.5	7.52	105.518			
1,045.0	1,045.0	1,041.9	1,041.4	3.3	4.3	-170.07	-782.0	-136.9	794.0	786.4	7.57	104.905			
1,140.0	1,140.0	1,127.8	1,127.3	3.3	4.3	-169.93	-783.2	-139.1	795.7	788.1	7.62	104.378			
1,235.0	1,235.0	1,204.2	1,203.6	3.4	4.3	-169.73	-785.4	-142.3	799.1	791.4	7.68	104.069			
1,330.0	1,330.0	1,292.8	1,291.8	3.4	4.4	-169.29	-789.2	-149.2	804.4	796.7	7.74	103.902			
1,425.0	1,425.0	1,396.1	1,394.9	3.5	4.4	-168.88	-793.2	-155.8	809.2	801.4	7.82	103.482			
1,520.0	1,520.0	1,493.0	1,491.6	3.6	4.4	-168.58	-796.6	-161.0	813.5	805.6	7.90	102.989			
1,615.0	1,615.0	1,588.5	1,586.9	3.6	4.4	-168.29	-799.9	-165.8	817.7	809.7	7.98	102.429			
1,710.0	1,710.0	1,690.3	1,688.5	3.7	4.5	-167.96	-803.0	-171.3	821.6	813.5	8.08	101.745			
1,805.0	1,805.0	1,784.5	1,782.5	3.8	4.5	-167.57	-805.1	-177.4	824.9	816.7	8.17	100.999			
1,900.0	1,900.0	1,878.3	1,876.1	3.9	4.5	-167.20	-807.1	-183.4	828.3	820.0	8.26	100.229			
1,995.0	1,995.0	1,961.3	1,958.9	3.9	4.6	-166.85	-809.4	-189.2	832.3	823.9	8.36	99.581			
2,090.0	2,090.0	2,049.1	2,046.3	4.0	4.6	-37.86	-813.1	-196.1	836.8	828.3	8.48	98.635			
2,185.0	2,184.9	2,144.0	2,140.8	4.4	4.7	-37.59	-817.1	-203.6	838.9	830.1	8.77	95.637			
2,280.0	2,279.6	2,240.1	2,236.5	5.0	4.7	-37.47	-821.2	-211.2	838.5	829.4	9.10	92.167			
2,375.0	2,373.9	2,344.6	2,340.6	5.5	4.8	-37.53	-825.3	-219.6	835.4	825.9	9.44	88.529			
2,470.0	2,467.9	2,443.9	2,439.6	6.1	4.8	-37.75	-827.7	-227.3	828.3	818.6	9.77	84.755			
2,565.0	2,561.3	2,539.3	2,534.6	6.6	4.9	-38.14	-830.0	-234.7	818.8	808.7	10.11	81.013			
2,660.0	2,654.3	2,634.1	2,629.2	7.0	4.9	-38.59	-832.4	-241.9	807.3	796.9	10.36	77.915			
2,755.0	2,747.2	2,726.0	2,720.8	7.2	5.0	-39.01	-834.7	-248.8	795.7	785.1	10.55	75.413			
2,850.0	2,840.2	2,821.3	2,815.7	7.3	5.1	-39.48	-837.1	-255.7	784.1	773.3	10.74	73.002			
2,945.0	2,933.1	2,918.9	2,913.1	7.5	5.1	-39.99	-839.5	-262.4	772.4	761.4	10.95	70.550			
3,040.0	3,026.0	3,007.7	3,001.6	7.7	5.2	-40.44	-841.7	-269.0	760.8	749.7	11.17	68.116			
3,135.0	3,118.9	3,101.7	3,095.3	7.9	5.3	-40.87	-844.3	-276.7	749.8	738.4	11.41	65.696			
3,230.0	3,211.9	3,195.1	3,188.3	8.2	5.3	-41.33	-846.7	-284.2	738.6	727.0	11.67	63.296			
3,325.0	3,304.8	3,282.5	3,275.4	8.4	5.4	-41.78	-849.4	-291.3	728.0	716.1	11.94	60.987			
3,420.0	3,397.7	3,376.6	3,369.1	8.6	5.5	-42.21	-852.9	-299.6	718.1	705.8	12.22	58.744			
3,515.0	3,490.6	3,472.6	3,464.6	8.9	5.5	-42.68	-856.4	-308.0	708.2	695.6	12.52	56.555			
3,610.0	3,583.5	3,570.9	3,562.6	9.1	5.6	-43.25	-859.5	-315.7	697.6	684.8	12.83	54.392			
3,705.0	3,676.5	3,669.0	3,660.5	9.4	5.7	-43.89	-862.1	-322.4	686.6	673.5	13.14	52.273			
3,800.0	3,769.4	3,758.5	3,749.7	9.7	5.8	-44.51	-864.5	-328.5	675.7	662.2	13.45	50.235			
3,895.0	3,862.3	3,848.7	3,839.5	9.9	5.9	-45.11	-867.8	-335.3	665.8	652.1	13.78	48.328			
3,990.0	3,955.2	3,942.7	3,933.2	10.2	6.0	-45.77	-871.4	-342.1	656.1	642.0	14.11	46.495			
4,085.0	4,048.2	4,035.0	4,025.2	10.5	6.0	-46.43	-874.8	-348.8	646.5	632.1	14.45	44.734			
4,180.0	4,141.1	4,122.5	4,112.3	10.8	6.1	-46.97	-878.9	-356.5	637.9	623.1	14.80	43.091			
4,275.0	4,234.0	4,216.0	4,205.4	11.1	6.2	-47.54	-883.4	-365.0	629.7	614.5	15.17	41.522			
4,370.0	4,326.9	4,308.8	4,297.6	11.4	6.3	-48.11	-888.2	-373.4	621.7	606.2	15.53	40.031			
4,465.0	4,419.9	4,396.4	4,384.7	11.7	6.4	-48.70	-893.3	-381.1	614.5	598.6	15.90	38.647			
4,560.0	4,512.8	4,486.8	4,474.6	12.0	6.4	-49.37	-899.3	-388.5	608.1	591.9	16.28	37.365			
4,655.0	4,605.7	4,580.3	4,567.6	12.3	6.5	-50.14	-906.1	-395.5	602.4	585.7	16.65	36.171			

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ConocoPhillips

Anticollision Report

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Reference Well:	BANDANA FEDERAL COM #604H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FED PROJECT - GREEN EYESHAD FEDERAL COM #704H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12139-MWD+IFR1+FDIR								Rule Assigned:				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,750.0	4,698.6	4,685.9	4,672.8	12.7	6.6	-51.18	-912.7	-401.8	595.7	578.7	17.03	34.977	
4,845.0	4,791.6	4,790.7	4,777.4	13.0	6.7	-52.45	-917.8	-405.8	588.0	570.6	17.40	33.790	
4,940.0	4,884.5	4,887.5	4,874.1	13.3	6.8	-53.73	-921.1	-408.9	579.2	561.4	17.77	32.603	
5,035.0	4,977.4	4,986.2	4,972.7	13.6	6.9	-55.11	-924.2	-411.7	570.4	552.2	18.13	31.459	
5,130.0	5,070.3	5,089.8	5,076.2	14.0	7.0	-56.52	-925.2	-415.7	559.8	541.3	18.48	30.284	
5,225.0	5,163.2	5,179.7	5,166.1	14.3	7.1	-57.88	-925.8	-418.4	549.3	530.4	18.85	29.141	
5,320.0	5,256.2	5,267.5	5,253.8	14.6	7.2	-59.39	-927.2	-419.5	540.2	520.9	19.23	28.091	
5,415.0	5,349.1	5,363.6	5,349.9	15.0	7.3	-61.17	-928.8	-420.1	531.7	512.1	19.61	27.113	
5,510.0	5,442.0	5,456.0	5,442.4	15.3	7.3	-62.91	-930.1	-420.9	523.5	503.5	20.00	26.176	
5,605.0	5,534.9	5,546.6	5,532.9	15.6	7.4	-64.66	-931.6	-421.7	516.0	495.7	20.39	25.309	
5,700.0	5,627.9	5,639.7	5,626.0	16.0	7.5	-66.50	-933.6	-422.5	509.5	488.7	20.79	24.508	
5,795.0	5,720.8	5,746.6	5,732.8	16.3	7.6	-68.65	-934.9	-423.7	502.7	481.5	21.18	23.739	
5,890.0	5,813.7	5,841.8	5,828.1	16.7	7.7	-70.57	-934.3	-426.0	494.4	472.8	21.57	22.921	
5,985.0	5,906.6	5,935.3	5,921.5	17.0	7.8	-72.50	-933.6	-428.4	486.5	464.5	21.98	22.136	
6,080.0	5,999.6	6,029.1	6,015.3	17.3	7.9	-74.53	-932.8	-430.6	479.2	456.8	22.40	21.394	
6,175.0	6,092.5	6,120.5	6,106.7	17.7	7.9	-76.54	-932.1	-432.8	472.5	449.7	22.83	20.695	
6,270.0	6,185.4	6,213.1	6,199.2	18.0	8.0	-78.61	-931.8	-435.0	466.8	443.6	23.28	20.051	
6,365.0	6,278.3	6,305.6	6,291.8	18.4	8.1	-80.75	-931.4	-437.2	461.9	438.1	23.75	19.448	
6,460.0	6,371.2	6,399.7	6,385.7	18.7	8.2	-82.96	-931.0	-439.3	457.5	433.3	24.23	18.884	
6,555.0	6,464.2	6,493.4	6,479.5	19.1	8.3	-85.18	-930.6	-441.7	453.8	429.0	24.73	18.352	
6,650.0	6,557.1	6,586.7	6,572.7	19.4	8.4	-87.46	-929.9	-443.8	450.6	425.4	25.24	17.852	
6,745.0	6,650.0	6,680.4	6,666.4	19.8	8.5	-89.75	-929.4	-446.2	448.2	422.5	25.77	17.394	
6,840.0	6,742.9	6,772.2	6,758.1	20.1	8.6	-92.03	-928.9	-448.4	446.7	420.3	26.31	16.976	
6,935.0	6,835.9	6,866.4	6,852.3	20.5	8.7	-94.38	-928.3	-450.6	445.9	419.0	26.87	16.594	
6,989.0	6,888.7	6,919.2	6,905.1	20.7	8.7	-95.69	-928.0	-451.8	445.7	418.5	27.19	16.393 CC	
7,030.0	6,928.8	6,959.3	6,945.2	20.8	8.8	-96.69	-927.8	-452.8	445.8	418.4	27.43	16.251 ES	
7,125.0	7,021.7	7,051.9	7,037.8	21.2	8.9	-98.99	-927.4	-455.0	446.6	418.5	28.01	15.944	
7,220.0	7,114.6	7,145.9	7,131.8	21.5	9.0	-101.33	-926.8	-457.2	448.0	419.4	28.60	15.668	
7,315.0	7,207.6	7,239.4	7,225.2	21.9	9.1	-103.63	-926.2	-459.4	450.2	421.0	29.19	15.426	
7,410.0	7,300.5	7,324.1	7,309.9	22.2	9.1	-105.78	-925.7	-460.3	454.2	424.4	29.76	15.260	
7,505.0	7,393.4	7,417.9	7,403.8	22.6	9.2	-108.16	-925.2	-460.6	459.4	429.1	30.36	15.133	
7,600.0	7,486.3	7,510.4	7,496.2	23.0	9.3	-110.45	-924.6	-461.0	465.5	434.5	30.95	15.040	
7,695.0	7,579.3	7,604.3	7,590.1	23.3	9.3	-112.71	-924.0	-461.4	472.3	440.7	31.54	14.976	
7,790.0	7,672.2	7,696.2	7,682.0	23.7	9.4	-114.85	-923.5	-461.7	479.8	447.7	32.11	14.945	
7,885.0	7,765.1	7,789.1	7,774.9	24.0	9.4	-116.96	-923.0	-462.0	488.0	455.4	32.67	14.939	
7,980.0	7,858.0	7,882.6	7,868.4	24.4	9.5	-119.00	-922.5	-462.5	496.9	463.7	33.23	14.952	
8,075.0	7,950.9	7,975.9	7,961.7	24.8	9.6	-120.98	-921.9	-462.9	506.3	472.5	33.78	14.989	
8,170.0	8,043.9	8,069.5	8,055.3	25.1	9.7	-122.87	-921.4	-463.4	516.3	481.9	34.32	15.042	
8,265.0	8,136.8	8,162.6	8,148.4	25.5	9.8	-124.67	-921.0	-464.1	526.6	491.7	34.86	15.107	
8,360.0	8,229.7	8,258.2	8,244.0	25.8	9.9	-126.44	-920.6	-464.9	537.4	502.0	35.40	15.181	
8,455.0	8,322.6	8,350.0	8,335.8	26.2	10.0	-128.01	-920.7	-466.2	548.2	512.3	35.91	15.266	
8,550.0	8,415.6	8,436.7	8,422.5	26.6	10.1	-129.42	-921.1	-466.8	560.2	523.8	36.36	15.405	
8,645.0	8,508.5	8,528.7	8,514.5	26.9	10.1	-130.84	-921.9	-466.8	573.2	536.4	36.79	15.582	
8,740.0	8,601.4	8,621.1	8,606.9	27.3	10.1	-132.18	-922.9	-466.8	586.6	549.4	37.21	15.766	
8,835.0	8,694.4	8,713.9	8,699.7	27.6	10.2	-133.51	-923.9	-466.6	600.5	562.9	37.62	15.961	
8,930.0	8,787.8	8,806.0	8,791.7	28.0	10.2	-134.75	-924.9	-466.4	613.0	574.9	38.04	16.113	
9,025.0	8,881.7	8,897.8	8,883.6	28.4	10.2	-135.70	-926.1	-465.8	623.8	585.3	38.46	16.218	
9,120.0	8,976.1	8,992.0	8,977.7	28.8	10.3	-136.42	-927.3	-465.0	632.7	593.8	38.87	16.276	
9,215.0	9,070.7	9,086.2	9,071.9	29.2	10.3	-136.89	-928.5	-464.2	639.3	600.0	39.27	16.280	
9,310.0	9,165.6	9,179.8	9,165.5	29.6	10.3	-137.14	-929.7	-463.5	643.7	604.0	39.64	16.238	
9,405.0	9,260.6	9,275.1	9,260.8	29.9	10.3	-137.17	-930.9	-462.5	646.0	606.0	39.93	16.176	
9,500.0	9,355.6	9,369.7	9,355.4	30.2	10.3	94.33	-932.0	-461.5	647.0	606.8	40.19	16.096	

