

Well Name: DOUBLE ABJ 16 FED COM	Well Location: T24S / R32E / SEC 16 / SESE / 32.2113928 / -103.6743795	County or Parish/State: LEA / NM
Well Number: 702H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM55953	Unit or CA Name:	Unit or CA Number:
US Well Number: 00	Well Status: Approved Application for Permit to Drill	Operator: COG OPERATING LLC

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Other
Date Sundry Submitted: 05/25/2021	Time Sundry Submitted: 01:32
Date proposed operation will begin: 05/24/2021	
Procedure Description: COG Operating LLC requests an amendment to our approved APD for this well to reflect a change in BHL. New BHL is 50' FNL & 1080' FEL NENE - 9-24S-32E Lea County. Revised C-102 and directional plan attached.	

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

DOUBLE_ABJ_16_FED_COM_702H_PWP1_AC_RPT_20210525125453.pdf

DOUBLE_ABJ_16_FED_COM_702H_PWP1_WPlot_20210525125453.pdf

Double_ABJ_16_Federal_Com_702H_C_102_5_24_21_20210525125453.pdf

DOUBLE_ABJ_16_FED_COM_702H_PWP1_SVY_RPT_20210525125453.pdf

Received by OCD: 7/12/2021 2:35:50 PM

Well Name: DOUBLE ABJ 16 FED COM

Well Number: 702H

Lease Number: NMNM55953

US Well Number: 00

Well Location: T24S / R32E / SEC 16 / SESE / 32.2113928 / -103.6743795

Type of Well: OIL WELL

Unit or CA Name:

Well Status: Approved Application for Permit to Drill

County or Parish/State: LEA / NM

Allottee or Tribe Name:

Unit or CA Number:

Operator: COG OPERATING LLC

Operator Certification

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 submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: STAN WAGNER
Signed on: MAY 25, 2021 01:32 PM
Name: COG OPERATING LLC
Title: Regulatory Advisor
Street Address: 600 WEST ILLINOIS AVE
City: MIDLAND State: TX
Phone: (432) 253-9685
Email address: STAN.S.WAGNER@CONOCOPHILLIPS.COM

Field Representative

Representative Name:
Street Address:
City: State: Zip:
Phone:
Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS
BLM POC Phone: 5752342234
Disposition: Approved
Signature: Chris Walls
BLM POC Title: Petroleum Engineer
BLM POC Email Address: cwalls@blm.gov
Disposition Date: 07/12/2021

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

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

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

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-47168	Pool Code 98248	Pool Name WC-025 G-08 S243217P; Wolfcamp
Property Code 328130	Property Name DOUBLE ABJ 16 FEDERAL COM	Well Number 702H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3579.4'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	16	24-S	32-E		403	SOUTH	1027	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
A	9	24-S	32-E		50	NORTH	1080	EAST	LEA
Dedicated Acres 640	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=451368.5 N X=745026.7 E LAT.=32.239171° N LONG.=103.674537° W <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th colspan="2">POINT LEGEND</th> </tr> </thead> <tbody> <tr><td>1</td><td>Y=451424.8 N X=746106.3 E</td></tr> <tr><td>2</td><td>Y=448786.6 N X=746123.1 E</td></tr> <tr><td>3</td><td>Y=446147.4 N X=746141.9 E</td></tr> <tr><td>4</td><td>Y=443506.8 N X=746153.1 E</td></tr> <tr><td>5</td><td>Y=440867.4 N X=746166.7 E</td></tr> <tr><td>6</td><td>Y=440846.0 N X=743517.5 E</td></tr> <tr><td>7</td><td>Y=446127.1 N X=743491.0 E</td></tr> <tr><td>8</td><td>Y=451409.3 N X=743455.5 E</td></tr> </tbody> </table> NAD 83 NME <u>SURFACE LOCATION</u> Y=441262.1 N X=745137.6 E LAT.=32.211389° N LONG.=103.674378° W	POINT LEGEND		1	Y=451424.8 N X=746106.3 E	2	Y=448786.6 N X=746123.1 E	3	Y=446147.4 N X=746141.9 E	4	Y=443506.8 N X=746153.1 E	5	Y=440867.4 N X=746166.7 E	6	Y=440846.0 N X=743517.5 E	7	Y=446127.1 N X=743491.0 E	8	Y=451409.3 N X=743455.5 E	LTP 100' FNL & 1080' FEL Y=451318.5 N X=745026.9 E LAT.=32.239033° N LONG.=103.674537° W LEASE X-ING LAT.=32.232052° N LONG.=103.674540° W LEASE X-ING LAT.=32.224796° N LONG.=103.674550° W ETP 100' FSL & 1080' FEL Y=440958.7 N X=745086.2 E LAT.=32.210556° N LONG.=103.674550° W GRID AZ. TO ETP 189° 36' 36"	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> 5-24-21 Signature _____ Date _____ Stan Wagner Printed Name _____ 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> FEBRUARY 19, 2021 Date of Survey Signature & Seal of Professional Surveyor 4/6/21 Certificate No. CHAD HARGROW 17777 W.O. # 21-137 DRAWN BY: DS
POINT LEGEND																				
1	Y=451424.8 N X=746106.3 E																			
2	Y=448786.6 N X=746123.1 E																			
3	Y=446147.4 N X=746141.9 E																			
4	Y=443506.8 N X=746153.1 E																			
5	Y=440867.4 N X=746166.7 E																			
6	Y=440846.0 N X=743517.5 E																			
7	Y=446127.1 N X=743491.0 E																			
8	Y=451409.3 N X=743455.5 E																			

DELAWARE BASIN EAST

**BULLDOG PROSPECT (NM-E)
DOUBLE ABJ FED COM PROJECT
DOUBLE ABJ 16 FED COM 702H**

OWB

Plan: PWP1

Standard Survey Report

04 May, 2021



ConocoPhillips

Survey Report



Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well DOUBLE ABJ 16 FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3609.4usft (TBD)
Site:	DOUBLE ABJ FED COM PROJECT	MD Reference:	*KB=30' @ 3609.4usft (TBD)
Well:	DOUBLE ABJ 16 FED COM 702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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		

Well	DOUBLE ABJ 16 FED COM 702H			
Well Position	+N/-S	0.0 usft	Northing:	441,203.40 usft
	+E/-W	0.0 usft	Easting:	703,953.20 usft
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft
			Ground Level:	3,579.4 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/3/2021	6.63	59.88	47,504.29203514

Design	PWP1				
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	359.37	

Survey Tool Program	Date	5/4/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	22,468.5	PWP1 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction	

