

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.5. Lease Serial No. **NMNM108973**

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
COG OPERATING LLC3a. Address **600 West Illinois Ave, Midland, TX 79701**3b. Phone No. (include area code)
(432) 683-7443

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

8. Well Name and No. **HARRIER FEDERAL COM/701H**9. API Well No. **3002549887**4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 35/T25S/R32E/NMP10. Field and Pool or Exploratory Area
.WC-025 G-09 S253309P; UPPER WOLFCAMP11. Country or Parish, State
LEA/NM**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

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

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

COG Operating requests a revision to our approved APD for this well to reflect changes casing design and TD.

Change TD to: 22,902 MD, 12,429 TVD

New casing program attached.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
STAN WAGNER / Ph: (432) 253-9685Regulatory Advisor
Title

Signature

Date **07/19/2022****THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

CHRISTOPHER WALLS / Ph: (575) 234-2234 / ApprovedPetroleum Engineer
Title11/14/2022
Date

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

Office **CARLSBAD**

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

(Instructions on page 2)

Additional Information

Location of Well

0. SHL: NWNW / 890 FNL / 985 FWL / TWSP: 25S / RANGE: 32E / SECTION: 35 / LAT: 32.091804 / LONG: -103.651071 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 100 FNL / 985 FWL / TWSP: 25S / RANGE: 32E / SECTION: 35 / LAT: 32.093977 / LONG: -103.646777 (TVD: 12130 feet, MD: 12200 feet)

BHL: SESW / 50 FSL / 2310 FWL / TWSP: 26S / RANGE: 32E / SECTION: 2 / LAT: 32.065147 / LONG: -103.646784 (TVD: 12282 feet, MD: 22273 feet)

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COG Operating, LLC - Harrier Federal Com 701H

1. Geologic Formations

TVD of target	12,429' EOL	Pilot hole depth	NA
MD at TD:	22,902'	Deepest expected fresh water:	207'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	689	Water	
Top of Salt	1070	Salt	
Base of Salt	4443	Salt	
Lamar	4641	Salt Water	
Bell Canyon	4681	Salt Water	
Cherry Canyon	5671	Oil/Gas	
Brushy Canyon	7206	Oil/Gas	
Bone Spring Lime	8784	Oil/Gas	
1st Bone Spring Sand	9751	Oil/Gas	
2nd Bone Spring Sand	9981	Oil/Gas	
3rd Bone Spring Sand	11603	Oil/Gas	
Wolfcamp A	12102	Target	
Wolfcamp B	0	Not Penetrated	
Wolfcamp D	0	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	1050	10.75"	45.5	J55	BTC	5.14	1.71	21.77	22.96
9.875"	0	8300	7.625"	29.7	L80-ICY	BTC	1.60	1.07	2.95	2.97
8.750"	8300	11800	7.625"	29.7	P110-ICY	W513	1.21	1.38	2.68	1.59
6.75"	0	11300	5.5"	23	P110-CY	BTC	1.98	2.34	2.80	2.79
6.75"	11300	22,902	5.5"	23	P110-CY	W441	1.80	2.13	2.55	2.47
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and
All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

The 5 1/2" W441 casing will be run back 200' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

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	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

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3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	501	12.8	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	840	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	709	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	976	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

If losses are encountered in the intermediate section a DV/ECP tool will be run ~50' above the Lamar Lime top, cement will be adjusted accordingly if this contingency is necessary.

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results

Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	11,300'	35% OH in Lateral (KOP to EOL)

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4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
9-7/8"	13-5/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	10M	5M Annular	x	5000psi
			Blind Ram	x	10000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

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5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	7-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 9	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 12.5	35-45	<20

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Y	No Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain.
N	Coring? If yes, explain.

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
Y	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	

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7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8080 psi at 12429' TVD
Abnormal Temperature	NO 180 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

Y	Is it a walking operation?
Y	Is casing pre-set?

x	H ₂ S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

HARRIER FEDERAL PROJECT (LEA 2632)

HARRIER FEDERAL COM #701H

300254988700

OWB

PWP0

Anticollision Report

17 July, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 95.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	7/16/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	1,500.0	PWP0 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
1,500.0	12,124.7	PWP0 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
12,124.7	22,901.5	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
HARRIER FEDERAL PROJECT (LEA 2632)						
FEDERAL SUNSHINE ROYALTY #1 (P&A) - OWB - AW						Out of range
HARRIER 35 FEDERAL COM #1H - OWB - AWP	14,297.6	13,211.6	386.8	327.3	6.502	CC, ES
HARRIER 35 FEDERAL COM #1H - OWB - AWP	14,345.0	13,210.3	389.7	329.3	6.453	SF
HARRIER FEDERAL COM #101H - OWB - AWP	9,794.1	19,699.2	722.8	622.5	7.201	CC, ES, SF
HARRIER FEDERAL COM #102H - OWB - AWP						Out of range
HARRIER FEDERAL COM #201H - OWB - AWP						Out of range
HARRIER FEDERAL COM #301H - OWB - AWP	9,836.6	19,730.1	149.1	48.3	1.479	Advise and Monitor, CC, ES,
HARRIER FEDERAL COM #302H - OWB - AWP	10,335.6	20,184.1	154.2	53.5	1.532	Advise and Monitor, CC, ES,
HARRIER FEDERAL COM #303H - OWB - AWP	9,368.3	19,211.0	737.0	636.9	7.365	CC, ES, SF
HARRIER FEDERAL COM #304H - OWB - AWP						Out of range
HARRIER FEDERAL COM #305H - OWB - AWP						Out of range
HARRIER FEDERAL COM #702H - OWB - PWP0	1,498.6	1,499.1	53.9	47.1	7.860	CC, ES
HARRIER FEDERAL COM #702H - OWB - PWP0	1,520.0	1,520.2	54.0	47.1	7.839	SF
HARRIER FEDERAL COM #703H - OWB - PWP0	1,425.0	1,425.5	30.0	23.7	4.767	CC
HARRIER FEDERAL COM #703H - OWB - PWP0	1,520.0	1,520.6	30.0	23.7	4.732	ES, SF
HARRIER FEDERAL COM #704H - OWB - PWP0	1,425.0	1,425.3	60.0	53.7	9.534	CC
HARRIER FEDERAL COM #704H - OWB - PWP0	1,427.1	1,427.4	60.0	53.7	9.533	ES
HARRIER FEDERAL COM #704H - OWB - PWP0	1,520.0	1,520.0	60.1	53.8	9.480	SF
HARRIER FEDERAL COM #801H - OWB - PWP0	1,876.1	1,877.4	37.8	30.6	5.212	CC, ES
HARRIER FEDERAL COM #801H - OWB - PWP0	22,901.5	22,636.5	353.7	182.9	2.071	SF
HARRIER FEDERAL COM #802H - OWB - PWP0	1,425.0	1,425.8	74.7	68.2	11.406	CC
HARRIER FEDERAL COM #802H - OWB - PWP0	1,520.0	1,520.8	74.7	68.1	11.282	ES, SF
QUIJOTE 2 STATE COM #702H - OWB - AWP						Out of range
QUIJOTE 2 STATE COM #704H - OWB - AWP						Out of range
QUIJOTE 2 STATE COM #706H - OWB - AWP	18,222.0	12,444.3	670.5	581.2	7.507	CC
QUIJOTE 2 STATE COM #706H - OWB - AWP	22,515.0	16,725.5	730.5	567.3	4.476	ES
QUIJOTE 2 STATE COM #706H - OWB - AWP	22,895.0	17,057.0	740.5	570.1	4.346	SF
QUIJOTE 2 STATE COM #713H - OWB - AWP						Out of range
QUIJOTE 2 STATE COM #715H - OWB - AWP						Out of range

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
PILEDRIIVER & FIGURE FOUR FEDERAL PROJECT						
HARRIER FEDERAL COM #202H - OWB - AWP	0.0	1.0	851.0			
HARRIER FEDERAL COM #202H - OWB - AWP	1,805.0	1,812.0	873.9	865.9	110.164	SF
MONSOON FEDERAL SWD #1 - OWB - AWP						Out of range
PILEDRIIVER FEDERAL #711H - OWB - PWP0						Out of range
PILEDRIIVER FEDERAL #712H - OWB - PWP0						Out of range
PILEDRIIVER FEDERAL #713H - OWB - PWP0						Out of range
PILEDRIIVER FEDERAL #714H - OWB - PWP0						Out of range
PILEDRIIVER FEDERAL #715H - OWB - PWP0						Out of range
PILEDRIIVER FEDERAL #716H - OWB - PWP0						Out of range

