

Well Name: GIN AND TECTONIC FEDERAL COM	Well Location: T24S / R32E / SEC 5 / SWSE / 32.239881 / -103.692485	County or Parish/State: LEA / NM
Well Number: 503H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120906	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254843000S1	Well Status: Producing Oil Well	Operator: COG OPERATING LLC

Notice of Intent

Sundry ID: 2676071

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 06/10/2022	Time Sundry Submitted: 08:22
Date proposed operation will begin: 06/10/2022	

Procedure Description: COG Operating LLC respectfully requests approval for the following changes to the original approved APD. BHL Change From: 50' FNL & 2178' FEL Section 32. T23S. R32E. To: 2590' FSL & 2178' FEL Section 32. T23S. R32E Dedicated Acres From: 1279 To: 479.13 C102 , directional plan and ac report attached.

NOI Attachments

Procedure Description

- GIN_AND_TECTONIC_FEDERAL_COM_503H_Directional_Plan_20220610082225.pdf
- GIN_AND_TECTONIC_FED_COM_503H_C102_Nad83_20220610082154.pdf

Received by OCD: 3/26/2024 3:02:55 PM

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Well Name: GIN AND TECTONIC FEDERAL COM	Well Location: T24S / R32E / SEC 5 / SWSE / 32.239881 / -103.692485	County or Parish/State: LEA / NM
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Lease Number: NMNM120906	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254843000S1	Well Status: Producing Oil Well	Operator: COG OPERATING LLC

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: MAYTE REYES	Signed on: JUN 10, 2022 08:22 AM
Name: COG OPERATING LLC	
Title: Regulatory Analyst	
Street Address: 925 N ELDRIDGE PARKWAY	
City: HOUSTON	State: TX
Phone: (281) 293-1000	
Email address: MAYTE.X.REYES@CONOCOPHILLIPS.COM	

Field

Representative Name: Gerald Herrera		
Street Address: 2208 West Main Street		
City: Artesia	State: NM	Zip: 88210
Phone: (575)748-6940		
Email address: gerald.a.herrera@conocophillips.com		

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 09/09/2022
Signature: Chris Walls	

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.	NMNM120906
6. If Indian, Allottee or Tribe Name	

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No. GIN AND TECTONIC FEDERAL CO
2. Name of Operator COG OPERATING LLC		9. API Well No. 3002548430
3a. Address 600 West Illinois Ave, Midland, TX 79701	3b. Phone No. (include area code) (432) 683-7443	10. Field and Pool or Exploratory Area MESA VERDE/BONE SPRING
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 5/T24S/R32E/NMP		11. Country or Parish, State LEA/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ 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 recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation 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 LLC respectfully requests approval for the following changes to the original approved APD.

BHL Change From:
50' FNL & 2178' FEL Section 32. T23S. R32E.
To: 2590' FSL & 2178' FEL Section 32. T23S. R32E

Dedicated Acres
From: 1279 To: 479.13

C102 , directional plan and ac report attached.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) MAYTE REYES / Ph: (281) 293-1000	Title Regulatory Analyst
Signature (Electronic Submission)	Date 06/10/2022

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title Petroleum Engineer	Date 09/09/2022
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office CARLSBAD	

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SWSE / 220 FSL / 1325 FEL / TWSP: 24S / RANGE: 32E / SECTION: 5 / LAT: 32.239881 / LONG: -103.692485 (TVD: 0 feet, MD: 0 feet)

PPP: SWSE / 100 FSL / 2178 FEL / TWSP: 24S / RANGE: 32E / SECTION: 5 / LAT: 32.239539 / LONG: -103.695246 (TVD: 10394 feet, MD: 10492 feet)

PPP: SWNE / 2639 FNL / 2178 FEL / TWSP: 24S / RANGE: 32E / SECTION: 5 / LAT: 32.246525 / LONG: -103.695233 (TVD: 10517 feet, MD: 13050 feet)

BHL: NWNW / 50 FNL / 2178 FEL / TWSP: 23S / RANGE: 32E / SECTION: 32 / LAT: 32.268125 / LONG: -103.695192 (TVD: 10525 feet, MD: 20774 feet)

CONFIDENTIAL

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)

GIN AND TECTONIC FEDERAL COM #503H

300254843000

OWB

Plan: PWP0

Standard Planning Report

24 May, 2022

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #503H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3669.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3669.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #503H	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	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)		
Site Position:		Northing:	451,256.78 usft
From:	Map	Easting:	694,311.87 usft
Position Uncertainty:	3.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 14' 20.613 N
		Longitude:	103° 42' 17.566 W
		Grid Convergence:	0.34 °

Well	GIN AND TECTONIC FEDERAL COM #503H		
Well Position	+N/-S	277.7 usft	Northing:
	+E/-W	3,979.7 usft	Easting:
Position Uncertainty	3.0 usft	Wellhead Elevation:	
		Latitude:	32° 14' 23.128 N
		Longitude:	103° 41' 31.212 W
		Ground Level:	3,639.8 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	5/1/2022	6.53	59.88	47,612.70146701

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	353.42

Plan Survey Tool Program		Date	5/24/2022		
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	10,099.0 PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-St	
3	10,099.0	18,129.6 PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-St	

ConocoPhillips
Planning Report

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Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #503H	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	
2,350.0	7.00	261.35	2,349.1	-3.2	-21.1	2.00	2.00	0.00	261.35	
8,901.5	7.00	261.35	8,851.8	-123.3	-810.4	0.00	0.00	0.00	0.00	
9,601.4	0.00	0.00	9,550.0	-129.7	-852.6	1.00	-1.00	0.00	180.00	
10,099.0	0.00	0.00	10,047.5	-129.7	-852.6	0.00	0.00	0.00	0.00	
10,849.0	90.00	359.80	10,525.0	347.8	-854.3	12.00	12.00	-0.03	359.80	
18,079.6	90.00	359.80	10,525.0	7,578.3	-879.8	0.00	0.00	0.00	0.00	LTP (GIN AND TECTO
18,129.6	90.00	359.80	10,525.0	7,628.3	-880.0	0.00	0.00	0.00	0.00	PBHL (GIN AND TEC

ConocoPhillips

Planning Report

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Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #503H	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	261.35	2,100.0	-0.3	-1.7	-0.1	2.00	2.00	0.00
2,200.0	4.00	261.35	2,199.8	-1.0	-6.9	-0.3	2.00	2.00	0.00
2,300.0	6.00	261.35	2,299.5	-2.4	-15.5	-0.6	2.00	2.00	0.00
2,350.0	7.00	261.35	2,349.1	-3.2	-21.1	-0.8	2.00	2.00	0.00
Start 6551.5 hold at 2350.0 MD									
2,400.0	7.00	261.35	2,398.8	-4.1	-27.1	-1.0	0.00	0.00	0.00
2,500.0	7.00	261.35	2,498.0	-6.0	-39.2	-1.4	0.00	0.00	0.00
2,600.0	7.00	261.35	2,597.3	-7.8	-51.2	-1.9	0.00	0.00	0.00
2,700.0	7.00	261.35	2,696.5	-9.6	-63.3	-2.3	0.00	0.00	0.00
2,800.0	7.00	261.35	2,795.8	-11.5	-75.3	-2.8	0.00	0.00	0.00
2,900.0	7.00	261.35	2,895.0	-13.3	-87.4	-3.2	0.00	0.00	0.00
3,000.0	7.00	261.35	2,994.3	-15.1	-99.4	-3.6	0.00	0.00	0.00
3,100.0	7.00	261.35	3,093.5	-17.0	-111.5	-4.1	0.00	0.00	0.00
3,200.0	7.00	261.35	3,192.8	-18.8	-123.5	-4.5	0.00	0.00	0.00
3,300.0	7.00	261.35	3,292.1	-20.6	-135.6	-5.0	0.00	0.00	0.00
3,400.0	7.00	261.35	3,391.3	-22.5	-147.6	-5.4	0.00	0.00	0.00
3,500.0	7.00	261.35	3,490.6	-24.3	-159.7	-5.8	0.00	0.00	0.00
3,600.0	7.00	261.35	3,589.8	-26.1	-171.7	-6.3	0.00	0.00	0.00
3,700.0	7.00	261.35	3,689.1	-28.0	-183.7	-6.7	0.00	0.00	0.00
3,800.0	7.00	261.35	3,788.3	-29.8	-195.8	-7.2	0.00	0.00	0.00
3,900.0	7.00	261.35	3,887.6	-31.6	-207.8	-7.6	0.00	0.00	0.00
4,000.0	7.00	261.35	3,986.8	-33.5	-219.9	-8.0	0.00	0.00	0.00
4,100.0	7.00	261.35	4,086.1	-35.3	-231.9	-8.5	0.00	0.00	0.00
4,200.0	7.00	261.35	4,185.3	-37.1	-244.0	-8.9	0.00	0.00	0.00
4,300.0	7.00	261.35	4,284.6	-38.9	-256.0	-9.4	0.00	0.00	0.00
4,400.0	7.00	261.35	4,383.9	-40.8	-268.1	-9.8	0.00	0.00	0.00
4,500.0	7.00	261.35	4,483.1	-42.6	-280.1	-10.2	0.00	0.00	0.00
4,600.0	7.00	261.35	4,582.4	-44.4	-292.2	-10.7	0.00	0.00	0.00
4,700.0	7.00	261.35	4,681.6	-46.3	-304.2	-11.1	0.00	0.00	0.00
4,800.0	7.00	261.35	4,780.9	-48.1	-316.3	-11.6	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #503H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3669.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3669.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #503H	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)
4,900.0	7.00	261.35	4,880.1	-49.9	-328.3	-12.0	0.00	0.00	0.00
5,000.0	7.00	261.35	4,979.4	-51.8	-340.4	-12.4	0.00	0.00	0.00
5,100.0	7.00	261.35	5,078.6	-53.6	-352.4	-12.9	0.00	0.00	0.00
5,200.0	7.00	261.35	5,177.9	-55.4	-364.5	-13.3	0.00	0.00	0.00
5,300.0	7.00	261.35	5,277.1	-57.3	-376.5	-13.8	0.00	0.00	0.00
5,400.0	7.00	261.35	5,376.4	-59.1	-388.6	-14.2	0.00	0.00	0.00
5,500.0	7.00	261.35	5,475.7	-60.9	-400.6	-14.6	0.00	0.00	0.00
5,600.0	7.00	261.35	5,574.9	-62.8	-412.6	-15.1	0.00	0.00	0.00
5,700.0	7.00	261.35	5,674.2	-64.6	-424.7	-15.5	0.00	0.00	0.00
5,800.0	7.00	261.35	5,773.4	-66.4	-436.7	-16.0	0.00	0.00	0.00
5,900.0	7.00	261.35	5,872.7	-68.3	-448.8	-16.4	0.00	0.00	0.00
6,000.0	7.00	261.35	5,971.9	-70.1	-460.8	-16.8	0.00	0.00	0.00
6,100.0	7.00	261.35	6,071.2	-71.9	-472.9	-17.3	0.00	0.00	0.00
6,200.0	7.00	261.35	6,170.4	-73.8	-484.9	-17.7	0.00	0.00	0.00
6,300.0	7.00	261.35	6,269.7	-75.6	-497.0	-18.2	0.00	0.00	0.00
6,400.0	7.00	261.35	6,368.9	-77.4	-509.0	-18.6	0.00	0.00	0.00
6,500.0	7.00	261.35	6,468.2	-79.3	-521.1	-19.0	0.00	0.00	0.00
6,600.0	7.00	261.35	6,567.5	-81.1	-533.1	-19.5	0.00	0.00	0.00
6,700.0	7.00	261.35	6,666.7	-82.9	-545.2	-19.9	0.00	0.00	0.00
6,800.0	7.00	261.35	6,766.0	-84.8	-557.2	-20.3	0.00	0.00	0.00
6,900.0	7.00	261.35	6,865.2	-86.6	-569.3	-20.8	0.00	0.00	0.00
7,000.0	7.00	261.35	6,964.5	-88.4	-581.3	-21.2	0.00	0.00	0.00
7,100.0	7.00	261.35	7,063.7	-90.3	-593.4	-21.7	0.00	0.00	0.00
7,200.0	7.00	261.35	7,163.0	-92.1	-605.4	-22.1	0.00	0.00	0.00
7,300.0	7.00	261.35	7,262.2	-93.9	-617.4	-22.5	0.00	0.00	0.00
7,400.0	7.00	261.35	7,361.5	-95.8	-629.5	-23.0	0.00	0.00	0.00
7,500.0	7.00	261.35	7,460.7	-97.6	-641.5	-23.4	0.00	0.00	0.00
7,600.0	7.00	261.35	7,560.0	-99.4	-653.6	-23.9	0.00	0.00	0.00
7,700.0	7.00	261.35	7,659.3	-101.3	-665.6	-24.3	0.00	0.00	0.00
7,800.0	7.00	261.35	7,758.5	-103.1	-677.7	-24.7	0.00	0.00	0.00
7,900.0	7.00	261.35	7,857.8	-104.9	-689.7	-25.2	0.00	0.00	0.00
8,000.0	7.00	261.35	7,957.0	-106.8	-701.8	-25.6	0.00	0.00	0.00
8,100.0	7.00	261.35	8,056.3	-108.6	-713.8	-26.1	0.00	0.00	0.00
8,200.0	7.00	261.35	8,155.5	-110.4	-725.9	-26.5	0.00	0.00	0.00
8,300.0	7.00	261.35	8,254.8	-112.3	-737.9	-26.9	0.00	0.00	0.00
8,400.0	7.00	261.35	8,354.0	-114.1	-750.0	-27.4	0.00	0.00	0.00
8,500.0	7.00	261.35	8,453.3	-115.9	-762.0	-27.8	0.00	0.00	0.00
8,600.0	7.00	261.35	8,552.6	-117.8	-774.1	-28.3	0.00	0.00	0.00
8,700.0	7.00	261.35	8,651.8	-119.6	-786.1	-28.7	0.00	0.00	0.00
8,800.0	7.00	261.35	8,751.1	-121.4	-798.2	-29.1	0.00	0.00	0.00
8,901.5	7.00	261.35	8,851.8	-123.3	-810.4	-29.6	0.00	0.00	0.00
Start Drop -1.00									
9,000.0	6.01	261.35	8,949.7	-125.0	-821.4	-30.0	1.00	-1.00	0.00
9,100.0	5.01	261.35	9,049.2	-126.4	-830.9	-30.3	1.00	-1.00	0.00
9,200.0	4.01	261.35	9,148.9	-127.6	-838.7	-30.6	1.00	-1.00	0.00
9,300.0	3.01	261.35	9,248.7	-128.5	-844.8	-30.9	1.00	-1.00	0.00
9,400.0	2.01	261.35	9,348.6	-129.2	-849.1	-31.0	1.00	-1.00	0.00
9,500.0	1.01	261.35	9,448.6	-129.6	-851.7	-31.1	1.00	-1.00	0.00
9,601.4	0.00	0.00	9,550.0	-129.7	-852.6	-31.1	1.00	-1.00	0.00
Start 497.5 hold at 9601.4 MD									
9,700.0	0.00	0.00	9,648.6	-129.7	-852.6	-31.1	0.00	0.00	0.00
9,800.0	0.00	0.00	9,748.6	-129.7	-852.6	-31.1	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #503H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3669.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3669.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #503H	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)
9,900.0	0.00	0.00	9,848.6	-129.7	-852.6	-31.1	0.00	0.00	0.00
10,000.0	0.00	0.00	9,948.6	-129.7	-852.6	-31.1	0.00	0.00	0.00
10,099.0	0.00	0.00	10,047.5	-129.7	-852.6	-31.1	0.00	0.00	0.00
Start DLS 12.00 TFO 359.80									
10,100.0	0.12	359.80	10,048.6	-129.7	-852.6	-31.1	12.00	12.00	0.00
10,125.0	3.12	359.80	10,073.6	-129.0	-852.6	-30.4	12.00	12.00	0.00
10,150.0	6.12	359.80	10,098.5	-127.0	-852.6	-28.4	12.00	12.00	0.00
10,175.0	9.12	359.80	10,123.2	-123.7	-852.6	-25.1	12.00	12.00	0.00
10,200.0	12.12	359.80	10,147.8	-119.1	-852.6	-20.6	12.00	12.00	0.00
10,225.0	15.12	359.80	10,172.1	-113.2	-852.7	-14.7	12.00	12.00	0.00
10,250.0	18.12	359.80	10,196.1	-106.0	-852.7	-7.6	12.00	12.00	0.00
10,275.0	21.12	359.80	10,219.6	-97.6	-852.7	0.7	12.00	12.00	0.00
10,300.0	24.12	359.80	10,242.7	-88.0	-852.7	10.3	12.00	12.00	0.00
10,325.0	27.12	359.80	10,265.2	-77.2	-852.8	21.0	12.00	12.00	0.00
10,350.0	30.12	359.80	10,287.2	-65.2	-852.8	32.9	12.00	12.00	0.00
10,375.0	33.12	359.80	10,308.4	-52.1	-852.9	46.0	12.00	12.00	0.00
10,400.0	36.12	359.80	10,329.0	-37.9	-852.9	60.1	12.00	12.00	0.00
10,425.0	39.12	359.80	10,348.8	-22.6	-853.0	75.3	12.00	12.00	0.00
10,450.0	42.12	359.80	10,367.8	-6.4	-853.0	91.4	12.00	12.00	0.00
10,475.0	45.12	359.80	10,385.9	10.9	-853.1	108.6	12.00	12.00	0.00
10,500.0	48.12	359.80	10,403.0	29.0	-853.2	126.6	12.00	12.00	0.00
10,525.0	51.12	359.80	10,419.2	48.1	-853.2	145.5	12.00	12.00	0.00
10,550.0	54.12	359.80	10,434.4	68.0	-853.3	165.3	12.00	12.00	0.00
10,575.0	57.12	359.80	10,448.5	88.6	-853.4	185.8	12.00	12.00	0.00
10,600.0	60.12	359.80	10,461.5	109.9	-853.4	207.0	12.00	12.00	0.00
10,625.0	63.12	359.80	10,473.4	131.9	-853.5	228.9	12.00	12.00	0.00
10,650.0	66.12	359.80	10,484.1	154.5	-853.6	251.3	12.00	12.00	0.00
10,675.0	69.12	359.80	10,493.7	177.6	-853.7	274.3	12.00	12.00	0.00
10,700.0	72.12	359.80	10,501.9	201.2	-853.8	297.7	12.00	12.00	0.00
10,725.0	75.12	359.80	10,509.0	225.2	-853.9	321.5	12.00	12.00	0.00
10,750.0	78.12	359.80	10,514.8	249.5	-853.9	345.7	12.00	12.00	0.00
10,775.0	81.12	359.80	10,519.3	274.1	-854.0	370.2	12.00	12.00	0.00
10,800.0	84.12	359.80	10,522.5	298.9	-854.1	394.8	12.00	12.00	0.00
10,825.0	87.12	359.80	10,524.4	323.8	-854.2	419.6	12.00	12.00	0.00
10,849.0	90.00	359.80	10,525.0	347.8	-854.3	443.4	12.00	12.00	0.00
Start 7230.6 hold at 10849.0 MD									
10,900.0	90.00	359.80	10,525.0	398.8	-854.5	494.1	0.00	0.00	0.00
11,000.0	90.00	359.80	10,525.0	498.8	-854.8	593.5	0.00	0.00	0.00
11,100.0	90.00	359.80	10,525.0	598.8	-855.2	692.8	0.00	0.00	0.00
11,200.0	90.00	359.80	10,525.0	698.8	-855.5	792.2	0.00	0.00	0.00
11,300.0	90.00	359.80	10,525.0	798.8	-855.9	891.6	0.00	0.00	0.00
11,400.0	90.00	359.80	10,525.0	898.8	-856.2	991.0	0.00	0.00	0.00
11,500.0	90.00	359.80	10,525.0	998.8	-856.6	1,090.4	0.00	0.00	0.00
11,600.0	90.00	359.80	10,525.0	1,098.8	-856.9	1,189.8	0.00	0.00	0.00
11,700.0	90.00	359.80	10,525.0	1,198.8	-857.3	1,289.1	0.00	0.00	0.00
11,800.0	90.00	359.80	10,525.0	1,298.8	-857.6	1,388.5	0.00	0.00	0.00
11,900.0	90.00	359.80	10,525.0	1,398.8	-858.0	1,487.9	0.00	0.00	0.00
12,000.0	90.00	359.80	10,525.0	1,498.8	-858.3	1,587.3	0.00	0.00	0.00
12,100.0	90.00	359.80	10,525.0	1,598.8	-858.7	1,686.7	0.00	0.00	0.00
12,200.0	90.00	359.80	10,525.0	1,698.8	-859.1	1,786.0	0.00	0.00	0.00
12,300.0	90.00	359.80	10,525.0	1,798.8	-859.4	1,885.4	0.00	0.00	0.00
12,400.0	90.00	359.80	10,525.0	1,898.8	-859.8	1,984.8	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #503H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3669.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3669.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #503H	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)
12,500.0	90.00	359.80	10,525.0	1,998.8	-860.1	2,084.2	0.00	0.00	0.00
12,600.0	90.00	359.80	10,525.0	2,098.8	-860.5	2,183.6	0.00	0.00	0.00
12,700.0	90.00	359.80	10,525.0	2,198.8	-860.8	2,282.9	0.00	0.00	0.00
12,800.0	90.00	359.80	10,525.0	2,298.8	-861.2	2,382.3	0.00	0.00	0.00
12,900.0	90.00	359.80	10,525.0	2,398.8	-861.5	2,481.7	0.00	0.00	0.00
13,000.0	90.00	359.80	10,525.0	2,498.8	-861.9	2,581.1	0.00	0.00	0.00
13,100.0	90.00	359.80	10,525.0	2,598.8	-862.2	2,680.5	0.00	0.00	0.00
13,200.0	90.00	359.80	10,525.0	2,698.8	-862.6	2,779.8	0.00	0.00	0.00
13,300.0	90.00	359.80	10,525.0	2,798.8	-862.9	2,879.2	0.00	0.00	0.00
13,400.0	90.00	359.80	10,525.0	2,898.8	-863.3	2,978.6	0.00	0.00	0.00
13,500.0	90.00	359.80	10,525.0	2,998.8	-863.6	3,078.0	0.00	0.00	0.00
13,600.0	90.00	359.80	10,525.0	3,098.8	-864.0	3,177.4	0.00	0.00	0.00
13,700.0	90.00	359.80	10,525.0	3,198.8	-864.3	3,276.8	0.00	0.00	0.00
13,800.0	90.00	359.80	10,525.0	3,298.8	-864.7	3,376.1	0.00	0.00	0.00
13,900.0	90.00	359.80	10,525.0	3,398.8	-865.1	3,475.5	0.00	0.00	0.00
14,000.0	90.00	359.80	10,525.0	3,498.8	-865.4	3,574.9	0.00	0.00	0.00
14,100.0	90.00	359.80	10,525.0	3,598.8	-865.8	3,674.3	0.00	0.00	0.00
14,200.0	90.00	359.80	10,525.0	3,698.8	-866.1	3,773.7	0.00	0.00	0.00
14,300.0	90.00	359.80	10,525.0	3,798.8	-866.5	3,873.0	0.00	0.00	0.00
14,400.0	90.00	359.80	10,525.0	3,898.8	-866.8	3,972.4	0.00	0.00	0.00
14,500.0	90.00	359.80	10,525.0	3,998.8	-867.2	4,071.8	0.00	0.00	0.00
14,600.0	90.00	359.80	10,525.0	4,098.8	-867.5	4,171.2	0.00	0.00	0.00
14,700.0	90.00	359.80	10,525.0	4,198.8	-867.9	4,270.6	0.00	0.00	0.00
14,800.0	90.00	359.80	10,525.0	4,298.8	-868.2	4,369.9	0.00	0.00	0.00
14,900.0	90.00	359.80	10,525.0	4,398.8	-868.6	4,469.3	0.00	0.00	0.00
15,000.0	90.00	359.80	10,525.0	4,498.8	-868.9	4,568.7	0.00	0.00	0.00
15,100.0	90.00	359.80	10,525.0	4,598.8	-869.3	4,668.1	0.00	0.00	0.00
15,200.0	90.00	359.80	10,525.0	4,698.8	-869.6	4,767.5	0.00	0.00	0.00
15,300.0	90.00	359.80	10,525.0	4,798.8	-870.0	4,866.8	0.00	0.00	0.00
15,400.0	90.00	359.80	10,525.0	4,898.8	-870.3	4,966.2	0.00	0.00	0.00
15,500.0	90.00	359.80	10,525.0	4,998.8	-870.7	5,065.6	0.00	0.00	0.00
15,600.0	90.00	359.80	10,525.0	5,098.8	-871.1	5,165.0	0.00	0.00	0.00
15,700.0	90.00	359.80	10,525.0	5,198.8	-871.4	5,264.4	0.00	0.00	0.00
15,800.0	90.00	359.80	10,525.0	5,298.8	-871.8	5,363.8	0.00	0.00	0.00
15,900.0	90.00	359.80	10,525.0	5,398.8	-872.1	5,463.1	0.00	0.00	0.00
16,000.0	90.00	359.80	10,525.0	5,498.8	-872.5	5,562.5	0.00	0.00	0.00
16,100.0	90.00	359.80	10,525.0	5,598.8	-872.8	5,661.9	0.00	0.00	0.00
16,200.0	90.00	359.80	10,525.0	5,698.8	-873.2	5,761.3	0.00	0.00	0.00
16,300.0	90.00	359.80	10,525.0	5,798.8	-873.5	5,860.7	0.00	0.00	0.00
16,400.0	90.00	359.80	10,525.0	5,898.8	-873.9	5,960.0	0.00	0.00	0.00
16,500.0	90.00	359.80	10,525.0	5,998.8	-874.2	6,059.4	0.00	0.00	0.00
16,600.0	90.00	359.80	10,525.0	6,098.8	-874.6	6,158.8	0.00	0.00	0.00
16,700.0	90.00	359.80	10,525.0	6,198.8	-874.9	6,258.2	0.00	0.00	0.00
16,800.0	90.00	359.80	10,525.0	6,298.8	-875.3	6,357.6	0.00	0.00	0.00
16,900.0	90.00	359.80	10,525.0	6,398.8	-875.6	6,456.9	0.00	0.00	0.00
17,000.0	90.00	359.80	10,525.0	6,498.8	-876.0	6,556.3	0.00	0.00	0.00
17,100.0	90.00	359.80	10,525.0	6,598.8	-876.3	6,655.7	0.00	0.00	0.00
17,200.0	90.00	359.80	10,525.0	6,698.8	-876.7	6,755.1	0.00	0.00	0.00
17,300.0	90.00	359.80	10,525.0	6,798.8	-877.0	6,854.5	0.00	0.00	0.00
17,400.0	90.00	359.80	10,525.0	6,898.8	-877.4	6,953.9	0.00	0.00	0.00
17,500.0	90.00	359.80	10,525.0	6,998.8	-877.8	7,053.2	0.00	0.00	0.00
17,600.0	90.00	359.80	10,525.0	7,098.7	-878.1	7,152.6	0.00	0.00	0.00