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	

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well DOUBLE ABJ 16 FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3609.4usft (TBD)
Site:	DOUBLE ABJ FED COM PROJECT	MD Reference:	*KB=30' @ 3609.4usft (TBD)
Well:	DOUBLE ABJ 16 FED COM 702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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)
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
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,600.0	2.00	188.84	2,600.0	-1.7	-0.3	-1.7	2.00	2.00	0.00
2,700.0	4.00	188.84	2,699.8	-6.9	-1.1	-6.9	2.00	2.00	0.00
2,750.0	5.00	188.84	2,749.7	-10.8	-1.7	-10.8	2.00	2.00	0.00
Start 3380.0 hold at 2750.0 MD									
2,800.0	5.00	188.84	2,799.5	-15.1	-2.3	-15.1	0.00	0.00	0.00
2,900.0	5.00	188.84	2,899.1	-23.7	-3.7	-23.6	0.00	0.00	0.00
3,000.0	5.00	188.84	2,998.7	-32.3	-5.0	-32.2	0.00	0.00	0.00
3,100.0	5.00	188.84	3,098.4	-40.9	-6.4	-40.8	0.00	0.00	0.00
3,200.0	5.00	188.84	3,198.0	-49.5	-7.7	-49.4	0.00	0.00	0.00
3,300.0	5.00	188.84	3,297.6	-58.1	-9.0	-58.0	0.00	0.00	0.00
3,400.0	5.00	188.84	3,397.2	-66.8	-10.4	-66.6	0.00	0.00	0.00
3,500.0	5.00	188.84	3,496.8	-75.4	-11.7	-75.2	0.00	0.00	0.00
3,600.0	5.00	188.84	3,596.4	-84.0	-13.1	-83.8	0.00	0.00	0.00
3,700.0	5.00	188.84	3,696.1	-92.6	-14.4	-92.4	0.00	0.00	0.00
3,800.0	5.00	188.84	3,795.7	-101.2	-15.7	-101.0	0.00	0.00	0.00
3,900.0	5.00	188.84	3,895.3	-109.8	-17.1	-109.6	0.00	0.00	0.00
4,000.0	5.00	188.84	3,994.9	-118.4	-18.4	-118.2	0.00	0.00	0.00
4,100.0	5.00	188.84	4,094.5	-127.0	-19.8	-126.8	0.00	0.00	0.00
4,200.0	5.00	188.84	4,194.2	-135.6	-21.1	-135.4	0.00	0.00	0.00
4,300.0	5.00	188.84	4,293.8	-144.3	-22.4	-144.0	0.00	0.00	0.00
4,400.0	5.00	188.84	4,393.4	-152.9	-23.8	-152.6	0.00	0.00	0.00
4,500.0	5.00	188.84	4,493.0	-161.5	-25.1	-161.2	0.00	0.00	0.00
4,600.0	5.00	188.84	4,592.6	-170.1	-26.5	-169.8	0.00	0.00	0.00
4,700.0	5.00	188.84	4,692.3	-178.7	-27.8	-178.4	0.00	0.00	0.00
4,800.0	5.00	188.84	4,791.9	-187.3	-29.1	-187.0	0.00	0.00	0.00
4,900.0	5.00	188.84	4,891.5	-195.9	-30.5	-195.6	0.00	0.00	0.00
5,000.0	5.00	188.84	4,991.1	-204.5	-31.8	-204.2	0.00	0.00	0.00
5,100.0	5.00	188.84	5,090.7	-213.2	-33.1	-212.8	0.00	0.00	0.00
5,200.0	5.00	188.84	5,190.4	-221.8	-34.5	-221.4	0.00	0.00	0.00
5,300.0	5.00	188.84	5,290.0	-230.4	-35.8	-230.0	0.00	0.00	0.00
5,400.0	5.00	188.84	5,389.6	-239.0	-37.2	-238.6	0.00	0.00	0.00
5,500.0	5.00	188.84	5,489.2	-247.6	-38.5	-247.2	0.00	0.00	0.00

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well DOUBLE ABJ 16 FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3609.4usft (TBD)
Site:	DOUBLE ABJ FED COM PROJECT	MD Reference:	*KB=30' @ 3609.4usft (TBD)
Well:	DOUBLE ABJ 16 FED COM 702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,600.0	5.00	188.84	5,588.8	-256.2	-39.8	-255.8	0.00	0.00	0.00
5,700.0	5.00	188.84	5,688.5	-264.8	-41.2	-264.4	0.00	0.00	0.00
5,800.0	5.00	188.84	5,788.1	-273.4	-42.5	-273.0	0.00	0.00	0.00
5,900.0	5.00	188.84	5,887.7	-282.1	-43.9	-281.6	0.00	0.00	0.00
6,000.0	5.00	188.84	5,987.3	-290.7	-45.2	-290.2	0.00	0.00	0.00
6,100.0	5.00	188.84	6,086.9	-299.3	-46.5	-298.7	0.00	0.00	0.00
6,130.0	5.00	188.84	6,116.8	-301.9	-46.9	-301.3	0.00	0.00	0.00
Start Drop -1.00									
6,200.0	4.30	188.84	6,186.6	-307.5	-47.8	-306.9	1.00	-1.00	0.00
6,300.0	3.30	188.84	6,286.4	-314.0	-48.8	-313.5	1.00	-1.00	0.00
6,400.0	2.30	188.84	6,386.2	-318.8	-49.6	-318.3	1.00	-1.00	0.00
6,500.0	1.30	188.84	6,486.2	-321.9	-50.1	-321.4	1.00	-1.00	0.00
6,600.0	0.30	188.84	6,586.2	-323.3	-50.3	-322.8	1.00	-1.00	0.00
6,630.0	0.00	0.00	6,616.1	-323.4	-50.3	-322.8	1.00	-1.00	0.00
Start 5136.4 hold at 6630.0 MD									
6,700.0	0.00	0.00	6,686.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
6,800.0	0.00	0.00	6,786.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
6,900.0	0.00	0.00	6,886.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
7,000.0	0.00	0.00	6,986.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
7,100.0	0.00	0.00	7,086.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
7,200.0	0.00	0.00	7,186.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
7,300.0	0.00	0.00	7,286.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
7,400.0	0.00	0.00	7,386.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
7,500.0	0.00	0.00	7,486.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
7,600.0	0.00	0.00	7,586.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
7,700.0	0.00	0.00	7,686.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
7,800.0	0.00	0.00	7,786.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
7,900.0	0.00	0.00	7,886.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
8,000.0	0.00	0.00	7,986.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
8,100.0	0.00	0.00	8,086.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
8,200.0	0.00	0.00	8,186.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
8,300.0	0.00	0.00	8,286.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
8,400.0	0.00	0.00	8,386.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
8,500.0	0.00	0.00	8,486.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
8,600.0	0.00	0.00	8,586.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
8,700.0	0.00	0.00	8,686.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
8,800.0	0.00	0.00	8,786.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
8,900.0	0.00	0.00	8,886.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
9,000.0	0.00	0.00	8,986.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
9,100.0	0.00	0.00	9,086.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
9,200.0	0.00	0.00	9,186.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
9,300.0	0.00	0.00	9,286.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
9,400.0	0.00	0.00	9,386.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
9,500.0	0.00	0.00	9,486.2	-323.4	-50.3	-322.8	0.00	0.00	0.00