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
HARRIER FEDERAL PROJECT (LEA 2632)						
FEDERAL SUNSHINE ROYALTY #1 (P&A) - OWB - AW	22,901.5	4,750.0				Out of Range @TD
HARRIER 35 FEDERAL COM #1H - OWB - AWP	22,901.5	12,701.0				Out of Range @TD
HARRIER FEDERAL COM #101H - OWB - AWP	22,901.5	9,848.0				Out of Range @TD
HARRIER FEDERAL COM #102H - OWB - AWP	22,901.5	9,357.0				Out of Range @TD
HARRIER FEDERAL COM #201H - OWB - AWP	22,901.5	9,553.0				Out of Range @TD
HARRIER FEDERAL COM #301H - OWB - AWP	22,901.5	9,869.9				Out of Range @TD
HARRIER FEDERAL COM #302H - OWB - AWP	22,901.5	10,389.9				Out of Range @TD
HARRIER FEDERAL COM #303H - OWB - AWP	22,901.5	9,369.0				Out of Range @TD
HARRIER FEDERAL COM #304H - OWB - AWP	22,901.5	10,309.0				Out of Range @TD
HARRIER FEDERAL COM #305H - OWB - AWP	22,901.5	9,852.0				Out of Range @TD
HARRIER FEDERAL COM #702H - OWB - PWP0	22,901.5	22,482.6				Out of Range @TD
HARRIER FEDERAL COM #703H - OWB - PWP0	22,901.5	22,790.7	879.9	711.6	5.227	
HARRIER FEDERAL COM #704H - OWB - PWP0	22,901.5	22,507.6				Out of Range @TD
HARRIER FEDERAL COM #801H - OWB - PWP0	22,901.5	22,636.5	353.7	182.9	2.071	SF
HARRIER FEDERAL COM #802H - OWB - PWP0	22,901.5	22,832.7				Out of Range @TD
QUIJOTE 2 STATE COM #702H - OWB - AWP	22,901.5	17,101.0				Out of Range @TD
QUIJOTE 2 STATE COM #704H - OWB - AWP	22,901.5	17,135.0				Out of Range @TD
QUIJOTE 2 STATE COM #706H - OWB - AWP	22,901.5	17,057.0	741.1	570.8	4.350	
QUIJOTE 2 STATE COM #713H - OWB - AWP	22,901.5	17,176.7				Out of Range @TD
QUIJOTE 2 STATE COM #715H - OWB - AWP	22,901.5	17,254.4				Out of Range @TD
PILEDRIIVER & FIGURE FOUR FEDERAL PROJECT						
HARRIER FEDERAL COM #202H - OWB - AWP	22,901.5	19,461.0				Out of Range @TD
MONSOON FEDERAL SWD #1 - OWB - AWP	22,901.5	12,259.1				Out of Range @TD
PILEDRIIVER FEDERAL #711H - OWB - PWP0	22,901.5	22,781.0				Out of Range @TD
PILEDRIIVER FEDERAL #712H - OWB - PWP0	22,901.5	22,476.7				Out of Range @TD
PILEDRIIVER FEDERAL #713H - OWB - PWP0	22,901.5	22,756.6				Out of Range @TD
PILEDRIIVER FEDERAL #714H - OWB - PWP0	22,901.5	22,481.0				Out of Range @TD
PILEDRIIVER FEDERAL #715H - OWB - PWP0	22,901.5	22,826.6				Out of Range @TD
PILEDRIIVER FEDERAL #716H - OWB - PWP0	22,901.5	22,581.5				Out of Range @TD

Offset Design: HARRIER FEDERAL PROJECT (LEA 2632) - HARRIER 35 FEDERAL COM #1H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 100-GYRO-NS, 4800-MWD													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
13,395.0	12,429.0	13,242.2	12,025.8	17.2	46.0	3.75		-1,083.8	1,333.0	981.5	920.2	61.24	16.026
13,490.0	12,429.0	13,240.0	12,026.0	17.3	45.9	0.14		-1,083.8	1,335.2	895.0	834.0	61.06	14.659

