

Well Name: DOUBLE ABJ 16 FED COM	Well Location: T24S / R32E / SEC 16 / SESE / 32.2114835 / -103.6743797	County or Parish/State: LEA / NM
Well Number: 701H	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: 01:31
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 & 330' 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_Federal_Com_701H_C_102_5_24_21_20210525125023.pdf
- DOUBLE_ABJ_16_FED_COM_701H_PWP1_WPlot_20210525125023.pdf
- DOUBLE_ABJ_16_FED_COM_701H_PWP1_SVY_RPT_20210525125023.pdf
- DOUBLE_ABJ_16_FED_COM_701H_PWP1_AC_RPT_20210525125023.pdf

Received by OCD: 7/12/2021 2:32:38 PM

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Well Name: DOUBLE ABJ 16 FED COM	Well Location: T24S / R32E / SEC 16 / SESE / 32.2114835 / -103.6743797	County or Parish/State: LEA / NM
Well Number: 701H	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

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 01:31 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 Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 07/12/2021
Signature: Chris Walls	

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 30-025-47167		Pool Code 98248	Pool Name WC-025 G-08 S243217P; Upper Wolfcamp
Property Code 328130	Property Name DOUBLE ABJ 16 FEDERAL COM		Well Number 701H
OGRID No. 229137	Operator Name COG OPERATING, LLC		Elevation 3579.3'

Surface Location

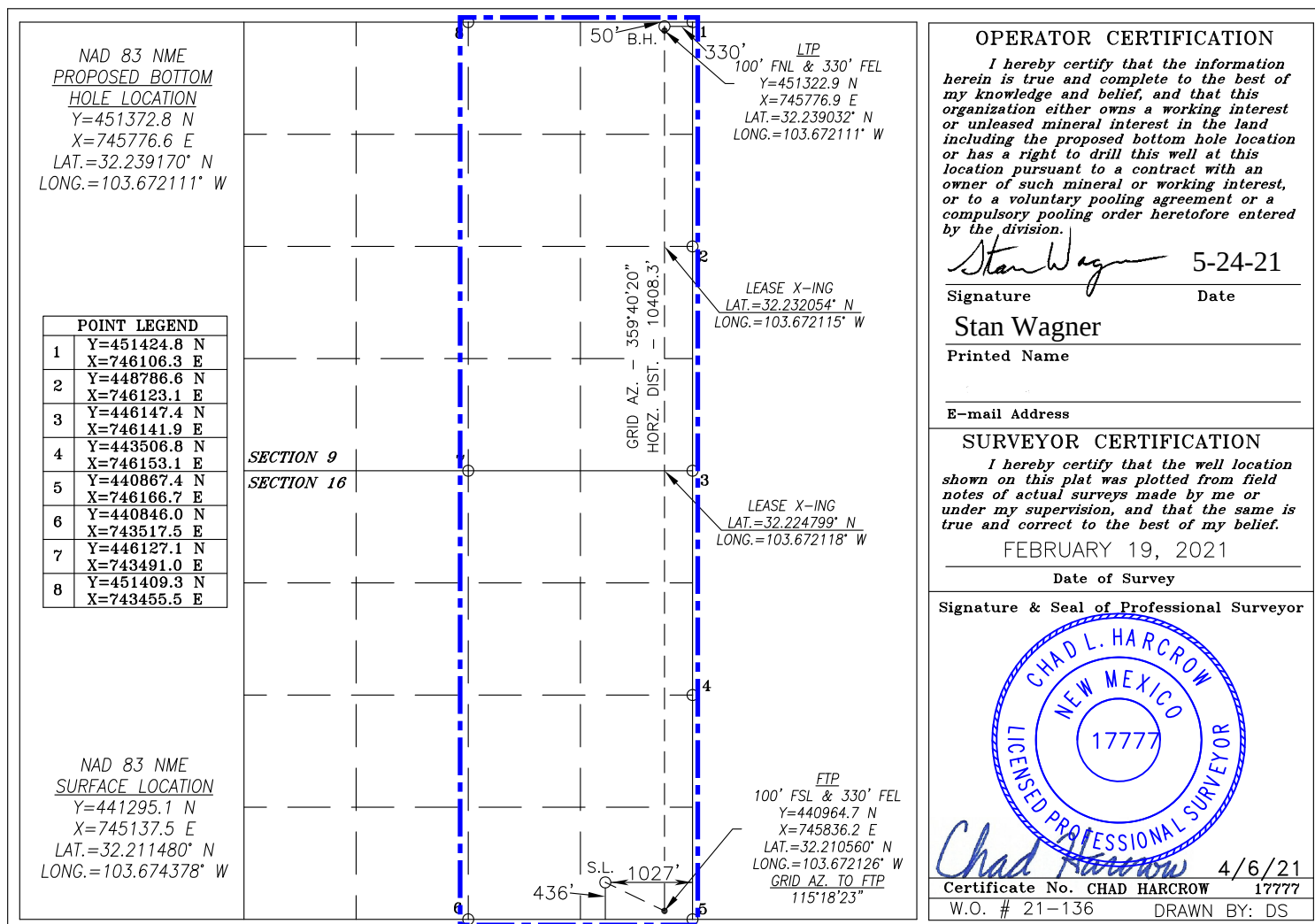
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	16	24-S	32-E		436	SOUTH	1027	EAST	LEA

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	330	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
640			

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



DELAWARE BASIN EAST

**BULLDOG PROSPECT (NM-E)
DOUBLE ABJ FED COM PROJECT
DOUBLE ABJ 16 FED COM 701H**

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 701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3609.3usft (TBD)
Site:	DOUBLE ABJ FED COM PROJECT	MD Reference:	*KB=30' @ 3609.3usft (TBD)
Well:	DOUBLE ABJ 16 FED COM 701H	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 701H				
Well Position	+N/-S	0.0 usft	Northing:	441,236.30 usft	Latitude: 32° 12' 40.881 N
	+E/-W	0.0 usft	Easting:	703,953.10 usft	Longitude: 103° 40' 26.033 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level: 3,579.3 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/3/2021	6.63	59.88	47,504.34639782