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well DOUBLE ABJ 16 FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3609.4usft (TBD)
Site:	DOUBLE ABJ FED COM PROJECT	MD Reference:	*KB=30' @ 3609.4usft (TBD)
Well:	DOUBLE ABJ 16 FED COM 702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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)
9,600.0	0.00	0.00	9,586.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
9,700.0	0.00	0.00	9,686.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
9,800.0	0.00	0.00	9,786.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
9,900.0	0.00	0.00	9,886.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
10,000.0	0.00	0.00	9,986.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
10,100.0	0.00	0.00	10,086.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
10,200.0	0.00	0.00	10,186.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
10,300.0	0.00	0.00	10,286.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
10,400.0	0.00	0.00	10,386.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
10,500.0	0.00	0.00	10,486.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
10,600.0	0.00	0.00	10,586.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
10,700.0	0.00	0.00	10,686.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
10,800.0	0.00	0.00	10,786.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
10,900.0	0.00	0.00	10,886.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
11,000.0	0.00	0.00	10,986.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
11,100.0	0.00	0.00	11,086.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
11,200.0	0.00	0.00	11,186.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
11,300.0	0.00	0.00	11,286.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
11,400.0	0.00	0.00	11,386.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
11,500.0	0.00	0.00	11,486.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
11,600.0	0.00	0.00	11,586.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
11,700.0	0.00	0.00	11,686.2	-323.4	-50.3	-322.8	0.00	0.00	0.00
11,766.3	0.00	0.00	11,752.5	-323.4	-50.3	-322.8	0.00	0.00	0.00
Start DLS 12.00 TFO 359.67									
11,800.0	4.04	359.67	11,786.2	-322.2	-50.3	-321.6	12.00	12.00	0.00
11,900.0	16.04	359.67	11,884.4	-304.8	-50.4	-304.2	12.00	12.00	0.00
12,000.0	28.04	359.67	11,977.0	-267.3	-50.6	-266.8	12.00	12.00	0.00
12,100.0	40.04	359.67	12,059.7	-211.5	-50.9	-210.9	12.00	12.00	0.00
12,200.0	52.04	359.67	12,129.0	-139.6	-51.4	-139.0	12.00	12.00	0.00
12,300.0	64.04	359.67	12,181.8	-54.9	-51.8	-54.4	12.00	12.00	0.00
12,400.0	76.04	359.67	12,215.9	38.9	-52.4	39.5	12.00	12.00	0.00
12,500.0	88.04	359.67	12,229.7	137.7	-53.0	138.3	12.00	12.00	0.00
12,515.4	89.88	359.67	12,230.0	153.1	-53.0	153.7	12.00	12.00	0.00
Start 9953.2 hold at 12515.4 MD									
12,600.0	89.88	359.67	12,230.1	237.7	-53.5	238.3	0.00	0.00	0.00
12,700.0	89.88	359.67	12,230.3	337.7	-54.1	338.3	0.00	0.00	0.00
12,800.0	89.88	359.67	12,230.5	437.7	-54.7	438.3	0.00	0.00	0.00
12,900.0	89.88	359.67	12,230.7	537.7	-55.3	538.3	0.00	0.00	0.00
13,000.0	89.88	359.67	12,230.9	637.7	-55.8	638.3	0.00	0.00	0.00
13,100.0	89.88	359.67	12,231.1	737.7	-56.4	738.3	0.00	0.00	0.00
13,200.0	89.88	359.67	12,231.3	837.7	-57.0	838.3	0.00	0.00	0.00
13,300.0	89.88	359.67	12,231.5	937.7	-57.6	938.3	0.00	0.00	0.00
13,400.0	89.88	359.67	12,231.7	1,037.7	-58.2	1,038.3	0.00	0.00	0.00

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well DOUBLE ABJ 16 FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3609.4usft (TBD)
Site:	DOUBLE ABJ FED COM PROJECT	MD Reference:	*KB=30' @ 3609.4usft (TBD)
Well:	DOUBLE ABJ 16 FED COM 702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,500.0	89.88	359.67	12,231.9	1,137.7	-58.7	1,138.3	0.00	0.00	0.00
13,600.0	89.88	359.67	12,232.1	1,237.7	-59.3	1,238.3	0.00	0.00	0.00
13,700.0	89.88	359.67	12,232.3	1,337.7	-59.9	1,338.3	0.00	0.00	0.00
13,800.0	89.88	359.67	12,232.5	1,437.7	-60.5	1,438.3	0.00	0.00	0.00
13,900.0	89.88	359.67	12,232.8	1,537.7	-61.0	1,538.3	0.00	0.00	0.00
14,000.0	89.88	359.67	12,233.0	1,637.7	-61.6	1,638.3	0.00	0.00	0.00
14,100.0	89.88	359.67	12,233.2	1,737.7	-62.2	1,738.3	0.00	0.00	0.00
14,200.0	89.88	359.67	12,233.4	1,837.7	-62.8	1,838.3	0.00	0.00	0.00
14,300.0	89.88	359.67	12,233.6	1,937.7	-63.3	1,938.3	0.00	0.00	0.00
14,400.0	89.88	359.67	12,233.8	2,037.7	-63.9	2,038.3	0.00	0.00	0.00
14,500.0	89.88	359.67	12,234.0	2,137.7	-64.5	2,138.3	0.00	0.00	0.00
14,600.0	89.88	359.67	12,234.2	2,237.7	-65.1	2,238.3	0.00	0.00	0.00
14,700.0	89.88	359.67	12,234.4	2,337.7	-65.7	2,338.3	0.00	0.00	0.00
14,800.0	89.88	359.67	12,234.6	2,437.7	-66.2	2,438.3	0.00	0.00	0.00
14,900.0	89.88	359.67	12,234.8	2,537.7	-66.8	2,538.3	0.00	0.00	0.00
15,000.0	89.88	359.67	12,235.0	2,637.7	-67.4	2,638.3	0.00	0.00	0.00
15,100.0	89.88	359.67	12,235.2	2,737.7	-68.0	2,738.3	0.00	0.00	0.00
15,200.0	89.88	359.67	12,235.4	2,837.7	-68.5	2,838.3	0.00	0.00	0.00
15,300.0	89.88	359.67	12,235.6	2,937.7	-69.1	2,938.3	0.00	0.00	0.00
15,400.0	89.88	359.67	12,235.8	3,037.7	-69.7	3,038.3	0.00	0.00	0.00
15,500.0	89.88	359.67	12,236.0	3,137.7	-70.3	3,138.3	0.00	0.00	0.00
15,600.0	89.88	359.67	12,236.2	3,237.7	-70.9	3,238.3	0.00	0.00	0.00
15,700.0	89.88	359.67	12,236.4	3,337.7	-71.4	3,338.3	0.00	0.00	0.00
15,800.0	89.88	359.67	12,236.6	3,437.7	-72.0	3,438.3	0.00	0.00	0.00
15,900.0	89.88	359.67	12,236.8	3,537.7	-72.6	3,538.3	0.00	0.00	0.00
16,000.0	89.88	359.67	12,237.0	3,637.7	-73.2	3,638.3	0.00	0.00	0.00
16,100.0	89.88	359.67	12,237.2	3,737.7	-73.7	3,738.3	0.00	0.00	0.00
16,200.0	89.88	359.67	12,237.4	3,837.7	-74.3	3,838.3	0.00	0.00	0.00
16,300.0	89.88	359.67	12,237.6	3,937.7	-74.9	3,938.3	0.00	0.00	0.00
16,400.0	89.88	359.67	12,237.8	4,037.7	-75.5	4,038.3	0.00	0.00	0.00
16,500.0	89.88	359.67	12,238.0	4,137.7	-76.0	4,138.3	0.00	0.00	0.00
16,600.0	89.88	359.67	12,238.2	4,237.7	-76.6	4,238.3	0.00	0.00	0.00
16,700.0	89.88	359.67	12,238.4	4,337.7	-77.2	4,338.3	0.00	0.00	0.00
16,800.0	89.88	359.67	12,238.6	4,437.7	-77.8	4,438.2	0.00	0.00	0.00
16,900.0	89.88	359.67	12,238.8	4,537.7	-78.4	4,538.2	0.00	0.00	0.00
17,000.0	89.88	359.67	12,239.0	4,637.7	-78.9	4,638.2	0.00	0.00	0.00
17,100.0	89.88	359.67	12,239.2	4,737.7	-79.5	4,738.2	0.00	0.00	0.00
17,200.0	89.88	359.67	12,239.4	4,837.7	-80.1	4,838.2	0.00	0.00	0.00
17,300.0	89.88	359.67	12,239.6	4,937.7	-80.7	4,938.2	0.00	0.00	0.00
17,400.0	89.88	359.67	12,239.8	5,037.7	-81.2	5,038.2	0.00	0.00	0.00
17,500.0	89.88	359.67	12,240.0	5,137.7	-81.8	5,138.2	0.00	0.00	0.00
17,600.0	89.88	359.67	12,240.2	5,237.6	-82.4	5,238.2	0.00	0.00	0.00
17,700.0	89.88	359.67	12,240.4	5,337.6	-83.0	5,338.2	0.00	0.00	0.00
17,800.0	89.88	359.67	12,240.6	5,437.6	-83.6	5,438.2	0.00	0.00	0.00