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT (LEA 2632) - HARRIER 35 FEDERAL COM #1H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-GYRO-NS, 4800-MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
13,585.0	12,429.0	13,235.2	12,026.4	17.4	45.8	-0.57	-1,084.0	1,340.0	810.4	749.6	60.81	13.326	
13,680.0	12,429.0	13,232.0	12,026.6	17.5	45.8	-1.03	-1,084.1	1,343.1	728.4	667.8	60.59	12.023	
13,775.0	12,429.0	13,228.9	12,026.9	17.7	45.7	-1.50	-1,084.2	1,346.3	649.9	589.6	60.34	10.772	
13,870.0	12,429.0	13,225.8	12,027.1	18.0	45.7	-1.96	-1,084.3	1,349.4	576.4	516.4	60.05	9.599	
13,965.0	12,429.0	13,222.6	12,027.4	18.4	45.6	-2.43	-1,084.4	1,352.5	510.0	450.3	59.69	8.545	
14,060.0	12,429.0	13,219.5	12,027.6	18.9	45.6	-2.89	-1,084.5	1,355.7	453.9	394.7	59.23	7.663	
14,155.0	12,429.0	13,216.3	12,027.8	19.4	45.5	-3.35	-1,084.6	1,358.8	412.2	353.4	58.79	7.012	
14,250.0	12,429.0	13,213.2	12,028.0	19.9	45.5	-3.82	-1,084.7	1,361.9	389.7	330.8	58.94	6.612	
14,297.6	12,429.0	13,211.6	12,028.2	20.1	45.4	-4.05	-1,084.7	1,363.5	386.8	327.3	59.50	6.502 CC, ES	
14,345.0	12,429.0	13,210.3	12,028.2	20.4	45.4	-4.25	-1,084.8	1,364.8	389.7	329.3	60.39	6.453 SF	
14,440.0	12,429.0	13,206.3	12,028.5	20.9	45.3	-4.84	-1,084.9	1,368.8	412.2	349.4	62.76	6.567	
14,535.0	12,429.0	13,202.0	12,028.8	21.5	45.3	-5.47	-1,085.0	1,373.1	453.8	388.8	64.92	6.990	
14,630.0	12,429.0	13,197.5	12,029.2	22.1	45.2	-6.14	-1,085.2	1,377.6	509.9	443.5	66.33	7.687	
14,725.0	12,429.0	13,192.7	12,029.5	22.6	45.1	-6.85	-1,085.4	1,382.4	576.2	509.1	67.07	8.592	
14,820.0	12,429.0	13,187.5	12,029.9	23.2	45.0	-7.61	-1,085.6	1,387.5	649.7	582.3	67.36	9.644	
14,915.0	12,429.0	13,182.1	12,030.3	23.8	44.9	-8.42	-1,085.8	1,393.0	728.1	660.7	67.41	10.802	
15,010.0	12,429.0	13,176.2	12,030.7	24.4	44.8	-9.28	-1,086.0	1,398.8	810.1	742.8	67.32	12.033	
15,105.0	12,429.0	13,170.4	12,031.2	25.0	44.7	-10.14	-1,086.2	1,404.6	894.6	827.4	67.17	13.318	
15,200.0	12,429.0	13,164.5	12,031.7	25.6	44.6	-10.99	-1,086.5	1,410.4	981.0	914.0	67.00	14.643	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT (LEA 2632) - HARRIER FEDERAL COM #101H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8898-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,120.0	8,946.9	19,755.0	9,491.2	13.2	89.6	-86.75	841.1	441.2	986.7	887.4	99.26	9.940		
9,215.0	9,041.9	19,748.7	9,491.8	13.2	89.6	-87.24	834.9	441.3	924.9	825.4	99.49	9.296		
9,310.0	9,136.9	19,740.6	9,492.5	13.3	89.5	-87.88	826.8	441.5	869.0	769.3	99.68	8.718		
9,405.0	9,231.9	19,732.5	9,493.2	13.4	89.4	-88.52	818.7	441.6	820.2	720.4	99.84	8.216		
9,500.0	9,326.9	19,724.3	9,493.9	13.5	89.4	-89.16	810.6	441.8	780.0	680.0	99.96	7.803		
9,595.0	9,421.9	19,716.2	9,494.6	13.5	89.3	-89.80	802.5	442.0	749.6	649.5	100.07	7.490		
9,690.0	9,516.9	19,708.1	9,495.3	13.6	89.2	-90.45	794.4	442.1	730.2	630.1	100.19	7.289		
9,785.0	9,611.9	19,699.9	9,495.9	13.7	89.2	-91.09	786.3	442.3	722.9	622.5	100.36	7.203		
9,794.1	9,620.9	19,699.2	9,496.0	13.7	89.1	-91.15	785.5	442.3	722.8	622.5	100.38	7.201	CC, ES, SF	
9,880.0	9,706.9	19,691.8	9,496.6	13.8	89.1	-91.73	778.2	442.4	727.9	627.3	100.60	7.236		
9,975.0	9,801.9	19,683.7	9,497.3	13.9	89.0	-92.37	770.1	442.6	745.0	644.1	100.88	7.385		
10,070.0	9,896.9	19,676.1	9,498.0	14.0	88.9	-92.97	762.5	442.8	773.4	672.2	101.19	7.643		
10,165.0	9,991.9	19,668.9	9,498.5	14.0	88.9	-93.54	755.3	442.9	811.9	710.4	101.49	8.000		
10,260.0	10,086.9	19,662.1	9,499.1	14.1	88.8	-94.07	748.6	443.1	859.1	757.4	101.76	8.443		
10,355.0	10,181.9	19,655.7	9,499.5	14.2	88.8	-94.58	742.2	443.2	913.8	811.8	102.02	8.957		
10,450.0	10,276.9	19,649.7	9,500.0	14.3	88.7	-95.05	736.2	443.3	974.6	872.4	102.26	9.531		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT (LEA 2632) - HARRIER FEDERAL COM #301H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 100-Standard Keeper 104, 8973-MWD+IFR1+FDIR													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,930.0	8,756.9	19,766.3	9,543.6	13.0	89.8	76.56	835.6	1,314.2	918.0	819.7	98.30	9.339	
9,025.0	8,851.9	19,762.6	9,543.7	13.1	89.8	77.95	831.9	1,314.2	824.5	726.0	98.57	8.365	
9,120.0	8,946.9	19,758.8	9,543.9	13.2	89.8	79.35	828.1	1,314.2	731.4	632.5	98.86	7.398	
9,215.0	9,041.9	19,755.0	9,544.1	13.2	89.7	80.76	824.3	1,314.2	638.7	539.6	99.16	6.441	
9,310.0	9,136.9	19,751.2	9,544.2	13.3	89.7	82.18	820.5	1,314.2	546.9	447.4	99.49	5.497	
9,405.0	9,231.9	19,747.4	9,544.4	13.4	89.7	83.62	816.7	1,314.1	456.3	356.4	99.86	4.569	
9,500.0	9,326.9	19,743.6	9,544.5	13.5	89.6	85.06	812.9	1,314.1	367.9	267.6	100.29	3.668	
9,595.0	9,421.9	19,739.8	9,544.7	13.5	89.6	86.51	809.1	1,314.1	283.7	182.9	100.83	2.814	
9,690.0	9,516.9	19,736.0	9,544.8	13.6	89.6	87.96	805.3	1,314.1	209.0	107.5	101.45	2.060	
9,785.0	9,611.9	19,732.2	9,545.0	13.7	89.5	89.42	801.5	1,314.1	157.7	56.3	101.43	1.555 Advise and Monitor	
9,836.6	9,663.5	19,730.1	9,545.0	13.7	89.5	90.21	799.5	1,314.1	149.1	48.3	100.80	1.479 Advise and Monitor, CC, ES, SF	
9,880.0	9,706.9	19,728.4	9,545.1	13.8	89.5	90.88	797.7	1,314.1	155.3	54.8	100.48	1.545 Advise and Monitor	
9,975.0	9,801.9	19,724.6	9,545.3	13.9	89.5	92.33	793.9	1,314.1	203.4	102.8	100.60	2.021	
10,070.0	9,896.9	19,720.8	9,545.4	14.0	89.4	93.79	790.1	1,314.1	276.8	176.0	100.81	2.746	
10,165.0	9,991.9	19,717.0	9,545.6	14.0	89.4	95.24	786.3	1,314.0	360.4	259.4	101.06	3.567	
10,260.0	10,086.9	19,713.2	9,545.7	14.1	89.4	96.68	782.5	1,314.0	448.6	347.2	101.33	4.427	
10,355.0	10,181.9	19,709.3	9,545.9	14.2	89.3	98.17	778.6	1,314.0	539.0	437.4	101.62	5.305	
10,450.0	10,276.9	19,705.2	9,546.0	14.3	89.3	99.69	774.6	1,314.0	630.8	528.9	101.90	6.190	
10,545.0	10,371.9	19,701.1	9,546.2	14.4	89.3	101.21	770.5	1,314.0	723.4	621.2	102.19	7.079	
10,640.0	10,466.9	19,696.9	9,546.4	14.5	89.2	102.75	766.3	1,314.0	816.5	714.0	102.48	7.967	