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 #604H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #604H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: GREEN EYESHAD FEED PROJECT - GREEN EYESHAD FEDERAL COM #704H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12139-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,595.0	9,450.6	9,463.0	9,448.7	30.4	10.3	94.40	-932.8	-460.5	648.1	607.7	40.45	16.023	
9,690.0	9,545.6	9,557.9	9,543.6	30.7	10.3	94.44	-933.4	-459.2	649.5	608.8	40.70	15.956	
9,785.0	9,640.6	9,654.8	9,640.4	31.0	10.3	94.46	-933.7	-457.8	650.8	609.9	40.96	15.888	
9,880.0	9,735.6	9,751.3	9,736.9	31.3	10.3	94.45	-933.7	-456.9	651.7	610.5	41.23	15.808	
9,975.0	9,830.6	9,847.5	9,833.2	31.5	10.3	94.47	-933.9	-456.2	652.4	610.9	41.50	15.723	
10,070.0	9,925.6	9,944.3	9,929.9	31.8	10.3	94.51	-934.4	-455.8	652.8	611.1	41.78	15.624	
10,165.0	10,020.6	10,041.3	10,026.9	32.1	10.3	94.57	-935.2	-455.6	653.0	610.9	42.10	15.513	
10,260.0	10,115.6	10,136.6	10,122.2	32.4	10.4	94.64	-936.0	-455.5	653.2	610.8	42.41	15.402	
10,355.0	10,210.6	10,232.5	10,218.2	32.7	10.5	94.72	-936.9	-455.6	653.2	610.5	42.74	15.284	
10,450.0	10,305.6	10,329.4	10,315.1	32.9	10.6	94.80	-937.8	-455.9	653.0	609.9	43.09	15.155	
10,545.0	10,400.6	10,426.9	10,412.6	33.2	10.7	94.89	-938.7	-456.6	652.3	608.9	43.46	15.009	
10,640.0	10,495.6	10,523.1	10,508.7	33.5	10.8	94.98	-939.7	-457.5	651.6	607.7	43.83	14.865	
10,735.0	10,590.6	10,615.4	10,601.1	33.8	10.9	95.08	-940.7	-458.5	650.7	606.5	44.18	14.728	
10,768.6	10,624.2	10,645.9	10,631.5	33.9	10.9	95.11	-941.1	-458.6	650.6	606.3	44.29	14.690	
10,830.0	10,685.6	10,704.6	10,690.2	34.1	10.9	95.15	-941.6	-458.4	650.8	606.3	44.48	14.631	
10,925.0	10,780.6	10,799.6	10,785.2	34.4	11.0	95.20	-942.1	-458.1	651.1	606.4	44.78	14.539	
11,020.0	10,875.6	10,893.0	10,878.6	34.7	11.0	95.26	-942.9	-457.7	651.7	606.6	45.08	14.456	
11,115.0	10,970.6	10,986.0	10,971.6	35.0	11.0	95.28	-943.2	-457.0	652.4	607.0	45.36	14.383	
11,210.0	11,065.6	11,080.8	11,066.4	35.2	11.0	95.24	-942.8	-456.2	653.2	607.6	45.65	14.308	
11,305.0	11,160.6	11,179.1	11,164.6	35.5	11.0	95.13	-941.6	-455.5	653.8	607.8	45.98	14.217	
11,400.0	11,255.6	11,277.0	11,262.6	35.8	11.0	94.97	-939.8	-455.0	654.1	607.7	46.33	14.117	
11,495.0	11,350.6	11,379.2	11,364.7	36.1	11.1	94.86	-938.4	-455.5	653.5	606.8	46.73	13.984	
11,590.0	11,445.6	11,474.0	11,459.6	36.4	11.1	94.84	-938.2	-456.4	652.5	605.4	47.13	13.846	
11,678.9	11,534.5	11,556.2	11,541.7	36.7	11.2	94.92	-939.1	-457.0	652.0	604.5	47.45	13.741	
11,685.0	11,540.6	11,561.9	11,547.5	36.7	11.2	94.93	-939.2	-457.0	652.0	604.5	47.47	13.735	
11,780.0	11,635.6	11,655.8	11,641.3	37.0	11.3	95.12	-941.2	-457.1	652.1	604.3	47.80	13.642	
11,875.0	11,730.6	11,752.3	11,737.8	37.3	11.4	95.33	-943.7	-457.8	651.6	603.5	48.15	13.532	
11,970.0	11,825.6	11,853.1	11,838.6	37.6	11.5	95.59	-946.5	-458.6	651.1	602.6	48.52	13.418	
12,065.0	11,920.6	11,953.1	11,938.5	37.9	11.6	95.83	-949.1	-460.1	649.9	601.0	48.91	13.289	
12,160.0	12,015.6	12,051.8	12,037.1	38.2	11.7	96.02	-951.0	-462.3	648.1	598.8	49.30	13.145	
12,255.1	12,110.7	12,143.7	12,129.0	38.5	11.8	96.18	-952.7	-464.5	645.9	596.2	49.67	13.005	
12,350.0	12,205.0	12,239.8	12,225.1	38.5	11.9	-84.32	-954.8	-466.5	643.1	593.3	49.79	12.918	
12,445.0	12,295.6	12,332.6	12,317.8	38.6	11.9	-87.06	-957.1	-468.8	638.8	588.8	49.93	12.795	
12,540.0	12,379.0	12,420.3	12,405.4	38.6	11.9	-91.09	-958.9	-471.1	635.2	585.0	50.14	12.667	
12,582.3	12,412.9	12,456.5	12,441.7	38.6	11.9	-93.08	-959.4	-472.3	634.6	584.4	50.26	12.627	
12,635.0	12,451.7	12,502.3	12,487.2	38.7	11.9	-95.92	-956.7	-474.3	635.6	585.2	50.44	12.602 SF	
12,730.0	12,511.1	12,529.0	12,513.1	38.8	11.9	-96.76	-950.5	-476.1	646.4	595.9	50.48	12.806	
12,825.0	12,554.6	12,535.6	12,519.4	38.9	11.9	-94.15	-948.4	-476.5	672.0	621.5	50.53	13.300	
12,920.0	12,580.6	12,534.0	12,517.8	39.0	11.9	-88.93	-949.0	-476.4	710.6	660.0	50.57	14.053	
13,015.0	12,588.0	12,515.0	12,499.6	39.1	11.9	-80.63	-954.1	-475.2	759.1	708.5	50.57	15.012	
13,110.0	12,585.7	12,515.0	12,499.6	39.3	11.9	-80.50	-954.1	-475.2	814.2	763.7	50.46	16.135	
13,205.0	12,583.4	12,515.0	12,499.6	39.5	11.9	-80.50	-954.1	-475.2	876.2	825.8	50.34	17.406	
13,300.0	12,581.2	12,515.0	12,499.6	39.6	11.9	-80.50	-954.1	-475.2	943.7	893.4	50.21	18.795	

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 #604H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #604H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: PITCHBLEND 24-25 FEDERAL PROJECT - PITCHBLEND 24-25 FED 606H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,760.0	12,425.0	12,208.9	12,187.2	70.8	44.1	-73.96	-8,798.3	-371.7	985.5	884.1	101.47	9.713		
19,855.0	12,422.7	12,225.0	12,202.5	71.4	44.2	-75.19	-8,803.2	-371.7	920.9	817.0	103.82	8.869		
19,950.0	12,420.4	12,232.7	12,209.8	72.0	44.2	-75.78	-8,805.8	-371.7	861.4	755.1	106.32	8.101		
20,045.0	12,418.1	12,250.0	12,226.0	72.6	44.2	-77.09	-8,811.9	-371.6	808.2	699.2	109.04	7.412		
20,140.0	12,415.8	12,266.8	12,241.5	73.2	44.3	-78.37	-8,818.4	-371.5	762.5	650.7	111.78	6.821		
20,235.0	12,413.5	12,289.9	12,262.3	73.9	44.4	-80.10	-8,828.2	-371.5	725.3	610.9	114.42	6.339		
20,298.1	12,412.0	12,308.3	12,278.6	74.3	44.4	-81.48	-8,836.8	-371.4	705.8	589.8	116.01	6.084	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 #604H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #604H	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		
19,475.0	12,431.9	12,450.0	12,361.5	69.0	15.0	-0.17	-8,782.1	-1,043.1	954.7	899.3	55.45	17.218		
19,570.0	12,429.6	12,450.0	12,361.5	69.6	15.0	-0.17	-8,782.1	-1,043.1	859.7	804.2	55.52	15.486		
19,665.0	12,427.3	12,450.0	12,361.5	70.2	15.0	-0.17	-8,782.1	-1,043.1	764.7	709.2	55.59	13.758		
19,760.0	12,425.0	12,450.0	12,361.5	70.8	15.0	-0.17	-8,782.1	-1,043.1	669.8	614.1	55.65	12.035		
19,855.0	12,422.7	12,450.0	12,361.5	71.4	15.0	-0.17	-8,782.1	-1,043.1	574.8	519.1	55.72	10.317		
19,950.0	12,420.4	12,450.0	12,361.5	72.0	15.0	-0.17	-8,782.1	-1,043.1	479.9	424.1	55.78	8.603		
20,045.0	12,418.1	12,450.0	12,361.5	72.6	15.0	-0.17	-8,782.1	-1,043.1	385.0	329.1	55.84	6.894		
20,140.0	12,415.8	12,450.0	12,361.5	73.2	15.0	-0.17	-8,782.1	-1,043.1	290.1	234.2	55.90	5.190		
20,235.0	12,413.5	12,457.5	12,369.0	73.9	15.0	-0.30	-8,782.7	-1,043.1	195.2	139.2	55.99	3.486		
20,298.1	12,412.0	12,460.2	12,371.7	74.3	15.0	-0.40	-8,782.9	-1,043.1	132.2	76.1	56.04	2.358 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 #604H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Reference Site:	BANDANA FEDERAL PROJECT	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	BANDANA FEDERAL COM #604H	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' @ 3424.6usft (TBD)