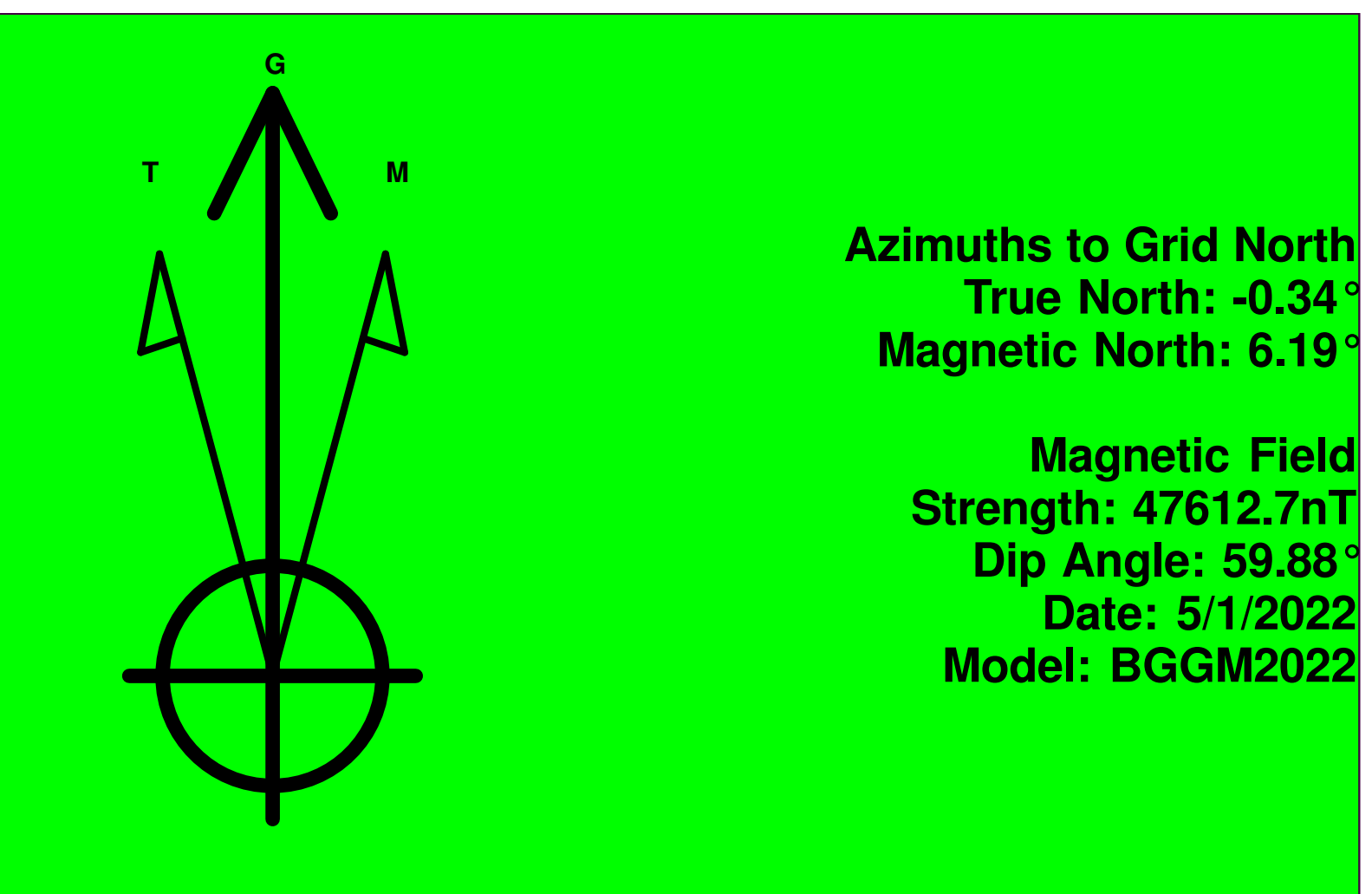
ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #503H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3669.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3669.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #503H	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)
17,700.0	90.00	359.80	10,525.0	7,198.7	-878.5	7,252.0	0.00	0.00	0.00
17,800.0	90.00	359.80	10,525.0	7,298.7	-878.8	7,351.4	0.00	0.00	0.00
17,900.0	90.00	359.80	10,525.0	7,398.7	-879.2	7,450.8	0.00	0.00	0.00
18,000.0	90.00	359.80	10,525.0	7,498.7	-879.5	7,550.1	0.00	0.00	0.00
18,079.6	90.00	359.80	10,525.0	7,578.3	-879.8	7,629.2	0.00	0.00	0.00
Start 50.0 hold at 18079.6 MD									
18,100.0	90.00	359.80	10,525.0	7,598.7	-879.9	7,649.5	0.00	0.00	0.00
18,129.6	90.00	359.80	10,525.0	7,628.3	-880.0	7,678.9	0.00	0.00	0.00
TD at 18129.6									

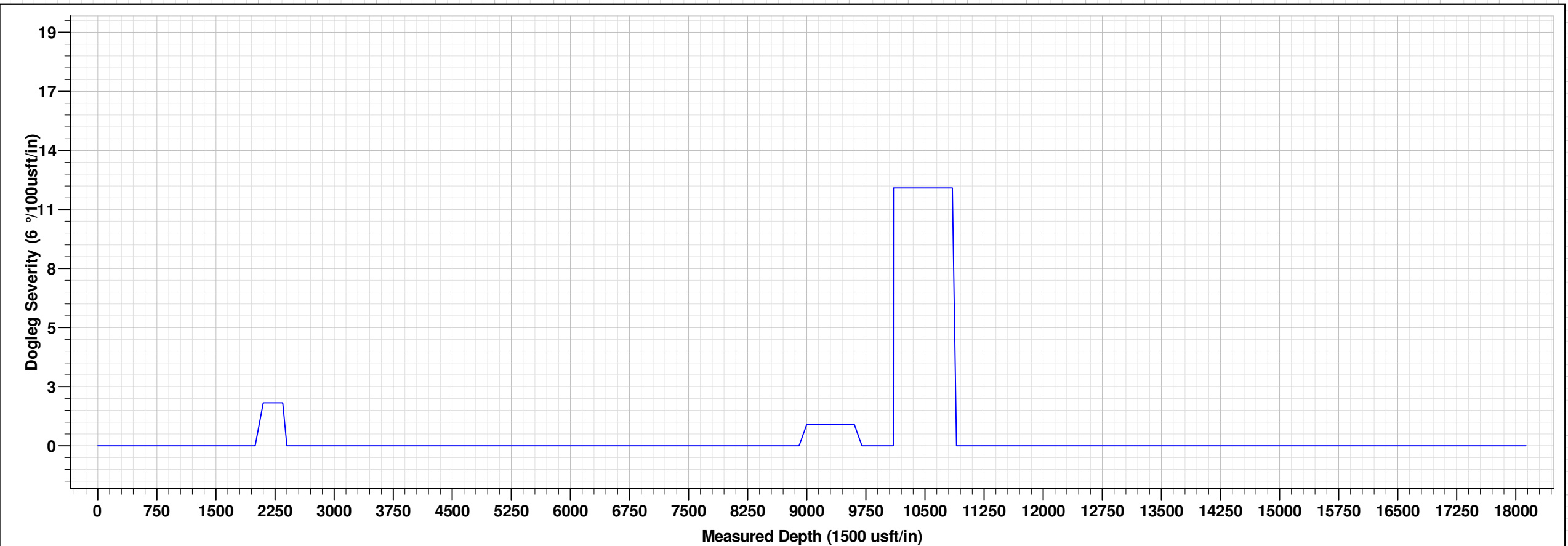
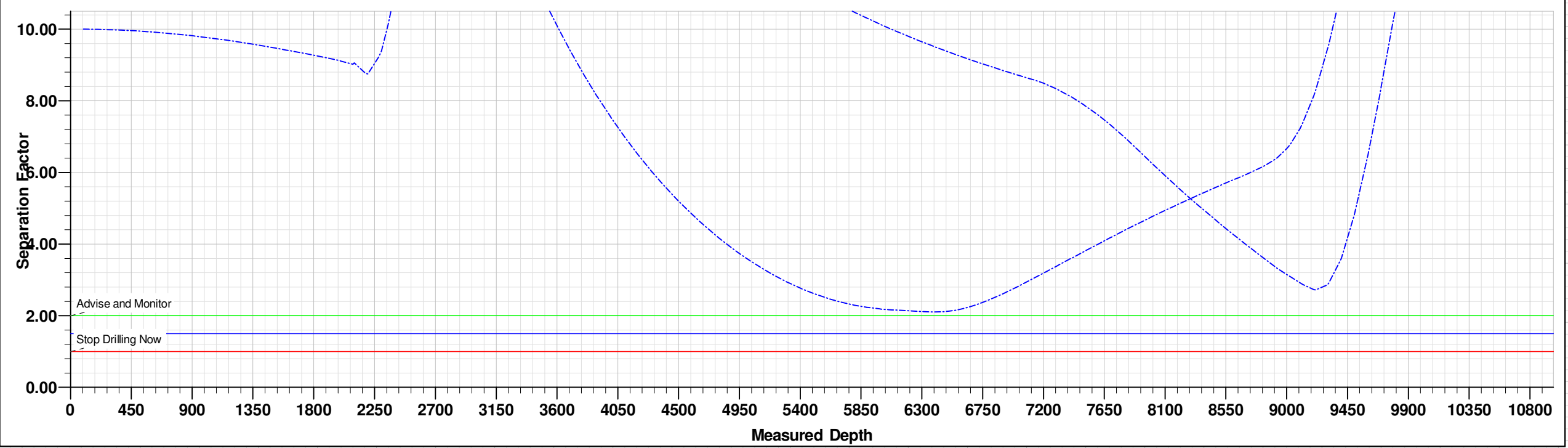
Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
FTP (GIN AND TECTON	0.00	0.00	10,525.0	-129.7	-852.6	451,404.80	697,439.00	32° 14' 21.895 N	103° 41' 41.148 W
- plan misses target center by 197.8usft at 10475.0usft MD (10385.9 TVD, 10.9 N, -853.1 E)									
- Circle (radius 50.0)									
LTP (GIN AND TECTON	0.00	0.00	10,525.0	7,578.3	-879.8	459,112.80	697,411.80	32° 15' 38.173 N	103° 41' 40.931 W
- plan hits target center									
- Point									
PBHL (GIN AND TECTC	0.00	179.80	10,525.0	7,628.3	-880.0	459,162.80	697,411.60	32° 15' 38.668 N	103° 41' 40.930 W
- plan hits target center									
- Rectangle (sides W100.0 H7,875.0 D20.0)									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.0	2,000.0	0.0	0.0	Start Build 2.00
2,350.0	2,349.1	-3.2	-21.1	Start 6551.5 hold at 2350.0 MD
8,901.5	8,851.8	-123.3	-810.4	Start Drop -1.00
9,601.4	9,550.0	-129.7	-852.6	Start 497.5 hold at 9601.4 MD
10,099.0	10,047.5	-129.7	-852.6	Start DLS 12.00 TFO 359.80
10,849.0	10,525.0	347.8	-854.3	Start 7230.6 hold at 10849.0 MD
18,079.6	10,525.0	7,578.3	-879.8	Start 50.0 hold at 18079.6 MD
18,129.6	10,525.0	7,628.3	-880.0	TD at 18129.6