10,735.0	10,561.9	19,692.7	9,546.6	14.6	89.2	104.29	762.1	1,313.9	910.0	807.2	102.77	8.854	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT (LEA 2632) - HARRIER FEDERAL COM #302H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 100-Standard Keeper 104, 9382-MWD+IFR1+FDIR													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,405.0	9,231.9	20,201.0	10,041.5	13.4	89.3	-83.51	817.5	1,010.9	943.2	843.9	99.30	9.499	
9,500.0	9,326.9	20,199.2	10,041.5	13.5	89.3	-84.14	815.8	1,010.9	849.6	750.1	99.55	8.535	
9,595.0	9,421.9	20,197.5	10,041.6	13.5	89.3	-84.78	814.1	1,010.9	756.4	656.6	99.80	7.579	
9,690.0	9,516.9	20,195.8	10,041.6	13.6	89.3	-85.41	812.4	1,010.9	663.7	563.7	100.05	6.634	
9,785.0	9,611.9	20,194.1	10,041.6	13.7	89.3	-86.05	810.6	1,010.9	571.8	471.4	100.30	5.700	
9,880.0	9,706.9	20,192.3	10,041.7	13.8	89.2	-86.69	808.9	1,010.9	481.0	380.4	100.54	4.784	
9,975.0	9,801.9	20,190.6	10,041.7	13.9	89.2	-87.33	807.2	1,010.9	392.2	291.4	100.77	3.892	
10,070.0	9,896.9	20,188.9	10,041.7	14.0	89.2	-87.97	805.5	1,010.8	307.1	206.2	100.96	3.042	
10,165.0	9,991.9	20,187.2	10,041.8	14.0	89.2	-88.61	803.7	1,010.8	230.0	129.0	101.00	2.277	
10,260.0	10,086.9	20,185.4	10,041.8	14.1	89.2	-89.25	802.0	1,010.8	171.7	71.1	100.61	1.707 Advise and Monitor	
10,335.6	10,162.5	20,184.1	10,041.8	14.2	89.2	-89.76	800.6	1,010.8	154.2	53.5	100.65	1.532 Advise and Monitor, CC, ES, SF	
10,355.0	10,181.9	20,183.7	10,041.8	14.2	89.2	-89.89	800.3	1,010.8	155.4	54.4	100.96	1.539 Advise and Monitor	
10,450.0	10,276.9	20,182.0	10,041.9	14.3	89.2	-90.53	798.6	1,010.8	191.9	89.3	102.61	1.871 Advise and Monitor	
10,545.0	10,371.9	20,180.3	10,041.9	14.4	89.1	-91.17	796.8	1,010.8	260.0	156.8	103.16	2.520	
10,640.0	10,466.9	20,178.5	10,041.9	14.5	89.1	-91.81	795.1	1,010.8	341.1	237.7	103.42	3.298	
10,735.0	10,561.9	20,176.8	10,042.0	14.6	89.1	-92.45	793.4	1,010.8	428.0	324.4	103.65	4.129	
10,830.0	10,656.9	20,175.1	10,042.0	14.7	89.1	-93.09	791.7	1,010.8	517.7	413.8	103.90	4.983	
10,925.0	10,751.9	20,173.4	10,042.0	14.7	89.1	-93.73	790.0	1,010.8	609.1	504.9	104.16	5.847	
11,020.0	10,846.9	20,171.6	10,042.0	14.8	89.1	-94.37	788.2	1,010.8	701.4	596.9	104.44	6.716	
11,115.0	10,941.9	20,169.9	10,042.1	14.9	89.0	-95.00	786.5	1,010.8	794.3	689.6	104.72	7.585	
11,210.0	11,036.9	20,168.2	10,042.1	15.0	89.0	-95.64	784.8	1,010.8	887.7	782.7	105.02	8.453	
11,305.0	11,131.9	20,166.5	10,042.1	15.1	89.0	-96.27	783.1	1,010.8	981.4	876.0	105.32	9.318	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT (LEA 2632) - HARRIER FEDERAL COM #303H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8315-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,740.0	8,566.9	19,227.3	9,070.5	12.9	89.1	-89.36	808.2	427.9	968.3	870.0	98.33	9.848	
8,835.0	8,661.9	19,224.9	9,070.6	13.0	89.1	-89.55	805.8	427.9	909.6	810.9	98.66	9.220	
8,930.0	8,756.9	19,222.4	9,070.6	13.0	89.1	-89.74	803.3	427.9	857.4	758.4	98.97	8.664	
9,025.0	8,851.9	19,219.9	9,070.7	13.1	89.1	-89.94	800.8	427.9	813.0	713.7	99.25	8.191	
9,120.0	8,946.9	19,217.5	9,070.8	13.2	89.1	-90.13	798.3	428.0	777.7	678.2	99.50	7.816	
9,215.0	9,041.9	19,215.0	9,070.8	13.2	89.0	-90.32	795.9	428.0	752.8	653.0	99.72	7.549	
9,310.0	9,136.9	19,212.5	9,070.9	13.3	89.0	-90.51	793.4	428.0	739.3	639.4	99.94	7.398	
9,368.3	9,195.1	19,211.0	9,070.9	13.4	89.0	-90.63	791.9	428.0	737.0	636.9	100.07	7.365	CC, ES, SF
9,405.0	9,231.9	19,210.0	9,071.0	13.4	89.0	-90.70	790.9	428.1	737.9	637.8	100.15	7.368	
9,500.0	9,326.9	19,207.6	9,071.0	13.5	89.0	-90.90	788.5	428.1	748.7	648.3	100.38	7.459	
9,595.0	9,421.9	19,205.1	9,071.1	13.5	88.9	-91.09	786.0	428.1	771.1	670.5	100.59	7.665	
9,690.0	9,516.9	19,202.6	9,071.2	13.6	88.9	-91.28	783.5	428.1	804.1	703.3	100.80	7.978	
9,785.0	9,611.9	19,200.2	9,071.2	13.7	88.9	-91.47	781.1	428.2	846.6	745.6	100.98	8.384	
9,880.0	9,706.9	19,197.7	9,071.3	13.8	88.9	-91.66	778.6	428.2	897.1	796.0	101.15	8.870	
9,975.0	9,801.9	19,195.2	9,071.3	13.9	88.9	-91.86	776.1	428.2	954.5	853.2	101.31	9.422	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT (LEA 2632) - HARRIER FEDERAL COM #702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 1500-Standard Keeper 104, 11723-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.0	0.0	0.5	0.5	3.0	3.0	-33.81	44.8	-30.0	53.9				
95.0	95.0	95.5	95.5	3.0	3.0	-33.81	44.8	-30.0	53.9	47.9	6.00	8.985	
190.0	190.0	190.5	190.5	3.0	3.0	-33.81	44.8	-30.0	53.9	47.9	6.01	8.976	
285.0	285.0	285.5	285.5	3.0	3.0	-33.81	44.8	-30.0	53.9	47.9	6.02	8.954	
380.0	380.0	380.5	380.5	3.0	3.0	-33.81	44.8	-30.0	53.9	47.9	6.04	8.920	
475.0	475.0	475.5	475.5	3.0	3.0	-33.81	44.8	-30.0	53.9	47.8	6.08	8.875	
570.0	570.0	570.5	570.5	3.1	3.1	-33.81	44.8	-30.0	53.9	47.8	6.11	8.819	
665.0	665.0	665.5	665.5	3.1	3.1	-33.81	44.8	-30.0	53.9	47.8	6.16	8.753	
760.0	760.0	760.5	760.5	3.1	3.1	-33.81	44.8	-30.0	53.9	47.7	6.21	8.677	
855.0	855.0	855.5	855.5	3.2	3.2	-33.81	44.8	-30.0	53.9	47.6	6.27	8.592	
950.0	950.0	950.5	950.5	3.2	3.2	-33.81	44.8	-30.0	53.9	47.6	6.34	8.500	
1,045.0	1,045.0	1,045.5	1,045.5	3.3	3.3	-33.81	44.8	-30.0	53.9	47.5	6.42	8.401	
1,140.0	1,140.0	1,140.5	1,140.5	3.3	3.3	-33.81	44.8	-30.0	53.9	47.4	6.50	8.295	
1,235.0	1,235.0	1,235.5	1,235.5	3.4	3.4	-33.81	44.8	-30.0	53.9	47.3	6.59	8.184	
1,330.0	1,330.0	1,330.5	1,330.5	3.4	3.4	-33.81	44.8	-30.0	53.9	47.2	6.68	8.069	
1,425.0	1,425.0	1,425.5	1,425.5	3.5	3.5	-33.81	44.8	-30.0	53.9	47.1	6.78	7.950	
1,498.6	1,498.6	1,499.1	1,499.1	3.5	3.5	-89.54	44.8	-30.0	53.9	47.1	6.86	7.860 CC, ES	
1,520.0	1,520.0	1,520.2	1,520.2	3.6	3.6	-89.36	44.9	-30.0	54.0	47.1	6.89	7.839 SF	
1,615.0	1,615.0	1,613.8	1,613.7	3.6	3.6	-90.24	47.1	-29.9	55.7	48.8	6.96	8.011	
1,710.0	1,709.8	1,707.2	1,707.0	3.7	3.7	-92.16	52.3	-29.6	60.0	53.0	6.99	8.578	