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well DOUBLE ABJ 16 FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3609.4usft (TBD)
Site:	DOUBLE ABJ FED COM PROJECT	MD Reference:	*KB=30' @ 3609.4usft (TBD)
Well:	DOUBLE ABJ 16 FED COM 702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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)
17,900.0	89.88	359.67	12,240.8	5,537.6	-84.1	5,538.2	0.00	0.00	0.00
18,000.0	89.88	359.67	12,241.0	5,637.6	-84.7	5,638.2	0.00	0.00	0.00
18,100.0	89.88	359.67	12,241.2	5,737.6	-85.3	5,738.2	0.00	0.00	0.00
18,200.0	89.88	359.67	12,241.4	5,837.6	-85.9	5,838.2	0.00	0.00	0.00
18,300.0	89.88	359.67	12,241.6	5,937.6	-86.4	5,938.2	0.00	0.00	0.00
18,400.0	89.88	359.67	12,241.8	6,037.6	-87.0	6,038.2	0.00	0.00	0.00
18,500.0	89.88	359.67	12,242.0	6,137.6	-87.6	6,138.2	0.00	0.00	0.00
18,600.0	89.88	359.67	12,242.2	6,237.6	-88.2	6,238.2	0.00	0.00	0.00
18,700.0	89.88	359.67	12,242.4	6,337.6	-88.7	6,338.2	0.00	0.00	0.00
18,800.0	89.88	359.67	12,242.6	6,437.6	-89.3	6,438.2	0.00	0.00	0.00
18,900.0	89.88	359.67	12,242.8	6,537.6	-89.9	6,538.2	0.00	0.00	0.00
19,000.0	89.88	359.67	12,243.0	6,637.6	-90.5	6,638.2	0.00	0.00	0.00
19,100.0	89.88	359.67	12,243.2	6,737.6	-91.1	6,738.2	0.00	0.00	0.00
19,200.0	89.88	359.67	12,243.4	6,837.6	-91.6	6,838.2	0.00	0.00	0.00
19,300.0	89.88	359.67	12,243.6	6,937.6	-92.2	6,938.2	0.00	0.00	0.00
19,400.0	89.88	359.67	12,243.8	7,037.6	-92.8	7,038.2	0.00	0.00	0.00
19,500.0	89.88	359.67	12,244.0	7,137.6	-93.4	7,138.2	0.00	0.00	0.00
19,600.0	89.88	359.67	12,244.2	7,237.6	-93.9	7,238.2	0.00	0.00	0.00
19,700.0	89.88	359.67	12,244.4	7,337.6	-94.5	7,338.2	0.00	0.00	0.00
19,800.0	89.88	359.67	12,244.6	7,437.6	-95.1	7,438.2	0.00	0.00	0.00
19,900.0	89.88	359.67	12,244.8	7,537.6	-95.7	7,538.2	0.00	0.00	0.00
20,000.0	89.88	359.67	12,245.0	7,637.6	-96.3	7,638.2	0.00	0.00	0.00
20,100.0	89.88	359.67	12,245.2	7,737.6	-96.8	7,738.2	0.00	0.00	0.00
20,200.0	89.88	359.67	12,245.4	7,837.6	-97.4	7,838.2	0.00	0.00	0.00
20,300.0	89.88	359.67	12,245.6	7,937.6	-98.0	7,938.2	0.00	0.00	0.00
20,400.0	89.88	359.67	12,245.8	8,037.6	-98.6	8,038.2	0.00	0.00	0.00
20,500.0	89.88	359.67	12,246.0	8,137.6	-99.1	8,138.2	0.00	0.00	0.00
20,600.0	89.88	359.67	12,246.2	8,237.6	-99.7	8,238.2	0.00	0.00	0.00
20,700.0	89.88	359.67	12,246.4	8,337.6	-100.3	8,338.2	0.00	0.00	0.00
20,800.0	89.88	359.67	12,246.6	8,437.6	-100.9	8,438.2	0.00	0.00	0.00
20,900.0	89.88	359.67	12,246.8	8,537.6	-101.4	8,538.2	0.00	0.00	0.00
21,000.0	89.88	359.67	12,247.0	8,637.6	-102.0	8,638.2	0.00	0.00	0.00
21,100.0	89.88	359.67	12,247.2	8,737.6	-102.6	8,738.2	0.00	0.00	0.00
21,200.0	89.88	359.67	12,247.4	8,837.6	-103.2	8,838.2	0.00	0.00	0.00
21,300.0	89.88	359.67	12,247.6	8,937.6	-103.8	8,938.2	0.00	0.00	0.00
21,400.0	89.88	359.67	12,247.8	9,037.6	-104.3	9,038.2	0.00	0.00	0.00
21,500.0	89.88	359.67	12,248.1	9,137.6	-104.9	9,138.2	0.00	0.00	0.00
21,600.0	89.88	359.67	12,248.3	9,237.6	-105.5	9,238.2	0.00	0.00	0.00
21,700.0	89.88	359.67	12,248.5	9,337.6	-106.1	9,338.2	0.00	0.00	0.00
21,800.0	89.88	359.67	12,248.7	9,437.6	-106.6	9,438.2	0.00	0.00	0.00
21,900.0	89.88	359.67	12,248.9	9,537.6	-107.2	9,538.2	0.00	0.00	0.00
22,000.0	89.88	359.67	12,249.1	9,637.6	-107.8	9,638.2	0.00	0.00	0.00
22,100.0	89.88	359.67	12,249.3	9,737.6	-108.4	9,738.2	0.00	0.00	0.00