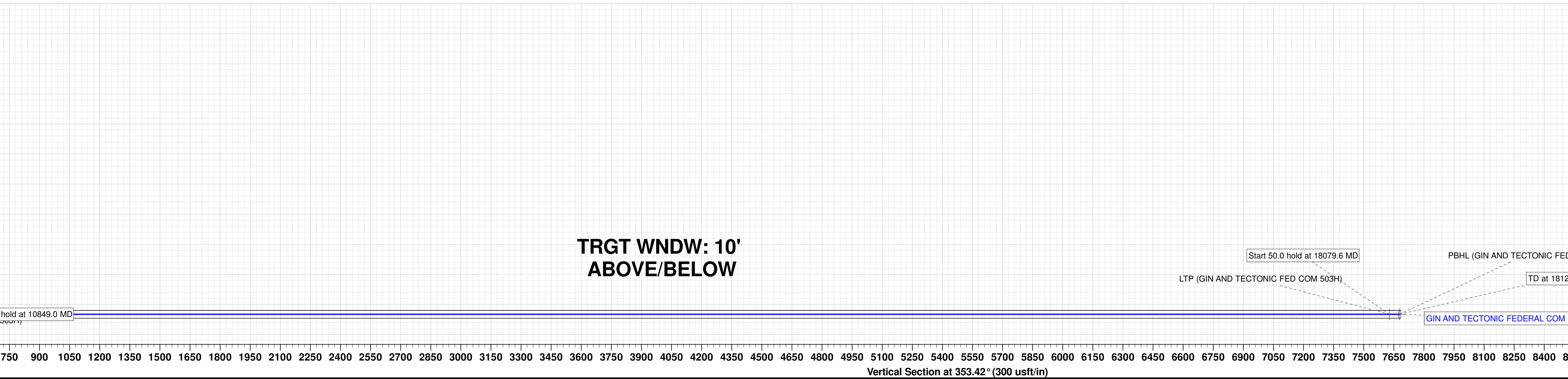
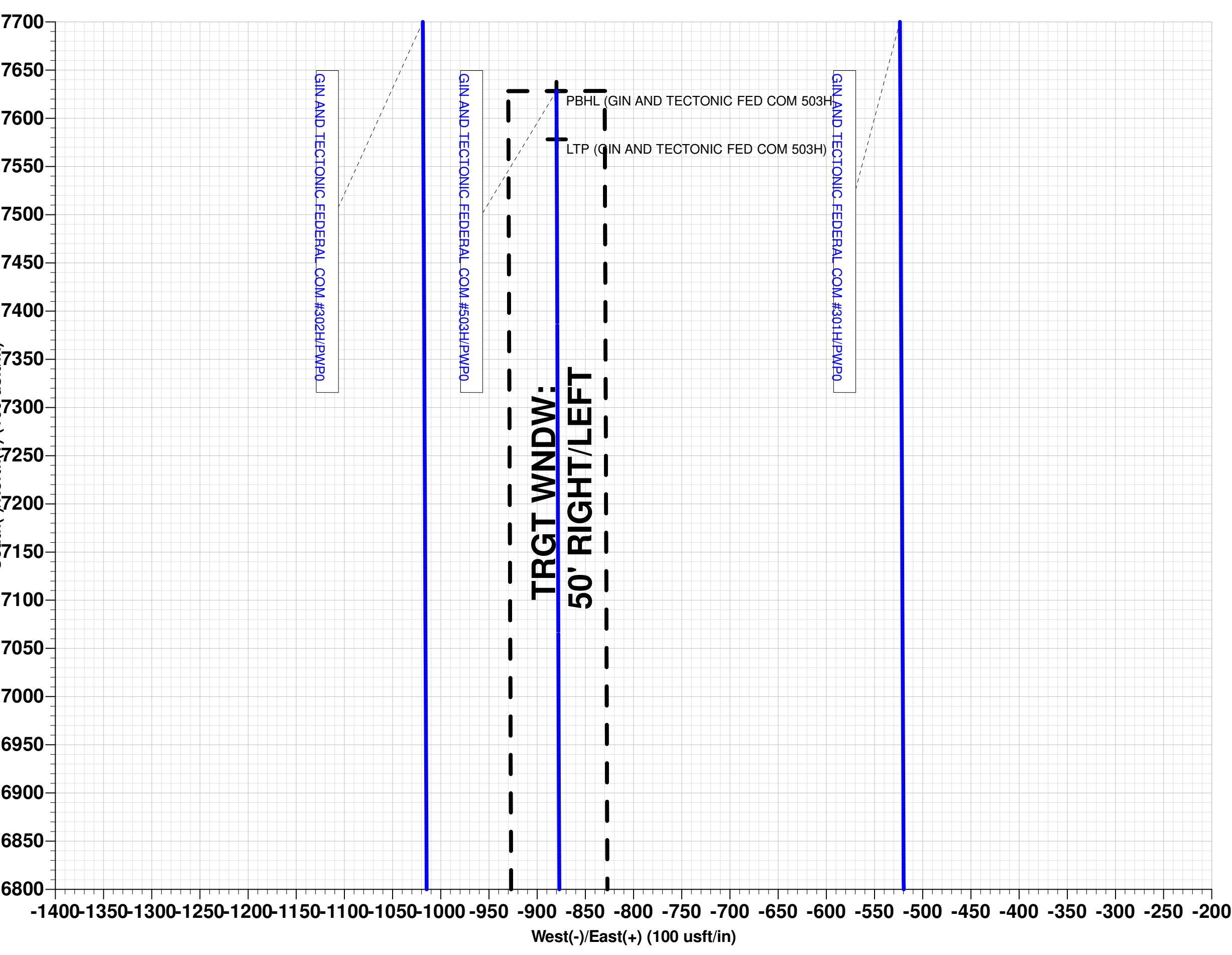
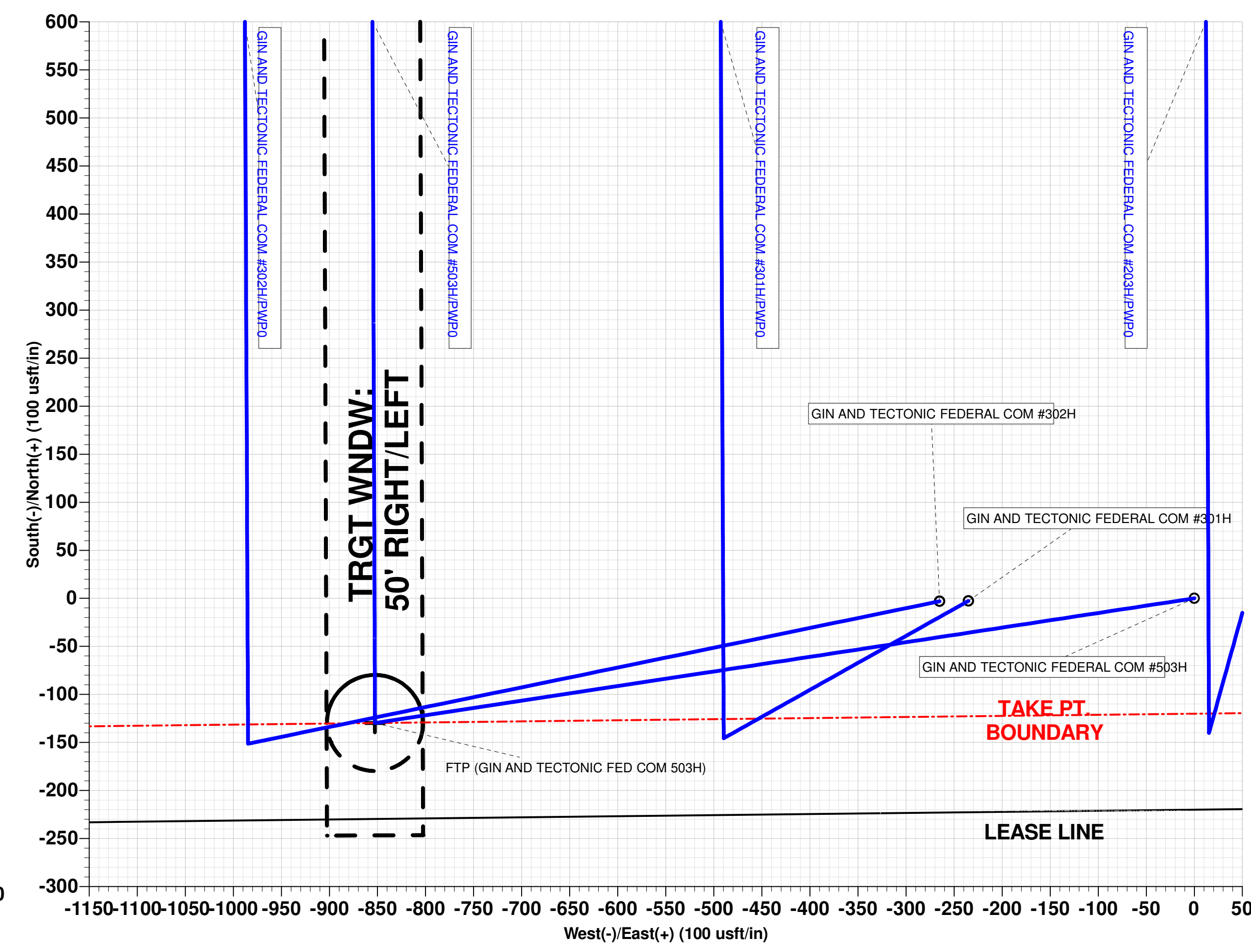
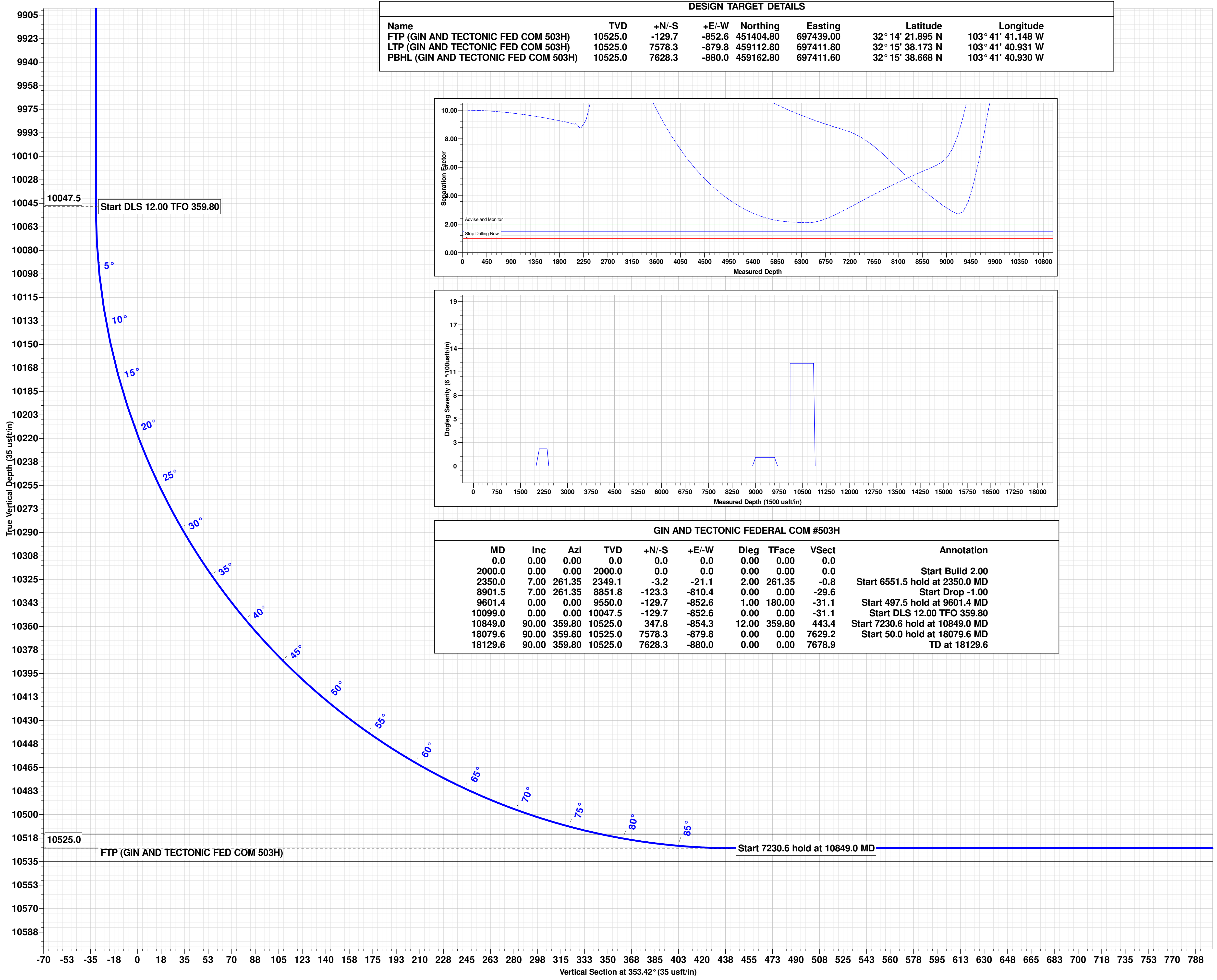
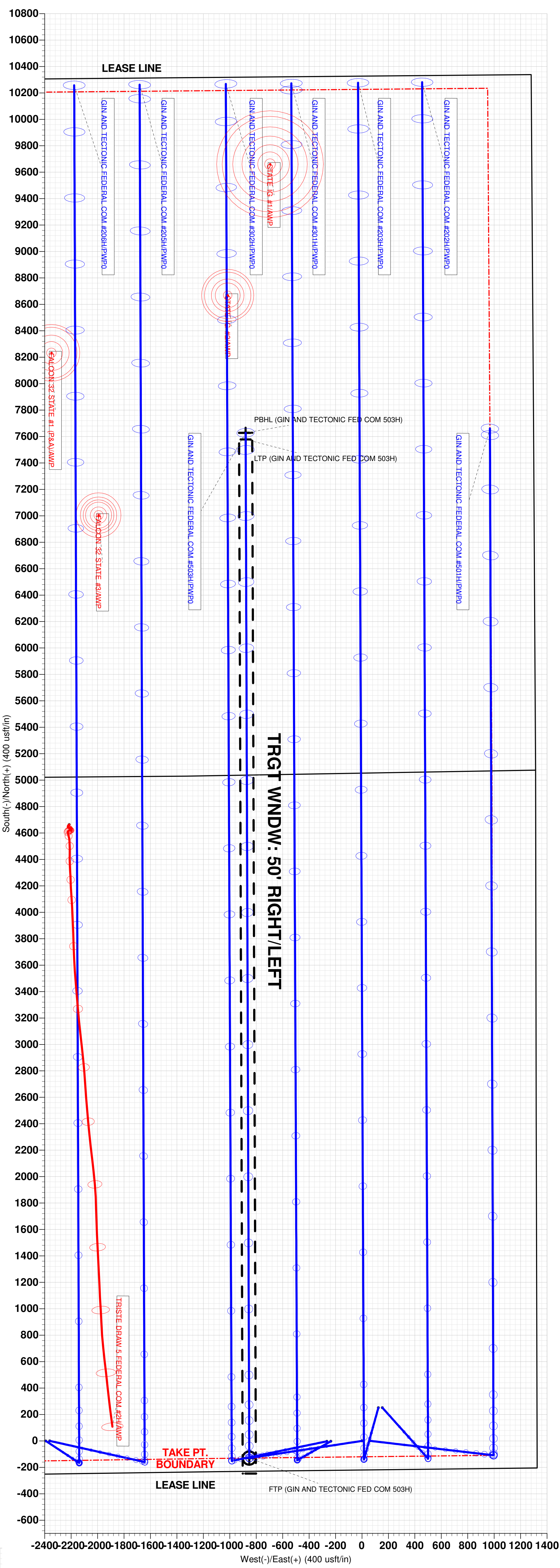


WELL DETAILS: GIN AND TECTONIC FEDERAL COM #503H				
+N-S	+E-W	Northing	Easting	Latitude
0.0	0.0	451534.50	698291.60	32° 14' 23.128 N
				103° 41' 31.212 W

DESIGN TARGET DETAILS						
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude
FTP (GIN AND TECTONIC FED COM 503H)	10525.0	-129.7	-852.6	451404.80	697439.00	32° 14' 21.895 N
LTP (GIN AND TECTONIC FED COM 503H)	10525.0	7578.3	-879.8	459112.80	697411.80	32° 15' 38.173 N
PBHL (GIN AND TECTONIC FED COM 503H)	10525.0	7628.3	-880.0	459162.80	697411.60	32° 15' 38.668 N



GIN AND TECTONIC FEDERAL COM #503H									
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSecl	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2350.0	7.00	261.35	2349.1	-3.2	-21.1	2.00	261.35	-0.8	Start 6551.5 hold at 2350.0 MD
8901.5	7.00	261.35	8851.3	-123.3	-810.4	0.00	0.00	-29.6	Start Drop -1.00
9601.4	0.00	0.00	9550.0	-129.7	-852.6	1.00	180.00	-31.1	Start 497.5 hold at 9601.4 MD
10099.0	0.00	0.00	10047.5	-129.7	-852.6	0.00	0.00	-31.1	Start DLS 12.00 TFO 359.80
10849.0	90.00	359.80	10525.0	347.8	-854.3	12.00	359.80	443.4	Start 7230.6 hold at 10849.0 MD
18079.6	90.00	359.80	10525.0	7578.3	-879.8	0.00	0.00	7629.2	Start 50.0 hold at 18079.6 MD
18129.6	90.00	359.80	10525.0	7628.3	-880.0	0.00	0.00	7678.9	TD at 18129.6



TRGT WNDW: 10' ABOVE/BELOW

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 30-025-48430	Pool Code 96229	Pool Name Mesa Verde; Bone Spring
Property Code 329961	Property Name GIN AND TECTONIC FEDERAL COM	Well Number 503H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3639.8'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	5	24-S	32-E		220	SOUTH	1325	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	32	23-S	32-E		2590	SOUTH	2178	EAST	LEA
Dedicated Acres 479.13	Joint or Infill	Consolidation Code	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

NAD 83 NME <u>PROPOSED BOTTOM HOLE LOCATION</u> Y=459222.0 N X=738595.3 E LAT.=32.260864° N LONG.=103.695186° W	POINT LEGEND <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>1</td><td>Y=461909.3 N X=738118.6 E</td></tr> <tr><td>2</td><td>Y=456623.7 N X=738148.9 E</td></tr> <tr><td>3</td><td>Y=451358.5 N X=738151.9 E</td></tr> <tr><td>4</td><td>Y=451388.6 N X=740801.1 E</td></tr> <tr><td>5</td><td>Y=454029.5 N X=740793.8 E</td></tr> <tr><td>6</td><td>Y=456670.1 N X=740788.6 E</td></tr> <tr><td>7</td><td>Y=459290.7 N X=740773.0 E</td></tr> <tr><td>8</td><td>Y=461932.2 N X=740755.1 E</td></tr> </table>	1	Y=461909.3 N X=738118.6 E	2	Y=456623.7 N X=738148.9 E	3	Y=451358.5 N X=738151.9 E	4	Y=451388.6 N X=740801.1 E	5	Y=454029.5 N X=740793.8 E	6	Y=456670.1 N X=740788.6 E	7	Y=459290.7 N X=740773.0 E	8	Y=461932.2 N X=740755.1 E	OPERATOR CERTIFICATION <i>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> Mayte Reyes 5/17/2022 Signature _____ Date _____ Mayte Reyes Printed Name _____ mayte.x.reyes@cop.com E-mail Address _____ SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> MAY 8, 2020 Date of Survey _____ Signature & Seal of Professional Surveyor Chad Harcrow 5/5/22 Certificate No. CHAD HARCROW 17777 W.O. # 22-245 DRAWN BY: WN
1	Y=461909.3 N X=738118.6 E																	
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1220 SOUTH ST. FRANCIS DR.
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Form C-102
Revised August 1, 2011
Submit one copy to appropriate
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☐ AMENDED REPORT

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Dedicated Acres 479.13	Joint or Infill	Consolidation Code	Order No.						

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OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

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Well Name: GIN AND TECTONIC
FEDERAL COM

Well Location: T24S / R32E / SEC 5 / SWSE / 32.239881 / -103.692485

County or Parish/State: LEA / NM

Well Number: 503H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM120906

Unit or CA Name:

Unit or CA Number:

US Well Number: 300254843000S1

Well Status: Producing Oil Well

Operator: COG OPERATING
LLC

Notice of Intent

Sundry ID: 2676071

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 06/10/2022

Time Sundry Submitted: 08:22

Date proposed operation will begin: 06/10/2022

Procedure Description: COG Operating LLC respectfully requests approval for the following changes to the original approved APD. BHL Change From: 50' FNL & 2178' FEL Section 32. T23S. R32E. To: 2590' FSL & 2178' FEL Section 32. T23S. R32E Dedicated Acres From: 1279 To: 479.13 C102 , directional plan and ac report attached.

NOI Attachments

Procedure Description

GIN AND TECTONIC FEDERAL COM 503H Directional Plan 20220610082225.pdf

GIN AND TECTONIC FED COM 503H C102 Nad83 20220610082154.pdf

Well Name: GIN AND TECTONIC FEDERAL COM	Well Location: T24S / R32E / SEC 5 / SWSE / 32.239881 / -103.692485	County or Parish/State: LEA / NM
Well Number: 503H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120906	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254843000S1	Well Status: Producing Oil Well	Operator: COG OPERATING LLC

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: MAYTE REYES	Signed on: JUN 10, 2022 08:22 AM
Name: COG OPERATING LLC	
Title: Regulatory Analyst	
Street Address: 925 N ELDRIDGE PARKWAY	
City: HOUSTON	State: TX
Phone: (281) 293-1000	
Email address: MAYTE.X.REYES@CONOCOPHILLIPS.COM	

Field

Representative Name: Gerald Herrera		
Street Address: 2208 West Main Street		
City: Artesia	State: NM	Zip: 88210
Phone: (575)748-6940		
Email address: gerald.a.herrera@conocophillips.com		

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 09/09/2022
Signature: Chris Walls	

Form 3160-5 (June 2019)	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021
SUNDRY NOTICES AND REPORTS ON WELLS <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		5. Lease Serial No. NMNM120906
		6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No. GIN AND TECTONIC FEDERAL CO
2. Name of Operator COG OPERATING LLC		9. API Well No. 3002548430
3a. Address 600 West Illinois Ave, Midland, TX 79701	3b. Phone No. (include area code) (432) 683-7443	10. Field and Pool or Exploratory Area MESA VERDE/BONE SPRING
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 5/T24S/R32E/NMP		11. Country or Parish, State LEA/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ 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 recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

COG Operating LLC respectfully requests approval for the following changes to the original approved APD.