Offset Depths are relative to Offset Datum

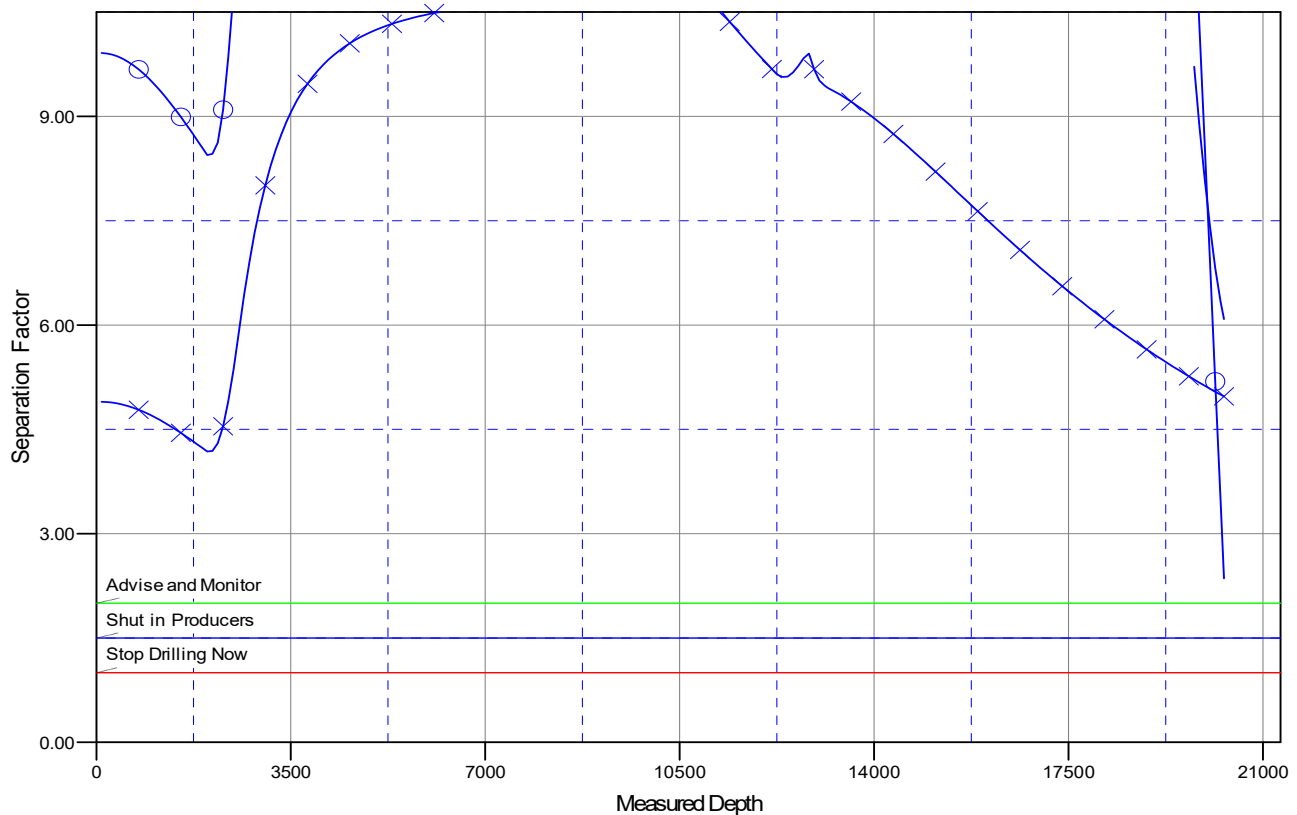
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: BANDANA FEDERAL COM #604H

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 #703H, OWB, PWP0 V0
 × BANDANA FEDERAL COM #704H, 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 60H, OWB, PWP1 V0
 ● PITCHBLEND 24-25 FED 70H, 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 #604H**

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 #604H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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

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

Well	BANDANA FEDERAL COM #604H					
Well Position	+N/-S	-1,889.8 usft	Northing:	418,372.30 usft	Latitude:	32° 8' 49.118 N
	+E/-W	-3,820.0 usft	Easting:	780,494.90 usft	Longitude:	103° 25' 37.428 W
Position Uncertainty		3.0 usft	Wellhead Elevation:		Ground Level:	3,394.6 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	1/1/2023	6.28	59.74	47,469.40688176