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	3.63	

Survey Tool Program	Date	5/4/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,891.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,891.0	22,372.6	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



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Site:	DOUBLE ABJ FED COM PROJECT	MD Reference:	*KB=30' @ 3609.3usft (TBD)
Well:	DOUBLE ABJ 16 FED COM 701H	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
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
5,600.0	2.00	110.00	5,600.0	-0.6	1.6	-0.5	2.00	2.00	0.00

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well DOUBLE ABJ 16 FED COM 701H
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Site:	DOUBLE ABJ FED COM PROJECT	MD Reference:	*KB=30' @ 3609.3usft (TBD)
Well:	DOUBLE ABJ 16 FED COM 701H	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)
5,700.0	4.00	110.00	5,699.8	-2.4	6.6	-2.0	2.00	2.00	0.00
5,750.0	5.00	110.00	5,749.7	-3.7	10.2	-3.1	2.00	2.00	0.00
Start 6061.3 hold at 5750.0 MD									
5,800.0	5.00	110.00	5,799.5	-5.2	14.3	-4.3	0.00	0.00	0.00
5,900.0	5.00	110.00	5,899.1	-8.2	22.5	-6.8	0.00	0.00	0.00
6,000.0	5.00	110.00	5,998.7	-11.2	30.7	-9.2	0.00	0.00	0.00
6,100.0	5.00	110.00	6,098.4	-14.2	38.9	-11.7	0.00	0.00	0.00
6,200.0	5.00	110.00	6,198.0	-17.1	47.1	-14.1	0.00	0.00	0.00
6,300.0	5.00	110.00	6,297.6	-20.1	55.3	-16.6	0.00	0.00	0.00
6,400.0	5.00	110.00	6,397.2	-23.1	63.5	-19.0	0.00	0.00	0.00
6,500.0	5.00	110.00	6,496.8	-26.1	71.7	-21.5	0.00	0.00	0.00
6,600.0	5.00	110.00	6,596.4	-29.1	79.9	-23.9	0.00	0.00	0.00
6,700.0	5.00	110.00	6,696.1	-32.0	88.0	-26.4	0.00	0.00	0.00
6,800.0	5.00	110.00	6,795.7	-35.0	96.2	-28.9	0.00	0.00	0.00
6,900.0	5.00	110.00	6,895.3	-38.0	104.4	-31.3	0.00	0.00	0.00
7,000.0	5.00	110.00	6,994.9	-41.0	112.6	-33.8	0.00	0.00	0.00
7,100.0	5.00	110.00	7,094.5	-44.0	120.8	-36.2	0.00	0.00	0.00
7,200.0	5.00	110.00	7,194.2	-47.0	129.0	-38.7	0.00	0.00	0.00
7,300.0	5.00	110.00	7,293.8	-49.9	137.2	-41.1	0.00	0.00	0.00
7,400.0	5.00	110.00	7,393.4	-52.9	145.4	-43.6	0.00	0.00	0.00
7,500.0	5.00	110.00	7,493.0	-55.9	153.6	-46.1	0.00	0.00	0.00
7,600.0	5.00	110.00	7,592.6	-58.9	161.8	-48.5	0.00	0.00	0.00
7,700.0	5.00	110.00	7,692.3	-61.9	169.9	-51.0	0.00	0.00	0.00
7,800.0	5.00	110.00	7,791.9	-64.8	178.1	-53.4	0.00	0.00	0.00
7,900.0	5.00	110.00	7,891.5	-67.8	186.3	-55.9	0.00	0.00	0.00
8,000.0	5.00	110.00	7,991.1	-70.8	194.5	-58.3	0.00	0.00	0.00
8,100.0	5.00	110.00	8,090.7	-73.8	202.7	-60.8	0.00	0.00	0.00
8,200.0	5.00	110.00	8,190.4	-76.8	210.9	-63.2	0.00	0.00	0.00
8,300.0	5.00	110.00	8,290.0	-79.7	219.1	-65.7	0.00	0.00	0.00
8,400.0	5.00	110.00	8,389.6	-82.7	227.3	-68.2	0.00	0.00	0.00
8,500.0	5.00	110.00	8,489.2	-85.7	235.5	-70.6	0.00	0.00	0.00
8,600.0	5.00	110.00	8,588.8	-88.7	243.7	-73.1	0.00	0.00	0.00
8,700.0	5.00	110.00	8,688.5	-91.7	251.8	-75.5	0.00	0.00	0.00
8,800.0	5.00	110.00	8,788.1	-94.6	260.0	-78.0	0.00	0.00	0.00
8,900.0	5.00	110.00	8,887.7	-97.6	268.2	-80.4	0.00	0.00	0.00
9,000.0	5.00	110.00	8,987.3	-100.6	276.4	-82.9	0.00	0.00	0.00
9,100.0	5.00	110.00	9,086.9	-103.6	284.6	-85.4	0.00	0.00	0.00
9,200.0	5.00	110.00	9,186.6	-106.6	292.8	-87.8	0.00	0.00	0.00
9,300.0	5.00	110.00	9,286.2	-109.6	301.0	-90.3	0.00	0.00	0.00
9,400.0	5.00	110.00	9,385.8	-112.5	309.2	-92.7	0.00	0.00	0.00
9,500.0	5.00	110.00	9,485.4	-115.5	317.4	-95.2	0.00	0.00	0.00
9,600.0	5.00	110.00	9,585.0	-118.5	325.6	-97.6	0.00	0.00	0.00
9,700.0	5.00	110.00	9,684.7	-121.5	333.7	-100.1	0.00	0.00	0.00
9,800.0	5.00	110.00	9,784.3	-124.5	341.9	-102.5	0.00	0.00	0.00