1,805.0	1,804.4	1,800.0	1,799.5	3.7	3.8	-94.67	60.5	-29.2	66.9	59.8	7.01	9.534	
1,900.0	1,898.7	1,893.1	1,891.9	3.8	3.8	-97.36	71.7	-28.6	76.4	69.4	7.03	10.873	
1,995.0	1,992.5	1,986.6	1,984.4	3.8	3.9	-100.25	85.3	-27.8	88.2	81.2	7.04	12.533	
2,090.0	2,085.8	2,080.5	2,077.3	3.9	4.0	-104.06	99.2	-27.1	101.1	94.1	7.04	14.361	
2,185.0	2,178.5	2,174.0	2,169.8	4.0	4.1	-108.42	113.0	-26.4	115.4	108.3	7.03	16.399	
2,280.0	2,270.4	2,267.1	2,261.8	4.0	4.1	-113.02	126.7	-25.6	131.3	124.3	7.03	18.672	
2,375.0	2,362.2	2,360.1	2,353.8	4.1	4.2	-117.03	140.5	-24.9	148.3	141.2	7.06	21.017	
2,470.0	2,454.0	2,453.1	2,445.7	4.2	4.3	-120.21	154.2	-24.2	165.9	158.7	7.11	23.343	
2,565.0	2,545.7	2,546.0	2,537.7	4.2	4.4	-122.79	167.9	-23.5	183.8	176.6	7.17	25.623	
2,660.0	2,637.5	2,639.0	2,629.6	4.3	4.5	-124.90	181.6	-22.7	202.1	194.8	7.26	27.839	
2,755.0	2,729.2	2,732.0	2,721.6	4.4	4.6	-126.66	195.4	-22.0	220.5	213.2	7.36	29.979	
2,850.0	2,821.0	2,824.9	2,813.5	4.5	4.7	-128.15	209.1	-21.3	239.2	231.7	7.47	32.036	
2,945.0	2,912.8	2,917.9	2,905.4	4.6	4.7	-129.43	222.8	-20.5	257.9	250.4	7.59	34.005	
3,040.0	3,004.5	3,010.9	2,997.4	4.7	4.8	-130.53	236.5	-19.8	276.8	269.1	7.71	35.884	
3,135.0	3,096.3	3,103.8	3,089.3	4.8	4.9	-131.49	250.2	-19.1	295.8	287.9	7.85	37.673	
3,230.0	3,188.1	3,196.8	3,181.3	4.9	5.0	-132.34	264.0	-18.4	314.8	306.8	8.00	39.371	
3,325.0	3,279.8	3,289.8	3,273.2	5.0	5.1	-133.09	277.7	-17.6	333.9	325.8	8.15	40.979	
3,420.0	3,371.6	3,382.7	3,365.2	5.1	5.2	-133.75	291.4	-16.9	353.1	344.8	8.31	42.499	
3,515.0	3,463.3	3,475.7	3,457.1	5.2	5.3	-134.35	305.1	-16.2	372.3	363.8	8.47	43.933	
3,610.0	3,555.1	3,568.7	3,549.1	5.3	5.4	-134.89	318.9	-15.4	391.5	382.9	8.65	45.285	
3,705.0	3,646.9	3,661.7	3,641.0	5.4	5.5	-135.38	332.6	-14.7	410.7	401.9	8.82	46.556	
3,800.0	3,738.6	3,754.6	3,733.0	5.5	5.6	-135.83	346.3	-14.0	430.0	421.0	9.01	47.751	
3,895.0	3,830.4	3,847.6	3,824.9	5.6	5.7	-136.24	360.0	-13.3	449.3	440.1	9.19	48.871	
3,990.0	3,922.2	3,940.6	3,916.9	5.8	5.8	-136.61	373.8	-12.5	468.7	459.3	9.39	49.921	
4,085.0	4,013.9	4,033.5	4,008.8	5.9	5.9	-136.96	387.5	-11.8	488.0	478.4	9.59	50.904	
4,180.0	4,105.7	4,126.5	4,100.7	6.0	6.0	-137.28	401.2	-11.1	507.4	497.6	9.79	51.822	
4,275.0	4,197.4	4,219.5	4,192.7	6.1	6.1	-137.57	414.9	-10.3	526.7	516.7	10.00	52.680	
4,370.0	4,289.2	4,312.4	4,284.6	6.3	6.2	-137.84	428.7	-9.6	546.1	535.9	10.21	53.481	
4,465.0	4,381.0	4,405.4	4,376.6	6.4	6.3	-138.10	442.4	-8.9	565.5	555.1	10.43	54.226	
4,560.0	4,472.7	4,498.4	4,468.5	6.6	6.4	-138.34	456.1	-8.1	584.9	574.3	10.65	54.920	
4,655.0	4,564.5	4,591.3	4,560.5	6.7	6.5	-138.56	469.8	-7.4	604.3	593.4	10.88	55.564	
4,750.0	4,656.2	4,684.3	4,652.4	6.8	6.6	-138.77	483.6	-6.7	623.7	612.6	11.10	56.168	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT (LEA 2632) - HARRIER FEDERAL COM #702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 1500-Standard Keeper 104, 11723-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,845.0	4,748.0	4,777.3	4,744.4	7.0	6.8	-138.97	497.3	-6.0	643.2	631.8	11.34	56.723	
4,940.0	4,839.8	4,870.2	4,836.3	7.2	6.9	-139.15	511.0	-5.2	662.6	651.0	11.58	57.237	
5,035.0	4,931.5	4,963.2	4,928.3	7.3	7.0	-139.33	524.7	-4.5	682.0	670.2	11.82	57.714	
5,130.0	5,023.3	5,056.2	5,020.2	7.5	7.1	-139.49	538.5	-3.8	701.5	689.4	12.06	58.154	
5,225.0	5,115.1	5,149.1	5,112.2	7.7	7.2	-139.65	552.2	-3.0	720.9	708.6	12.31	58.560	
5,320.0	5,206.8	5,242.1	5,204.1	7.8	7.3	-139.80	565.9	-2.3	740.4	727.8	12.56	58.934	
5,415.0	5,298.6	5,335.1	5,296.0	8.0	7.4	-139.94	579.6	-1.6	759.9	747.0	12.82	59.277	
5,510.0	5,390.3	5,428.0	5,388.0	8.2	7.5	-140.07	593.3	-0.9	779.3	766.3	13.08	59.593	
5,605.0	5,482.1	5,521.0	5,479.9	8.4	7.6	-140.20	607.1	-0.1	798.8	785.5	13.34	59.881	
5,700.0	5,573.9	5,614.0	5,571.9	8.6	7.7	-140.32	620.8	0.6	818.3	804.7	13.61	60.145	
5,795.0	5,665.6	5,706.9	5,663.8	8.8	7.8	-140.43	634.5	1.3	837.8	823.9	13.87	60.385	
5,890.0	5,757.4	5,799.9	5,755.8	9.0	8.0	-140.54	648.2	2.1	857.2	843.1	14.15	60.603	
5,985.0	5,849.2	5,892.9	5,847.7	9.2	8.1	-140.65	662.0	2.8	876.7	862.3	14.42	60.799	
6,080.0	5,940.9	5,985.8	5,939.7	9.4	8.2	-140.75	675.7	3.5	896.2	881.5	14.70	60.976	
6,175.0	6,032.7	6,078.8	6,031.6	9.6	8.3	-140.84	689.4	4.3	915.7	900.7	14.98	61.134	
6,270.0	6,124.4	6,171.8	6,123.6	9.8	8.4	-140.93	703.1	5.0	935.2	919.9	15.26	61.276	
6,365.0	6,216.2	6,264.7	6,215.5	10.0	8.5	-141.02	716.9	5.7	954.7	939.1	15.55	61.400	
6,460.0	6,308.0	6,357.7	6,307.5	10.2	8.6	-141.11	730.5	6.4	974.2	958.3	15.84	61.514	
6,555.0	6,399.7	6,450.8	6,399.7	10.4	8.7	-141.26	743.2	7.1	993.7	977.5	16.12	61.648	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT (LEA 2632) - HARRIER FEDERAL COM #703H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 1500-MWD+IFR1+MS, 12009-MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.5	0.5	3.0	3.0	-90.38	-0.2	-30.0	30.0				
95.0	95.0	95.5	95.5	3.0	3.0	-90.38	-0.2	-30.0	30.0	24.0	6.00	5.000	
190.0	190.0	190.5	190.5	3.0	3.0	-90.38	-0.2	-30.0	30.0	24.0	6.00	4.998	
285.0	285.0	285.5	285.5	3.0	3.0	-90.38	-0.2	-30.0	30.0	24.0	6.01	4.994	
380.0	380.0	380.5	380.5	3.0	3.0	-90.38	-0.2	-30.0	30.0	24.0	6.02	4.987	
475.0	475.0	475.5	475.5	3.0	3.0	-90.38	-0.2	-30.0	30.0	24.0	6.03	4.977	
570.0	570.0	570.5	570.5	3.1	3.1	-90.38	-0.2	-30.0	30.0	24.0	6.04	4.966	
665.0	665.0	665.5	665.5	3.1	3.1	-90.38	-0.2	-30.0	30.0	23.9	6.06	4.952	
760.0	760.0	760.5	760.5	3.1	3.1	-90.38	-0.2	-30.0	30.0	23.9	6.08	4.936	
855.0	855.0	855.5	855.5	3.2	3.2	-90.38	-0.2	-30.0	30.0	23.9	6.10	4.918	
950.0	950.0	950.5	950.5	3.2	3.2	-90.38	-0.2	-30.0	30.0	23.9	6.13	4.897	
1,045.0	1,045.0	1,045.5	1,045.5	3.3	3.3	-90.38	-0.2	-30.0	30.0	23.8	6.15	4.875	
1,140.0	1,140.0	1,140.5	1,140.5	3.3	3.3	-90.38	-0.2	-30.0	30.0	23.8	6.19	4.851	
1,235.0	1,235.0	1,235.5	1,235.5	3.4	3.4	-90.38	-0.2	-30.0	30.0	23.8	6.22	4.824	