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well DOUBLE ABJ 16 FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3609.4usft (TBD)
Site:	DOUBLE ABJ FED COM PROJECT	MD Reference:	*KB=30' @ 3609.4usft (TBD)
Well:	DOUBLE ABJ 16 FED COM 702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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)
22,200.0	89.88	359.67	12,249.5	9,837.6	-108.9	9,838.2	0.00	0.00	0.00
22,300.0	89.88	359.67	12,249.7	9,937.6	-109.5	9,938.2	0.00	0.00	0.00
22,400.0	89.88	359.67	12,249.9	10,037.6	-110.1	10,038.2	0.00	0.00	0.00
22,468.5	89.88	359.67	12,250.0	10,106.1	-110.5	10,106.7	0.00	0.00	0.00
TD at 22468.5									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (DOUBLE ABJ FI - hit/miss target - Shape	0.00	0.00	12,230.0	-303.5	-51.4	440,899.90	703,901.80	32° 12' 37.555 N	103° 40' 26.654 W
- plan misses target center by 183.9usft at 12152.1usft MD (12097.6 TVD, -175.9 N, -51.1 E) - Circle (radius 50.0)									
LTP (DOUBLE ABJ FI - plan misses target center by 18.5usft at 22400.0usft MD (12249.9 TVD, 10037.6 N, -110.1 E) - Point	0.00	0.00	12,250.0	10,056.1	-110.2	451,259.50	703,843.00	32° 14' 20.074 N	103° 40' 26.599 W
PBHL (DOUBLE ABJ - plan hits target center - Rectangle (sides W100.0 H10,461.0 D20.0)	-0.12	179.67	12,250.0	10,106.1	-110.5	451,309.50	703,842.70	32° 14' 20.569 N	103° 40' 26.598 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
+N/-S (usft)	+E/-W (usft)			
2500	2500	0	0	Start Build 2.00
2750	2750	-11	-2	Start 3380.0 hold at 2750.0 MD
6130	6117	-302	-47	Start Drop -1.00
6630	6616	-323	-50	Start 5136.4 hold at 6630.0 MD
11,766	11,753	-323	-50	Start DLS 12.00 TFO 359.67
12,515	12,230	153	-53	Start 9953.2 hold at 12515.4 MD
22,469	12,250	10,106	-111	TD at 22468.5

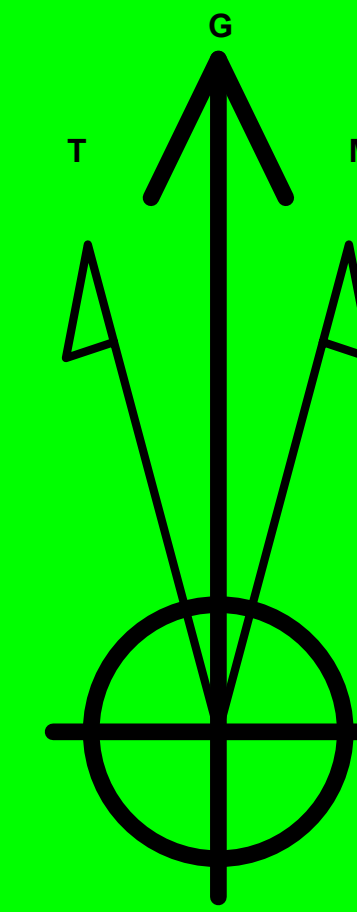
Checked By: _____ Approved By: _____ Date: _____

WELL DETAILS: DOUBLE ABJ 16 FED COM 702H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	441203.40	703953.20	32° 12' 40.555 N	103° 40' 26.034 W