ConocoPhillips

Survey Report



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Design:	PWP1	Database:	edm

Planned Survey									
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9,900.0	5.00	110.00	9,883.9	-127.4	350.1	-105.0	0.00	0.00	0.00
10,000.0	5.00	110.00	9,983.5	-130.4	358.3	-107.5	0.00	0.00	0.00
10,100.0	5.00	110.00	10,083.1	-133.4	366.5	-109.9	0.00	0.00	0.00
10,200.0	5.00	110.00	10,182.7	-136.4	374.7	-112.4	0.00	0.00	0.00
10,300.0	5.00	110.00	10,282.4	-139.4	382.9	-114.8	0.00	0.00	0.00
10,400.0	5.00	110.00	10,382.0	-142.3	391.1	-117.3	0.00	0.00	0.00
10,500.0	5.00	110.00	10,481.6	-145.3	399.3	-119.7	0.00	0.00	0.00
10,600.0	5.00	110.00	10,581.2	-148.3	407.5	-122.2	0.00	0.00	0.00
10,700.0	5.00	110.00	10,680.8	-151.3	415.6	-124.7	0.00	0.00	0.00
10,800.0	5.00	110.00	10,780.5	-154.3	423.8	-127.1	0.00	0.00	0.00
10,900.0	5.00	110.00	10,880.1	-157.2	432.0	-129.6	0.00	0.00	0.00
11,000.0	5.00	110.00	10,979.7	-160.2	440.2	-132.0	0.00	0.00	0.00
11,100.0	5.00	110.00	11,079.3	-163.2	448.4	-134.5	0.00	0.00	0.00
11,200.0	5.00	110.00	11,178.9	-166.2	456.6	-136.9	0.00	0.00	0.00
11,300.0	5.00	110.00	11,278.6	-169.2	464.8	-139.4	0.00	0.00	0.00
11,400.0	5.00	110.00	11,378.2	-172.1	473.0	-141.8	0.00	0.00	0.00
11,500.0	5.00	110.00	11,477.8	-175.1	481.2	-144.3	0.00	0.00	0.00
11,600.0	5.00	110.00	11,577.4	-178.1	489.4	-146.8	0.00	0.00	0.00
11,700.0	5.00	110.00	11,677.0	-181.1	497.5	-149.2	0.00	0.00	0.00
11,800.0	5.00	110.00	11,776.7	-184.1	505.7	-151.7	0.00	0.00	0.00
11,811.3	5.00	110.00	11,787.9	-184.4	506.7	-151.9	0.00	0.00	0.00
Start DLS 12.00 TFO -98.86									
11,900.0	11.03	37.43	11,875.9	-179.0	515.5	-146.0	12.00	6.80	-81.80
12,000.0	22.40	23.22	11,971.5	-153.8	528.9	-120.0	12.00	11.37	-14.22
12,100.0	34.19	18.42	12,059.4	-109.4	545.3	-74.7	12.00	11.79	-4.80
12,200.0	46.08	15.88	12,135.8	-47.9	564.1	-12.1	12.00	11.89	-2.54
12,300.0	58.01	14.20	12,197.2	28.1	584.4	65.1	12.00	11.93	-1.68
12,400.0	69.95	12.92	12,241.0	115.3	605.4	153.4	12.00	11.94	-1.29
12,500.0	81.90	11.81	12,265.2	209.9	626.1	249.1	12.00	11.95	-1.10
12,566.7	89.88	11.12	12,270.0	275.1	639.4	315.0	12.00	11.96	-1.04
Start DLS 2.00 TFO -90.00									
12,600.0	89.88	10.45	12,270.1	307.8	645.6	348.0	2.00	0.00	-2.00
12,700.0	89.88	8.45	12,270.3	406.4	662.0	447.5	2.00	0.00	-2.00
12,800.0	89.88	6.45	12,270.5	505.5	675.0	547.3	2.00	0.00	-2.00
12,900.0	89.88	4.45	12,270.7	605.1	684.5	647.2	2.00	0.00	-2.00
13,000.0	89.88	2.45	12,270.9	704.9	690.5	747.2	2.00	0.00	-2.00
13,100.0	89.88	0.45	12,271.1	804.9	693.0	847.1	2.00	0.00	-2.00
13,139.3	89.88	359.67	12,271.2	844.2	693.1	886.4	2.00	0.00	-2.00
Start 9233.6 hold at 13139.3 MD									
13,200.0	89.88	359.67	12,271.3	904.9	692.7	946.9	0.00	0.00	0.00
13,300.0	89.88	359.67	12,271.5	1,004.9	692.2	1,046.7	0.00	0.00	0.00
13,400.0	89.88	359.67	12,271.7	1,104.9	691.6	1,146.4	0.00	0.00	0.00
13,500.0	89.88	359.67	12,271.9	1,204.8	691.0	1,246.2	0.00	0.00	0.00