BHL Change From:
50' FNL & 2178' FEL Section 32. T23S. R32E.
To: 2590' FSL & 2178' FEL Section 32. T23S. R32E

Dedicated Acres
From: 1279 To: 479.13

C102 , directional plan and ac report attached.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) MAYTE REYES / Ph: (281) 293-1000	Title Regulatory Analyst
Signature (Electronic Submission)	Date 06/10/2022

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title Petroleum Engineer	Date 09/09/2022
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office CARLSBAD	

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SWSE / 220 FSL / 1325 FEL / TWSP: 24S / RANGE: 32E / SECTION: 5 / LAT: 32.239881 / LONG: -103.692485 (TVD: 0 feet, MD: 0 feet)

PPP: SWSE / 100 FSL / 2178 FEL / TWSP: 24S / RANGE: 32E / SECTION: 5 / LAT: 32.239539 / LONG: -103.695246 (TVD: 10394 feet, MD: 10492 feet)

PPP: SWNE / 2639 FNL / 2178 FEL / TWSP: 24S / RANGE: 32E / SECTION: 5 / LAT: 32.246525 / LONG: -103.695233 (TVD: 10517 feet, MD: 13050 feet)

BHL: NWNW / 50 FNL / 2178 FEL / TWSP: 23S / RANGE: 32E / SECTION: 32 / LAT: 32.268125 / LONG: -103.695192 (TVD: 10525 feet, MD: 20774 feet)

CONFIDENTIAL

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)

GIN AND TECTONIC FEDERAL COM #503H

300254843000

OWB

Plan: PWP0

Standard Planning Report

24 May, 2022

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #503H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3669.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3669.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #503H	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	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)		
Site Position:		Northing:	451,256.78 usft
From:	Map	Easting:	694,311.87 usft
Position Uncertainty:	3.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 14' 20.613 N
		Longitude:	103° 42' 17.566 W
		Grid Convergence:	0.34 °

Well	GIN AND TECTONIC FEDERAL COM #503H		
Well Position	+N/-S	277.7 usft	Northing:
	+E/-W	3,979.7 usft	Easting:
Position Uncertainty	3.0 usft	Wellhead Elevation:	
		Latitude:	32° 14' 23.128 N
		Longitude:	103° 41' 31.212 W
		Ground Level:	3,639.8 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	5/1/2022	6.53	59.88	47,612.70146701

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	353.42

Plan Survey Tool Program		Date	5/24/2022		
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	10,099.0 PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-St	
3	10,099.0	18,129.6 PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-St	

ConocoPhillips

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Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #503H	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	
2,350.0	7.00	261.35	2,349.1	-3.2	-21.1	2.00	2.00	0.00	261.35	
8,901.5	7.00	261.35	8,851.8	-123.3	-810.4	0.00	0.00	0.00	0.00	
9,601.4	0.00	0.00	9,550.0	-129.7	-852.6	1.00	-1.00	0.00	180.00	
10,099.0	0.00	0.00	10,047.5	-129.7	-852.6	0.00	0.00	0.00	0.00	
10,849.0	90.00	359.80	10,525.0	347.8	-854.3	12.00	12.00	-0.03	359.80	
18,079.6	90.00	359.80	10,525.0	7,578.3	-879.8	0.00	0.00	0.00	0.00	LTP (GIN AND TECTO
18,129.6	90.00	359.80	10,525.0	7,628.3	-880.0	0.00	0.00	0.00	0.00	PBHL (GIN AND TEC

ConocoPhillips

Planning Report

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Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3669.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #503H	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	261.35	2,100.0	-0.3	-1.7	-0.1	2.00	2.00	0.00
2,200.0	4.00	261.35	2,199.8	-1.0	-6.9	-0.3	2.00	2.00	0.00
2,300.0	6.00	261.35	2,299.5	-2.4	-15.5	-0.6	2.00	2.00	0.00
2,350.0	7.00	261.35	2,349.1	-3.2	-21.1	-0.8	2.00	2.00	0.00
Start 6551.5 hold at 2350.0 MD									
2,400.0	7.00	261.35	2,398.8	-4.1	-27.1	-1.0	0.00	0.00	0.00
2,500.0	7.00	261.35	2,498.0	-6.0	-39.2	-1.4	0.00	0.00	0.00
2,600.0	7.00	261.35	2,597.3	-7.8	-51.2	-1.9	0.00	0.00	0.00
2,700.0	7.00	261.35	2,696.5	-9.6	-63.3	-2.3	0.00	0.00	0.00
2,800.0	7.00	261.35	2,795.8	-11.5	-75.3	-2.8	0.00	0.00	0.00
2,900.0	7.00	261.35	2,895.0	-13.3	-87.4	-3.2	0.00	0.00	0.00
3,000.0	7.00	261.35	2,994.3	-15.1	-99.4	-3.6	0.00	0.00	0.00
3,100.0	7.00	261.35	3,093.5	-17.0	-111.5	-4.1	0.00	0.00	0.00
3,200.0	7.00	261.35	3,192.8	-18.8	-123.5	-4.5	0.00	0.00	0.00
3,300.0	7.00	261.35	3,292.1	-20.6	-135.6	-5.0	0.00	0.00	0.00
3,400.0	7.00	261.35	3,391.3	-22.5	-147.6	-5.4	0.00	0.00	0.00
3,500.0	7.00	261.35	3,490.6	-24.3	-159.7	-5.8	0.00	0.00	0.00
3,600.0	7.00	261.35	3,589.8	-26.1	-171.7	-6.3	0.00	0.00	0.00
3,700.0	7.00	261.35	3,689.1	-28.0	-183.7	-6.7	0.00	0.00	0.00
3,800.0	7.00	261.35	3,788.3	-29.8	-195.8	-7.2	0.00	0.00	0.00
3,900.0	7.00	261.35	3,887.6	-31.6	-207.8	-7.6	0.00	0.00	0.00
4,000.0	7.00	261.35	3,986.8	-33.5	-219.9	-8.0	0.00	0.00	0.00
4,100.0	7.00	261.35	4,086.1	-35.3	-231.9	-8.5	0.00	0.00	0.00
4,200.0	7.00	261.35	4,185.3	-37.1	-244.0	-8.9	0.00	0.00	0.00
4,300.0	7.00	261.35	4,284.6	-38.9	-256.0	-9.4	0.00	0.00	0.00
4,400.0	7.00	261.35	4,383.9	-40.8	-268.1	-9.8	0.00	0.00	0.00
4,500.0	7.00	261.35	4,483.1	-42.6	-280.1	-10.2	0.00	0.00	0.00
4,600.0	7.00	261.35	4,582.4	-44.4	-292.2	-10.7	0.00	0.00	0.00
4,700.0	7.00	261.35	4,681.6	-46.3	-304.2	-11.1	0.00	0.00	0.00
4,800.0	7.00	261.35	4,780.9	-48.1	-316.3	-11.6	0.00	0.00	0.00

ConocoPhillips

Planning Report

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Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3669.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3669.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #503H	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)
4,900.0	7.00	261.35	4,880.1	-49.9	-328.3	-12.0	0.00	0.00	0.00
5,000.0	7.00	261.35	4,979.4	-51.8	-340.4	-12.4	0.00	0.00	0.00
5,100.0	7.00	261.35	5,078.6	-53.6	-352.4	-12.9	0.00	0.00	0.00
5,200.0	7.00	261.35	5,177.9	-55.4	-364.5	-13.3	0.00	0.00	0.00
5,300.0	7.00	261.35	5,277.1	-57.3	-376.5	-13.8	0.00	0.00	0.00
5,400.0	7.00	261.35	5,376.4	-59.1	-388.6	-14.2	0.00	0.00	0.00
5,500.0	7.00	261.35	5,475.7	-60.9	-400.6	-14.6	0.00	0.00	0.00
5,600.0	7.00	261.35	5,574.9	-62.8	-412.6	-15.1	0.00	0.00	0.00
5,700.0	7.00	261.35	5,674.2	-64.6	-424.7	-15.5	0.00	0.00	0.00
5,800.0	7.00	261.35	5,773.4	-66.4	-436.7	-16.0	0.00	0.00	0.00
5,900.0	7.00	261.35	5,872.7	-68.3	-448.8	-16.4	0.00	0.00	0.00
6,000.0	7.00	261.35	5,971.9	-70.1	-460.8	-16.8	0.00	0.00	0.00
6,100.0	7.00	261.35	6,071.2	-71.9	-472.9	-17.3	0.00	0.00	0.00
6,200.0	7.00	261.35	6,170.4	-73.8	-484.9	-17.7	0.00	0.00	0.00
6,300.0	7.00	261.35	6,269.7	-75.6	-497.0	-18.2	0.00	0.00	0.00
6,400.0	7.00	261.35	6,368.9	-77.4	-509.0	-18.6	0.00	0.00	0.00
6,500.0	7.00	261.35	6,468.2	-79.3	-521.1	-19.0	0.00	0.00	0.00
6,600.0	7.00	261.35	6,567.5	-81.1	-533.1	-19.5	0.00	0.00	0.00
6,700.0	7.00	261.35	6,666.7	-82.9	-545.2	-19.9	0.00	0.00	0.00
6,800.0	7.00	261.35	6,766.0	-84.8	-557.2	-20.3	0.00	0.00	0.00
6,900.0	7.00	261.35	6,865.2	-86.6	-569.3	-20.8	0.00	0.00	0.00
7,000.0	7.00	261.35	6,964.5	-88.4	-581.3	-21.2	0.00	0.00	0.00
7,100.0	7.00	261.35	7,063.7	-90.3	-593.4	-21.7	0.00	0.00	0.00
7,200.0	7.00	261.35	7,163.0	-92.1	-605.4	-22.1	0.00	0.00	0.00
7,300.0	7.00	261.35	7,262.2	-93.9	-617.4	-22.5	0.00	0.00	0.00
7,400.0	7.00	261.35	7,361.5	-95.8	-629.5	-23.0	0.00	0.00	0.00
7,500.0	7.00	261.35	7,460.7	-97.6	-641.5	-23.4	0.00	0.00	0.00
7,600.0	7.00	261.35	7,560.0	-99.4	-653.6	-23.9	0.00	0.00	0.00
7,700.0	7.00	261.35	7,659.3	-101.3	-665.6	-24.3	0.00	0.00	0.00
7,800.0	7.00	261.35	7,758.5	-103.1	-677.7	-24.7	0.00	0.00	0.00
7,900.0	7.00	261.35	7,857.8	-104.9	-689.7	-25.2	0.00	0.00	0.00
8,000.0	7.00	261.35	7,957.0	-106.8	-701.8	-25.6	0.00	0.00	0.00
8,100.0	7.00	261.35	8,056.3	-108.6	-713.8	-26.1	0.00	0.00	0.00
8,200.0	7.00	261.35	8,155.5	-110.4	-725.9	-26.5	0.00	0.00	0.00
8,300.0	7.00	261.35	8,254.8	-112.3	-737.9	-26.9	0.00	0.00	0.00
8,400.0	7.00	261.35	8,354.0	-114.1	-750.0	-27.4	0.00	0.00	0.00
8,500.0	7.00	261.35	8,453.3	-115.9	-762.0	-27.8	0.00	0.00	0.00
8,600.0	7.00	261.35	8,552.6	-117.8	-774.1	-28.3	0.00	0.00	0.00
8,700.0	7.00	261.35	8,651.8	-119.6	-786.1	-28.7	0.00	0.00	0.00
8,800.0	7.00	261.35	8,751.1	-121.4	-798.2	-29.1	0.00	0.00	0.00
8,901.5	7.00	261.35	8,851.8	-123.3	-810.4	-29.6	0.00	0.00	0.00
Start Drop -1.00									
9,000.0	6.01	261.35	8,949.7	-125.0	-821.4	-30.0	1.00	-1.00	0.00
9,100.0	5.01	261.35	9,049.2	-126.4	-830.9	-30.3	1.00	-1.00	0.00
9,200.0	4.01	261.35	9,148.9	-127.6	-838.7	-30.6	1.00	-1.00	0.00
9,300.0	3.01	261.35	9,248.7	-128.5	-844.8	-30.9	1.00	-1.00	0.00
9,400.0	2.01	261.35	9,348.6	-129.2	-849.1	-31.0	1.00	-1.00	0.00
9,500.0	1.01	261.35	9,448.6	-129.6	-851.7	-31.1	1.00	-1.00	0.00
9,601.4	0.00	0.00	9,550.0	-129.7	-852.6	-31.1	1.00	-1.00	0.00
Start 497.5 hold at 9601.4 MD									
9,700.0	0.00	0.00	9,648.6	-129.7	-852.6	-31.1	0.00	0.00	0.00
9,800.0	0.00	0.00	9,748.6	-129.7	-852.6	-31.1	0.00	0.00	0.00

ConocoPhillips

Planning Report

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Well:	GIN AND TECTONIC FEDERAL COM #503H	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)
9,900.0	0.00	0.00	9,848.6	-129.7	-852.6	-31.1	0.00	0.00	0.00
10,000.0	0.00	0.00	9,948.6	-129.7	-852.6	-31.1	0.00	0.00	0.00
10,099.0	0.00	0.00	10,047.5	-129.7	-852.6	-31.1	0.00	0.00	0.00
Start DLS 12.00 TFO 359.80									
10,100.0	0.12	359.80	10,048.6	-129.7	-852.6	-31.1	12.00	12.00	0.00
10,125.0	3.12	359.80	10,073.6	-129.0	-852.6	-30.4	12.00	12.00	0.00
10,150.0	6.12	359.80	10,098.5	-127.0	-852.6	-28.4	12.00	12.00	0.00
10,175.0	9.12	359.80	10,123.2	-123.7	-852.6	-25.1	12.00	12.00	0.00
10,200.0	12.12	359.80	10,147.8	-119.1	-852.6	-20.6	12.00	12.00	0.00
10,225.0	15.12	359.80	10,172.1	-113.2	-852.7	-14.7	12.00	12.00	0.00
10,250.0	18.12	359.80	10,196.1	-106.0	-852.7	-7.6	12.00	12.00	0.00
10,275.0	21.12	359.80	10,219.6	-97.6	-852.7	0.7	12.00	12.00	0.00
10,300.0	24.12	359.80	10,242.7	-88.0	-852.7	10.3	12.00	12.00	0.00
10,325.0	27.12	359.80	10,265.2	-77.2	-852.8	21.0	12.00	12.00	0.00
10,350.0	30.12	359.80	10,287.2	-65.2	-852.8	32.9	12.00	12.00	0.00
10,375.0	33.12	359.80	10,308.4	-52.1	-852.9	46.0	12.00	12.00	0.00
10,400.0	36.12	359.80	10,329.0	-37.9	-852.9	60.1	12.00	12.00	0.00
10,425.0	39.12	359.80	10,348.8	-22.6	-853.0	75.3	12.00	12.00	0.00
10,450.0	42.12	359.80	10,367.8	-6.4	-853.0	91.4	12.00	12.00	0.00
10,475.0	45.12	359.80	10,385.9	10.9	-853.1	108.6	12.00	12.00	0.00
10,500.0	48.12	359.80	10,403.0	29.0	-853.2	126.6	12.00	12.00	0.00
10,525.0	51.12	359.80	10,419.2	48.1	-853.2	145.5	12.00	12.00	0.00
10,550.0	54.12	359.80	10,434.4	68.0	-853.3	165.3	12.00	12.00	0.00
10,575.0	57.12	359.80	10,448.5	88.6	-853.4	185.8	12.00	12.00	0.00
10,600.0	60.12	359.80	10,461.5	109.9	-853.4	207.0	12.00	12.00	0.00
10,625.0	63.12	359.80	10,473.4	131.9	-853.5	228.9	12.00	12.00	0.00
10,650.0	66.12	359.80	10,484.1	154.5	-853.6	251.3	12.00	12.00	0.00
10,675.0	69.12	359.80	10,493.7	177.6	-853.7	274.3	12.00	12.00	0.00
10,700.0	72.12	359.80	10,501.9	201.2	-853.8	297.7	12.00	12.00	0.00
10,725.0	75.12	359.80	10,509.0	225.2	-853.9	321.5	12.00	12.00	0.00
10,750.0	78.12	359.80	10,514.8	249.5	-853.9	345.7	12.00	12.00	0.00
10,775.0	81.12	359.80	10,519.3	274.1	-854.0	370.2	12.00	12.00	0.00
10,800.0	84.12	359.80	10,522.5	298.9	-854.1	394.8	12.00	12.00	0.00
10,825.0	87.12	359.80	10,524.4	323.8	-854.2	419.6	12.00	12.00	0.00
10,849.0	90.00	359.80	10,525.0	347.8	-854.3	443.4	12.00	12.00	0.00
Start 7230.6 hold at 10849.0 MD									
10,900.0	90.00	359.80	10,525.0	398.8	-854.5	494.1	0.00	0.00	0.00
11,000.0	90.00	359.80	10,525.0	498.8	-854.8	593.5	0.00	0.00	0.00
11,100.0	90.00	359.80	10,525.0	598.8	-855.2	692.8	0.00	0.00	0.00
11,200.0	90.00	359.80	10,525.0	698.8	-855.5	792.2	0.00	0.00	0.00
11,300.0	90.00	359.80	10,525.0	798.8	-855.9	891.6	0.00	0.00	0.00
11,400.0	90.00	359.80	10,525.0	898.8	-856.2	991.0	0.00	0.00	0.00
11,500.0	90.00	359.80	10,525.0	998.8	-856.6	1,090.4	0.00	0.00	0.00
11,600.0	90.00	359.80	10,525.0	1,098.8	-856.9	1,189.8	0.00	0.00	0.00
11,700.0	90.00	359.80	10,525.0	1,198.8	-857.3	1,289.1	0.00	0.00	0.00
11,800.0	90.00	359.80	10,525.0	1,298.8	-857.6	1,388.5	0.00	0.00	0.00
11,900.0	90.00	359.80	10,525.0	1,398.8	-858.0	1,487.9	0.00	0.00	0.00
12,000.0	90.00	359.80	10,525.0	1,498.8	-858.3	1,587.3	0.00	0.00	0.00
12,100.0	90.00	359.80	10,525.0	1,598.8	-858.7	1,686.7	0.00	0.00	0.00
12,200.0	90.00	359.80	10,525.0	1,698.8	-859.1	1,786.0	0.00	0.00	0.00
12,300.0	90.00	359.80	10,525.0	1,798.8	-859.4	1,885.4	0.00	0.00	0.00
12,400.0	90.00	359.80	10,525.0	1,898.8	-859.8	1,984.8	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #503H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3669.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3669.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #503H	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)
12,500.0	90.00	359.80	10,525.0	1,998.8	-860.1	2,084.2	0.00	0.00	0.00
12,600.0	90.00	359.80	10,525.0	2,098.8	-860.5	2,183.6	0.00	0.00	0.00
12,700.0	90.00	359.80	10,525.0	2,198.8	-860.8	2,282.9	0.00	0.00	0.00
12,800.0	90.00	359.80	10,525.0	2,298.8	-861.2	2,382.3	0.00	0.00	0.00
12,900.0	90.00	359.80	10,525.0	2,398.8	-861.5	2,481.7	0.00	0.00	0.00
13,000.0	90.00	359.80	10,525.0	2,498.8	-861.9	2,581.1	0.00	0.00	0.00
13,100.0	90.00	359.80	10,525.0	2,598.8	-862.2	2,680.5	0.00	0.00	0.00
13,200.0	90.00	359.80	10,525.0	2,698.8	-862.6	2,779.8	0.00	0.00	0.00
13,300.0	90.00	359.80	10,525.0	2,798.8	-862.9	2,879.2	0.00	0.00	0.00
13,400.0	90.00	359.80	10,525.0	2,898.8	-863.3	2,978.6	0.00	0.00	0.00
13,500.0	90.00	359.80	10,525.0	2,998.8	-863.6	3,078.0	0.00	0.00	0.00
13,600.0	90.00	359.80	10,525.0	3,098.8	-864.0	3,177.4	0.00	0.00	0.00
13,700.0	90.00	359.80	10,525.0	3,198.8	-864.3	3,276.8	0.00	0.00	0.00
13,800.0	90.00	359.80	10,525.0	3,298.8	-864.7	3,376.1	0.00	0.00	0.00
13,900.0	90.00	359.80	10,525.0	3,398.8	-865.1	3,475.5	0.00	0.00	0.00
14,000.0	90.00	359.80	10,525.0	3,498.8	-865.4	3,574.9	0.00	0.00	0.00
14,100.0	90.00	359.80	10,525.0	3,598.8	-865.8	3,674.3	0.00	0.00	0.00
14,200.0	90.00	359.80	10,525.0	3,698.8	-866.1	3,773.7	0.00	0.00	0.00
14,300.0	90.00	359.80	10,525.0	3,798.8	-866.5	3,873.0	0.00	0.00	0.00
14,400.0	90.00	359.80	10,525.0	3,898.8	-866.8	3,972.4	0.00	0.00	0.00
14,500.0	90.00	359.80	10,525.0	3,998.8	-867.2	4,071.8	0.00	0.00	0.00
14,600.0	90.00	359.80	10,525.0	4,098.8	-867.5	4,171.2	0.00	0.00	0.00
14,700.0	90.00	359.80	10,525.0	4,198.8	-867.9	4,270.6	0.00	0.00	0.00
14,800.0	90.00	359.80	10,525.0	4,298.8	-868.2	4,369.9	0.00	0.00	0.00
14,900.0	90.00	359.80	10,525.0	4,398.8	-868.6	4,469.3	0.00	0.00	0.00
15,000.0	90.00	359.80	10,525.0	4,498.8	-868.9	4,568.7	0.00	0.00	0.00
15,100.0	90.00	359.80	10,525.0	4,598.8	-869.3	4,668.1	0.00	0.00	0.00
15,200.0	90.00	359.80	10,525.0	4,698.8	-869.6	4,767.5	0.00	0.00	0.00
15,300.0	90.00	359.80	10,525.0	4,798.8	-870.0	4,866.8	0.00	0.00	0.00
15,400.0	90.00	359.80	10,525.0	4,898.8	-870.3	4,966.2	0.00	0.00	0.00
15,500.0	90.00	359.80	10,525.0	4,998.8	-870.7	5,065.6	0.00	0.00	0.00
15,600.0	90.00	359.80	10,525.0	5,098.8	-871.1	5,165.0	0.00	0.00	0.00
15,700.0	90.00	359.80	10,525.0	5,198.8	-871.4	5,264.4	0.00	0.00	0.00
15,800.0	90.00	359.80	10,525.0	5,298.8	-871.8	5,363.8	0.00	0.00	0.00
15,900.0	90.00	359.80	10,525.0	5,398.8	-872.1	5,463.1	0.00	0.00	0.00
16,000.0	90.00	359.80	10,525.0	5,498.8	-872.5	5,562.5	0.00	0.00	0.00
16,100.0	90.00	359.80	10,525.0	5,598.8	-872.8	5,661.9	0.00	0.00	0.00
16,200.0	90.00	359.80	10,525.0	5,698.8	-873.2	5,761.3	0.00	0.00	0.00
16,300.0	90.00	359.80	10,525.0	5,798.8	-873.5	5,860.7	0.00	0.00	0.00
16,400.0	90.00	359.80	10,525.0	5,898.8	-873.9	5,960.0	0.00	0.00	0.00
16,500.0	90.00	359.80	10,525.0	5,998.8	-874.2	6,059.4	0.00	0.00	0.00
16,600.0	90.00	359.80	10,525.0	6,098.8	-874.6	6,158.8	0.00	0.00	0.00
16,700.0	90.00	359.80	10,525.0	6,198.8	-874.9	6,258.2	0.00	0.00	0.00
16,800.0	90.00	359.80	10,525.0	6,298.8	-875.3	6,357.6	0.00	0.00	0.00
16,900.0	90.00	359.80	10,525.0	6,398.8	-875.6	6,456.9	0.00	0.00	0.00
17,000.0	90.00	359.80	10,525.0	6,498.8	-876.0	6,556.3	0.00	0.00	0.00
17,100.0	90.00	359.80	10,525.0	6,598.8	-876.3	6,655.7	0.00	0.00	0.00
17,200.0	90.00	359.80	10,525.0	6,698.8	-876.7	6,755.1	0.00	0.00	0.00
17,300.0	90.00	359.80	10,525.0	6,798.8	-877.0	6,854.5	0.00	0.00	0.00
17,400.0	90.00	359.80	10,525.0	6,898.8	-877.4	6,953.9	0.00	0.00	0.00
17,500.0	90.00	359.80	10,525.0	6,998.8	-877.8	7,053.2	0.00	0.00	0.00
17,600.0	90.00	359.80	10,525.0	7,098.7	-878.1	7,152.6	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #503H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3669.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3669.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