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	186.88

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	12,255.1 PWP0 (OWB)	MWD+IFR1+MS	
			OWSG MWD + IFR1 + Multi-St	
3	12,255.1	20,298.1 PWP0 (OWB)	MWD+IFR1+MS	
			OWSG MWD + IFR1 + Multi-St	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #604H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,600.1	12.00	231.41	2,595.7	-39.1	-48.9	2.00	2.00	0.00	231.41	
8,806.3	12.00	231.41	8,666.3	-844.0	-1,057.7	0.00	0.00	0.00	0.00	
9,406.4	0.00	0.00	9,262.0	-883.1	-1,106.6	2.00	-2.00	0.00	180.00	
12,255.1	0.00	0.00	12,110.7	-883.1	-1,106.6	0.00	0.00	0.00	0.00	
13,016.6	91.39	179.54	12,588.0	-1,372.1	-1,102.7	12.00	12.00	23.58	179.54	
20,248.1	91.39	179.54	12,413.2	-8,601.2	-1,044.6	0.00	0.00	0.00	0.00	
20,298.1	91.39	179.54	12,412.0	-8,651.2	-1,044.2	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #604H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #604H	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	231.41	2,100.0	-1.1	-1.4	1.2	2.00	2.00	0.00
2,200.0	4.00	231.41	2,199.8	-4.4	-5.5	5.0	2.00	2.00	0.00
2,300.0	6.00	231.41	2,299.5	-9.8	-12.3	11.2	2.00	2.00	0.00
2,400.0	8.00	231.41	2,398.7	-17.4	-21.8	19.9	2.00	2.00	0.00
2,500.0	10.00	231.41	2,497.5	-27.1	-34.0	31.0	2.00	2.00	0.00
2,600.1	12.00	231.41	2,595.7	-39.1	-48.9	44.6	2.00	2.00	0.00
Start 6206.2 hold at 2600.1 MD									
2,700.0	12.00	231.41	2,693.4	-52.0	-65.2	59.5	0.00	0.00	0.00
2,800.0	12.00	231.41	2,791.3	-65.0	-81.4	74.3	0.00	0.00	0.00
2,900.0	12.00	231.41	2,889.1	-78.0	-97.7	89.1	0.00	0.00	0.00
3,000.0	12.00	231.41	2,986.9	-90.9	-113.9	103.9	0.00	0.00	0.00
3,100.0	12.00	231.41	3,084.7	-103.9	-130.2	118.8	0.00	0.00	0.00
3,200.0	12.00	231.41	3,182.5	-116.9	-146.5	133.6	0.00	0.00	0.00
3,300.0	12.00	231.41	3,280.3	-129.8	-162.7	148.4	0.00	0.00	0.00
3,400.0	12.00	231.41	3,378.1	-142.8	-179.0	163.2	0.00	0.00	0.00
3,500.0	12.00	231.41	3,476.0	-155.8	-195.2	178.1	0.00	0.00	0.00
3,600.0	12.00	231.41	3,573.8	-168.8	-211.5	192.9	0.00	0.00	0.00
3,700.0	12.00	231.41	3,671.6	-181.7	-227.7	207.7	0.00	0.00	0.00
3,800.0	12.00	231.41	3,769.4	-194.7	-244.0	222.5	0.00	0.00	0.00
3,900.0	12.00	231.41	3,867.2	-207.7	-260.2	237.4	0.00	0.00	0.00
4,000.0	12.00	231.41	3,965.0	-220.6	-276.5	252.2	0.00	0.00	0.00
4,100.0	12.00	231.41	4,062.8	-233.6	-292.7	267.0	0.00	0.00	0.00
4,200.0	12.00	231.41	4,160.6	-246.6	-309.0	281.8	0.00	0.00	0.00
4,300.0	12.00	231.41	4,258.5	-259.5	-325.2	296.6	0.00	0.00	0.00
4,400.0	12.00	231.41	4,356.3	-272.5	-341.5	311.5	0.00	0.00	0.00
4,500.0	12.00	231.41	4,454.1	-285.5	-357.7	326.3	0.00	0.00	0.00
4,600.0	12.00	231.41	4,551.9	-298.5	-374.0	341.1	0.00	0.00	0.00
4,700.0	12.00	231.41	4,649.7	-311.4	-390.2	355.9	0.00	0.00	0.00
4,800.0	12.00	231.41	4,747.5	-324.4	-406.5	370.8	0.00	0.00	0.00
4,900.0	12.00	231.41	4,845.3	-337.4	-422.8	385.6	0.00	0.00	0.00
5,000.0	12.00	231.41	4,943.2	-350.3	-439.0	400.4	0.00	0.00	0.00
5,100.0	12.00	231.41	5,041.0	-363.3	-455.3	415.2	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #604H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,200.0	12.00	231.41	5,138.8	-376.3	-471.5	430.1	0.00	0.00	0.00	
5,300.0	12.00	231.41	5,236.6	-389.3	-487.8	444.9	0.00	0.00	0.00	
5,400.0	12.00	231.41	5,334.4	-402.2	-504.0	459.7	0.00	0.00	0.00	
5,500.0	12.00	231.41	5,432.2	-415.2	-520.3	474.5	0.00	0.00	0.00	
5,600.0	12.00	231.41	5,530.0	-428.2	-536.5	489.4	0.00	0.00	0.00	
5,700.0	12.00	231.41	5,627.9	-441.1	-552.8	504.2	0.00	0.00	0.00	
5,800.0	12.00	231.41	5,725.7	-454.1	-569.0	519.0	0.00	0.00	0.00	
5,900.0	12.00	231.41	5,823.5	-467.1	-585.3	533.8	0.00	0.00	0.00	
6,000.0	12.00	231.41	5,921.3	-480.0	-601.5	548.7	0.00	0.00	0.00	
6,100.0	12.00	231.41	6,019.1	-493.0	-617.8	563.5	0.00	0.00	0.00	
6,200.0	12.00	231.41	6,116.9	-506.0	-634.0	578.3	0.00	0.00	0.00	
6,300.0	12.00	231.41	6,214.7	-519.0	-650.3	593.1	0.00	0.00	0.00	
6,400.0	12.00	231.41	6,312.6	-531.9	-666.6	608.0	0.00	0.00	0.00	
6,500.0	12.00	231.41	6,410.4	-544.9	-682.8	622.8	0.00	0.00	0.00	
6,600.0	12.00	231.41	6,508.2	-557.9	-699.1	637.6	0.00	0.00	0.00	
6,700.0	12.00	231.41	6,606.0	-570.8	-715.3	652.4	0.00	0.00	0.00	
6,800.0	12.00	231.41	6,703.8	-583.8	-731.6	667.3	0.00	0.00	0.00	
6,900.0	12.00	231.41	6,801.6	-596.8	-747.8	682.1	0.00	0.00	0.00	
7,000.0	12.00	231.41	6,899.4	-609.8	-764.1	696.9	0.00	0.00	0.00	
7,100.0	12.00	231.41	6,997.3	-622.7	-780.3	711.7	0.00	0.00	0.00	
7,200.0	12.00	231.41	7,095.1	-635.7	-796.6	726.6	0.00	0.00	0.00	
7,300.0	12.00	231.41	7,192.9	-648.7	-812.8	741.4	0.00	0.00	0.00	
7,400.0	12.00	231.41	7,290.7	-661.6	-829.1	756.2	0.00	0.00	0.00	
7,500.0	12.00	231.41	7,388.5	-674.6	-845.3	771.0	0.00	0.00	0.00	
7,600.0	12.00	231.41	7,486.3	-687.6	-861.6	785.9	0.00	0.00	0.00	
7,700.0	12.00	231.41	7,584.1	-700.5	-877.8	800.7	0.00	0.00	0.00	
7,800.0	12.00	231.41	7,682.0	-713.5	-894.1	815.5	0.00	0.00	0.00	
7,900.0	12.00	231.41	7,779.8	-726.5	-910.3	830.3	0.00	0.00	0.00	
8,000.0	12.00	231.41	7,877.6	-739.5	-926.6	845.2	0.00	0.00	0.00	
8,100.0	12.00	231.41	7,975.4	-752.4	-942.9	860.0	0.00	0.00	0.00	
8,200.0	12.00	231.41	8,073.2	-765.4	-959.1	874.8	0.00	0.00	0.00	
8,300.0	12.00	231.41	8,171.0	-778.4	-975.4	889.6	0.00	0.00	0.00	
8,400.0	12.00	231.41	8,268.8	-791.3	-991.6	904.5	0.00	0.00	0.00	
8,500.0	12.00	231.41	8,366.7	-804.3	-1,007.9	919.3	0.00	0.00	0.00	
8,600.0	12.00	231.41	8,464.5	-817.3	-1,024.1	934.1	0.00	0.00	0.00	
8,700.0	12.00	231.41	8,562.3	-830.2	-1,040.4	948.9	0.00	0.00	0.00	
8,806.3	12.00	231.41	8,666.3	-844.0	-1,057.7	964.7	0.00	0.00	0.00	
Start Drop -2.00										
8,900.0	10.13	231.41	8,758.2	-855.3	-1,071.7	977.5	2.00	-2.00	0.00	
9,000.0	8.13	231.41	8,856.9	-865.1	-1,084.1	988.8	2.00	-2.00	0.00	
9,100.0	6.13	231.41	8,956.2	-872.9	-1,093.8	997.7	2.00	-2.00	0.00	
9,200.0	4.13	231.41	9,055.8	-878.5	-1,100.8	1,004.0	2.00	-2.00	0.00	
9,300.0	2.13	231.41	9,155.6	-881.9	-1,105.1	1,007.9	2.00	-2.00	0.00	
9,406.4	0.00	0.00	9,262.0	-883.1	-1,106.6	1,009.3	2.00	-2.00	0.00	
Start 2848.7 hold at 9406.4 MD										
9,500.0	0.00	0.00	9,355.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,455.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,555.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,655.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,755.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,855.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00	
10,100.0	0.00	0.00	9,955.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,055.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,155.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #604H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,400.0	0.00	0.00	10,255.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00
10,500.0	0.00	0.00	10,355.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00
10,600.0	0.00	0.00	10,455.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00
10,700.0	0.00	0.00	10,555.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00
10,800.0	0.00	0.00	10,655.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00
10,900.0	0.00	0.00	10,755.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00
11,000.0	0.00	0.00	10,855.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00
11,100.0	0.00	0.00	10,955.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00
11,200.0	0.00	0.00	11,055.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00
11,300.0	0.00	0.00	11,155.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00
11,400.0	0.00	0.00	11,255.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00
11,500.0	0.00	0.00	11,355.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00
11,600.0	0.00	0.00	11,455.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00
11,700.0	0.00	0.00	11,555.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00
11,800.0	0.00	0.00	11,655.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00
11,900.0	0.00	0.00	11,755.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00
12,000.0	0.00	0.00	11,855.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00
12,100.0	0.00	0.00	11,955.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00
12,200.0	0.00	0.00	12,055.6	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00
12,255.1	0.00	0.00	12,110.7	-883.1	-1,106.6	1,009.3	0.00	0.00	0.00
Start DLS 12.00 TFO 179.54									
12,275.0	2.39	179.54	12,130.6	-883.5	-1,106.6	1,009.8	12.00	12.00	0.00
12,300.0	5.39	179.54	12,155.5	-885.2	-1,106.6	1,011.4	12.00	12.00	0.00
12,325.0	8.39	179.54	12,180.3	-888.2	-1,106.6	1,014.4	12.00	12.00	0.00
12,350.0	11.39	179.54	12,205.0	-892.5	-1,106.5	1,018.7	12.00	12.00	0.00
12,375.0	14.39	179.54	12,229.3	-898.1	-1,106.5	1,024.2	12.00	12.00	0.00
12,400.0	17.39	179.54	12,253.4	-904.9	-1,106.4	1,031.0	12.00	12.00	0.00
12,425.0	20.39	179.54	12,277.0	-913.0	-1,106.4	1,039.0	12.00	12.00	0.00
12,450.0	23.39	179.54	12,300.2	-922.3	-1,106.3	1,048.3	12.00	12.00	0.00
12,475.0	26.39	179.54	12,322.9	-932.9	-1,106.2	1,058.7	12.00	12.00	0.00
12,500.0	29.39	179.54	12,345.0	-944.5	-1,106.1	1,070.3	12.00	12.00	0.00
12,525.0	32.39	179.54	12,366.4	-957.4	-1,106.0	1,083.0	12.00	12.00	0.00
12,550.0	35.39	179.54	12,387.2	-971.3	-1,105.9	1,096.8	12.00	12.00	0.00
12,575.0	38.39	179.54	12,407.2	-986.3	-1,105.8	1,111.7	12.00	12.00	0.00
12,600.0	41.39	179.54	12,426.4	-1,002.3	-1,105.6	1,127.6	12.00	12.00	0.00
12,625.0	44.39	179.54	12,444.7	-1,019.4	-1,105.5	1,144.5	12.00	12.00	0.00
12,650.0	47.39	179.54	12,462.1	-1,037.3	-1,105.4	1,162.3	12.00	12.00	0.00
12,675.0	50.39	179.54	12,478.5	-1,056.1	-1,105.2	1,181.0	12.00	12.00	0.00
12,700.0	53.39	179.54	12,493.9	-1,075.8	-1,105.1	1,200.5	12.00	12.00	0.00
12,725.0	56.39	179.54	12,508.3	-1,096.3	-1,104.9	1,220.8	12.00	12.00	0.00
12,750.0	59.39	179.54	12,521.6	-1,117.4	-1,104.7	1,241.8	12.00	12.00	0.00
12,775.0	62.39	179.54	12,533.8	-1,139.3	-1,104.5	1,263.4	12.00	12.00	0.00
12,800.0	65.39	179.54	12,544.8	-1,161.7	-1,104.4	1,285.7	12.00	12.00	0.00
12,825.0	68.39	179.54	12,554.6	-1,184.7	-1,104.2	1,308.5	12.00	12.00	0.00
12,850.0	71.39	179.54	12,563.2	-1,208.2	-1,104.0	1,331.8	12.00	12.00	0.00
12,875.0	74.39	179.54	12,570.5	-1,232.1	-1,103.8	1,355.5	12.00	12.00	0.00
12,900.0	77.39	179.54	12,576.6	-1,256.3	-1,103.6	1,379.5	12.00	12.00	0.00
12,925.0	80.39	179.54	12,581.4	-1,280.8	-1,103.4	1,403.8	12.00	12.00	0.00
12,950.0	83.39	179.54	12,585.0	-1,305.6	-1,103.2	1,428.4	12.00	12.00	0.00
12,975.0	86.39	179.54	12,587.2	-1,330.5	-1,103.0	1,453.1	12.00	12.00	0.00
13,000.0	89.39	179.54	12,588.1	-1,355.5	-1,102.8	1,477.8	12.00	12.00	0.00
13,016.6	91.39	179.54	12,588.0	-1,372.1	-1,102.7	1,494.3	12.00	12.00	0.00
Start 7231.5 hold at 13016.6 MD									

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #604H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,100.0	91.39	179.54	12,586.0	-1,455.4	-1,102.0	1,577.0	0.00	0.00	0.00
13,200.0	91.39	179.54	12,583.6	-1,555.4	-1,101.2	1,676.1	0.00	0.00	0.00
13,300.0	91.39	179.54	12,581.2	-1,655.4	-1,100.4	1,775.3	0.00	0.00	0.00
13,400.0	91.39	179.54	12,578.7	-1,755.3	-1,099.6	1,874.4	0.00	0.00	0.00
13,500.0	91.39	179.54	12,576.3	-1,855.3	-1,098.8	1,973.6	0.00	0.00	0.00
13,600.0	91.39	179.54	12,573.9	-1,955.3	-1,098.0	2,072.7	0.00	0.00	0.00
13,700.0	91.39	179.54	12,571.5	-2,055.2	-1,097.2	2,171.9	0.00	0.00	0.00
13,800.0	91.39	179.54	12,569.1	-2,155.2	-1,096.4	2,271.1	0.00	0.00	0.00
13,900.0	91.39	179.54	12,566.6	-2,255.2	-1,095.6	2,370.2	0.00	0.00	0.00
14,000.0	91.39	179.54	12,564.2	-2,355.1	-1,094.8	2,469.4	0.00	0.00	0.00
14,100.0	91.39	179.54	12,561.8	-2,455.1	-1,094.0	2,568.5	0.00	0.00	0.00
14,200.0	91.39	179.54	12,559.4	-2,555.1	-1,093.2	2,667.7	0.00	0.00	0.00
14,300.0	91.39	179.54	12,557.0	-2,655.0	-1,092.4	2,766.8	0.00	0.00	0.00
14,400.0	91.39	179.54	12,554.6	-2,755.0	-1,091.6	2,866.0	0.00	0.00	0.00
14,500.0	91.39	179.54	12,552.1	-2,855.0	-1,090.8	2,965.1	0.00	0.00	0.00
14,600.0	91.39	179.54	12,549.7	-2,954.9	-1,090.0	3,064.3	0.00	0.00	0.00
14,700.0	91.39	179.54	12,547.3	-3,054.9	-1,089.2	3,163.4	0.00	0.00	0.00
14,800.0	91.39	179.54	12,544.9	-3,154.9	-1,088.4	3,262.6	0.00	0.00	0.00
14,900.0	91.39	179.54	12,542.5	-3,254.8	-1,087.5	3,361.7	0.00	0.00	0.00
15,000.0	91.39	179.54	12,540.1	-3,354.8	-1,086.7	3,460.9	0.00	0.00	0.00
15,100.0	91.39	179.54	12,537.6	-3,454.8	-1,085.9	3,560.0	0.00	0.00	0.00
15,200.0	91.39	179.54	12,535.2	-3,554.7	-1,085.1	3,659.2	0.00	0.00	0.00
15,300.0	91.39	179.54	12,532.8	-3,654.7	-1,084.3	3,758.3	0.00	0.00	0.00
15,400.0	91.39	179.54	12,530.4	-3,754.7	-1,083.5	3,857.5	0.00	0.00	0.00
15,500.0	91.39	179.54	12,528.0	-3,854.6	-1,082.7	3,956.6	0.00	0.00	0.00
15,600.0	91.39	179.54	12,525.6	-3,954.6	-1,081.9	4,055.8	0.00	0.00	0.00
15,700.0	91.39	179.54	12,523.1	-4,054.6	-1,081.1	4,154.9	0.00	0.00	0.00
15,800.0	91.39	179.54	12,520.7	-4,154.6	-1,080.3	4,254.1	0.00	0.00	0.00
15,900.0	91.39	179.54	12,518.3	-4,254.5	-1,079.5	4,353.2	0.00	0.00	0.00
16,000.0	91.39	179.54	12,515.9	-4,354.5	-1,078.7	4,452.4	0.00	0.00	0.00
16,100.0	91.39	179.54	12,513.5	-4,454.5	-1,077.9	4,551.5	0.00	0.00	0.00
16,200.0	91.39	179.54	12,511.1	-4,554.4	-1,077.1	4,650.7	0.00	0.00	0.00
16,300.0	91.39	179.54	12,508.6	-4,654.4	-1,076.3	4,749.8	0.00	0.00	0.00
16,400.0	91.39	179.54	12,506.2	-4,754.4	-1,075.5	4,849.0	0.00	0.00	0.00
16,500.0	91.39	179.54	12,503.8	-4,854.3	-1,074.7	4,948.1	0.00	0.00	0.00
16,600.0	91.39	179.54	12,501.4	-4,954.3	-1,073.9	5,047.3	0.00	0.00	0.00
16,700.0	91.39	179.54	12,499.0	-5,054.3	-1,073.1	5,146.4	0.00	0.00	0.00
16,800.0	91.39	179.54	12,496.6	-5,154.2	-1,072.3	5,245.6	0.00	0.00	0.00
16,900.0	91.39	179.54	12,494.1	-5,254.2	-1,071.5	5,344.7	0.00	0.00	0.00
17,000.0	91.39	179.54	12,491.7	-5,354.2	-1,070.7	5,443.9	0.00	0.00	0.00
17,100.0	91.39	179.54	12,489.3	-5,454.1	-1,069.9	5,543.0	0.00	0.00	0.00
17,200.0	91.39	179.54	12,486.9	-5,554.1	-1,069.1	5,642.2	0.00	0.00	0.00
17,300.0	91.39	179.54	12,484.5	-5,654.1	-1,068.3	5,741.3	0.00	0.00	0.00
17,400.0	91.39	179.54	12,482.0	-5,754.0	-1,067.5	5,840.5	0.00	0.00	0.00
17,500.0	91.39	179.54	12,479.6	-5,854.0	-1,066.7	5,939.6	0.00	0.00	0.00
17,600.0	91.39	179.54	12,477.2	-5,954.0	-1,065.9	6,038.8	0.00	0.00	0.00
17,700.0	91.39	179.54	12,474.8	-6,053.9	-1,065.1	6,137.9	0.00	0.00	0.00
17,800.0	91.39	179.54	12,472.4	-6,153.9	-1,064.3	6,237.1	0.00	0.00	0.00
17,900.0	91.39	179.54	12,470.0	-6,253.9	-1,063.5	6,336.2	0.00	0.00	0.00
18,000.0	91.39	179.54	12,467.5	-6,353.8	-1,062.7	6,435.4	0.00	0.00	0.00
18,100.0	91.39	179.54	12,465.1	-6,453.8	-1,061.9	6,534.5	0.00	0.00	0.00
18,200.0	91.39	179.54	12,462.7	-6,553.8	-1,061.0	6,633.7	0.00	0.00	0.00
18,300.0	91.39	179.54	12,460.3	-6,653.7	-1,060.2	6,732.8	0.00	0.00	0.00
18,400.0	91.39	179.54	12,457.9	-6,753.7	-1,059.4	6,832.0	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well BANDANA FEDERAL COM #604H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB=30' @ 3424.6usft (TBD)
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	*KB=30' @ 3424.6usft (TBD)
Site:	BANDANA FEDERAL PROJECT	North Reference:	Grid
Well:	BANDANA FEDERAL COM #604H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