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Survey Report



Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well DOUBLE ABJ 16 FED COM 701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3609.3usft (TBD)
Site:	DOUBLE ABJ FED COM PROJECT	MD Reference:	*KB=30' @ 3609.3usft (TBD)
Well:	DOUBLE ABJ 16 FED COM 701H	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)	
13,600.0	89.88	359.67	12,272.1	1,304.8	690.4	1,346.0	0.00	0.00	0.00	
13,700.0	89.88	359.67	12,272.3	1,404.8	689.8	1,445.7	0.00	0.00	0.00	
13,800.0	89.88	359.67	12,272.5	1,504.8	689.3	1,545.5	0.00	0.00	0.00	
13,900.0	89.88	359.67	12,272.7	1,604.8	688.7	1,645.2	0.00	0.00	0.00	
14,000.0	89.88	359.67	12,272.9	1,704.8	688.1	1,745.0	0.00	0.00	0.00	
14,100.0	89.88	359.67	12,273.1	1,804.8	687.5	1,844.8	0.00	0.00	0.00	
14,200.0	89.88	359.67	12,273.3	1,904.8	686.9	1,944.5	0.00	0.00	0.00	
14,300.0	89.88	359.67	12,273.5	2,004.8	686.4	2,044.3	0.00	0.00	0.00	
14,400.0	89.88	359.67	12,273.8	2,104.8	685.8	2,144.0	0.00	0.00	0.00	
14,500.0	89.88	359.67	12,274.0	2,204.8	685.2	2,243.8	0.00	0.00	0.00	
14,600.0	89.88	359.67	12,274.2	2,304.8	684.6	2,343.6	0.00	0.00	0.00	
14,700.0	89.88	359.67	12,274.4	2,404.8	684.0	2,443.3	0.00	0.00	0.00	
14,800.0	89.88	359.67	12,274.6	2,504.8	683.5	2,543.1	0.00	0.00	0.00	
14,900.0	89.88	359.67	12,274.8	2,604.8	682.9	2,642.8	0.00	0.00	0.00	
15,000.0	89.88	359.67	12,275.0	2,704.8	682.3	2,742.6	0.00	0.00	0.00	
15,100.0	89.88	359.67	12,275.2	2,804.8	681.7	2,842.4	0.00	0.00	0.00	
15,200.0	89.88	359.67	12,275.4	2,904.8	681.2	2,942.1	0.00	0.00	0.00	
15,300.0	89.88	359.67	12,275.6	3,004.8	680.6	3,041.9	0.00	0.00	0.00	
15,400.0	89.88	359.67	12,275.8	3,104.8	680.0	3,141.6	0.00	0.00	0.00	
15,500.0	89.88	359.67	12,276.0	3,204.8	679.4	3,241.4	0.00	0.00	0.00	
15,600.0	89.88	359.67	12,276.2	3,304.8	678.8	3,341.2	0.00	0.00	0.00	
15,700.0	89.88	359.67	12,276.4	3,404.8	678.3	3,440.9	0.00	0.00	0.00	
15,800.0	89.88	359.67	12,276.6	3,504.8	677.7	3,540.7	0.00	0.00	0.00	
15,900.0	89.88	359.67	12,276.8	3,604.8	677.1	3,640.5	0.00	0.00	0.00	
16,000.0	89.88	359.67	12,277.0	3,704.8	676.5	3,740.2	0.00	0.00	0.00	
16,100.0	89.88	359.67	12,277.2	3,804.8	675.9	3,840.0	0.00	0.00	0.00	
16,200.0	89.88	359.67	12,277.4	3,904.8	675.4	3,939.7	0.00	0.00	0.00	
16,300.0	89.88	359.67	12,277.6	4,004.8	674.8	4,039.5	0.00	0.00	0.00	
16,400.0	89.88	359.67	12,277.8	4,104.8	674.2	4,139.3	0.00	0.00	0.00	
16,500.0	89.88	359.67	12,278.0	4,204.8	673.6	4,239.0	0.00	0.00	0.00	
16,600.0	89.88	359.67	12,278.2	4,304.8	673.0	4,338.8	0.00	0.00	0.00	
16,700.0	89.88	359.67	12,278.4	4,404.8	672.5	4,438.5	0.00	0.00	0.00	
16,800.0	89.88	359.67	12,278.6	4,504.8	671.9	4,538.3	0.00	0.00	0.00	
16,900.0	89.88	359.67	12,278.8	4,604.8	671.3	4,638.1	0.00	0.00	0.00	
17,000.0	89.88	359.67	12,279.1	4,704.8	670.7	4,737.8	0.00	0.00	0.00	
17,100.0	89.88	359.67	12,279.3	4,804.8	670.1	4,837.6	0.00	0.00	0.00	
17,200.0	89.88	359.67	12,279.5	4,904.8	669.6	4,937.3	0.00	0.00	0.00	
17,300.0	89.88	359.67	12,279.7	5,004.8	669.0	5,037.1	0.00	0.00	0.00	
17,400.0	89.88	359.67	12,279.9	5,104.8	668.4	5,136.9	0.00	0.00	0.00	
17,500.0	89.88	359.67	12,280.1	5,204.8	667.8	5,236.6	0.00	0.00	0.00	
17,600.0	89.88	359.67	12,280.3	5,304.8	667.2	5,336.4	0.00	0.00	0.00	
17,700.0	89.88	359.67	12,280.5	5,404.8	666.7	5,436.1	0.00	0.00	0.00	
17,800.0	89.88	359.67	12,280.7	5,504.8	666.1	5,535.9	0.00	0.00	0.00	
17,900.0	89.88	359.67	12,280.9	5,604.8	665.5	5,635.7	0.00	0.00	0.00	