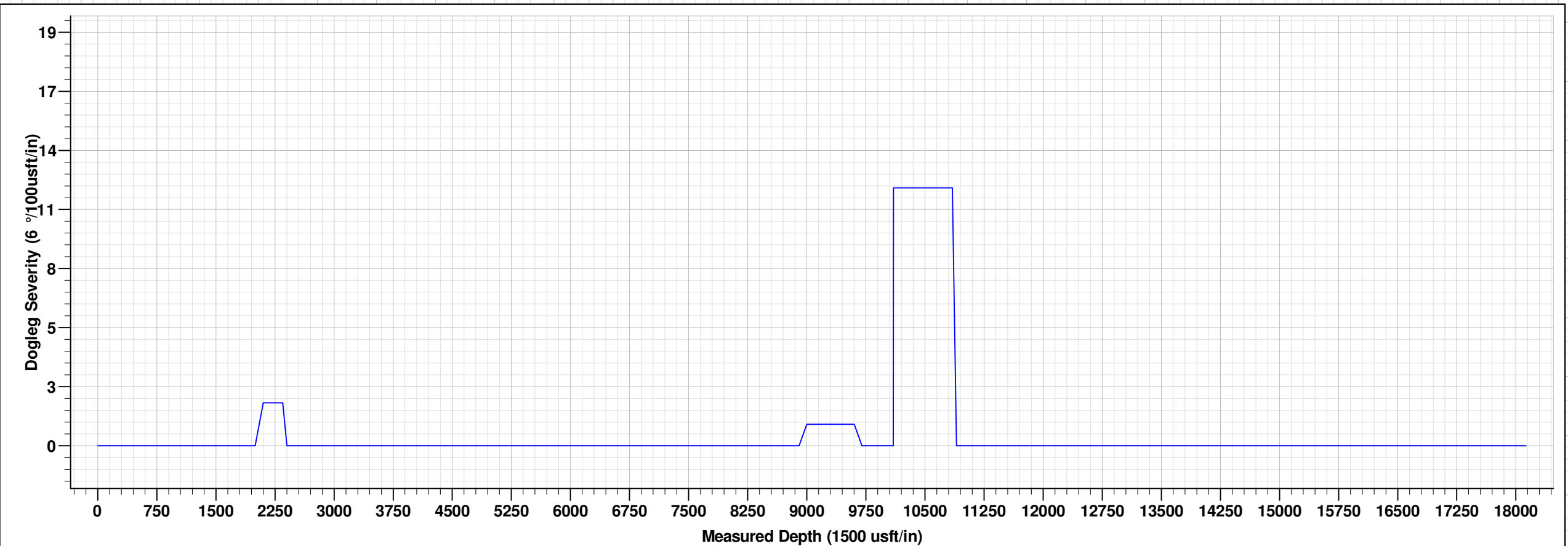
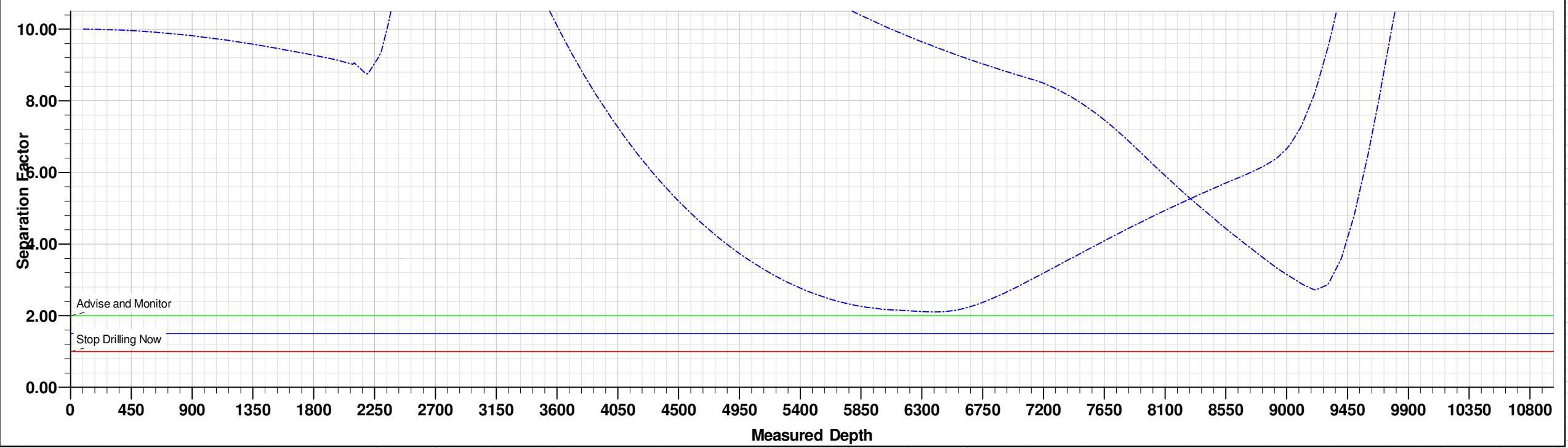
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,700.0	90.00	359.80	10,525.0	7,198.7	-878.5	7,252.0	0.00	0.00	0.00
17,800.0	90.00	359.80	10,525.0	7,298.7	-878.8	7,351.4	0.00	0.00	0.00
17,900.0	90.00	359.80	10,525.0	7,398.7	-879.2	7,450.8	0.00	0.00	0.00
18,000.0	90.00	359.80	10,525.0	7,498.7	-879.5	7,550.1	0.00	0.00	0.00
18,079.6	90.00	359.80	10,525.0	7,578.3	-879.8	7,629.2	0.00	0.00	0.00
Start 50.0 hold at 18079.6 MD									
18,100.0	90.00	359.80	10,525.0	7,598.7	-879.9	7,649.5	0.00	0.00	0.00
18,129.6	90.00	359.80	10,525.0	7,628.3	-880.0	7,678.9	0.00	0.00	0.00
TD at 18129.6									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
FTP (GIN AND TECTON	0.00	0.00	10,525.0	-129.7	-852.6	451,404.80	697,439.00	32° 14' 21.895 N	103° 41' 41.148 W
- plan misses target center by 197.8usft at 10475.0usft MD (10385.9 TVD, 10.9 N, -853.1 E)									
- Circle (radius 50.0)									
LTP (GIN AND TECTON	0.00	0.00	10,525.0	7,578.3	-879.8	459,112.80	697,411.80	32° 15' 38.173 N	103° 41' 40.931 W
- plan hits target center									
- Point									
PBHL (GIN AND TECTC	0.00	179.80	10,525.0	7,628.3	-880.0	459,162.80	697,411.60	32° 15' 38.668 N	103° 41' 40.930 W
- plan hits target center									
- Rectangle (sides W100.0 H7,875.0 D20.0)									

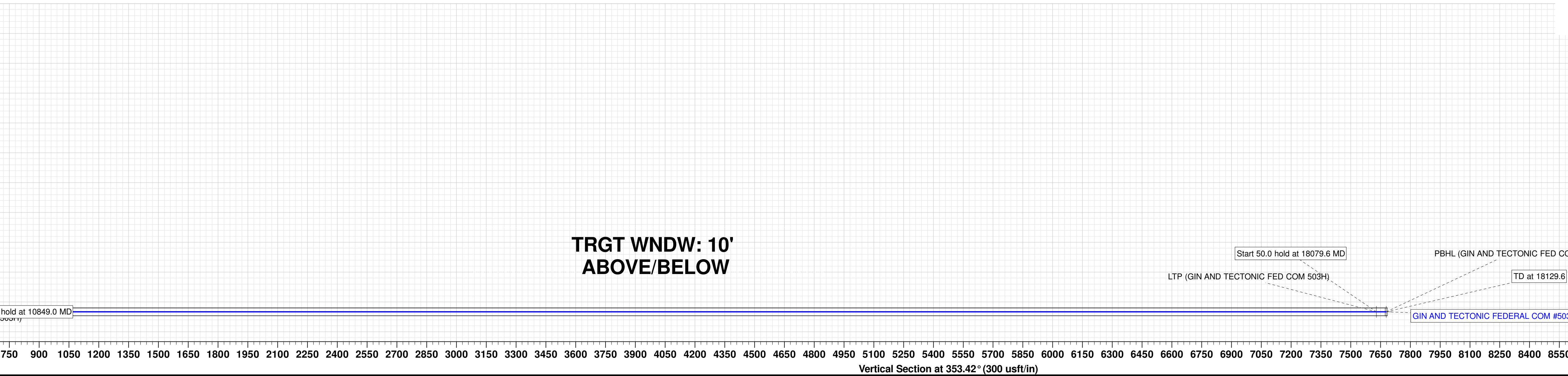
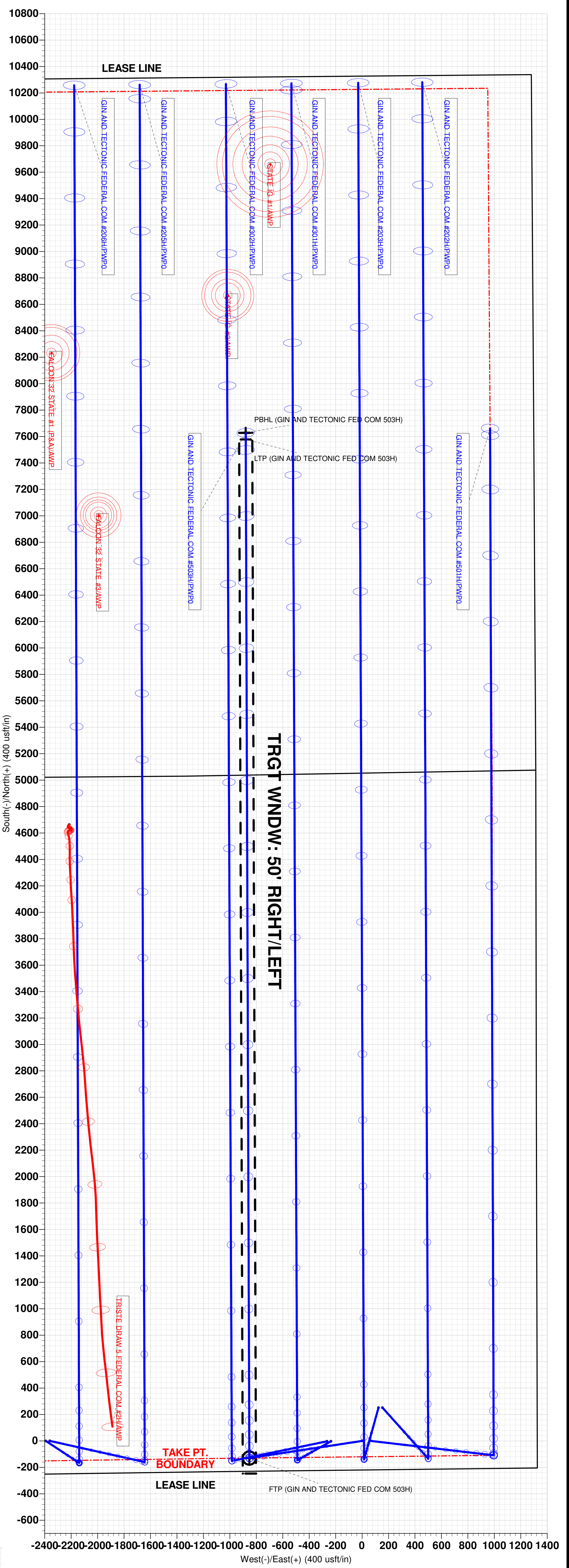
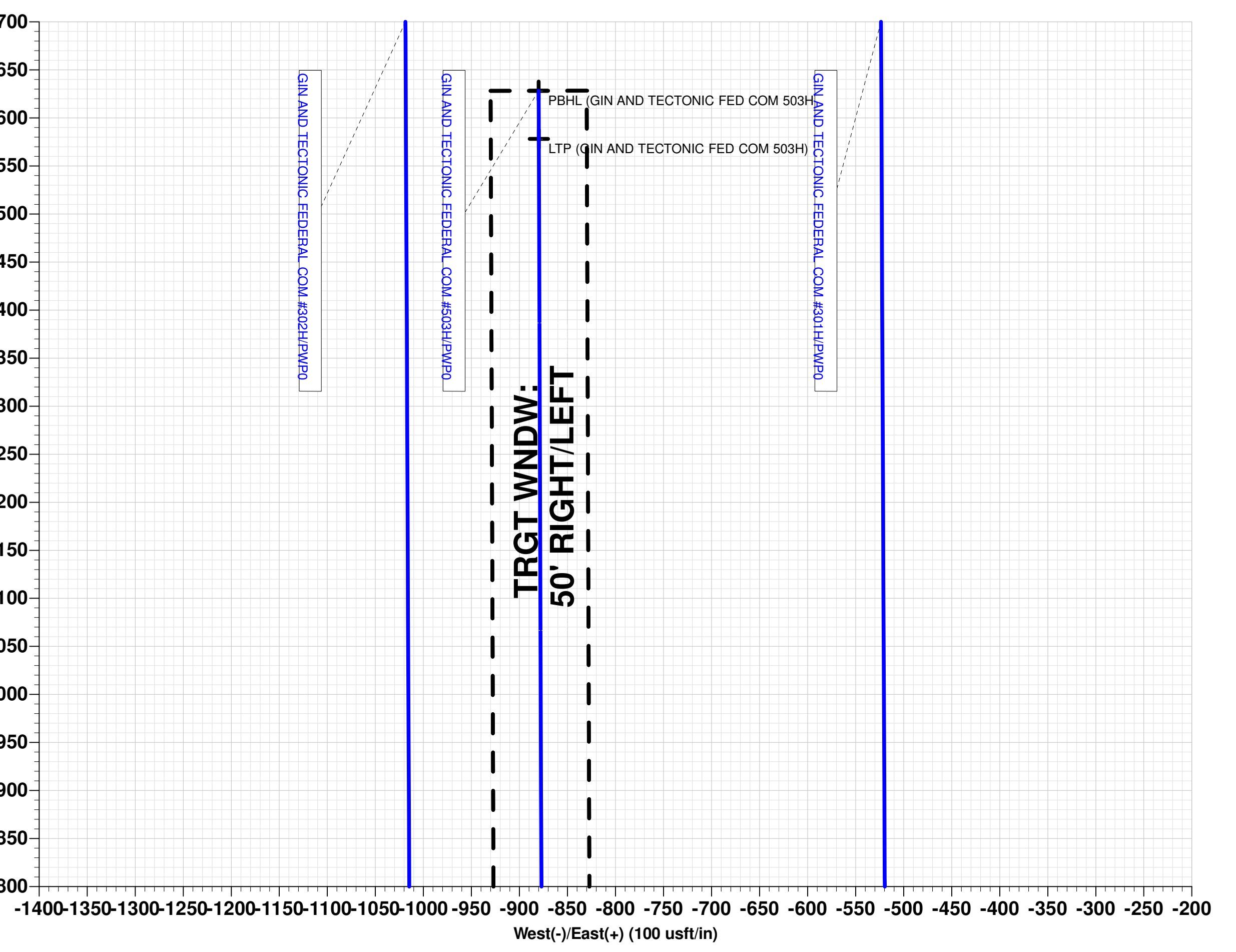
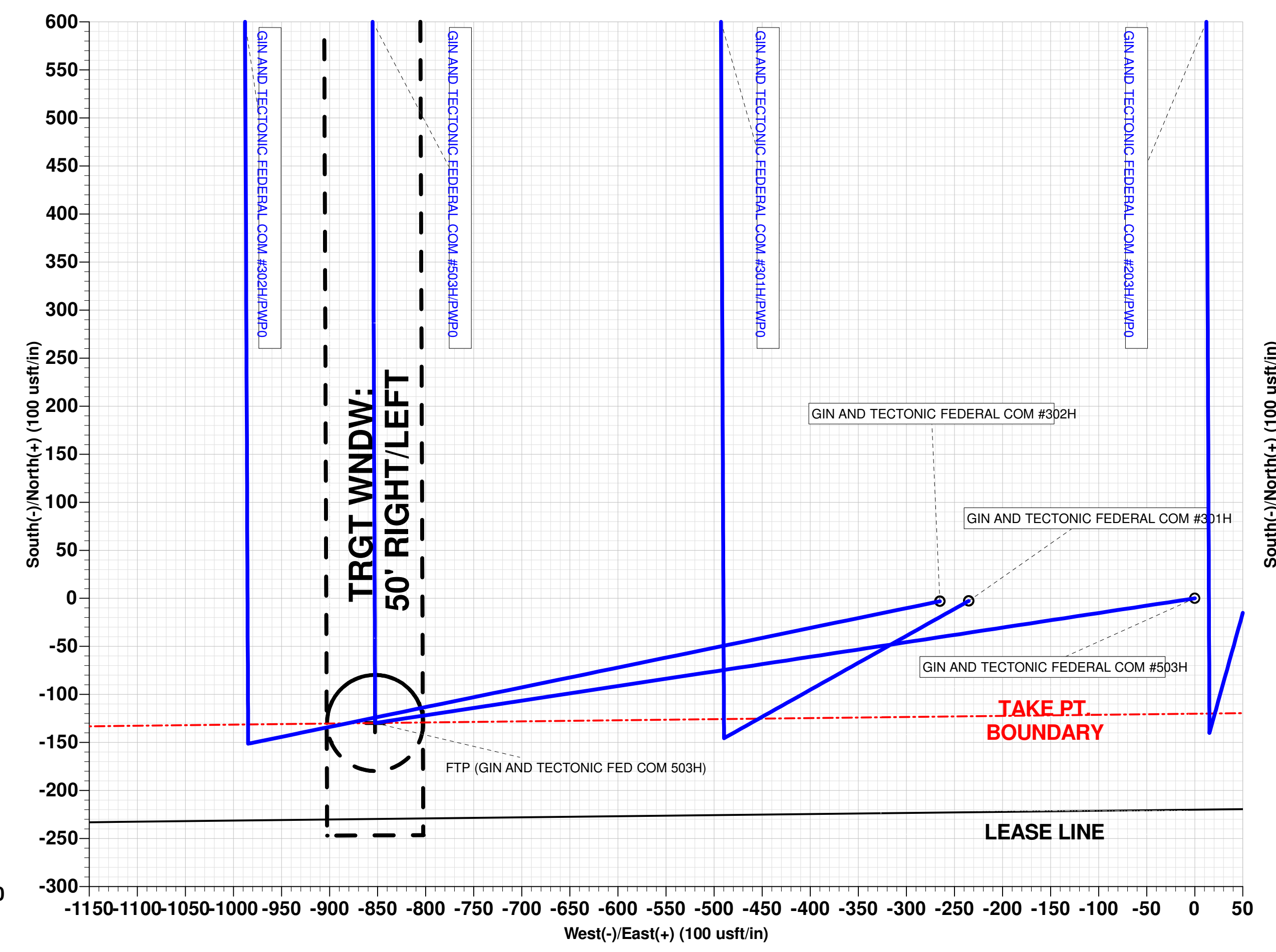
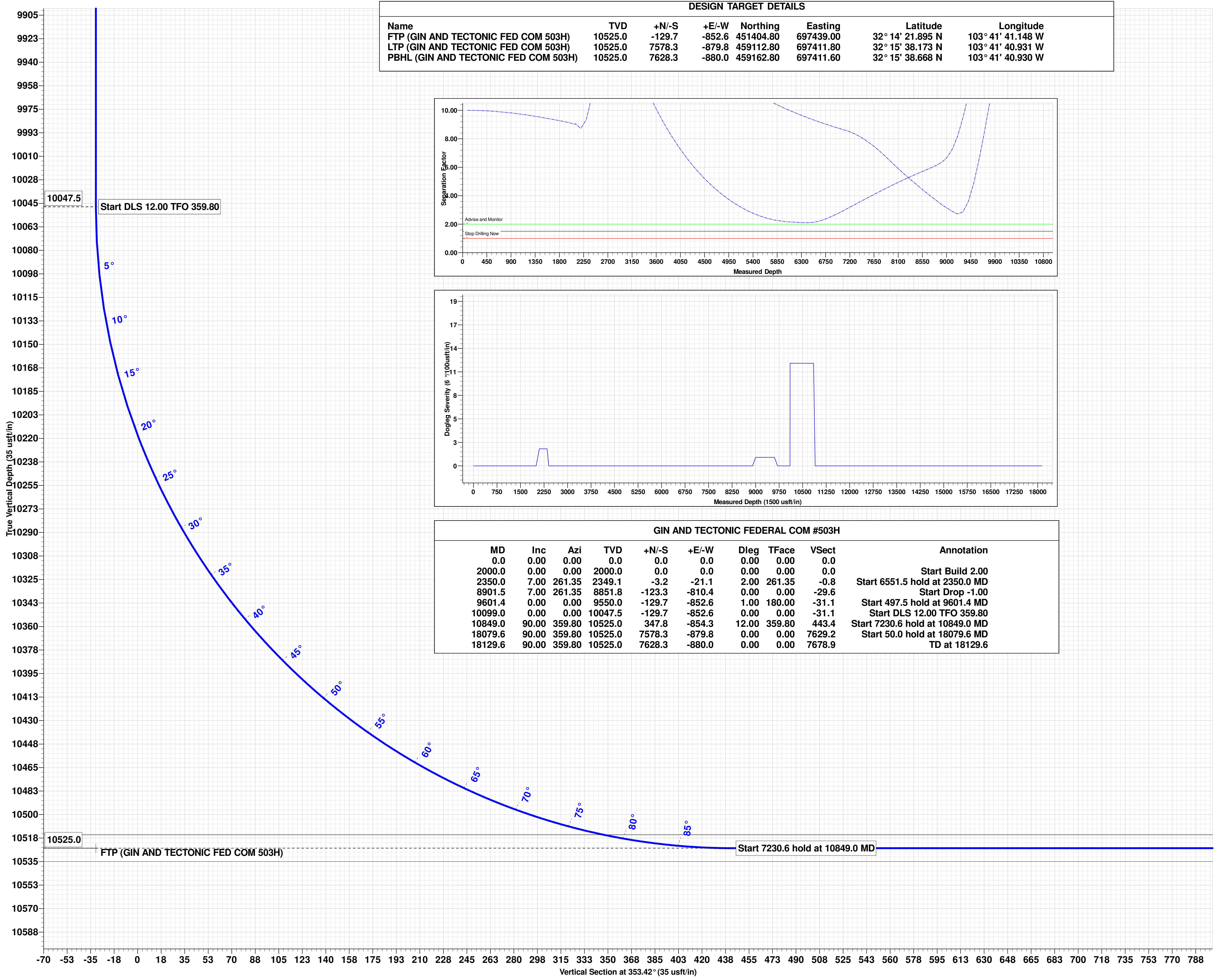
Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.0	2,000.0	0.0	0.0	Start Build 2.00
2,350.0	2,349.1	-3.2	-21.1	Start 6551.5 hold at 2350.0 MD
8,901.5	8,851.8	-123.3	-810.4	Start Drop -1.00
9,601.4	9,550.0	-129.7	-852.6	Start 497.5 hold at 9601.4 MD
10,099.0	10,047.5	-129.7	-852.6	Start DLS 12.00 TFO 359.80
10,849.0	10,525.0	347.8	-854.3	Start 7230.6 hold at 10849.0 MD
18,079.6	10,525.0	7,578.3	-879.8	Start 50.0 hold at 18079.6 MD
18,129.6	10,525.0	7,628.3	-880.0	TD at 18129.6