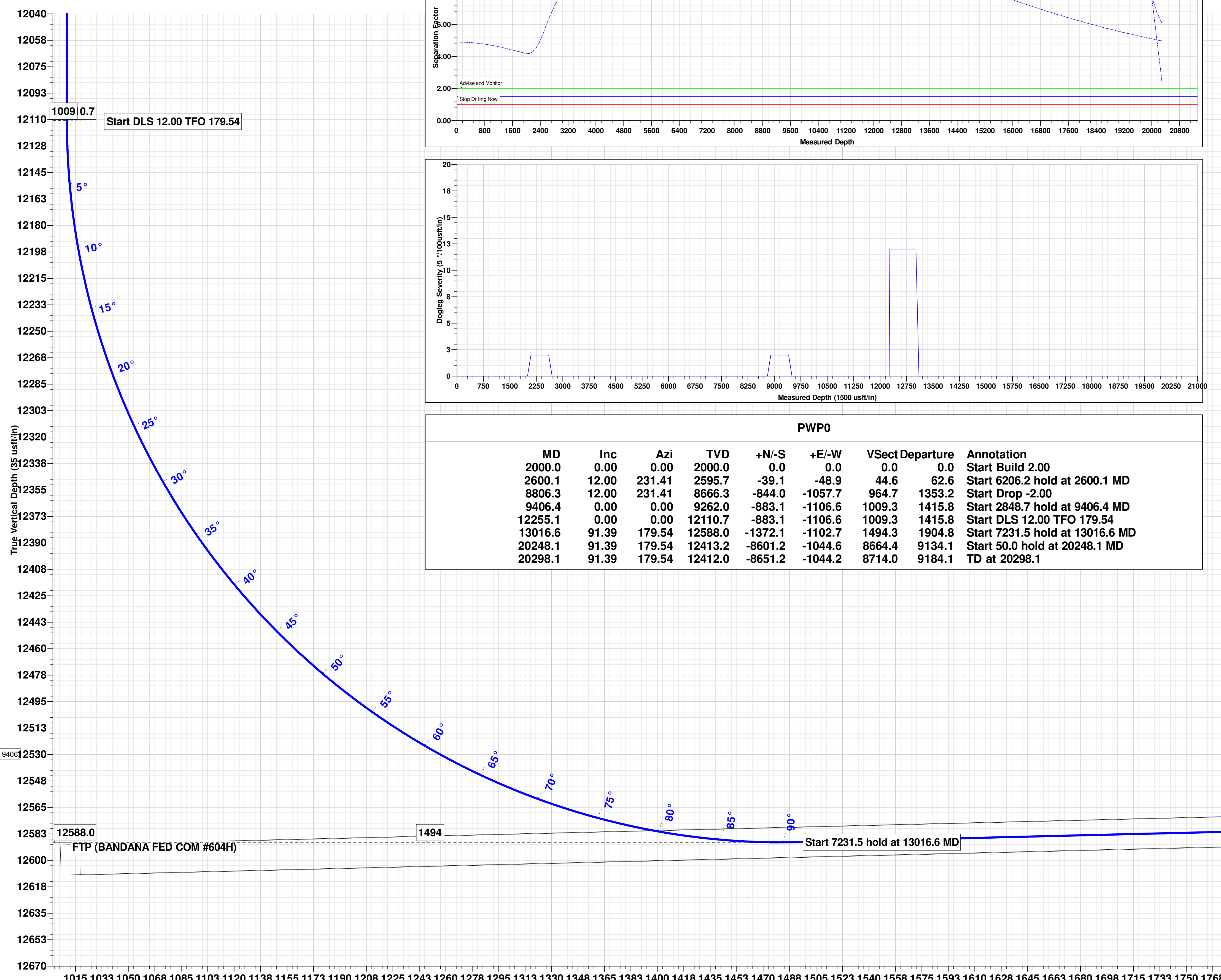
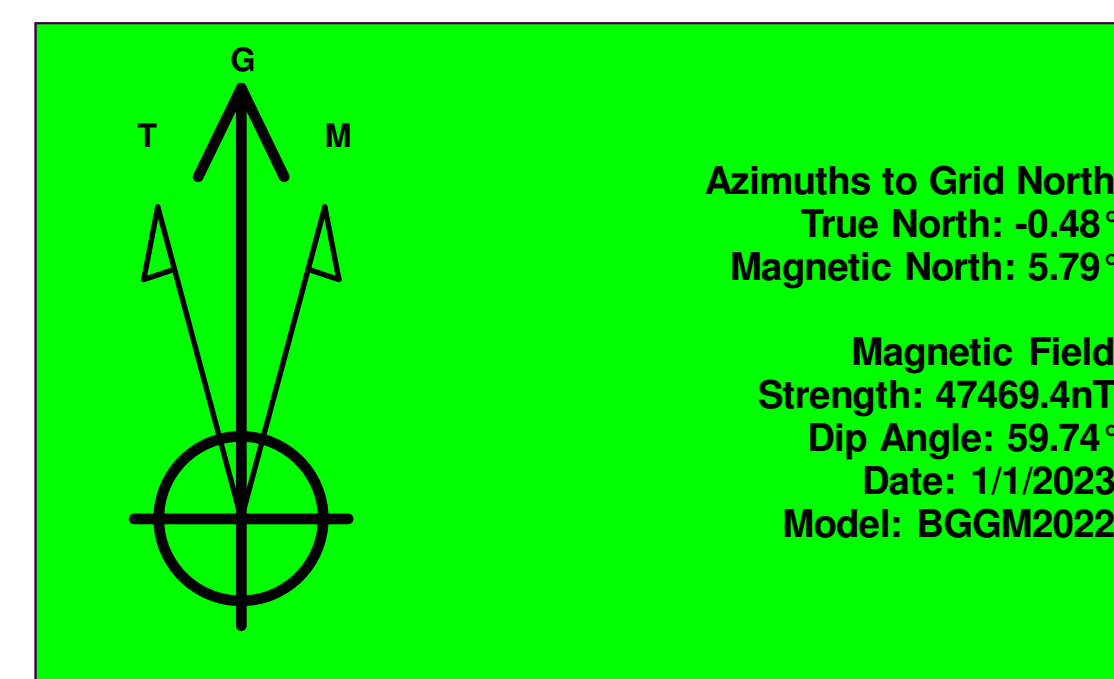
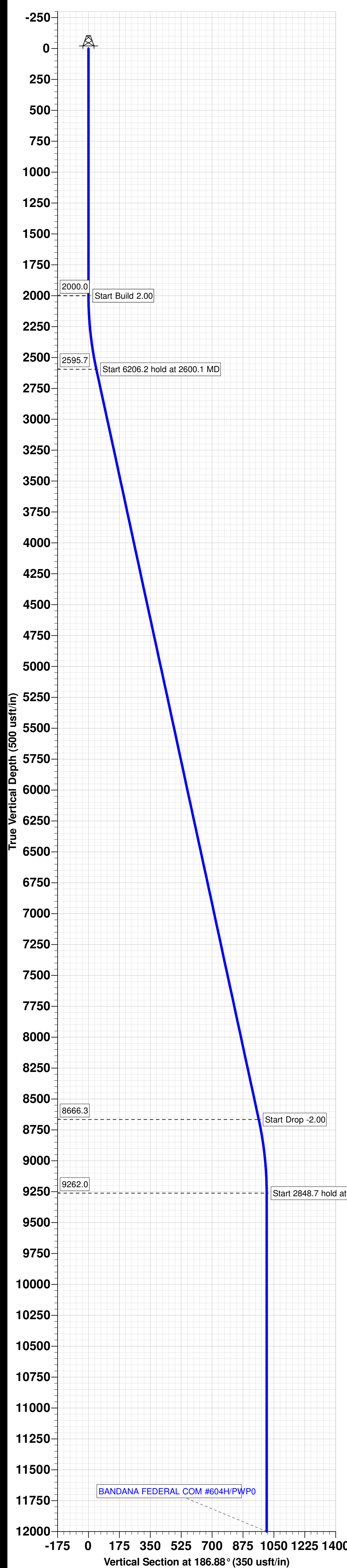
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
18,500.0	91.39	179.54	12,455.5	-6,853.7	-1,058.6	6,931.1	0.00	0.00	0.00	
18,600.0	91.39	179.54	12,453.0	-6,953.6	-1,057.8	7,030.3	0.00	0.00	0.00	
18,700.0	91.39	179.54	12,450.6	-7,053.6	-1,057.0	7,129.4	0.00	0.00	0.00	
18,800.0	91.39	179.54	12,448.2	-7,153.6	-1,056.2	7,228.6	0.00	0.00	0.00	
18,900.0	91.39	179.54	12,445.8	-7,253.5	-1,055.4	7,327.8	0.00	0.00	0.00	
19,000.0	91.39	179.54	12,443.4	-7,353.5	-1,054.6	7,426.9	0.00	0.00	0.00	
19,100.0	91.39	179.54	12,441.0	-7,453.5	-1,053.8	7,526.1	0.00	0.00	0.00	
19,200.0	91.39	179.54	12,438.5	-7,553.4	-1,053.0	7,625.2	0.00	0.00	0.00	
19,300.0	91.39	179.54	12,436.1	-7,653.4	-1,052.2	7,724.4	0.00	0.00	0.00	
19,400.0	91.39	179.54	12,433.7	-7,753.4	-1,051.4	7,823.5	0.00	0.00	0.00	
19,500.0	91.39	179.54	12,431.3	-7,853.4	-1,050.6	7,922.7	0.00	0.00	0.00	
19,600.0	91.39	179.54	12,428.9	-7,953.3	-1,049.8	8,021.8	0.00	0.00	0.00	
19,700.0	91.39	179.54	12,426.5	-8,053.3	-1,049.0	8,121.0	0.00	0.00	0.00	
19,800.0	91.39	179.54	12,424.0	-8,153.3	-1,048.2	8,220.1	0.00	0.00	0.00	
19,900.0	91.39	179.54	12,421.6	-8,253.2	-1,047.4	8,319.3	0.00	0.00	0.00	
20,000.0	91.39	179.54	12,419.2	-8,353.2	-1,046.6	8,418.4	0.00	0.00	0.00	
20,100.0	91.39	179.54	12,416.8	-8,453.2	-1,045.8	8,517.6	0.00	0.00	0.00	
20,200.0	91.39	179.54	12,414.4	-8,553.1	-1,045.0	8,616.7	0.00	0.00	0.00	
20,248.1	91.39	179.54	12,413.2	-8,601.2	-1,044.6	8,664.4	0.00	0.00	0.00	
Start 50.0 hold at 20248.1 MD										
20,298.1	91.39	179.54	12,412.0	-8,651.2	-1,044.2	8,714.0	0.00	0.00	0.00	
TD at 20298.1										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		
- hit/miss target										
- Shape								Longitude		
PBHL (BANDANA FED C	1.39	359.54	12,412.0	-8,651.2	-1,044.2	409,721.10	779,450.70	32° 7' 23.599 N		
- plan hits target center								103° 25' 50.416 W		
- Rectangle (sides W100.0 H7,768.4 D20.0)										
LTP (BANDANA FED C	0.00	0.00	12,413.2	-8,601.2	-1,044.6	409,771.10	779,450.30	32° 7' 24.093 N		
- plan hits target center								103° 25' 50.416 W		
- Point										
FTP (BANDANA FED C	0.00	0.00	12,588.0	-883.1	-1,106.6	417,489.20	779,388.30	32° 8' 40.471 N		
- plan misses target center by 197.7usft at 12626.9usft MD (12446.0 TVD, -1020.7 N, -1105.5 E)								103° 25' 50.385 W		
- Circle (radius 50.0)										