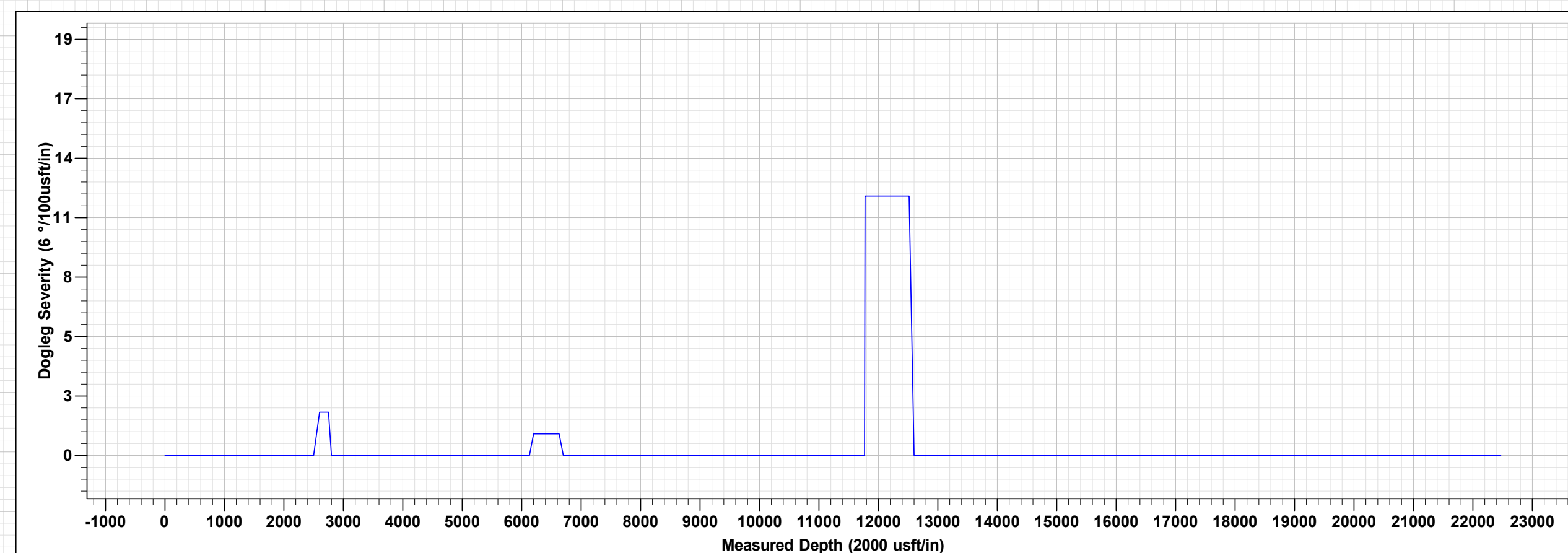
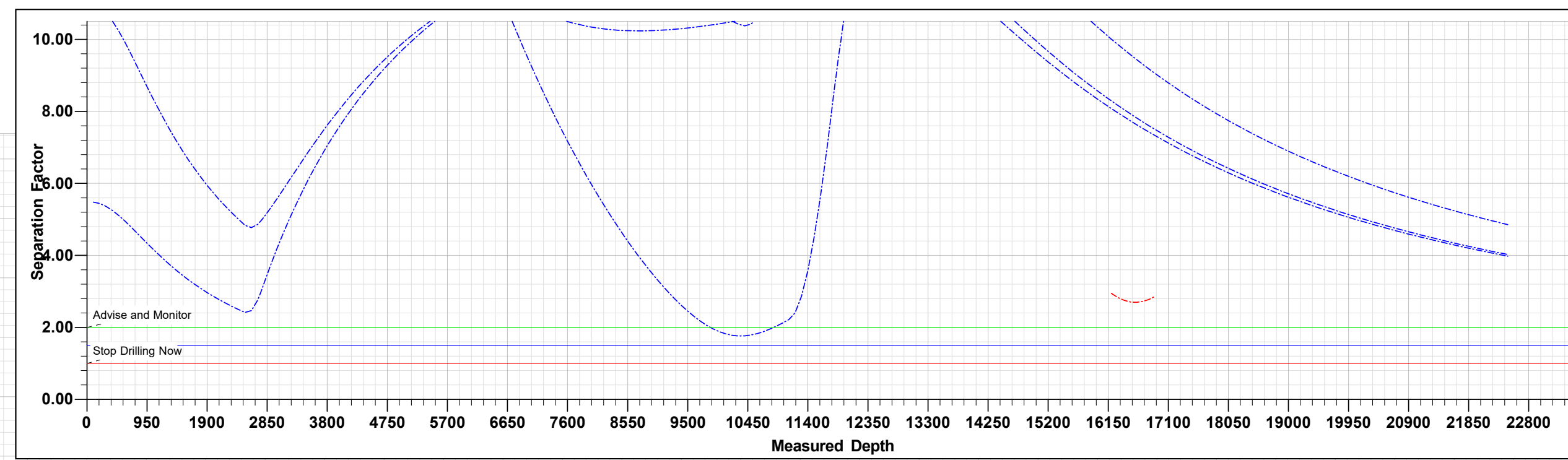
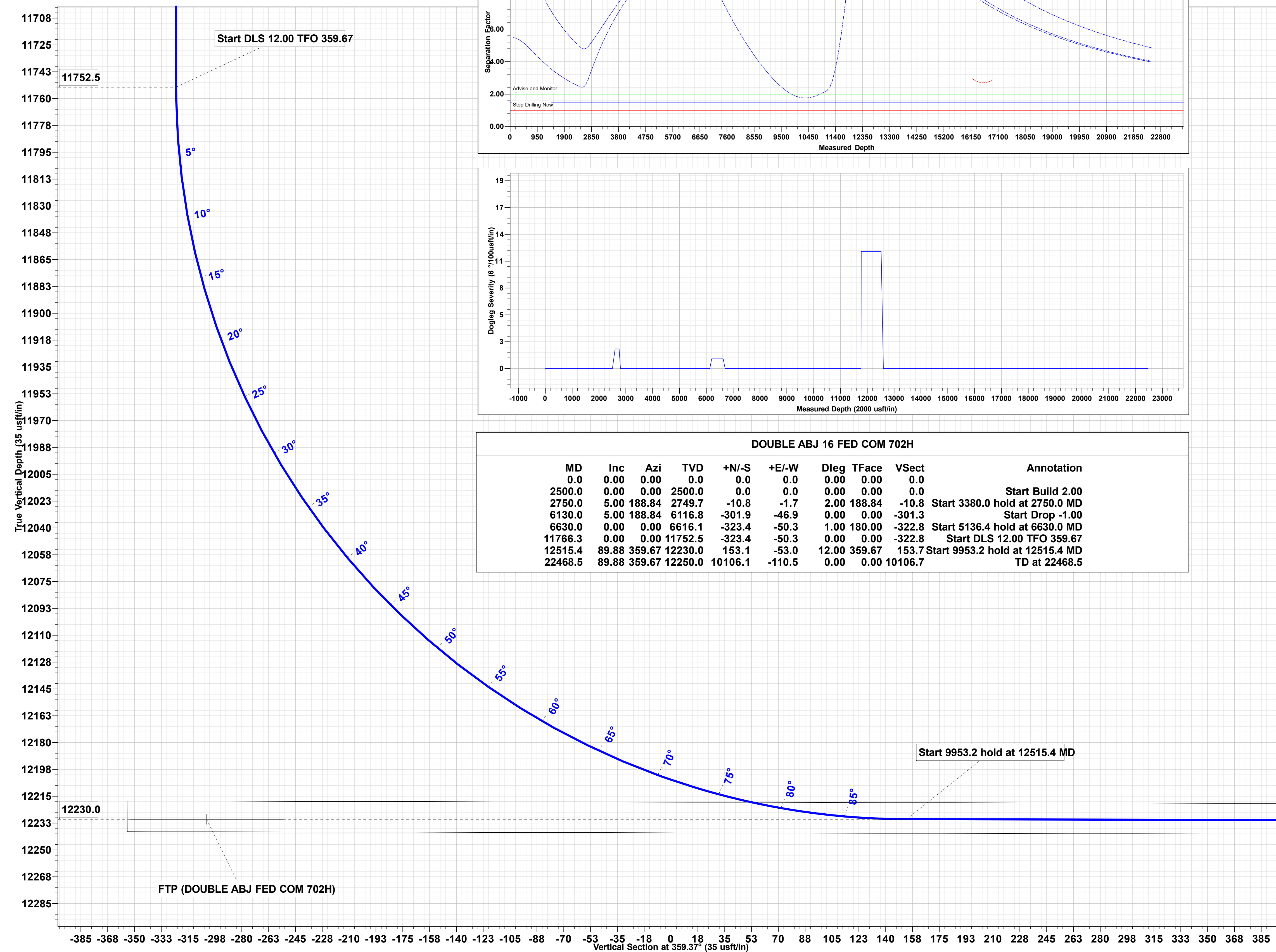
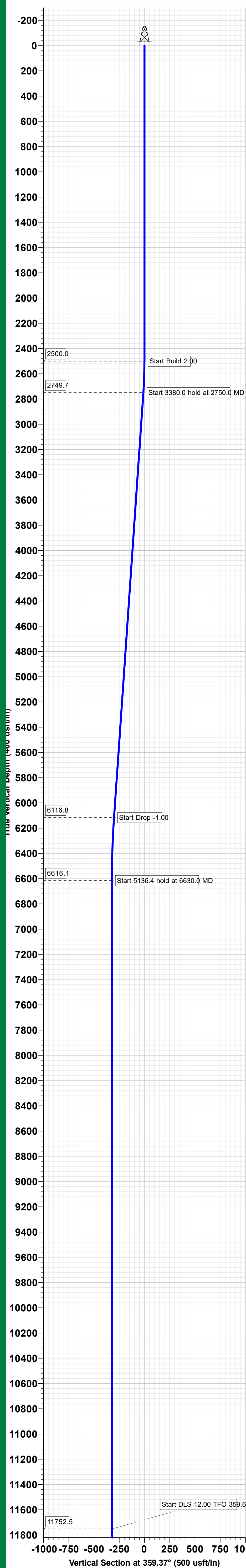
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (DOUBLE ABJ FED COM 702H)	12230.0	-303.5	-51.4	440899.90	703901.80	32° 12' 37.555 N	103° 40' 26.654 W
LTP (DOUBLE ABJ FED COM 702H)	12250.0	10056.1	-110.2	451259.50	703843.00	32° 14' 20.074 N	103° 40' 26.599 W
PBHL (DOUBLE ABJ FED COM 702H)	12250.0	10106.1	-110.5	451309.50	703842.70	32° 14' 20.569 N	103° 40' 26.598 W