WELL DETAILS: GIN AND TECTONIC FEDERAL COM #503H				
+N-S	+E-W	Northing	Easting	Latitude
0.0	0.0	451534.50	698291.60	32° 14' 23.128 N
				103° 41' 31.212 W

DESIGN TARGET DETAILS						
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude
FTP (GIN AND TECTONIC FED COM 503H)	10525.0	-129.7	-852.6	451404.80	697439.00	32° 14' 21.895 N
LTP (GIN AND TECTONIC FED COM 503H)	10525.0	7578.3	-879.8	459112.80	697411.80	32° 15' 38.173 N
PBHL (GIN AND TECTONIC FED COM 503H)	10525.0	7628.3	-880.0	459162.80	697411.60	32° 15' 38.668 N



GIN AND TECTONIC FEDERAL COM #503H									
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2350.0	7.00	261.35	2349.1	-3.2	-21.1	2.00	261.35	-0.8	Start 6551.5 hold at 2350.0 MD
8901.5	7.00	261.35	8851.3	-123.3	-810.4	0.00	0.00	-29.6	Start Drop -1.00
9601.4	0.00	0.00	9550.0	-129.7	-852.6	1.00	180.00	-31.1	Start 497.5 hold at 9601.4 MD
10099.0	0.00	0.00	10047.5	-129.7	-852.6	0.00	0.00	-31.1	Start DLS 12.00 TFO 359.80
10849.0	90.00	359.80	10525.0	347.8	-854.3	12.00	359.80	443.4	Start 7230.6 hold at 10849.0 MD
18079.6	90.00	359.80	10525.0	7578.3	-879.8	0.00	0.00	7629.2	Start 50.0 hold at 18079.6 MD
18129.6	90.00	359.80	10525.0	7628.3	-880.0	0.00	0.00	7678.9	TD at 18129.6



TRGT WNDW: 10°
ABOVE/BELOW

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 30-025-48430	Pool Code 96229	Pool Name Mesa Verde; Bone Spring
Property Code 329961	Property Name GIN AND TECTONIC FEDERAL COM	Well Number 503H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3639.8'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	5	24-S	32-E		220	SOUTH	1325	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	32	23-S	32-E		2590	SOUTH	2178	EAST	LEA
Dedicated Acres 479.13	Joint or Infill	Consolidation Code	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

NAD 83 NME <u>PROPOSED BOTTOM HOLE LOCATION</u> Y=459222.0 N X=738595.3 E LAT.=32.260864° N LONG.=103.695186° W <table border="1"> <thead> <tr> <th colspan="2">POINT LEGEND</th> </tr> </thead> <tbody> <tr><td>1</td><td>Y=461909.3 N X=738118.6 E</td></tr> <tr><td>2</td><td>Y=456623.7 N X=738148.9 E</td></tr> <tr><td>3</td><td>Y=451358.5 N X=738151.9 E</td></tr> <tr><td>4</td><td>Y=451388.6 N X=740801.1 E</td></tr> <tr><td>5</td><td>Y=454029.5 N X=740793.8 E</td></tr> <tr><td>6</td><td>Y=456670.1 N X=740788.6 E</td></tr> <tr><td>7</td><td>Y=459290.7 N X=740773.0 E</td></tr> <tr><td>8</td><td>Y=461932.2 N X=740755.1 E</td></tr> </tbody> </table> NAD 83 NME <u>SURFACE LOCATION</u> Y=451593.5 N X=739475.5 E LAT.=32.239881° N LONG.=103.692485° W	POINT LEGEND		1	Y=461909.3 N X=738118.6 E	2	Y=456623.7 N X=738148.9 E	3	Y=451358.5 N X=738151.9 E	4	Y=451388.6 N X=740801.1 E	5	Y=454029.5 N X=740793.8 E	6	Y=456670.1 N X=740788.6 E	7	Y=459290.7 N X=740773.0 E	8	Y=461932.2 N X=740755.1 E	2540' FSL & 2178' FEL Y=459172.0 N X=738595.5 E LAT.=32.260727° N LONG.=103.695186° W 2178' 2590' B.H. LEASE X-ING LAT.=32.253744° N LONG.=103.695206° W SECTION 32 SECTION 5 LOT 4 LOT 3 LOT 2 LOT 1 39.57 Ac 39.32 Ac 39.51 Ac 39.64 Ac GRID AZ. - 359°47'47" - 77°58.2" 100' FSL & 2178' FEL Y=451463.8 N X=738622.9 E LAT.=32.239539° N LONG.=103.695246° W GRID AZ. TO FTP 261°21'09" S.L. 1325' 220'	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <u>Mayte Reyes</u> 5/17/2022 Signature Date <u>Mayte Reyes</u> Printed Name <u>mayte.x.reyes@cop.com</u> E-mail Address SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. MAY 8, 2020 Date of Survey Signature & Seal of Professional Surveyor Chad L. Harcrow 5/5/22 Certificate No. CHAD HARCROW 17777 W.O. # 22-245 DRAWN BY: WN
POINT LEGEND																				
1	Y=461909.3 N X=738118.6 E																			
2	Y=456623.7 N X=738148.9 E																			
3	Y=451358.5 N X=738151.9 E																			
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7	Y=459290.7 N X=740773.0 E																			
8	Y=461932.2 N X=740755.1 E																			

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)

GIN AND TECTONIC FEDERAL COM #503H

300254843000

OWB

Plan: PWP0

Standard Planning Report

24 May, 2022

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #503H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3669.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3669.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #503H	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	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)		
Site Position:		Northing:	451,256.78 usft
From:	Map	Easting:	694,311.87 usft
Position Uncertainty:	3.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 14' 20.613 N
		Longitude:	103° 42' 17.566 W
		Grid Convergence:	0.34 °

Well	GIN AND TECTONIC FEDERAL COM #503H		
Well Position	+N/-S	277.7 usft	Northing:
	+E/-W	3,979.7 usft	Easting:
Position Uncertainty	3.0 usft	Wellhead Elevation:	
		Latitude:	32° 14' 23.128 N
		Longitude:	103° 41' 31.212 W
		Ground Level:	3,639.8 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	5/1/2022	6.53	59.88	47,612.70146701

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	353.42

Plan Survey Tool Program		Date	5/24/2022		
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	10,099.0 PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-St	
3	10,099.0	18,129.6 PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-St	

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Well:	GIN AND TECTONIC FEDERAL COM #503H	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	
2,350.0	7.00	261.35	2,349.1	-3.2	-21.1	2.00	2.00	0.00	261.35	
8,901.5	7.00	261.35	8,851.8	-123.3	-810.4	0.00	0.00	0.00	0.00	
9,601.4	0.00	0.00	9,550.0	-129.7	-852.6	1.00	-1.00	0.00	180.00	
10,099.0	0.00	0.00	10,047.5	-129.7	-852.6	0.00	0.00	0.00	0.00	
10,849.0	90.00	359.80	10,525.0	347.8	-854.3	12.00	12.00	-0.03	359.80	
18,079.6	90.00	359.80	10,525.0	7,578.3	-879.8	0.00	0.00	0.00	0.00	LTP (GIN AND TECTO
18,129.6	90.00	359.80	10,525.0	7,628.3	-880.0	0.00	0.00	0.00	0.00	PBHL (GIN AND TEC