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Survey Report



Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well DOUBLE ABJ 16 FED COM 701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3609.3usft (TBD)
Site:	DOUBLE ABJ FED COM PROJECT	MD Reference:	*KB=30' @ 3609.3usft (TBD)
Well:	DOUBLE ABJ 16 FED COM 701H	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)
18,000.0	89.88	359.67	12,281.1	5,704.8	664.9	5,735.4	0.00	0.00	0.00
18,100.0	89.88	359.67	12,281.3	5,804.8	664.4	5,835.2	0.00	0.00	0.00
18,200.0	89.88	359.67	12,281.5	5,904.8	663.8	5,934.9	0.00	0.00	0.00
18,300.0	89.88	359.67	12,281.7	6,004.8	663.2	6,034.7	0.00	0.00	0.00
18,400.0	89.88	359.67	12,281.9	6,104.8	662.6	6,134.5	0.00	0.00	0.00
18,500.0	89.88	359.67	12,282.1	6,204.8	662.0	6,234.2	0.00	0.00	0.00
18,600.0	89.88	359.67	12,282.3	6,304.8	661.5	6,334.0	0.00	0.00	0.00
18,700.0	89.88	359.67	12,282.5	6,404.8	660.9	6,433.8	0.00	0.00	0.00
18,800.0	89.88	359.67	12,282.7	6,504.7	660.3	6,533.5	0.00	0.00	0.00
18,900.0	89.88	359.67	12,282.9	6,604.7	659.7	6,633.3	0.00	0.00	0.00
19,000.0	89.88	359.67	12,283.1	6,704.7	659.1	6,733.0	0.00	0.00	0.00
19,100.0	89.88	359.67	12,283.3	6,804.7	658.6	6,832.8	0.00	0.00	0.00
19,200.0	89.88	359.67	12,283.5	6,904.7	658.0	6,932.6	0.00	0.00	0.00
19,300.0	89.88	359.67	12,283.7	7,004.7	657.4	7,032.3	0.00	0.00	0.00
19,400.0	89.88	359.67	12,283.9	7,104.7	656.8	7,132.1	0.00	0.00	0.00
19,500.0	89.88	359.67	12,284.1	7,204.7	656.2	7,231.8	0.00	0.00	0.00
19,600.0	89.88	359.67	12,284.3	7,304.7	655.7	7,331.6	0.00	0.00	0.00
19,700.0	89.88	359.67	12,284.6	7,404.7	655.1	7,431.4	0.00	0.00	0.00
19,800.0	89.88	359.67	12,284.8	7,504.7	654.5	7,531.1	0.00	0.00	0.00
19,900.0	89.88	359.67	12,285.0	7,604.7	653.9	7,630.9	0.00	0.00	0.00
20,000.0	89.88	359.67	12,285.2	7,704.7	653.3	7,730.6	0.00	0.00	0.00
20,100.0	89.88	359.67	12,285.4	7,804.7	652.8	7,830.4	0.00	0.00	0.00
20,200.0	89.88	359.67	12,285.6	7,904.7	652.2	7,930.2	0.00	0.00	0.00
20,300.0	89.88	359.67	12,285.8	8,004.7	651.6	8,029.9	0.00	0.00	0.00
20,400.0	89.88	359.67	12,286.0	8,104.7	651.0	8,129.7	0.00	0.00	0.00
20,500.0	89.88	359.67	12,286.2	8,204.7	650.4	8,229.4	0.00	0.00	0.00
20,600.0	89.88	359.67	12,286.4	8,304.7	649.9	8,329.2	0.00	0.00	0.00
20,700.0	89.88	359.67	12,286.6	8,404.7	649.3	8,429.0	0.00	0.00	0.00
20,800.0	89.88	359.67	12,286.8	8,504.7	648.7	8,528.7	0.00	0.00	0.00
20,900.0	89.88	359.67	12,287.0	8,604.7	648.1	8,628.5	0.00	0.00	0.00
21,000.0	89.88	359.67	12,287.2	8,704.7	647.6	8,728.2	0.00	0.00	0.00
21,100.0	89.88	359.67	12,287.4	8,804.7	647.0	8,828.0	0.00	0.00	0.00
21,200.0	89.88	359.67	12,287.6	8,904.7	646.4	8,927.8	0.00	0.00	0.00
21,300.0	89.88	359.67	12,287.8	9,004.7	645.8	9,027.5	0.00	0.00	0.00
21,400.0	89.88	359.67	12,288.0	9,104.7	645.2	9,127.3	0.00	0.00	0.00
21,500.0	89.88	359.67	12,288.2	9,204.7	644.7	9,227.0	0.00	0.00	0.00
21,600.0	89.88	359.67	12,288.4	9,304.7	644.1	9,326.8	0.00	0.00	0.00
21,700.0	89.88	359.67	12,288.6	9,404.7	643.5	9,426.6	0.00	0.00	0.00
21,800.0	89.88	359.67	12,288.8	9,504.7	642.9	9,526.3	0.00	0.00	0.00
21,900.0	89.88	359.67	12,289.0	9,604.7	642.3	9,626.1	0.00	0.00	0.00
22,000.0	89.88	359.67	12,289.2	9,704.7	641.8	9,725.9	0.00	0.00	0.00
22,100.0	89.88	359.67	12,289.4	9,804.7	641.2	9,825.6	0.00	0.00	0.00
22,200.0	89.88	359.67	12,289.6	9,904.7	640.6	9,925.4	0.00	0.00	0.00

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well DOUBLE ABJ 16 FED COM 701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3609.3usft (TBD)
Site:	DOUBLE ABJ FED COM PROJECT	MD Reference:	*KB=30' @ 3609.3usft (TBD)
Well:	DOUBLE ABJ 16 FED COM 701H	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)
22,300.0	89.88	359.67	12,289.9	10,004.7	640.0	10,025.1	0.00	0.00	0.00
22,372.9	89.88	359.67	12,290.0	10,077.6	639.6	10,097.9	0.00	0.00	0.00
TD at 22372.9									

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 (DOUBLE ABJ FI	0.00	0.00	12,270.0	-330.3	698.6	440,905.98	704,651.69	32° 12' 37.570 N	103° 40' 17.926 W
- plan misses target center by 335.0usft at 12153.8usft MD (12102.2 TVD, -78.3 N, 555.2 E)									
- Circle (radius 50.0)									
PBHL (DOUBLE ABJ	-0.12	179.67	12,290.0	10,077.6	639.6	451,313.90	704,592.70	32° 14' 20.567 N	103° 40' 17.866 W
- plan hits target center									
- Rectangle (sides W100.0 H10,458.0 D20.0)									
LTP (DOUBLE ABJ FI	0.00	0.00	12,290.0	10,027.6	639.9	451,263.90	704,593.00	32° 14' 20.072 N	103° 40' 17.866 W
- plan misses target center by 22.9usft at 22300.0usft MD (12289.9 TVD, 10004.7 N, 640.0 E)									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5500	5500	0	0	Start Build 2.00
5750	5750	-4	10	Start 6061.3 hold at 5750.0 MD
11,811	11,788	-184	507	Start DLS 12.00 TFO -98.86
12,567	12,270	275	639	Start DLS 2.00 TFO -90.00
13,139	12,271	844	693	Start 9233.6 hold at 13139.3 MD
22,373	12,290	10,078	640	TD at 22372.9

Checked By: _____ Approved By: _____ Date: _____



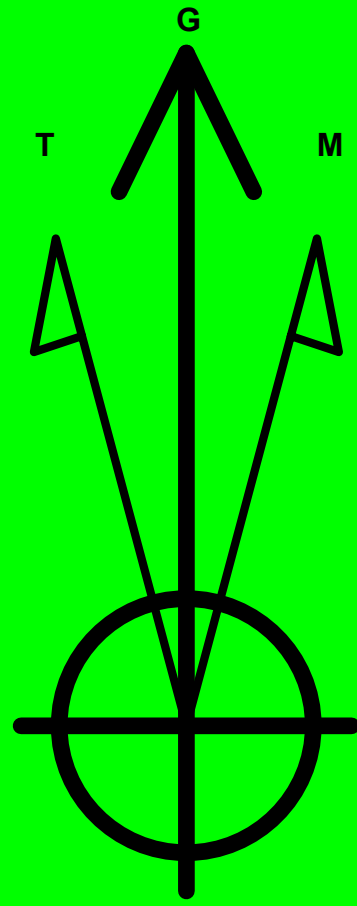
Project: BULLDOG PROSPECT (NM-E)
Site: DOUBLE ABJ FED COM PROJECT
Well: DOUBLE ABJ 16 FED COM 701H
Wellbore: OWB
Design: PWP1
GL: 3579.3
*KB=30' @ 3609.3usft (TBD)