1,330.0	1,330.0	1,330.5	1,330.5	3.4	3.4	-90.38	-0.2	-30.0	30.0	23.7	6.25	4.796	
1,425.0	1,425.0	1,425.5	1,425.5	3.5	3.5	-90.38	-0.2	-30.0	30.0	23.7	6.29	4.767 CC	
1,427.4	1,427.4	1,427.9	1,427.9	3.5	3.5	-145.90	-0.2	-30.0	30.0	23.7	6.29	4.766	
1,520.0	1,520.0	1,520.6	1,520.6	3.6	3.6	-145.85	-0.1	-30.0	30.0	23.7	6.35	4.732 ES, SF	
1,615.0	1,615.0	1,615.9	1,615.9	3.6	3.8	-144.22	2.0	-29.2	31.1	24.7	6.47	4.812	
1,710.0	1,709.8	1,711.1	1,710.9	3.7	4.5	-140.77	7.1	-27.5	33.9	27.2	6.71	5.052	
1,805.0	1,804.4	1,806.2	1,805.6	3.7	5.1	-136.37	15.2	-24.6	38.5	31.6	6.88	5.593	
1,900.0	1,898.7	1,901.1	1,899.8	3.8	5.7	-131.83	26.3	-20.8	45.0	38.0	7.02	6.421	
1,995.0	1,992.5	1,995.7	1,993.5	3.8	6.0	-129.41	38.7	-16.5	53.7	46.5	7.18	7.477	
2,090.0	2,085.8	2,090.1	2,087.0	3.9	6.1	-129.81	51.1	-12.2	64.4	56.9	7.43	8.667	
2,185.0	2,178.5	2,184.2	2,180.1	4.0	6.3	-131.82	63.5	-7.9	77.1	69.4	7.74	9.960	
2,280.0	2,270.4	2,277.9	2,273.0	4.0	6.5	-134.62	75.8	-3.6	92.0	83.9	8.11	11.346	
2,375.0	2,362.2	2,371.6	2,365.7	4.1	6.6	-137.02	88.2	0.6	107.5	99.1	8.48	12.682	
2,470.0	2,454.0	2,465.2	2,458.4	4.2	6.8	-138.81	100.5	4.9	123.3	114.4	8.85	13.924	
2,565.0	2,545.7	2,558.8	2,551.1	4.2	7.1	-140.20	112.8	9.2	139.1	129.8	9.23	15.074	
2,660.0	2,637.5	2,652.4	2,643.8	4.3	7.3	-141.30	125.1	13.4	154.9	145.3	9.60	16.136	
2,755.0	2,729.2	2,746.1	2,736.5	4.4	7.5	-142.20	137.4	17.7	170.9	160.9	9.98	17.117	
2,850.0	2,821.0	2,839.7	2,829.2	4.5	7.7	-142.94	149.7	22.0	186.8	176.4	10.37	18.022	
2,945.0	2,912.8	2,933.3	2,921.9	4.6	8.0	-143.57	162.0	26.2	202.8	192.0	10.75	18.857	
3,040.0	3,004.5	3,026.9	3,014.7	4.7	8.3	-144.10	174.3	30.5	218.8	207.6	11.15	19.627	
3,135.0	3,096.3	3,120.5	3,107.4	4.8	8.5	-144.56	186.7	34.8	234.8	223.2	11.54	20.337	
3,230.0	3,188.1	3,214.2	3,200.1	4.9	8.8	-144.97	199.0	39.0	250.8	238.9	11.95	20.993	
3,325.0	3,279.8	3,307.8	3,292.8	5.0	9.1	-145.32	211.3	43.3	266.8	254.5	12.35	21.600	
3,420.0	3,371.6	3,401.4	3,385.5	5.1	9.3	-145.64	223.6	47.6	282.9	270.1	12.77	22.161	
3,515.0	3,463.3	3,495.0	3,478.2	5.2	9.6	-145.92	235.9	51.9	298.9	285.8	13.18	22.680	
3,610.0	3,555.1	3,588.7	3,570.9	5.3	9.9	-146.17	248.2	56.1	315.0	301.4	13.60	23.161	
3,705.0	3,646.9	3,682.3	3,663.6	5.4	10.2	-146.40	260.5	60.4	331.1	317.0	14.02	23.607	
3,800.0	3,738.6	3,775.9	3,756.4	5.5	10.5	-146.60	272.8	64.7	347.1	332.7	14.45	24.022	
3,895.0	3,830.4	3,869.5	3,849.1	5.6	10.8	-146.79	285.1	68.9	363.2	348.3	14.88	24.407	
3,990.0	3,922.2	3,963.2	3,941.8	5.8	11.1	-146.97	297.5	73.2	379.3	364.0	15.31	24.766	
4,085.0	4,013.9	4,056.8	4,034.5	5.9	11.4	-147.12	309.8	77.5	395.4	379.6	15.75	25.100	
4,180.0	4,105.7	4,150.4	4,127.2	6.0	11.7	-147.27	322.1	81.7	411.4	395.2	16.19	25.411	
4,275.0	4,197.4	4,244.0	4,219.9	6.1	12.0	-147.41	334.4	86.0	427.5	410.9	16.63	25.702	
4,370.0	4,289.2	4,337.7	4,312.6	6.3	12.3	-147.53	346.7	90.3	443.6	426.5	17.08	25.974	
4,465.0	4,381.0	4,431.3	4,405.3	6.4	12.6	-147.65	359.0	94.5	459.7	442.2	17.53	26.228	
4,560.0	4,472.7	4,524.9	4,498.1	6.6	12.9	-147.76	371.3	98.8	475.8	457.8	17.98	26.466	
4,655.0	4,564.5	4,618.5	4,590.8	6.7	13.2	-147.86	383.6	103.1	491.9	473.4	18.43	26.689	
4,750.0	4,656.2	4,712.1	4,683.5	6.8	13.6	-147.95	396.0	107.3	508.0	489.1	18.88	26.898	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT (LEA 2632) - HARRIER FEDERAL COM #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 1500-MWD+IFR1+MS, 12009-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,845.0	4,748.0	4,805.8	4,776.2	7.0	13.9	-148.04	408.3	111.6	524.0	504.7	19.34	27.094	
4,940.0	4,839.8	4,899.4	4,868.9	7.2	14.2	-148.13	420.6	115.9	540.1	520.3	19.80	27.279	
5,035.0	4,931.5	4,993.0	4,961.6	7.3	14.5	-148.20	432.9	120.2	556.2	536.0	20.26	27.452	
5,130.0	5,023.3	5,086.6	5,054.3	7.5	14.8	-148.28	445.2	124.4	572.3	551.6	20.73	27.615	
5,225.0	5,115.1	5,180.3	5,147.0	7.7	15.2	-148.35	457.5	128.7	588.4	567.2	21.19	27.769	
5,320.0	5,206.8	5,273.9	5,239.8	7.8	15.5	-148.42	469.8	133.0	604.5	582.9	21.66	27.913	
5,415.0	5,298.6	5,367.5	5,332.5	8.0	15.8	-148.48	482.1	137.2	620.6	598.5	22.13	28.050	
5,510.0	5,390.3	5,461.1	5,425.2	8.2	16.1	-148.54	494.5	141.5	636.7	614.1	22.60	28.178	
5,605.0	5,482.1	5,554.8	5,517.9	8.4	16.5	-148.60	506.8	145.8	652.8	629.8	23.07	28.300	
5,700.0	5,573.9	5,648.4	5,610.6	8.6	16.8	-148.65	519.1	150.0	668.9	645.4	23.54	28.414	
5,795.0	5,665.6	5,742.0	5,703.3	8.8	17.1	-148.70	531.4	154.3	685.0	661.0	24.02	28.522	
5,890.0	5,757.4	5,835.6	5,796.0	9.0	17.4	-148.75	543.7	158.6	701.1	676.6	24.49	28.625	
5,985.0	5,849.2	5,929.3	5,888.7	9.2	17.8	-148.80	556.0	162.8	717.2	692.3	24.97	28.721	
6,080.0	5,940.9	6,022.9	5,981.5	9.4	18.1	-148.85	568.3	167.1	733.3	707.9	25.45	28.813	
6,175.0	6,032.7	6,116.5	6,074.2	9.6	18.4	-148.89	580.6	171.4	749.4	723.5	25.93	28.900	
6,270.0	6,124.4	6,210.1	6,166.9	9.8	18.8	-148.93	592.9	175.6	765.5	739.1	26.41	28.982	
6,365.0	6,216.2	6,303.8	6,259.6	10.0	19.1	-148.97	605.3	179.9	781.6	754.7	26.90	29.059	
6,460.0	6,308.0	6,397.4	6,352.3	10.2	19.4	-149.01	617.6	184.2	797.8	770.4	27.38	29.133	
6,555.0	6,399.7	6,491.0	6,445.0	10.4	19.8	-149.04	629.9	188.4	813.9	786.0	27.87	29.202	
6,650.0	6,491.6	6,584.7	6,537.8	10.6	20.1	-149.12	642.2	192.7	829.6	801.2	28.36	29.256	
6,745.0	6,583.9	6,678.6	6,630.8	10.8	20.4	-149.16	654.6	197.0	844.0	815.2	28.84	29.265	
6,840.0	6,676.5	6,772.7	6,723.9	11.0	20.8	-149.14	666.9	201.3	857.1	827.8	29.32	29.230	
6,935.0	6,769.4	6,866.9	6,817.3	11.2	21.1	-149.06	679.3	205.6	868.8	839.0	29.80	29.154	
7,030.0	6,862.7	6,961.3	6,910.7	11.4	21.4	-148.93	691.7	209.9	879.3	849.0	30.28	29.038	
7,125.0	6,956.2	7,055.8	7,004.3	11.6	21.8	-148.74	704.2	214.2	888.3	857.6	30.75	28.885	
7,220.0	7,050.1	7,150.4	7,098.0	11.7	22.1	-148.49	716.6	218.5	896.1	864.9	31.23	28.697	
7,315.0	7,144.1	7,245.0	7,191.7	11.9	22.4	-148.19	729.0	222.8	902.6	870.9	31.70	28.476	