ConocoPhillips

Planning Report

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Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3669.8usft
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Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #503H	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	261.35	2,100.0	-0.3	-1.7	-0.1	2.00	2.00	0.00
2,200.0	4.00	261.35	2,199.8	-1.0	-6.9	-0.3	2.00	2.00	0.00
2,300.0	6.00	261.35	2,299.5	-2.4	-15.5	-0.6	2.00	2.00	0.00
2,350.0	7.00	261.35	2,349.1	-3.2	-21.1	-0.8	2.00	2.00	0.00
Start 6551.5 hold at 2350.0 MD									
2,400.0	7.00	261.35	2,398.8	-4.1	-27.1	-1.0	0.00	0.00	0.00
2,500.0	7.00	261.35	2,498.0	-6.0	-39.2	-1.4	0.00	0.00	0.00
2,600.0	7.00	261.35	2,597.3	-7.8	-51.2	-1.9	0.00	0.00	0.00
2,700.0	7.00	261.35	2,696.5	-9.6	-63.3	-2.3	0.00	0.00	0.00
2,800.0	7.00	261.35	2,795.8	-11.5	-75.3	-2.8	0.00	0.00	0.00
2,900.0	7.00	261.35	2,895.0	-13.3	-87.4	-3.2	0.00	0.00	0.00
3,000.0	7.00	261.35	2,994.3	-15.1	-99.4	-3.6	0.00	0.00	0.00
3,100.0	7.00	261.35	3,093.5	-17.0	-111.5	-4.1	0.00	0.00	0.00
3,200.0	7.00	261.35	3,192.8	-18.8	-123.5	-4.5	0.00	0.00	0.00
3,300.0	7.00	261.35	3,292.1	-20.6	-135.6	-5.0	0.00	0.00	0.00
3,400.0	7.00	261.35	3,391.3	-22.5	-147.6	-5.4	0.00	0.00	0.00
3,500.0	7.00	261.35	3,490.6	-24.3	-159.7	-5.8	0.00	0.00	0.00
3,600.0	7.00	261.35	3,589.8	-26.1	-171.7	-6.3	0.00	0.00	0.00
3,700.0	7.00	261.35	3,689.1	-28.0	-183.7	-6.7	0.00	0.00	0.00
3,800.0	7.00	261.35	3,788.3	-29.8	-195.8	-7.2	0.00	0.00	0.00
3,900.0	7.00	261.35	3,887.6	-31.6	-207.8	-7.6	0.00	0.00	0.00
4,000.0	7.00	261.35	3,986.8	-33.5	-219.9	-8.0	0.00	0.00	0.00
4,100.0	7.00	261.35	4,086.1	-35.3	-231.9	-8.5	0.00	0.00	0.00
4,200.0	7.00	261.35	4,185.3	-37.1	-244.0	-8.9	0.00	0.00	0.00
4,300.0	7.00	261.35	4,284.6	-38.9	-256.0	-9.4	0.00	0.00	0.00
4,400.0	7.00	261.35	4,383.9	-40.8	-268.1	-9.8	0.00	0.00	0.00
4,500.0	7.00	261.35	4,483.1	-42.6	-280.1	-10.2	0.00	0.00	0.00
4,600.0	7.00	261.35	4,582.4	-44.4	-292.2	-10.7	0.00	0.00	0.00
4,700.0	7.00	261.35	4,681.6	-46.3	-304.2	-11.1	0.00	0.00	0.00
4,800.0	7.00	261.35	4,780.9	-48.1	-316.3	-11.6	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #503H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3669.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3669.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #503H	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)
4,900.0	7.00	261.35	4,880.1	-49.9	-328.3	-12.0	0.00	0.00	0.00
5,000.0	7.00	261.35	4,979.4	-51.8	-340.4	-12.4	0.00	0.00	0.00
5,100.0	7.00	261.35	5,078.6	-53.6	-352.4	-12.9	0.00	0.00	0.00
5,200.0	7.00	261.35	5,177.9	-55.4	-364.5	-13.3	0.00	0.00	0.00
5,300.0	7.00	261.35	5,277.1	-57.3	-376.5	-13.8	0.00	0.00	0.00
5,400.0	7.00	261.35	5,376.4	-59.1	-388.6	-14.2	0.00	0.00	0.00
5,500.0	7.00	261.35	5,475.7	-60.9	-400.6	-14.6	0.00	0.00	0.00
5,600.0	7.00	261.35	5,574.9	-62.8	-412.6	-15.1	0.00	0.00	0.00
5,700.0	7.00	261.35	5,674.2	-64.6	-424.7	-15.5	0.00	0.00	0.00
5,800.0	7.00	261.35	5,773.4	-66.4	-436.7	-16.0	0.00	0.00	0.00
5,900.0	7.00	261.35	5,872.7	-68.3	-448.8	-16.4	0.00	0.00	0.00
6,000.0	7.00	261.35	5,971.9	-70.1	-460.8	-16.8	0.00	0.00	0.00
6,100.0	7.00	261.35	6,071.2	-71.9	-472.9	-17.3	0.00	0.00	0.00
6,200.0	7.00	261.35	6,170.4	-73.8	-484.9	-17.7	0.00	0.00	0.00
6,300.0	7.00	261.35	6,269.7	-75.6	-497.0	-18.2	0.00	0.00	0.00
6,400.0	7.00	261.35	6,368.9	-77.4	-509.0	-18.6	0.00	0.00	0.00
6,500.0	7.00	261.35	6,468.2	-79.3	-521.1	-19.0	0.00	0.00	0.00
6,600.0	7.00	261.35	6,567.5	-81.1	-533.1	-19.5	0.00	0.00	0.00
6,700.0	7.00	261.35	6,666.7	-82.9	-545.2	-19.9	0.00	0.00	0.00
6,800.0	7.00	261.35	6,766.0	-84.8	-557.2	-20.3	0.00	0.00	0.00
6,900.0	7.00	261.35	6,865.2	-86.6	-569.3	-20.8	0.00	0.00	0.00
7,000.0	7.00	261.35	6,964.5	-88.4	-581.3	-21.2	0.00	0.00	0.00
7,100.0	7.00	261.35	7,063.7	-90.3	-593.4	-21.7	0.00	0.00	0.00
7,200.0	7.00	261.35	7,163.0	-92.1	-605.4	-22.1	0.00	0.00	0.00
7,300.0	7.00	261.35	7,262.2	-93.9	-617.4	-22.5	0.00	0.00	0.00
7,400.0	7.00	261.35	7,361.5	-95.8	-629.5	-23.0	0.00	0.00	0.00
7,500.0	7.00	261.35	7,460.7	-97.6	-641.5	-23.4	0.00	0.00	0.00
7,600.0	7.00	261.35	7,560.0	-99.4	-653.6	-23.9	0.00	0.00	0.00
7,700.0	7.00	261.35	7,659.3	-101.3	-665.6	-24.3	0.00	0.00	0.00
7,800.0	7.00	261.35	7,758.5	-103.1	-677.7	-24.7	0.00	0.00	0.00
7,900.0	7.00	261.35	7,857.8	-104.9	-689.7	-25.2	0.00	0.00	0.00
8,000.0	7.00	261.35	7,957.0	-106.8	-701.8	-25.6	0.00	0.00	0.00
8,100.0	7.00	261.35	8,056.3	-108.6	-713.8	-26.1	0.00	0.00	0.00
8,200.0	7.00	261.35	8,155.5	-110.4	-725.9	-26.5	0.00	0.00	0.00
8,300.0	7.00	261.35	8,254.8	-112.3	-737.9	-26.9	0.00	0.00	0.00
8,400.0	7.00	261.35	8,354.0	-114.1	-750.0	-27.4	0.00	0.00	0.00
8,500.0	7.00	261.35	8,453.3	-115.9	-762.0	-27.8	0.00	0.00	0.00
8,600.0	7.00	261.35	8,552.6	-117.8	-774.1	-28.3	0.00	0.00	0.00
8,700.0	7.00	261.35	8,651.8	-119.6	-786.1	-28.7	0.00	0.00	0.00
8,800.0	7.00	261.35	8,751.1	-121.4	-798.2	-29.1	0.00	0.00	0.00
8,901.5	7.00	261.35	8,851.8	-123.3	-810.4	-29.6	0.00	0.00	0.00
Start Drop -1.00									
9,000.0	6.01	261.35	8,949.7	-125.0	-821.4	-30.0	1.00	-1.00	0.00
9,100.0	5.01	261.35	9,049.2	-126.4	-830.9	-30.3	1.00	-1.00	0.00
9,200.0	4.01	261.35	9,148.9	-127.6	-838.7	-30.6	1.00	-1.00	0.00
9,300.0	3.01	261.35	9,248.7	-128.5	-844.8	-30.9	1.00	-1.00	0.00
9,400.0	2.01	261.35	9,348.6	-129.2	-849.1	-31.0	1.00	-1.00	0.00
9,500.0	1.01	261.35	9,448.6	-129.6	-851.7	-31.1	1.00	-1.00	0.00
9,601.4	0.00	0.00	9,550.0	-129.7	-852.6	-31.1	1.00	-1.00	0.00
Start 497.5 hold at 9601.4 MD									
9,700.0	0.00	0.00	9,648.6	-129.7	-852.6	-31.1	0.00	0.00	0.00
9,800.0	0.00	0.00	9,748.6	-129.7	-852.6	-31.1	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #503H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3669.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3669.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #503H	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)
9,900.0	0.00	0.00	9,848.6	-129.7	-852.6	-31.1	0.00	0.00	0.00
10,000.0	0.00	0.00	9,948.6	-129.7	-852.6	-31.1	0.00	0.00	0.00
10,099.0	0.00	0.00	10,047.5	-129.7	-852.6	-31.1	0.00	0.00	0.00
Start DLS 12.00 TFO 359.80									
10,100.0	0.12	359.80	10,048.6	-129.7	-852.6	-31.1	12.00	12.00	0.00
10,125.0	3.12	359.80	10,073.6	-129.0	-852.6	-30.4	12.00	12.00	0.00
10,150.0	6.12	359.80	10,098.5	-127.0	-852.6	-28.4	12.00	12.00	0.00
10,175.0	9.12	359.80	10,123.2	-123.7	-852.6	-25.1	12.00	12.00	0.00
10,200.0	12.12	359.80	10,147.8	-119.1	-852.6	-20.6	12.00	12.00	0.00
10,225.0	15.12	359.80	10,172.1	-113.2	-852.7	-14.7	12.00	12.00	0.00
10,250.0	18.12	359.80	10,196.1	-106.0	-852.7	-7.6	12.00	12.00	0.00
10,275.0	21.12	359.80	10,219.6	-97.6	-852.7	0.7	12.00	12.00	0.00
10,300.0	24.12	359.80	10,242.7	-88.0	-852.7	10.3	12.00	12.00	0.00
10,325.0	27.12	359.80	10,265.2	-77.2	-852.8	21.0	12.00	12.00	0.00
10,350.0	30.12	359.80	10,287.2	-65.2	-852.8	32.9	12.00	12.00	0.00
10,375.0	33.12	359.80	10,308.4	-52.1	-852.9	46.0	12.00	12.00	0.00
10,400.0	36.12	359.80	10,329.0	-37.9	-852.9	60.1	12.00	12.00	0.00
10,425.0	39.12	359.80	10,348.8	-22.6	-853.0	75.3	12.00	12.00	0.00
10,450.0	42.12	359.80	10,367.8	-6.4	-853.0	91.4	12.00	12.00	0.00
10,475.0	45.12	359.80	10,385.9	10.9	-853.1	108.6	12.00	12.00	0.00
10,500.0	48.12	359.80	10,403.0	29.0	-853.2	126.6	12.00	12.00	0.00
10,525.0	51.12	359.80	10,419.2	48.1	-853.2	145.5	12.00	12.00	0.00
10,550.0	54.12	359.80	10,434.4	68.0	-853.3	165.3	12.00	12.00	0.00
10,575.0	57.12	359.80	10,448.5	88.6	-853.4	185.8	12.00	12.00	0.00
10,600.0	60.12	359.80	10,461.5	109.9	-853.4	207.0	12.00	12.00	0.00
10,625.0	63.12	359.80	10,473.4	131.9	-853.5	228.9	12.00	12.00	0.00
10,650.0	66.12	359.80	10,484.1	154.5	-853.6	251.3	12.00	12.00	0.00
10,675.0	69.12	359.80	10,493.7	177.6	-853.7	274.3	12.00	12.00	0.00
10,700.0	72.12	359.80	10,501.9	201.2	-853.8	297.7	12.00	12.00	0.00
10,725.0	75.12	359.80	10,509.0	225.2	-853.9	321.5	12.00	12.00	0.00
10,750.0	78.12	359.80	10,514.8	249.5	-853.9	345.7	12.00	12.00	0.00
10,775.0	81.12	359.80	10,519.3	274.1	-854.0	370.2	12.00	12.00	0.00
10,800.0	84.12	359.80	10,522.5	298.9	-854.1	394.8	12.00	12.00	0.00
10,825.0	87.12	359.80	10,524.4	323.8	-854.2	419.6	12.00	12.00	0.00
10,849.0	90.00	359.80	10,525.0	347.8	-854.3	443.4	12.00	12.00	0.00
Start 7230.6 hold at 10849.0 MD									
10,900.0	90.00	359.80	10,525.0	398.8	-854.5	494.1	0.00	0.00	0.00
11,000.0	90.00	359.80	10,525.0	498.8	-854.8	593.5	0.00	0.00	0.00
11,100.0	90.00	359.80	10,525.0	598.8	-855.2	692.8	0.00	0.00	0.00
11,200.0	90.00	359.80	10,525.0	698.8	-855.5	792.2	0.00	0.00	0.00
11,300.0	90.00	359.80	10,525.0	798.8	-855.9	891.6	0.00	0.00	0.00
11,400.0	90.00	359.80	10,525.0	898.8	-856.2	991.0	0.00	0.00	0.00
11,500.0	90.00	359.80	10,525.0	998.8	-856.6	1,090.4	0.00	0.00	0.00
11,600.0	90.00	359.80	10,525.0	1,098.8	-856.9	1,189.8	0.00	0.00	0.00
11,700.0	90.00	359.80	10,525.0	1,198.8	-857.3	1,289.1	0.00	0.00	0.00
11,800.0	90.00	359.80	10,525.0	1,298.8	-857.6	1,388.5	0.00	0.00	0.00
11,900.0	90.00	359.80	10,525.0	1,398.8	-858.0	1,487.9	0.00	0.00	0.00
12,000.0	90.00	359.80	10,525.0	1,498.8	-858.3	1,587.3	0.00	0.00	0.00
12,100.0	90.00	359.80	10,525.0	1,598.8	-858.7	1,686.7	0.00	0.00	0.00
12,200.0	90.00	359.80	10,525.0	1,698.8	-859.1	1,786.0	0.00	0.00	0.00
12,300.0	90.00	359.80	10,525.0	1,798.8	-859.4	1,885.4	0.00	0.00	0.00
12,400.0	90.00	359.80	10,525.0	1,898.8	-859.8	1,984.8	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #503H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3669.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3669.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #503H	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)
12,500.0	90.00	359.80	10,525.0	1,998.8	-860.1	2,084.2	0.00	0.00	0.00
12,600.0	90.00	359.80	10,525.0	2,098.8	-860.5	2,183.6	0.00	0.00	0.00
12,700.0	90.00	359.80	10,525.0	2,198.8	-860.8	2,282.9	0.00	0.00	0.00
12,800.0	90.00	359.80	10,525.0	2,298.8	-861.2	2,382.3	0.00	0.00	0.00
12,900.0	90.00	359.80	10,525.0	2,398.8	-861.5	2,481.7	0.00	0.00	0.00
13,000.0	90.00	359.80	10,525.0	2,498.8	-861.9	2,581.1	0.00	0.00	0.00
13,100.0	90.00	359.80	10,525.0	2,598.8	-862.2	2,680.5	0.00	0.00	0.00
13,200.0	90.00	359.80	10,525.0	2,698.8	-862.6	2,779.8	0.00	0.00	0.00
13,300.0	90.00	359.80	10,525.0	2,798.8	-862.9	2,879.2	0.00	0.00	0.00
13,400.0	90.00	359.80	10,525.0	2,898.8	-863.3	2,978.6	0.00	0.00	0.00
13,500.0	90.00	359.80	10,525.0	2,998.8	-863.6	3,078.0	0.00	0.00	0.00
13,600.0	90.00	359.80	10,525.0	3,098.8	-864.0	3,177.4	0.00	0.00	0.00
13,700.0	90.00	359.80	10,525.0	3,198.8	-864.3	3,276.8	0.00	0.00	0.00
13,800.0	90.00	359.80	10,525.0	3,298.8	-864.7	3,376.1	0.00	0.00	0.00
13,900.0	90.00	359.80	10,525.0	3,398.8	-865.1	3,475.5	0.00	0.00	0.00
14,000.0	90.00	359.80	10,525.0	3,498.8	-865.4	3,574.9	0.00	0.00	0.00
14,100.0	90.00	359.80	10,525.0	3,598.8	-865.8	3,674.3	0.00	0.00	0.00
14,200.0	90.00	359.80	10,525.0	3,698.8	-866.1	3,773.7	0.00	0.00	0.00
14,300.0	90.00	359.80	10,525.0	3,798.8	-866.5	3,873.0	0.00	0.00	0.00
14,400.0	90.00	359.80	10,525.0	3,898.8	-866.8	3,972.4	0.00	0.00	0.00
14,500.0	90.00	359.80	10,525.0	3,998.8	-867.2	4,071.8	0.00	0.00	0.00
14,600.0	90.00	359.80	10,525.0	4,098.8	-867.5	4,171.2	0.00	0.00	0.00
14,700.0	90.00	359.80	10,525.0	4,198.8	-867.9	4,270.6	0.00	0.00	0.00
14,800.0	90.00	359.80	10,525.0	4,298.8	-868.2	4,369.9	0.00	0.00	0.00
14,900.0	90.00	359.80	10,525.0	4,398.8	-868.6	4,469.3	0.00	0.00	0.00
15,000.0	90.00	359.80	10,525.0	4,498.8	-868.9	4,568.7	0.00	0.00	0.00
15,100.0	90.00	359.80	10,525.0	4,598.8	-869.3	4,668.1	0.00	0.00	0.00
15,200.0	90.00	359.80	10,525.0	4,698.8	-869.6	4,767.5	0.00	0.00	0.00
15,300.0	90.00	359.80	10,525.0	4,798.8	-870.0	4,866.8	0.00	0.00	0.00
15,400.0	90.00	359.80	10,525.0	4,898.8	-870.3	4,966.2	0.00	0.00	0.00
15,500.0	90.00	359.80	10,525.0	4,998.8	-870.7	5,065.6	0.00	0.00	0.00
15,600.0	90.00	359.80	10,525.0	5,098.8	-871.1	5,165.0	0.00	0.00	0.00
15,700.0	90.00	359.80	10,525.0	5,198.8	-871.4	5,264.4	0.00	0.00	0.00
15,800.0	90.00	359.80	10,525.0	5,298.8	-871.8	5,363.8	0.00	0.00	0.00
15,900.0	90.00	359.80	10,525.0	5,398.8	-872.1	5,463.1	0.00	0.00	0.00
16,000.0	90.00	359.80	10,525.0	5,498.8	-872.5	5,562.5	0.00	0.00	0.00
16,100.0	90.00	359.80	10,525.0	5,598.8	-872.8	5,661.9	0.00	0.00	0.00
16,200.0	90.00	359.80	10,525.0	5,698.8	-873.2	5,761.3	0.00	0.00	0.00
16,300.0	90.00	359.80	10,525.0	5,798.8	-873.5	5,860.7	0.00	0.00	0.00
16,400.0	90.00	359.80	10,525.0	5,898.8	-873.9	5,960.0	0.00	0.00	0.00
16,500.0	90.00	359.80	10,525.0	5,998.8	-874.2	6,059.4	0.00	0.00	0.00
16,600.0	90.00	359.80	10,525.0	6,098.8	-874.6	6,158.8	0.00	0.00	0.00
16,700.0	90.00	359.80	10,525.0	6,198.8	-874.9	6,258.2	0.00	0.00	0.00
16,800.0	90.00	359.80	10,525.0	6,298.8	-875.3	6,357.6	0.00	0.00	0.00
16,900.0	90.00	359.80	10,525.0	6,398.8	-875.6	6,456.9	0.00	0.00	0.00
17,000.0	90.00	359.80	10,525.0	6,498.8	-876.0	6,556.3	0.00	0.00	0.00
17,100.0	90.00	359.80	10,525.0	6,598.8	-876.3	6,655.7	0.00	0.00	0.00
17,200.0	90.00	359.80	10,525.0	6,698.8	-876.7	6,755.1	0.00	0.00	0.00
17,300.0	90.00	359.80	10,525.0	6,798.8	-877.0	6,854.5	0.00	0.00	0.00
17,400.0	90.00	359.80	10,525.0	6,898.8	-877.4	6,953.9	0.00	0.00	0.00
17,500.0	90.00	359.80	10,525.0	6,998.8	-877.8	7,053.2	0.00	0.00	0.00
17,600.0	90.00	359.80	10,525.0	7,098.7	-878.1	7,152.6	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #503H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3669.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3669.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #503H	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)
17,700.0	90.00	359.80	10,525.0	7,198.7	-878.5	7,252.0	0.00	0.00	0.00
17,800.0	90.00	359.80	10,525.0	7,298.7	-878.8	7,351.4	0.00	0.00	0.00
17,900.0	90.00	359.80	10,525.0	7,398.7	-879.2	7,450.8	0.00	0.00	0.00
18,000.0	90.00	359.80	10,525.0	7,498.7	-879.5	7,550.1	0.00	0.00	0.00
18,079.6	90.00	359.80	10,525.0	7,578.3	-879.8	7,629.2	0.00	0.00	0.00
Start 50.0 hold at 18079.6 MD									
18,100.0	90.00	359.80	10,525.0	7,598.7	-879.9	7,649.5	0.00	0.00	0.00
18,129.6	90.00	359.80	10,525.0	7,628.3	-880.0	7,678.9	0.00	0.00	0.00
TD at 18129.6									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
FTP (GIN AND TECTON	0.00	0.00	10,525.0	-129.7	-852.6	451,404.80	697,439.00	32° 14' 21.895 N	103° 41' 41.148 W
- plan misses target center by 197.8usft at 10475.0usft MD (10385.9 TVD, 10.9 N, -853.1 E)									
- Circle (radius 50.0)									
LTP (GIN AND TECTON	0.00	0.00	10,525.0	7,578.3	-879.8	459,112.80	697,411.80	32° 15' 38.173 N	103° 41' 40.931 W
- plan hits target center									
- Point									
PBHL (GIN AND TECTC	0.00	179.80	10,525.0	7,628.3	-880.0	459,162.80	697,411.60	32° 15' 38.668 N	103° 41' 40.930 W
- plan hits target center									
- Rectangle (sides W100.0 H7,875.0 D20.0)									