WELL DETAILS: DOUBLE ABJ 16 FED COM 701H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	441236.30	703953.10	32° 12' 40.881 N	103° 40' 26.033 W

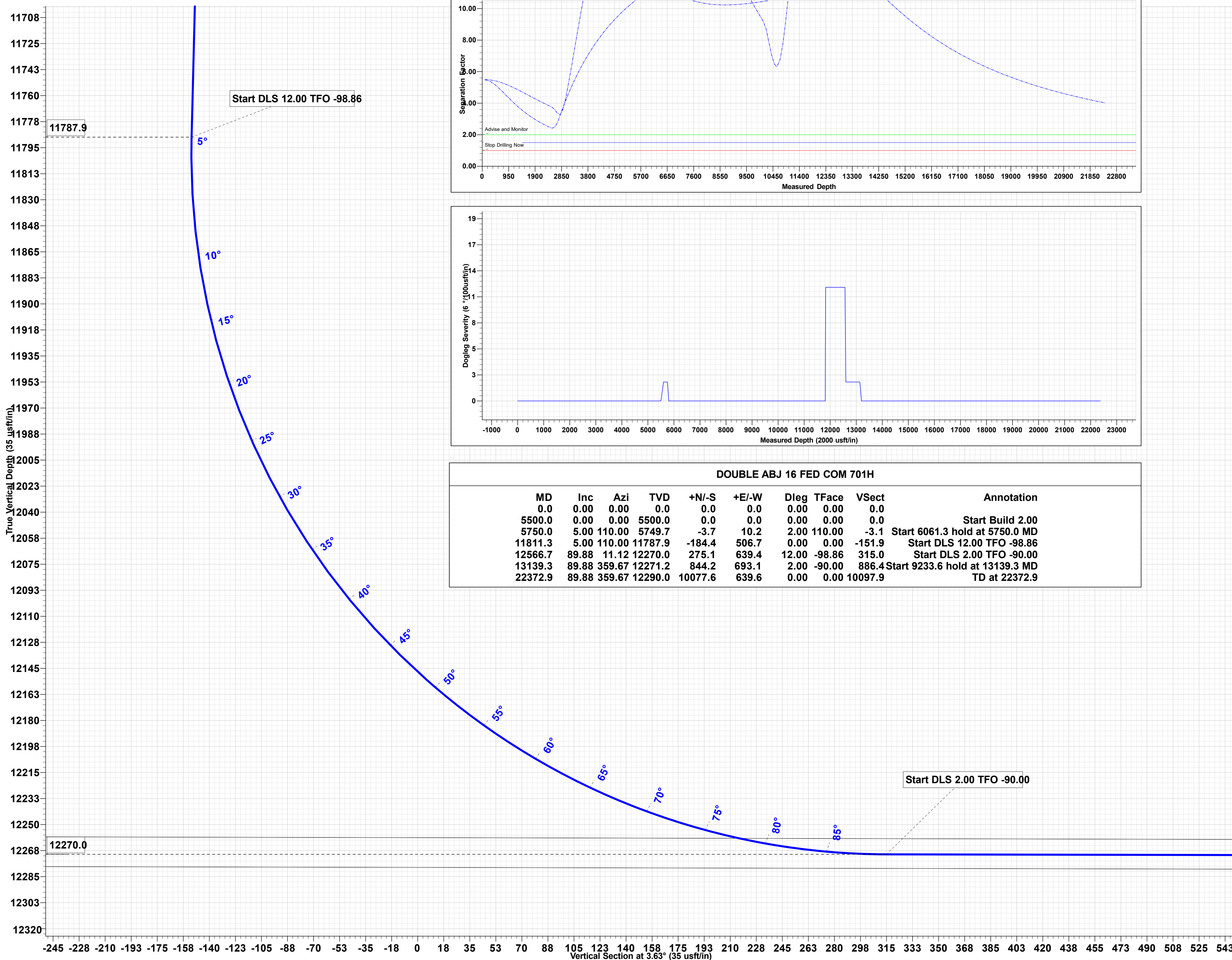
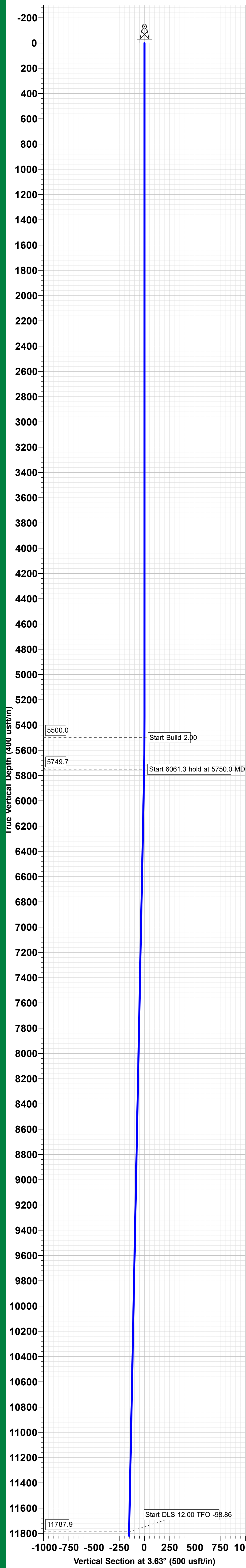
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (DOUBLE ABJ FED COM 701H)	12270.0	-330.3	698.6	440905.98	704651.69	32° 12' 37.570 N	103° 40' 17.926 W
LTP (DOUBLE ABJ FED COM 701H)	12290.0	10027.6	639.9	451263.90	704593.00	32° 14' 20.072 N	103° 40' 17.866 W
PBHL (DOUBLE ABJ FED COM 701H)	12290.0	10077.6	639.6	451313.90	704592.70	32° 14' 20.567 N	103° 40' 17.866 W