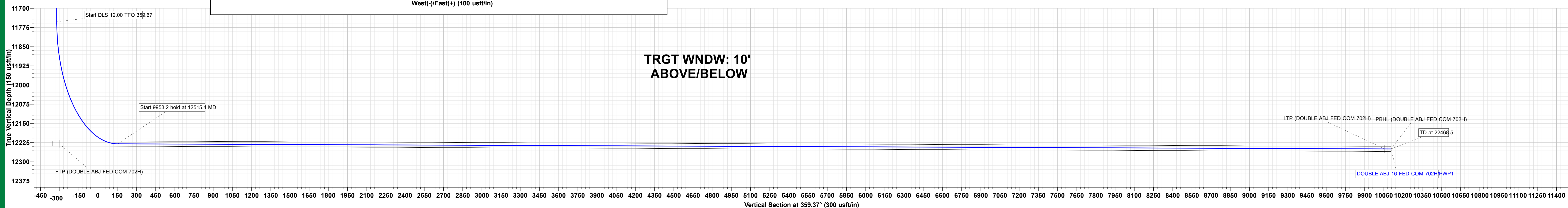
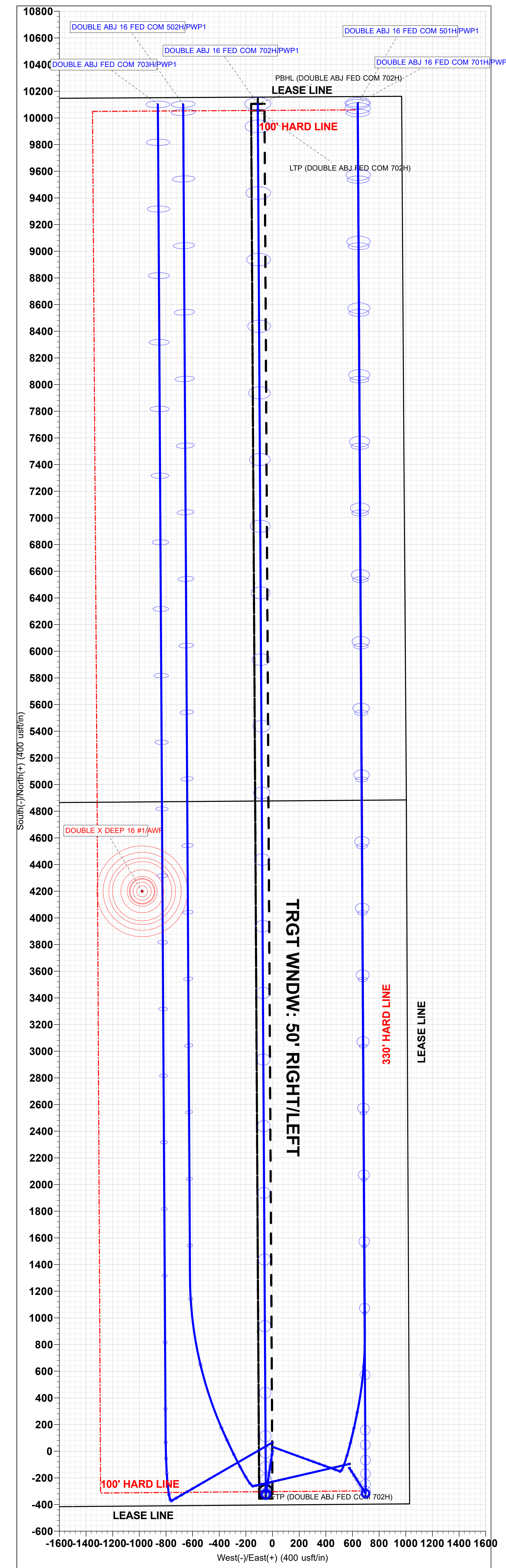
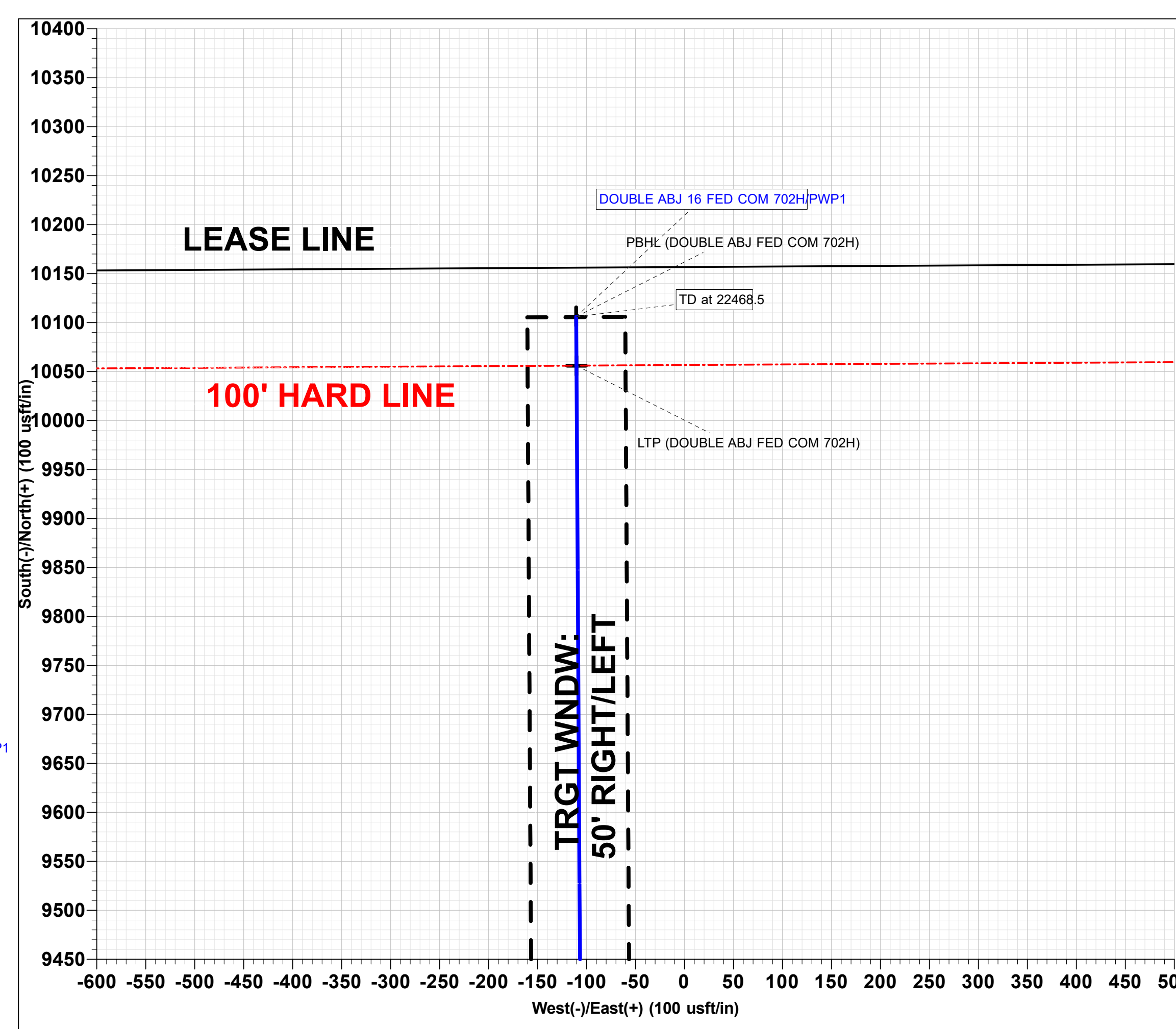
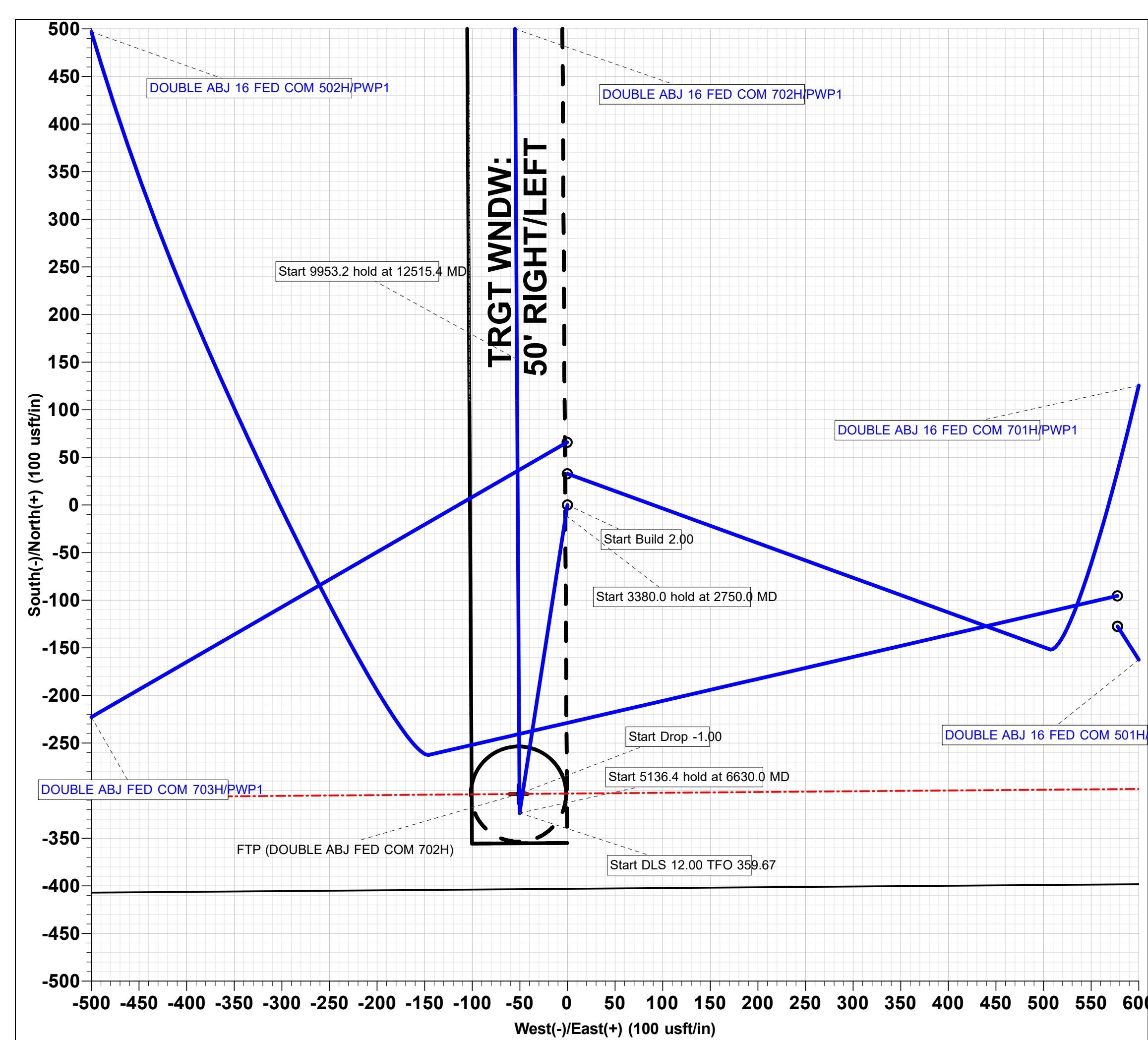
Azimuths to Grid North
True North: -0.35°
Magnetic North: 6.27°

Magnetic Field
Strength: 47504.3nT
Dip Angle: 59.88°
Date: 3/3/2021
Model: IGRF2020



DOUBLE ABJ 16 FED COM 702H

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	
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2750.0	5.00	188.84	2749.7	-10.8	-1.7	2.00	188.84	-10.8	Start 3380.0 hold at 2750.0 MD
6130.0	5.00	188.84	6116.8	-301.9	-46.9	0.00	0.00	-301.3	Start Drop -1.00
6630.0	0.00	0.00	6616.1	-323.4	-50.3	1.00	180.00	-322.8	Start 5136.4 hold at 6630.0 MD
11766.3	0.00	0.00	11752.5	-323.4	-50.3	0.00	0.00	-322.8	Start DLS 12.00 TFO 359.67
12515.4	89.88	359.67	12230.0	153.1	-53.0	12.00	359.67	153.7	Start 9953.2 hold at 12515.4 MD
22468.5	89.88	359.67	12250.0	10106.1	-110.5	0.00	0.00	10106.7	TD at 22468.5



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) 476-3470 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 36056

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 36056
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	9/24/2021