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
2,000.0	2,000.0	0.0	0.0	Start Build 2.00	
2,600.1	2,595.7	-39.1	-48.9	Start 6206.2 hold at 2600.1 MD	
8,806.3	8,666.3	-844.0	-1,057.7	Start Drop -2.00	
9,406.4	9,262.0	-883.1	-1,106.6	Start 2848.7 hold at 9406.4 MD	
12,255.1	12,110.7	-883.1	-1,106.6	Start DLS 12.00 TFO 179.54	
13,016.6	12,588.0	-1,372.1	-1,102.7	Start 7231.5 hold at 13016.6 MD	
20,248.1	12,413.2	-8,601.2	-1,044.6	Start 50.0 hold at 20248.1 MD	
20,298.1	12,412.0	-8,651.2	-1,044.2	TD at 20298.1	

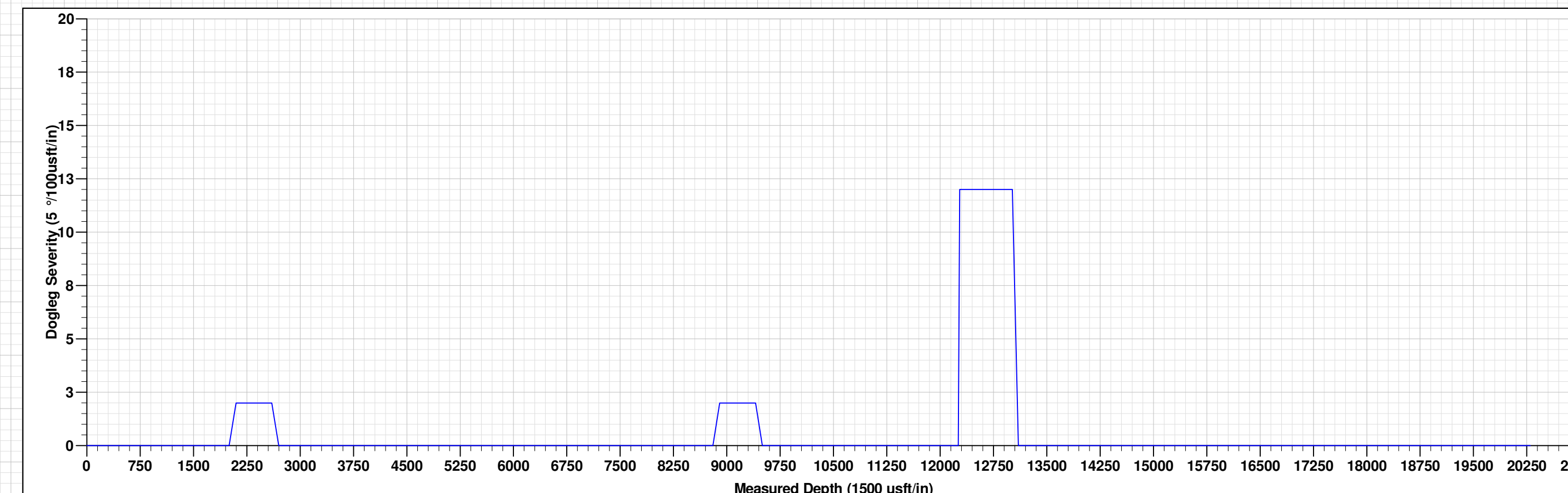
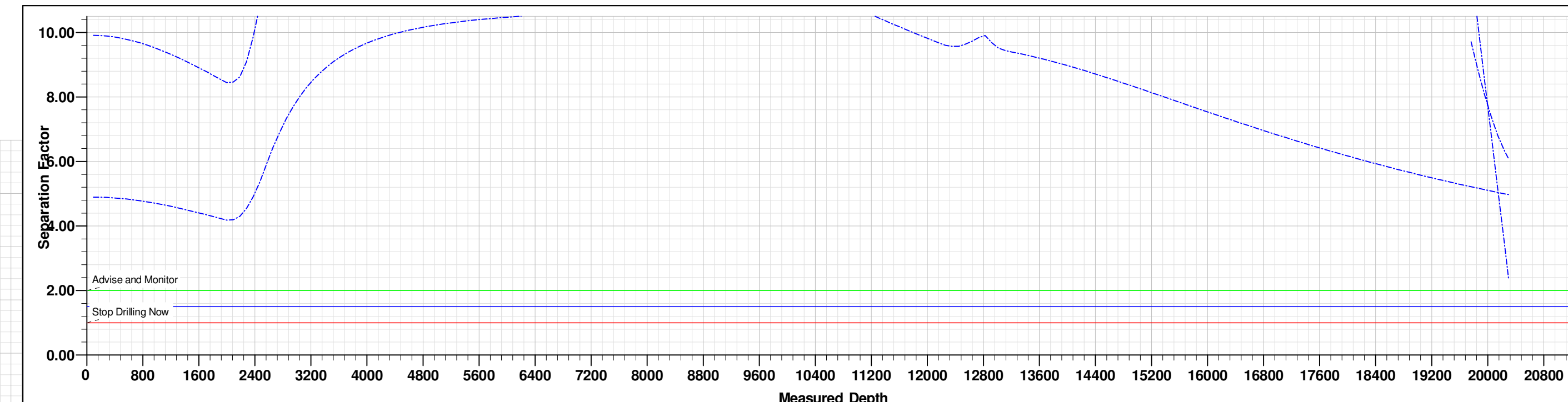


Project: BULLDOG PROSPECT (NM-E)
Site: BANDANA FEDERAL PROJECT
Well: BANDANA FEDERAL COM #604H
Wellbore: OWB
Design: PWP0
GL: 3394.6
*KB=30' @ 3424.6usft (TBD)