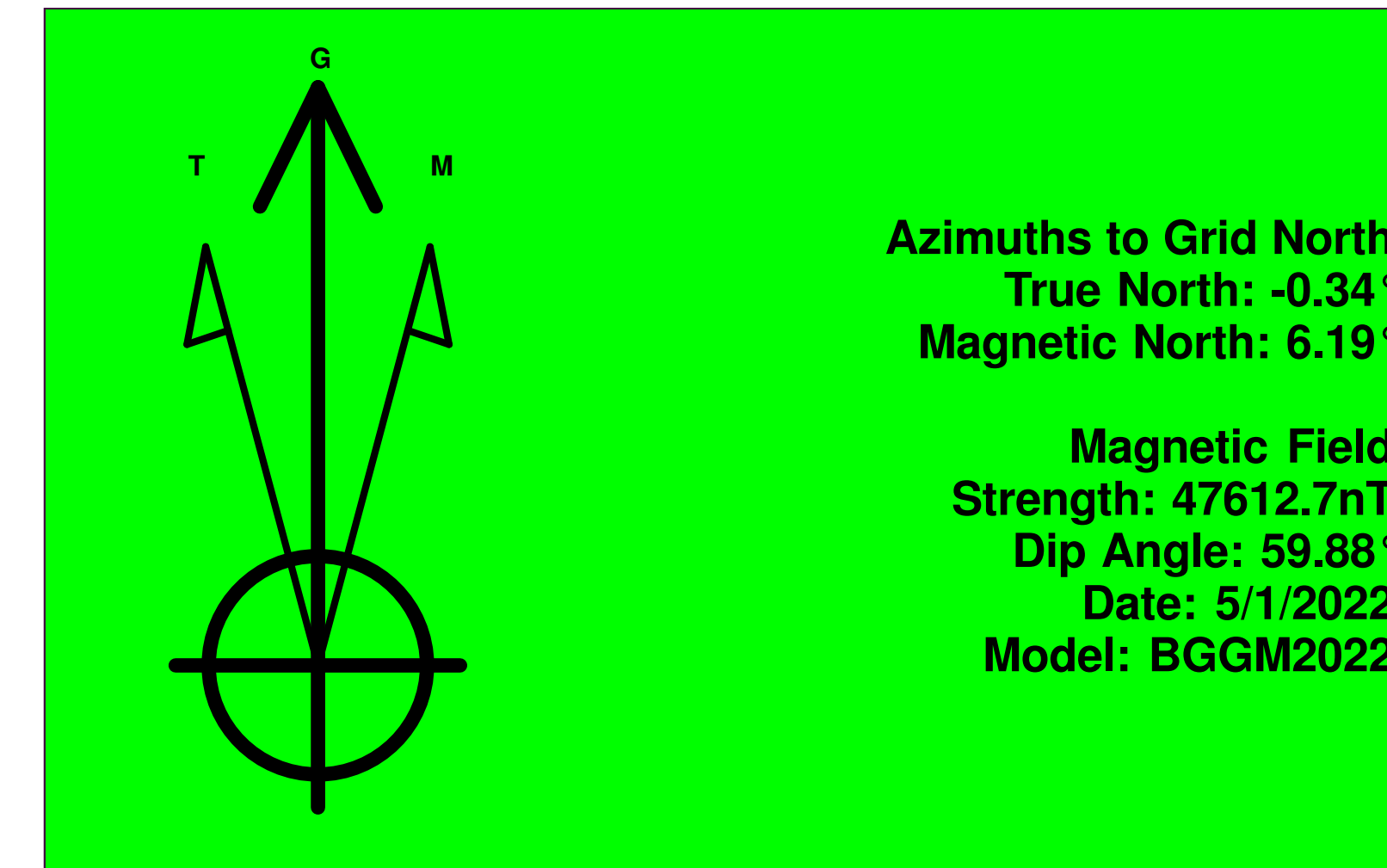
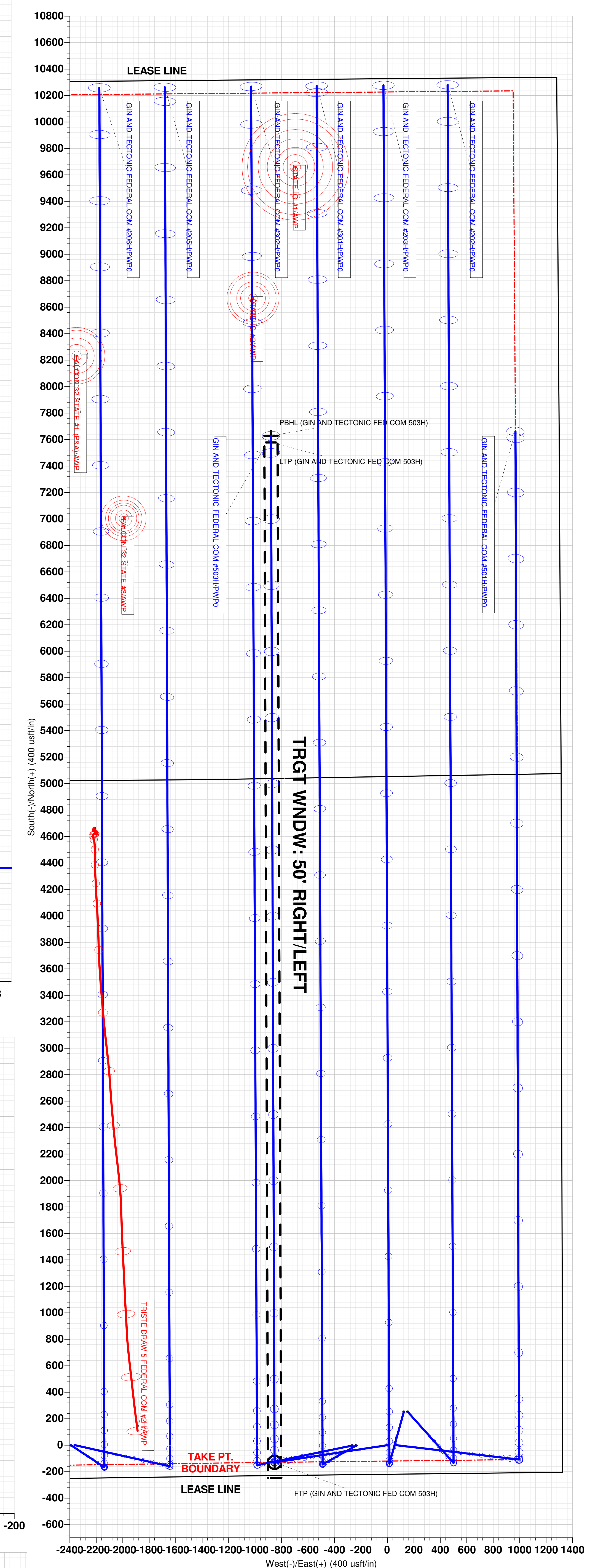
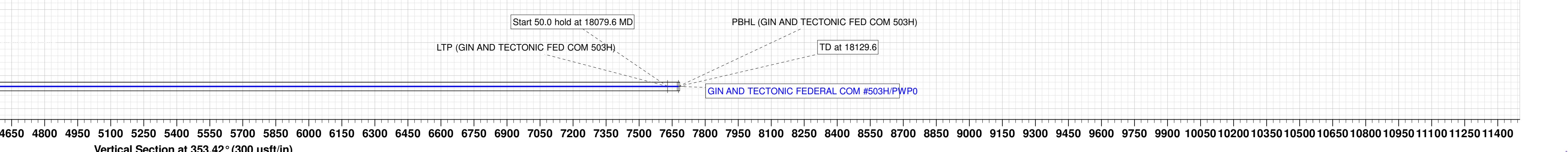
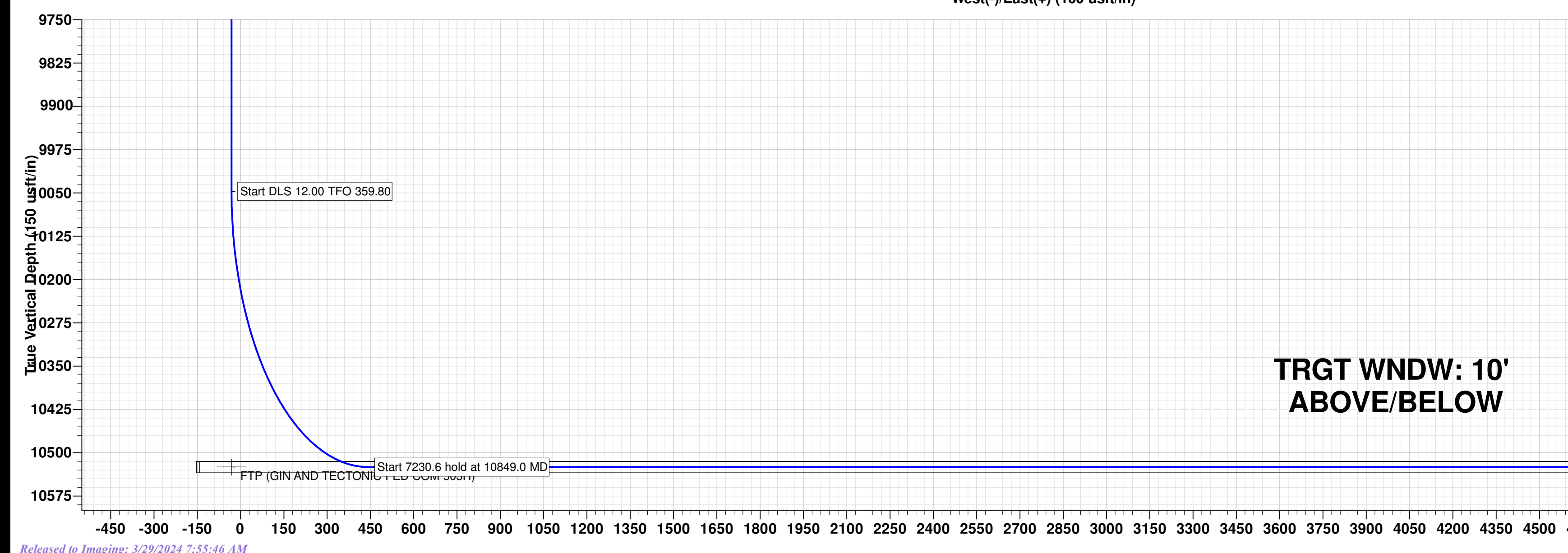
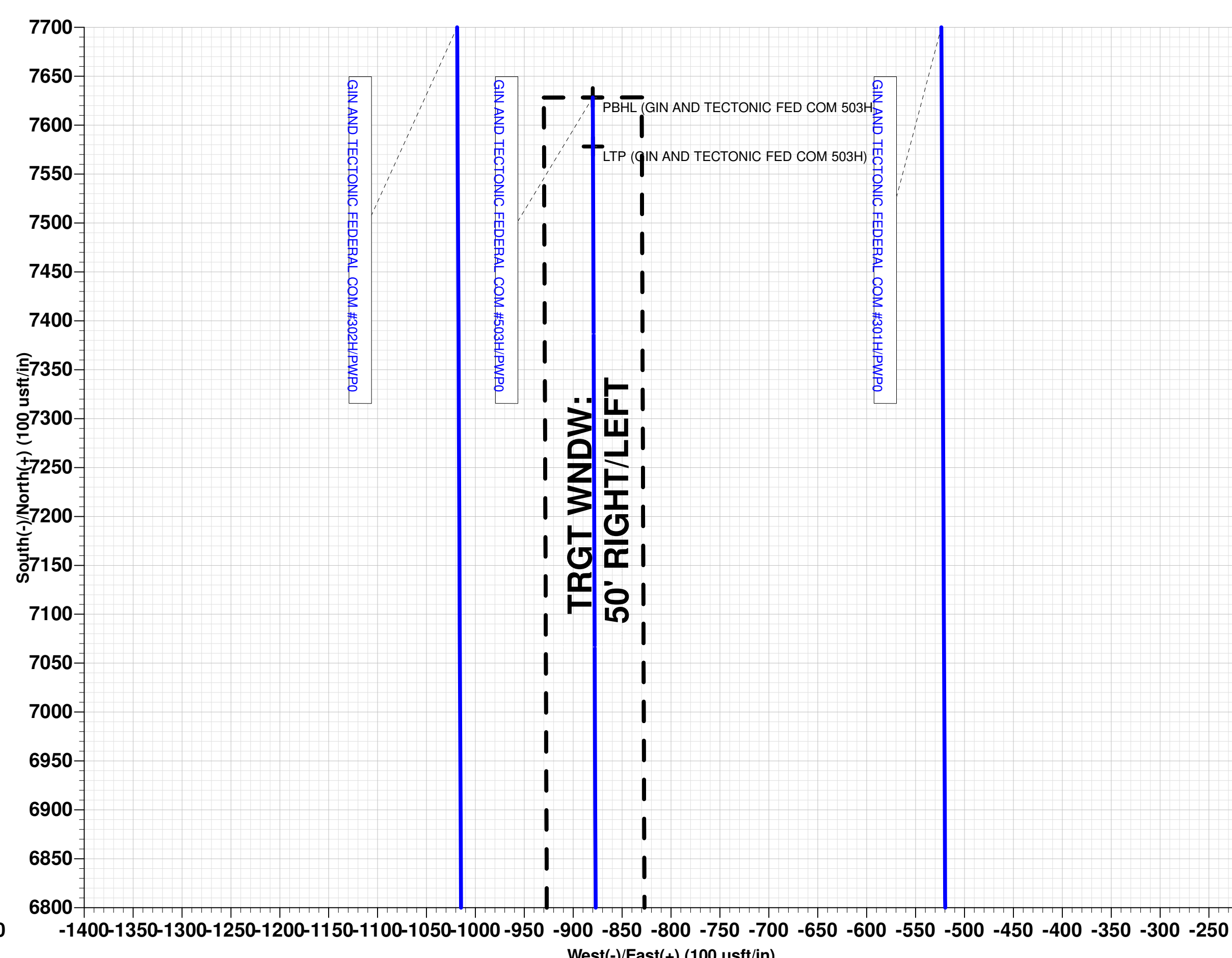
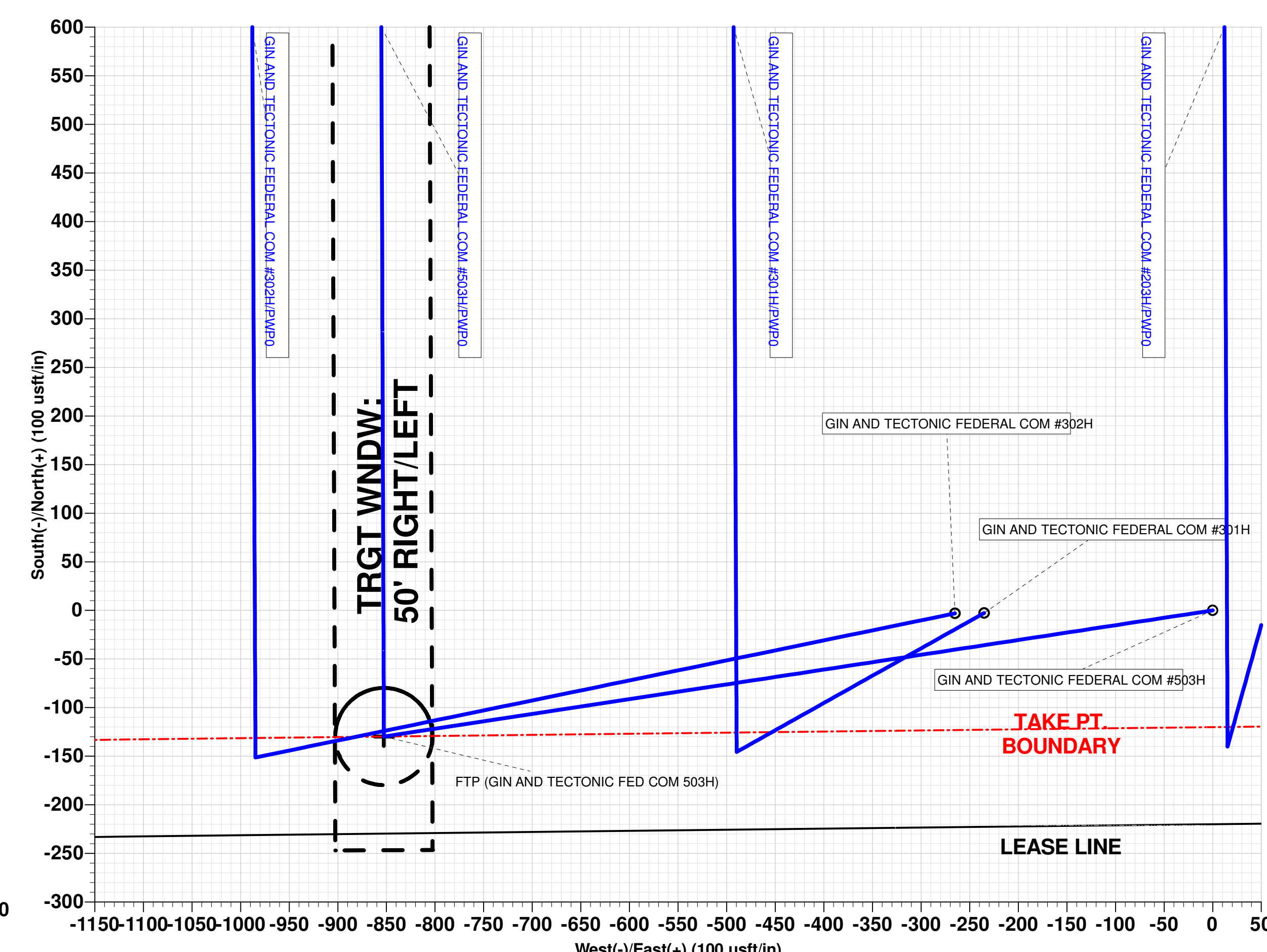
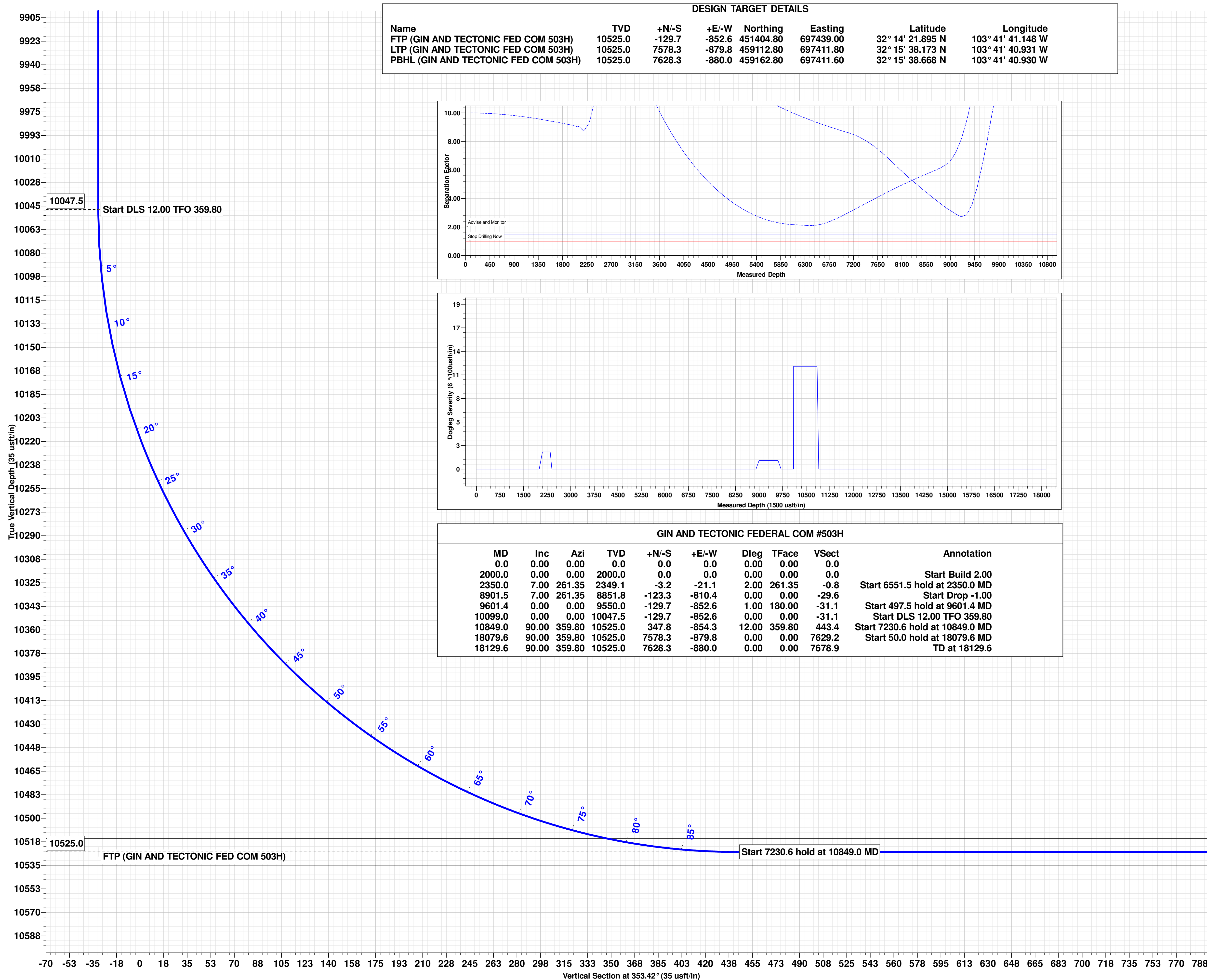
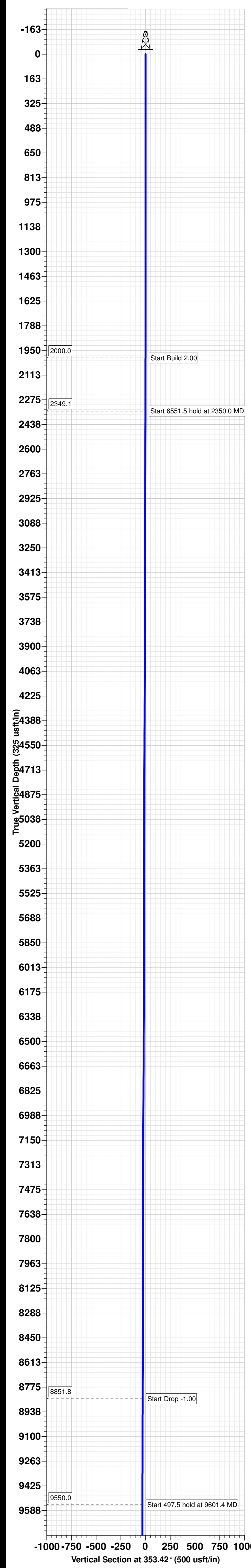
Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.0	2,000.0	0.0	0.0	Start Build 2.00
2,350.0	2,349.1	-3.2	-21.1	Start 6551.5 hold at 2350.0 MD
8,901.5	8,851.8	-123.3	-810.4	Start Drop -1.00
9,601.4	9,550.0	-129.7	-852.6	Start 497.5 hold at 9601.4 MD
10,099.0	10,047.5	-129.7	-852.6	Start DLS 12.00 TFO 359.80
10,849.0	10,525.0	347.8	-854.3	Start 7230.6 hold at 10849.0 MD
18,079.6	10,525.0	7,578.3	-879.8	Start 50.0 hold at 18079.6 MD
18,129.6	10,525.0	7,628.3	-880.0	TD at 18129.6



Project: BULLDOG PROSPECT (NM-E)
 Site: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)
 Well: GIN AND TECTONIC FEDERAL COM #503H
 Wellbore: OWB
 Design: PWP0
 GL: 3639.8
 KB=30' @ 3669.8usft

WELL DETAILS: GIN AND TECTONIC FEDERAL COM #503H						
	N/S	E/W	Northing	Easting	Latitude	Longitude
	0.0	0.0	451534.50	698291.60	32° 14' 23.128 N	103° 41' 31.212 W

DESIGN TARGET DETAILS						
Name	TVD	+N-S	+E-W	Northing	Eastong	Latitude Longitude
FTP (GIN AND TECTONIC FED COM 503H)	10525.0	-129.7	-852.6	451404.80	697439.00	32° 14' 21.895 N 103° 41' 41.148 W
LTP (GIN AND TECTONIC FED COM 503H)	10525.0	7578.3	-879.8	459112.80	697411.80	32° 15' 38.173 N 103° 41' 40.931 W
PBHL (GIN AND TECTONIC FED COM 503H)	10525.0	7628.3	-880.0	459162.80	697411.60	32° 15' 38.668 N 103° 41' 40.930 W



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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 326970

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 326970
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	3/29/2024