7,410.0	7,238.4	7,339.2	7,284.9	12.0	22.8	-147.84	741.4	227.1	907.7	875.6	32.15	28.230	
7,505.0	7,332.8	7,428.7	7,373.7	12.1	23.1	-147.50	752.4	230.9	911.9	879.3	32.59	27.980	
7,600.0	7,427.4	7,518.3	7,462.7	12.2	23.4	-147.20	762.1	234.3	915.3	882.3	33.03	27.715	
7,695.0	7,522.1	7,608.1	7,552.1	12.3	23.7	-146.92	770.5	237.2	918.0	884.5	33.46	27.439	
7,790.0	7,617.0	7,700.0	7,643.6	12.4	24.0	-146.67	777.7	239.7	919.9	886.0	33.88	27.153	
7,885.0	7,711.9	7,787.9	7,731.3	12.4	24.3	-146.45	783.3	241.6	921.0	886.7	34.27	26.871	
7,980.0	7,806.9	7,877.9	7,821.2	12.5	24.7	-146.26	787.7	243.2	921.3	886.6	34.67	26.571	
8,075.0	7,901.9	7,967.9	7,911.2	12.5	25.0	-146.09	790.8	244.2	920.8	885.8	35.05	26.271	
8,170.0	7,996.9	8,058.0	8,001.3	12.6	25.3	-90.46	792.6	244.8	920.2	884.8	35.40	25.993	
8,265.0	8,091.9	8,149.1	8,092.4	12.6	25.6	-90.44	793.0	245.0	920.0	884.3	35.75	25.738	
8,360.0	8,186.9	8,244.1	8,187.4	12.7	25.9	-90.44	793.0	245.0	920.0	883.9	36.10	25.487	
8,455.0	8,281.9	8,339.1	8,282.4	12.7	26.2	-90.44	793.0	245.0	920.0	883.6	36.45	25.239	
8,550.0	8,376.9	8,434.1	8,377.4	12.8	26.5	-90.44	793.0	245.0	920.0	883.2	36.81	24.994	
8,645.0	8,471.9	8,529.1	8,472.4	12.8	26.9	-90.44	793.0	245.0	920.0	882.9	37.17	24.753	
8,740.0	8,566.9	8,624.1	8,567.4	12.9	27.2	-90.44	793.0	245.0	920.0	882.5	37.53	24.516	
8,835.0	8,661.9	8,719.1	8,662.4	13.0	27.5	-90.44	793.0	245.0	920.0	882.1	37.89	24.283	
8,930.0	8,756.9	8,814.1	8,757.4	13.0	27.8	-90.44	793.0	245.0	920.0	881.8	38.25	24.054	
9,025.0	8,851.9	8,909.1	8,852.4	13.1	28.2	-90.44	793.0	245.0	920.0	881.4	38.61	23.829	
9,120.0	8,946.9	9,004.1	8,947.4	13.2	28.5	-90.44	793.0	245.0	920.0	881.1	38.97	23.608	
9,215.0	9,041.9	9,099.1	9,042.4	13.2	28.8	-90.44	793.0	245.0	920.0	880.7	39.33	23.391	
9,310.0	9,136.9	9,194.1	9,137.4	13.3	29.1	-90.44	793.0	245.0	920.0	880.3	39.70	23.177	
9,405.0	9,231.9	9,289.1	9,232.4	13.4	29.5	-90.44	793.0	245.0	920.0	880.0	40.06	22.966	
9,500.0	9,326.9	9,384.1	9,327.4	13.5	29.8	-90.44	793.0	245.0	920.0	879.6	40.42	22.759	
9,595.0	9,421.9	9,479.1	9,422.4	13.5	30.1	-90.44	793.0	245.0	920.0	879.2	40.79	22.556	
9,690.0	9,516.9	9,574.1	9,517.4	13.6	30.4	-90.44	793.0	245.0	920.0	878.9	41.15	22.355	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT (LEA 2632) - HARRIER FEDERAL COM #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 1500-MWD+IFR1+MS, 12009-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,785.0	9,611.9	9,669.1	9,612.4	13.7	30.8	-90.44	793.0	245.0	920.0	878.5	41.52	22.158	
9,880.0	9,706.9	9,764.1	9,707.4	13.8	31.1	-90.44	793.0	245.0	920.0	878.1	41.89	21.964	
9,975.0	9,801.9	9,859.1	9,802.4	13.9	31.4	-90.44	793.0	245.0	920.0	877.8	42.25	21.773	
10,070.0	9,896.9	9,954.1	9,897.4	14.0	31.7	-90.44	793.0	245.0	920.0	877.4	42.62	21.586	
10,165.0	9,991.9	10,049.1	9,992.4	14.0	32.1	-90.44	793.0	245.0	920.0	877.0	42.99	21.401	
10,260.0	10,086.9	10,144.1	10,087.4	14.1	32.4	-90.44	793.0	245.0	920.0	876.7	43.36	21.219	
10,355.0	10,181.9	10,239.1	10,182.4	14.2	32.7	-90.44	793.0	245.0	920.0	876.3	43.73	21.040	
10,450.0	10,276.9	10,334.1	10,277.4	14.3	33.1	-90.44	793.0	245.0	920.0	875.9	44.10	20.863	
10,545.0	10,371.9	10,429.1	10,372.4	14.4	33.4	-90.44	793.0	245.0	920.0	875.6	44.47	20.690	
10,640.0	10,466.9	10,524.1	10,467.4	14.5	33.7	-90.44	793.0	245.0	920.0	875.2	44.84	20.519	
10,735.0	10,561.9	10,619.1	10,562.4	14.6	34.0	-90.44	793.0	245.0	920.0	874.8	45.21	20.350	
10,830.0	10,656.9	10,714.1	10,657.4	14.7	34.4	-90.44	793.0	245.0	920.0	874.4	45.58	20.184	
10,925.0	10,751.9	10,809.1	10,752.4	14.7	34.7	-90.44	793.0	245.0	920.0	874.1	45.95	20.021	
11,020.0	10,846.9	10,904.1	10,847.4	14.8	35.0	-90.44	793.0	245.0	920.0	873.7	46.33	19.860	
11,115.0	10,941.9	10,999.1	10,942.4	14.9	35.4	-90.44	793.0	245.0	920.0	873.3	46.70	19.702	
11,210.0	11,036.9	11,094.1	11,037.4	15.0	35.7	-90.44	793.0	245.0	920.0	873.0	47.07	19.545	
11,305.0	11,131.9	11,189.1	11,132.4	15.1	36.0	-90.44	793.0	245.0	920.0	872.6	47.44	19.391	
11,400.0	11,226.9	11,284.1	11,227.4	15.2	36.4	-90.44	793.0	245.0	920.0	872.2	47.82	19.240	
11,495.0	11,321.9	11,379.1	11,322.4	15.3	36.7	-90.44	793.0	245.0	920.0	871.8	48.19	19.090	
11,590.0	11,416.9	11,474.1	11,417.4	15.4	37.0	-90.44	793.0	245.0	920.0	871.5	48.57	18.943	
11,685.0	11,511.9	11,569.1	11,512.4	15.5	37.4	-90.44	793.0	245.0	920.0	871.1	48.94	18.798	
11,780.0	11,606.9	11,664.1	11,607.4	15.6	37.7	-90.44	793.0	245.0	920.0	870.7	49.32	18.655	
11,875.0	11,701.9	11,759.1	11,702.4	15.7	38.0	-90.44	793.0	245.0	920.0	870.3	49.69	18.514	
11,970.0	11,796.9	11,854.1	11,797.4	15.8	38.4	-90.44	793.0	245.0	920.0	870.0	50.07	18.374	
12,065.0	11,891.9	11,949.1	11,892.4	15.9	38.7	-90.44	793.0	245.0	920.0	869.6	50.45	18.237	
12,160.0	11,986.8	12,074.3	12,017.3	16.1	38.9	101.71	788.7	246.1	919.7	868.9	50.78	18.113	
12,255.0	12,080.2	12,244.4	12,178.2	16.2	38.9	100.69	737.8	259.1	916.0	864.9	51.11	17.922	
12,350.0	12,168.6	12,397.7	12,299.3	16.3	39.0	98.88	647.8	282.0	909.1	857.7	51.47	17.663	
12,445.0	12,248.4	12,530.9	12,376.1	16.4	39.0	96.75	542.9	308.8	900.9	849.2	51.70	17.427	
12,540.0	12,316.4	12,646.4	12,416.3	16.6	39.0	94.55	438.3	335.4	892.9	841.2	51.77	17.248	
12,635.0	12,370.1	12,748.1	12,429.4	16.7	39.1	92.38	340.7	360.3	886.2	834.4	51.75	17.124	
12,730.0	12,407.2	12,818.3	12,429.5	16.8	39.1	91.09	272.5	377.1	882.2	830.5	51.68	17.071	
12,825.0	12,426.4	12,900.0	12,429.5	16.8	39.1	90.15	192.7	394.5	881.7	829.9	51.81	17.019	
12,828.1	12,426.7	12,900.0	12,429.5	16.8	39.1	90.15	192.7	394.5	881.7	829.9	51.80	17.020	
12,920.0	12,429.0	12,961.9	12,429.5	16.9	39.2	90.00	131.9	406.1	883.3	831.3	52.00	16.987	
13,015.0	12,429.0	13,034.5	12,429.5	16.9	39.3	90.00	60.3	418.1	884.8	832.4	52.38	16.892	
13,110.0	12,429.0	13,100.0	12,429.5	17.0	39.3	90.00	-4.5	427.4	885.5	832.6	52.86	16.752	