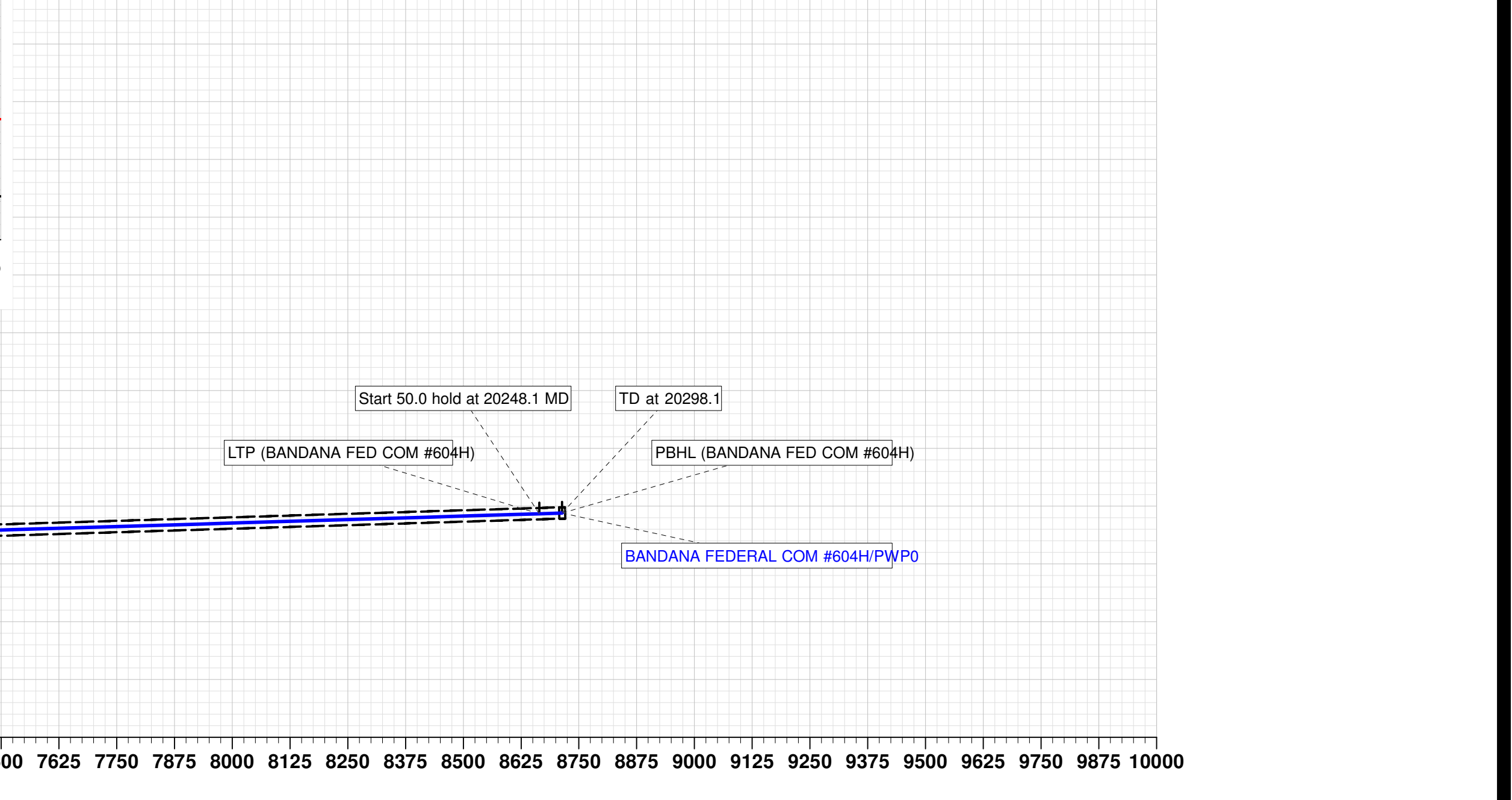
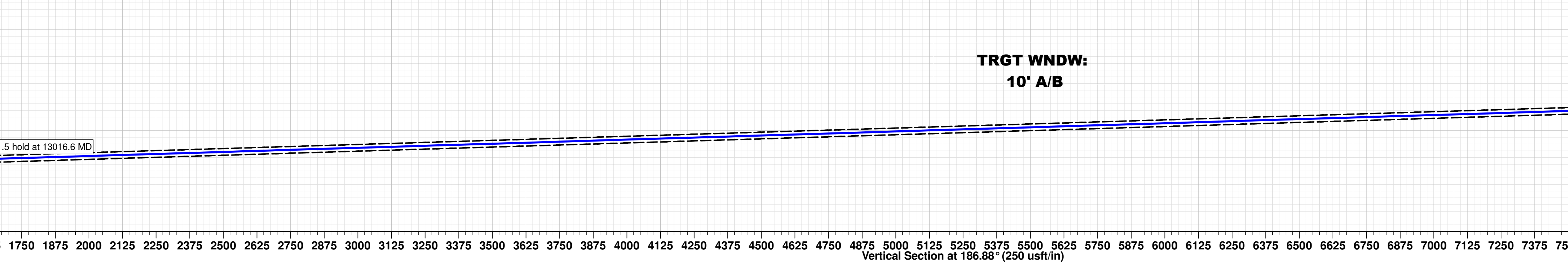
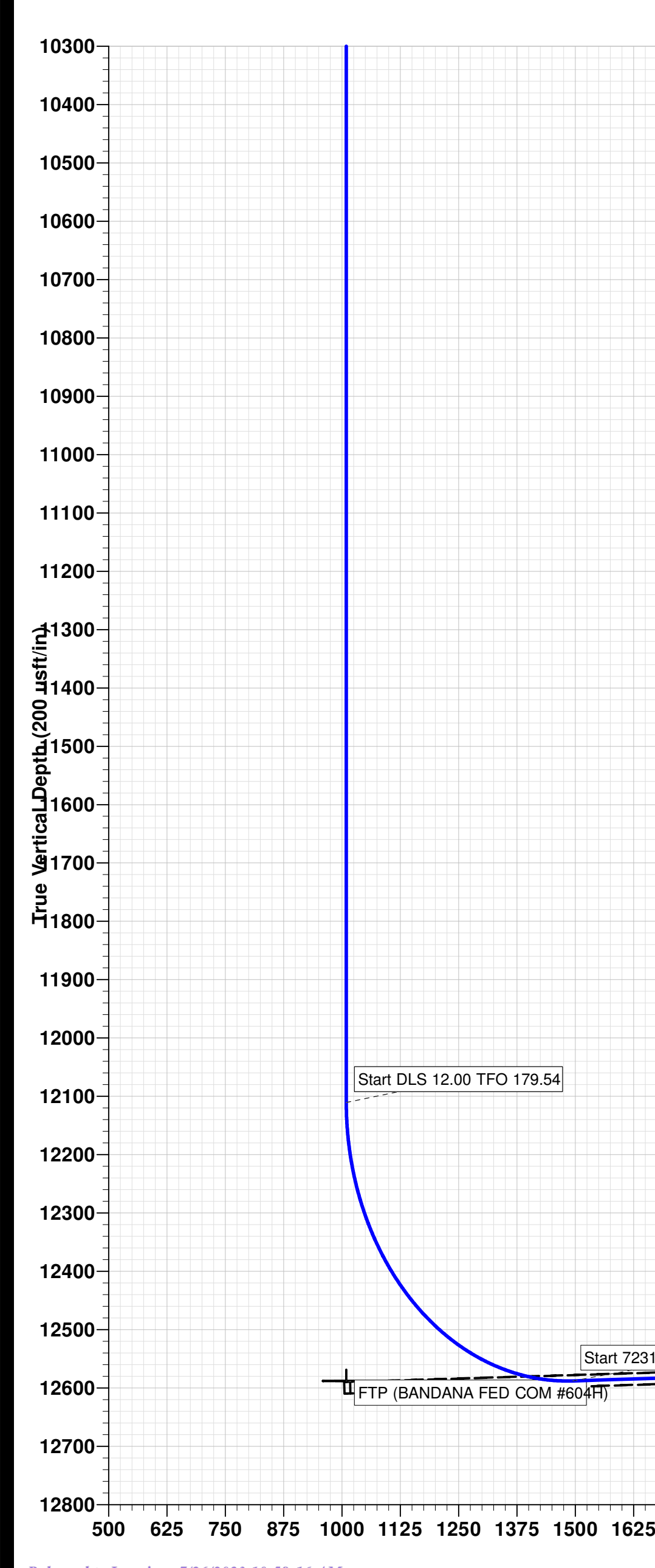
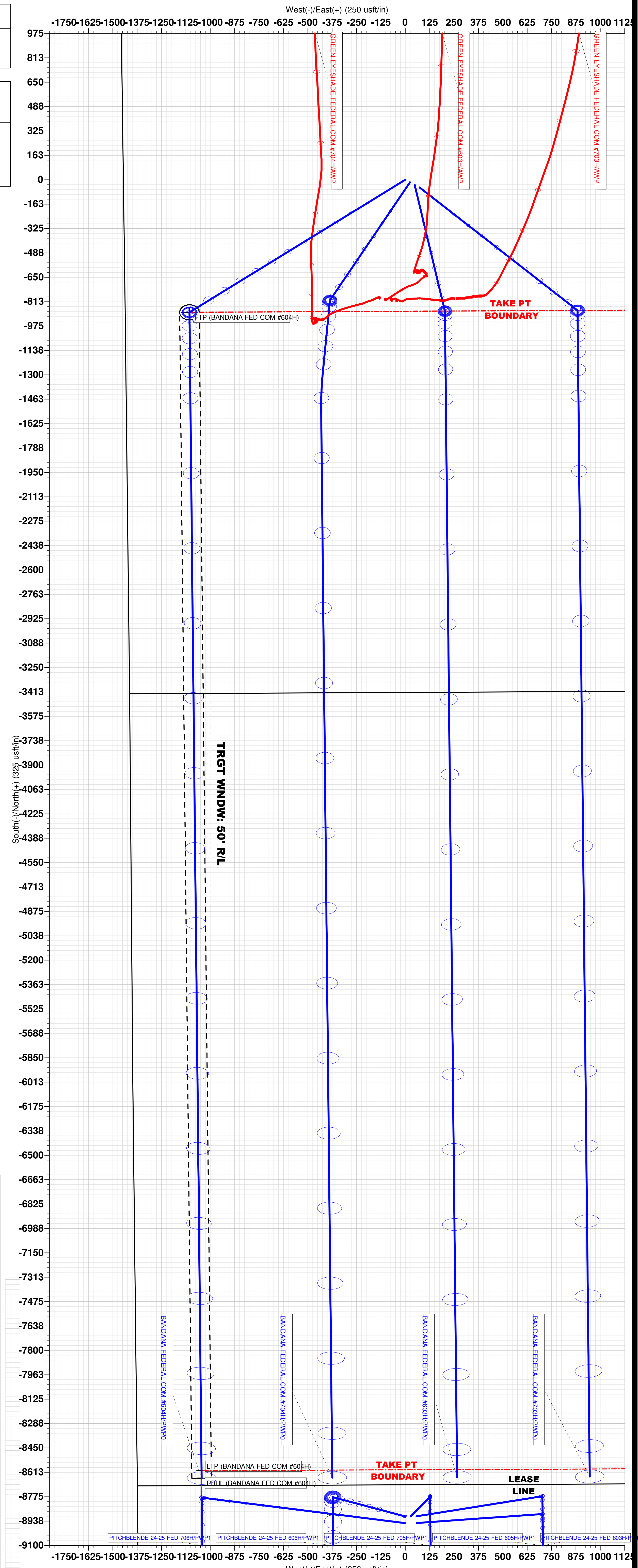
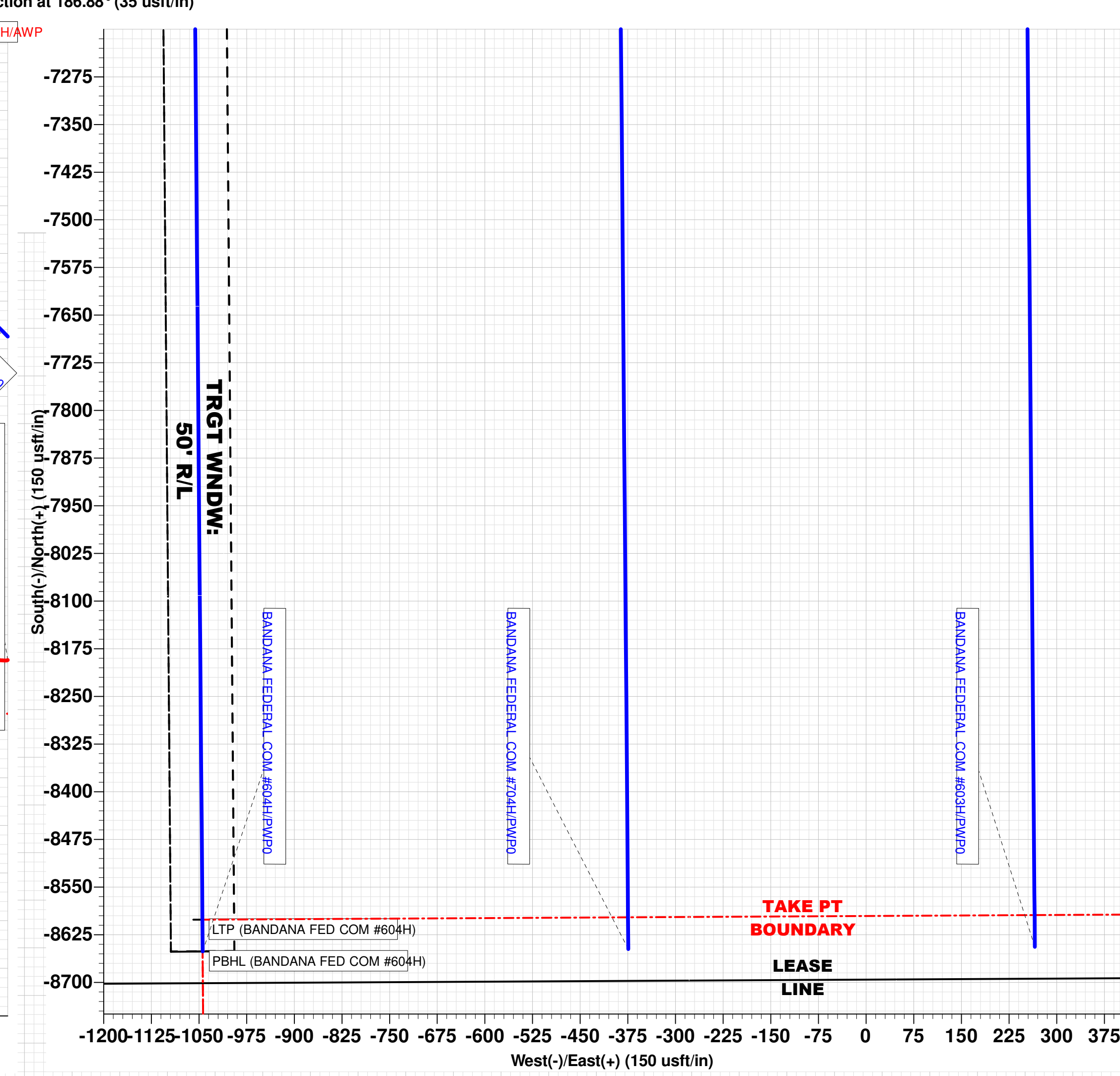
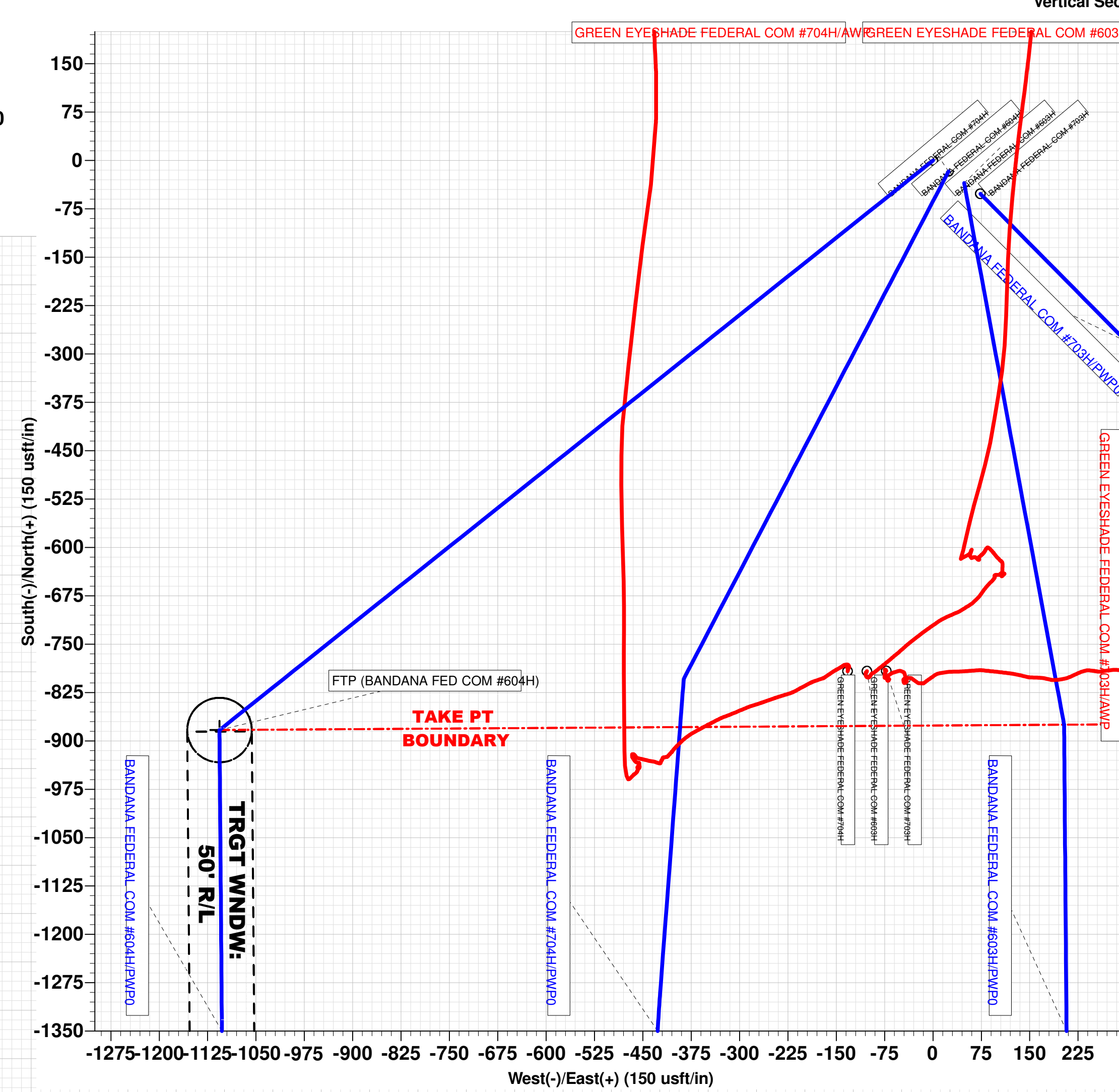