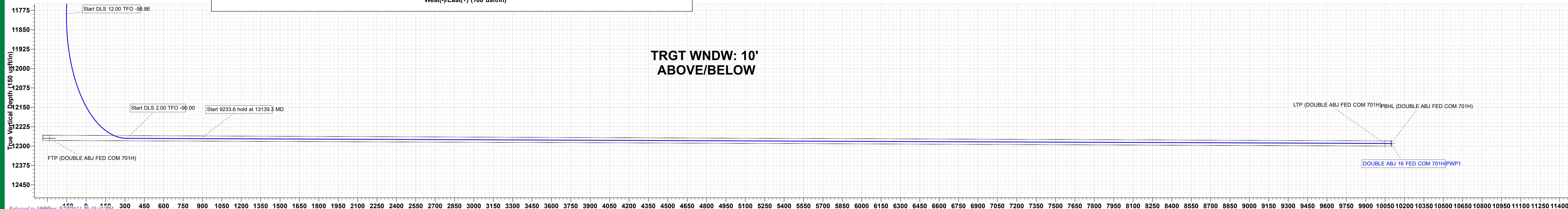
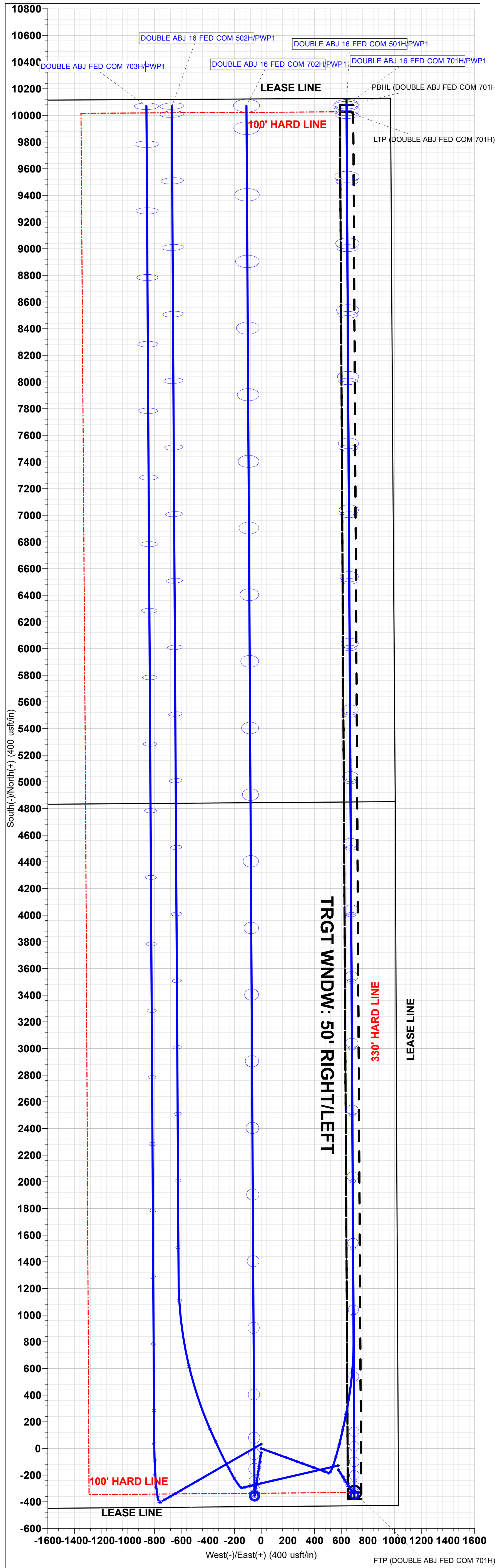
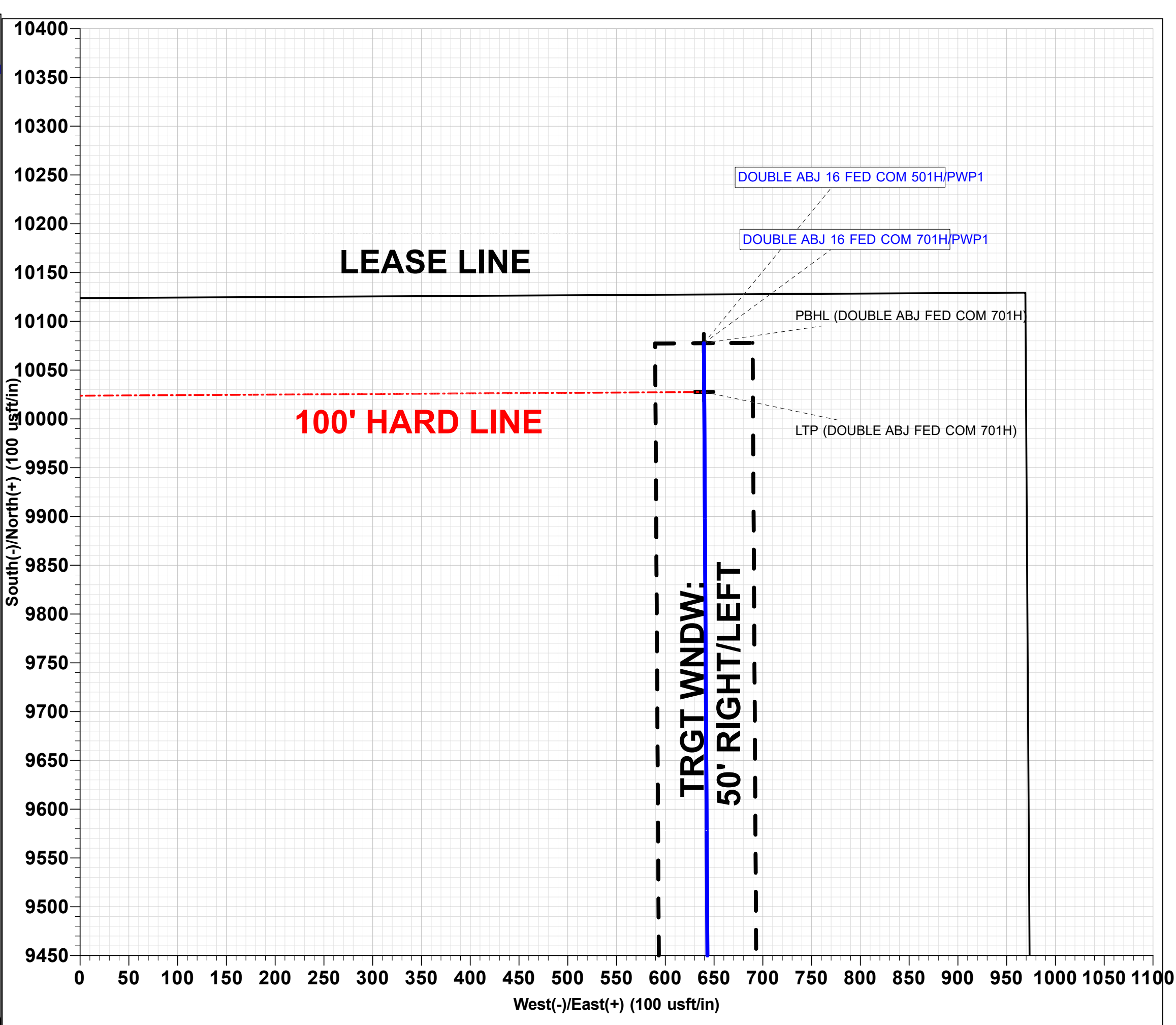
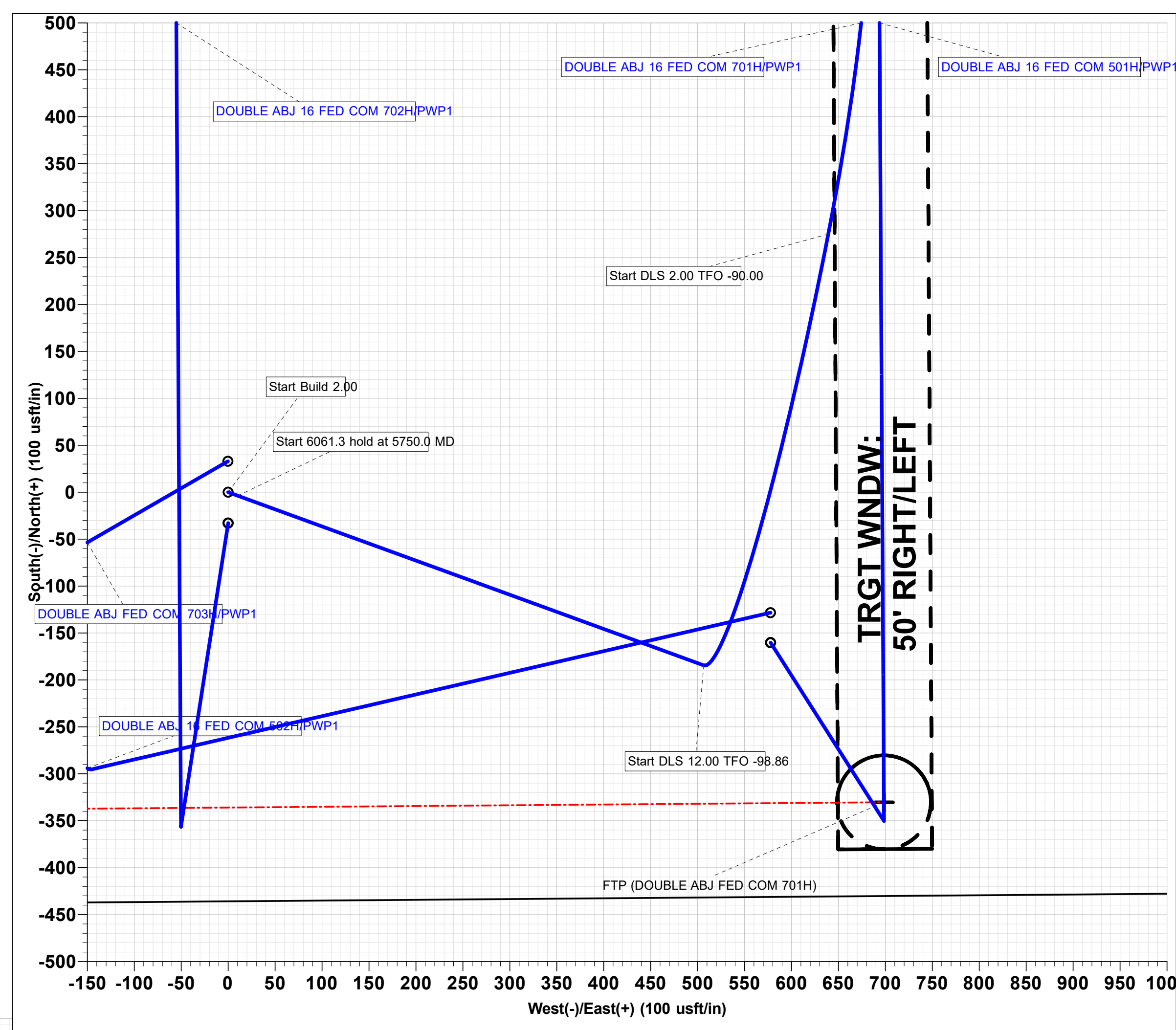


Azimuths to Grid North
True North: -0.35°
Magnetic North: 6.27°

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



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	
5500.0	0.00	0.00	5500.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
5750.0	5.00	110.00	5749.7	-3.7	10.2	2.00	110.00	-3.1	Start 6061.3 hold at 5750.0 MD
11911.3	5.00	110.00	11787.9	-184.4	506.7	0.00	0.00	-191.9	Start DLS 12.00 TFO -98.86
12566.7	89.88	11.12	12270.0	275.1	639.4	12.00	-98.86	315.0	Start DLS 2.00 TFO -90.00
13139.3	89.88	359.67	12271.2	844.2	693.1	2.00	-90.00	886.4	Start 9233.6 hold at 13139.3 MD
22372.9	89.88	359.67	12290.0	10077.6	639.6	0.00	0.00	10097.9	TD at 22372.9



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

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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 36052

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 36052
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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