WELL DETAILS: BANDANA FEDERAL COM #604H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	418372.30	780494.90	32° 8' 49.118 N	103° 25' 37.428 W

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL (BANDANA FED COM #604H)	12412.0	-8651.2	-1044.2	409721.10	779450.70
LTP (BANDANA FED COM #604H)	12413.2	-8601.2	-1044.6	409771.10	779450.30
FTP (BANDANA FED COM #604H)	12588.0	-883.1	-1106.6	417489.20	779388.30



MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
2000.0	0.00	0.00	2000.0	0.0	0.0	0.0	0.0	Start Build 2.00
2600.1	12.00	231.41	2595.7	-39.1	-48.9	44.6	62.6	Start 6206.2 hold at 2600.1 MD
8806.3	12.00	231.41	8666.3	-844.0	-1057.7	964.7	1353.2	Start Drop -2.00
9406.4	0.00	0.00	9262.0	-883.1	-1106.6	1009.3	1415.8	Start 2848.7 hold at 9406.4 MD
12255.1	0.00	0.00	12110.7	-883.1	-1106.6	1009.3	1415.8	Start DLS 12.00 TFO 179.54
13016.6	91.39	179.54	12588.0	-1372.1	-1102.7	1494.3	1904.8	Start 7231.5 hold at 13016.6 MD
20248.1	91.39	179.54	12413.2	-8601.2	-1044.6	8664.4	9134.1	Start 50.0 hold at 20248.1 MD
20298.1	91.39	179.54	12412.0	-8651.2	-1044.2	8714.0	9184.1	TD at 20298.1



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

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

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

ORDER

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

FINDINGS OF FACT

1. COG Operating, LLC (“Operator”) submitted an application (“Application”) to compulsory pool the uncommitted oil and gas interests within the spacing unit (“Unit”) described in Exhibit A.
2. On April 16, 2023, OCD issued Order R-22628, which only approved the Composolary Pooling portion of the application.
3. Order R-22628 also had an incorrect Exhibit A attached to it.
4. The Application also seeks approval of a Non-Standard horizontal spacing unit for production from all Division-designated pools underlying the Unit.
5. Operator seeks to be designated the operator of the Unit.
6. Operator will dedicate the well(s) described in Exhibit A (“Well(s)”) to the Unit.
7. Operator proposes the supervision and risk charges for the Well(s) described in Exhibit A.
8. Operator identified the owners of uncommitted interests in oil and gas minerals in the Unit and provided evidence that notice was given.
9. Operator identified the owners of interest in the offset oil and gas minerals from the Unit and provided evidence that notice was given.
10. The Application was heard by the Hearing Examiner on the date specified above, during which Operator presented evidence through affidavits in support of the Application. No other party presented evidence at the hearing.

CONCLUSIONS OF LAW

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

ORDER

24. Order R-22628 is hereby superseded by this Order.
25. The Unit is approved as a non-standard horizontal spacing unit.

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ORDER NO. R-22628-A

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

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ORDER NO. R-22628-A

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

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

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

**STATE OF NEW MEXICO
OIL CONSERVATION DIVISION**


DYLAN M FUGE
DIRECTOR (ACTING)
DMF/jag

Date: 4/30/2023

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ORDER NO. R-22628-A

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Exhibit A

COMPULSORY POOLING APPLICATION CHECKLIST		Page 5 of 11
ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS		
Case: 23333	APPLICANT'S RESPONSE	
Date	March 2, 2023	
Applicant	COG Operating LLC	
Designated Operator & OGRID (affiliation if applicable)	OGRID No. 229137	
Applicant's Counsel:	Hinkle Shanor LLP	
Case Title:	Application of COG Operating LLC for Compulsory Pooling and Approval of Non-Standard Spacing Unit, Lea County, New Mexico	
Entries of Appearance/Intervenors:	None	
Well Family	Bandana	
Formation/Pool		
Formation Name(s) or Vertical Extent:	Bone Spring	
Primary Product (Oil or Gas):	Oil	
Pooling this vertical extent:	Base of the Avalon interval of the Bone Spring Formation to the base of the Bone Spring Formation	
Pool Name and Pool Code:	Fairview Mills; Bone Spring Pool (Code 96340)	
Well Location Setback Rules:	Statewide	
Spacing Unit		
Type (Horizontal/Vertical)	Horizontal	
Size (Acres)	960 acres	
Building Blocks:	quarter-quarter	
Orientation:	North/South	
Description: TRS/County	S/2 of Section 12 and all of Section 13, Township 25 South, Range 34 East, Lea County	
Standard Horizontal Well Spacing Unit (Y/N), If No, describe and is approval of non-standard unit requested in this application?	No. Approval of Non-Standard Spacing Unit requested in this application.	
Other Situations		
Depth Severance: Y/N. If yes, description	Yes. COG seeks to pool interests from the base of the Avalon interval of the Bone Spring formation at a stratigraphic equivalent of approximately 10,625' to the base of the Bone Spring formation at a stratigraphic equivalent of approximately 12,671' as shown on the Jamaica 12 Federal 1 well log (API # 30-025-33451).	
Proximity Tracts: If yes, description	No	
Proximity Defining Well: if yes, description	N/A	
Applicant's Ownership in Each Tract	Exhibit A-4	
Well(s)		
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)	Add wells as needed	
Well #1	Bandana Fed Com 601H (API # ---) SHL: 2380' FNL & 1475' FEL (Unit G), Section 12, T25S, R34E BHL: 50' FSL & 1000' FEL (Unit P), Section 13, T25S, R34E Completion Target: Bone Spring (Approx. 12,682' TVD)	

COG Operating LLC
Case No. 23333 Exhibit D-2

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Well #2	Bandana Fed Com 602H (API # ---) SHL: 2380' FNL & 1535' FEL (Unit G), Section 12, T25S, R34E BHL: 50' FSL & 2320' FEL (Unit O), Section 13, T25S, R34E Completion Target: Bone Spring (Approx. 12,654' TVD)
Well #3	Bandana Fed Com 603H (API # ---) SHL: 1896' FNL & 1493' FWL (Unit F), Section 12, T25S, R34E BHL: 50' FSL & 1640' FWL (Unit N), Section 13, T25S, R34E Completion Target: Bone Spring (Approx. 12,631' TVD)
Well #4	Bandana Fed Com 604H (API # ---) SHL: 1861' FNL & 1445' FWL (Unit F), Section 12, T25S, R34E BHL: 50' FSL & 330' FWL (Unit M), Section 13, T25S, R34E Completion Target: Bone Spring (Approx. 12,588' TVD)
Horizontal Well First and Last Take Points	Exhibit A-3
Completion Target (Formation, TVD and MD)	Exhibit A-5
AFE Capex and Operating Costs	
Drilling Supervision/Month \$	\$8,000.00
Production Supervision/Month \$	\$800.00
Justification for Supervision Costs	Exhibit A
Requested Risk Charge	200%
Notice of Hearing	
Proposed Notice of Hearing	Exhibit A-2
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit C-1, Exhibit C-2, Exhibit C-3
Proof of Published Notice of Hearing (10 days before hearing)	Exhibit C-4
Ownership Determination	
Land Ownership Schematic of the Spacing Unit	Exhibit A-4
Tract List (including lease numbers and owners)	Exhibit A-4
If approval of Non-Standard Spacing Unit is requested, Tract List (including lease numbers and owners) of Tracts subject to notice requirements.	Exhibit A-6
Pooled Parties (including ownership type)	Exhibit A-4
Unlocatable Parties to be Pooled	N/A
Ownership Depth Severance (including percentage above & below)	Exhibit A-4
Joinder	
Sample Copy of Proposal Letter	Exhibit A-5
List of Interest Owners (ie Exhibit A of JOA)	Exhibit A-4
Chronology of Contact with Non-Joined Working Interests	Exhibit A-7
Overhead Rates In Proposal Letter	Exhibit A-5
Cost Estimate to Drill and Complete	Exhibit A-5
Cost Estimate to Equip Well	Exhibit A-5
Cost Estimate for Production Facilities	Exhibit A-5
Geology	
Summary (including special considerations)	Exhibit B
Spacing Unit Schematic	Exhibit B-1
Gunbarrel/Lateral Trajectory Schematic	N/A
Well Orientation (with rationale)	Exhibit B

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Target Formation	Exhibit B	Page 7 of 11
HSU Cross Section	Exhibit B-3	
Depth Severance Discussion	Exhibit A	
Forms, Figures and Tables		
C-102	Exhibit A-3	
Tracts	Exhibit A-4	
Summary of Interests, Unit Recapitulation (Tracts)	Exhibit A-5	
General Location Map (including basin)	Exhibit B-1	
Well Bore Location Map	Exhibit B-1	
Structure Contour Map - Subsea Depth	Exhibit B-2	
Cross Section Location Map (including wells)	Exhibit B-3	
Cross Section (including Landing Zone)	Exhibit B-4	
Additional Information		
Special Provisions/Stipulations	N/A	
CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.		
Printed Name (Attorney or Party Representative):	Dana S. Hardy	
Signed Name (Attorney or Party Representative):	/s/ Dana S. Hardy	
Date:		3/07/2023

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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 221797

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 221797
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	7/26/2023