13,205.0	12,429.0	13,179.6	12,429.5	17.0	39.4	90.00	-83.6	436.7	885.4	831.9	53.44	16.569	
13,300.0	12,429.0	13,252.2	12,429.5	17.1	39.5	90.00	-155.9	443.2	884.6	830.6	54.00	16.380	
13,395.0	12,429.0	13,324.8	12,429.5	17.2	39.6	90.00	-228.3	447.9	883.0	828.4	54.59	16.174	
13,490.0	12,429.0	13,400.0	12,429.5	17.3	39.7	90.00	-303.5	450.8	880.8	825.7	55.12	15.981	
13,585.0	12,429.0	13,474.2	12,429.5	17.4	39.8	90.00	-377.7	451.8	880.0	824.4	55.56	15.837	
13,680.0	12,429.0	13,569.2	12,429.5	17.5	39.9	90.00	-472.7	452.4	880.0	823.9	56.12	15.681	
13,775.0	12,429.0	13,664.2	12,429.5	17.7	40.0	90.00	-567.7	453.0	880.0	823.3	56.71	15.518	
13,870.0	12,429.0	13,759.2	12,429.5	18.0	40.1	90.00	-662.7	453.6	880.0	822.7	57.33	15.349	
13,965.0	12,429.0	13,854.2	12,429.5	18.4	40.3	90.00	-757.7	454.2	880.0	822.0	57.98	15.177	
14,060.0	12,429.0	13,949.2	12,429.5	18.9	40.4	90.00	-852.7	454.7	880.0	821.3	58.66	15.002	
14,155.0	12,429.0	14,044.2	12,429.5	19.4	40.6	90.00	-947.7	455.3	880.0	820.6	59.36	14.824	
14,250.0	12,429.0	14,139.2	12,429.5	19.9	40.8	90.00	-1,042.7	455.9	880.0	819.9	60.09	14.644	
14,345.0	12,429.0	14,234.2	12,429.5	20.4	41.0	90.00	-1,137.7	456.5	880.0	819.1	60.85	14.462	
14,440.0	12,429.0	14,329.2	12,429.5	20.9	41.2	90.00	-1,232.7	457.1	880.0	818.4	61.62	14.280	
14,535.0	12,429.0	14,424.2	12,429.5	21.5	41.4	90.00	-1,327.7	457.6	880.0	817.6	62.42	14.097	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT (LEA 2632) - HARRIER FEDERAL COM #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 1500-MWD+IFR1+MS, 12009-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Distance				Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,630.0	12,429.0	14,519.2	12,429.5	22.1	41.6	90.00	-1,422.7	458.2	880.0	816.8	63.24	13.915	
14,725.0	12,429.0	14,614.2	12,429.5	22.6	41.9	90.00	-1,517.7	458.8	880.0	815.9	64.08	13.733	
14,820.0	12,429.0	14,709.2	12,429.5	23.2	42.1	90.00	-1,612.7	459.4	880.0	815.1	64.94	13.551	
14,915.0	12,429.0	14,804.2	12,429.5	23.8	42.4	90.00	-1,707.7	460.0	880.0	814.2	65.81	13.371	
15,010.0	12,429.0	14,899.2	12,429.5	24.4	42.7	90.00	-1,802.7	460.5	880.0	813.3	66.71	13.192	
15,105.0	12,429.0	14,994.2	12,429.5	25.0	42.9	90.00	-1,897.7	461.1	880.0	812.4	67.62	13.014	
15,200.0	12,429.0	15,089.2	12,429.5	25.6	43.2	90.00	-1,992.7	461.7	880.0	811.4	68.55	12.838	
15,295.0	12,429.0	15,184.2	12,429.5	26.3	43.5	90.00	-2,087.7	462.3	880.0	810.5	69.49	12.664	
15,390.0	12,429.0	15,279.2	12,429.5	26.9	43.9	90.00	-2,182.7	462.9	880.0	809.5	70.45	12.491	
15,485.0	12,429.0	15,374.2	12,429.5	27.5	44.2	90.00	-2,277.7	463.5	880.0	808.6	71.42	12.321	
15,580.0	12,429.0	15,469.2	12,429.5	28.2	44.5	90.00	-2,372.7	464.0	880.0	807.6	72.40	12.154	
15,675.0	12,429.0	15,564.2	12,429.5	28.8	44.9	90.00	-2,467.7	464.6	880.0	806.6	73.40	11.988	
15,770.0	12,429.0	15,659.2	12,429.5	29.4	45.2	90.00	-2,562.7	465.2	880.0	805.6	74.41	11.825	
15,865.0	12,429.0	15,754.2	12,429.5	30.1	45.6	90.00	-2,657.7	465.8	880.0	804.5	75.44	11.665	
15,960.0	12,429.0	15,849.2	12,429.5	30.7	46.0	90.00	-2,752.7	466.4	880.0	803.5	76.47	11.507	
16,055.0	12,429.0	15,944.2	12,429.5	31.4	46.4	90.00	-2,847.7	466.9	880.0	802.5	77.52	11.352	
16,150.0	12,429.0	16,039.2	12,429.5	32.1	46.8	90.00	-2,942.7	467.5	880.0	801.4	78.58	11.199	
16,245.0	12,429.0	16,134.2	12,429.5	32.7	47.2	90.00	-3,037.6	468.1	880.0	800.3	79.65	11.048	
16,340.0	12,429.0	16,229.2	12,429.5	33.4	47.6	90.00	-3,132.6	468.7	880.0	799.3	80.73	10.901	
16,435.0	12,429.0	16,324.2	12,429.5	34.0	48.0	90.00	-3,227.6	469.3	880.0	798.2	81.81	10.756	
16,530.0	12,429.0	16,419.2	12,429.5	34.7	48.4	90.00	-3,322.6	469.8	880.0	797.1	82.91	10.613	
16,625.0	12,429.0	16,514.2	12,429.5	35.4	48.8	90.00	-3,417.6	470.4	880.0	796.0	84.02	10.473	
16,720.0	12,429.0	16,609.2	12,429.5	36.1	49.3	90.00	-3,512.6	471.0	880.0	794.8	85.14	10.336	
16,815.0	12,429.0	16,704.2	12,429.5	36.7	49.7	90.00	-3,607.6	471.6	880.0	793.7	86.26	10.201	
16,910.0	12,429.0	16,799.2	12,429.5	37.4	50.2	90.00	-3,702.6	472.2	880.0	792.6	87.39	10.069	
17,005.0	12,429.0	16,894.2	12,429.5	38.1	50.6	90.00	-3,797.6	472.7	880.0	791.4	88.54	9.939	
17,100.0	12,429.0	16,989.2	12,429.5	38.8	51.1	90.00	-3,892.6	473.3	880.0	790.3	89.69	9.812	
17,195.0	12,429.0	17,084.2	12,429.5	39.4	51.6	90.00	-3,987.6	473.9	880.0	789.1	90.84	9.687	
17,290.0	12,429.0	17,179.2	12,429.5	40.1	52.0	90.00	-4,082.6	474.5	880.0	788.0	92.01	9.564	
17,385.0	12,429.0	17,274.2	12,429.5	40.8	52.5	90.00	-4,177.6	475.1	880.0	786.8	93.18	9.444	
17,480.0	12,429.0	17,369.2	12,429.5	41.5	53.0	90.00	-4,272.6	475.7	880.0	785.6	94.36	9.326	
17,575.0	12,429.0	17,464.2	12,429.5	42.2	53.5	90.00	-4,367.6	476.2	880.0	784.4	95.54	9.210	
17,670.0	12,429.0	17,559.2	12,429.5	42.9	54.0	90.00	-4,462.6	476.8	880.0	783.2	96.73	9.097	
17,765.0	12,429.0	17,654.2	12,429.5	43.6	54.5	90.00	-4,557.6	477.4	880.0	782.0	97.93	8.986	
17,860.0	12,429.0	17,749.2	12,429.5	44.3	55.0	90.00	-4,652.6	478.0	880.0	780.8	99.13	8.876	
17,955.0	12,429.0	17,844.2	12,429.5	45.0	55.5	90.00	-4,747.6	478.6	880.0	779.6	100.34	8.770	
18,050.0	12,429.0	17,939.2	12,429.5	45.6	56.1	90.00	-4,842.6	479.1	880.0	778.4	101.56	8.665	
18,145.0	12,429.0	18,034.2	12,429.5	46.3	56.6	90.00	-4,937.6	479.7	880.0	777.2	102.78	8.562	
18,240.0	12,429.0	18,129.2	12,429.5	47.0	57.1	90.00	-5,032.6	480.3	880.0	776.0	104.00	8.461	
18,335.0	12,429.0	18,224.2	12,429.5	47.7	57.6	90.00	-5,127.6	480.9	880.0	774.7	105.24	8.362	
18,430.0	12,429.0	18,319.2	12,429.5	48.4	58.2	90.00	-5,222.6	481.5	880.0	773.5	106.47	8.265	
18,525.0	12,429.0	18,414.2	12,429.5	49.1	58.7	90.00	-5,317.6	482.0	880.0	772.2	107.71	8.170	
18,620.0	12,429.0	18,509.2	12,429.5	49.8	59.3	90.00	-5,412.6	482.6	880.0	771.0	108.96	8.076	
18,715.0	12,429.0	18,604.2	12,429.5	50.5	59.8	90.00	-5,507.6	483.2	880.0	769.7	110.21	7.985	
18,810.0	12,429.0	18,699.2	12,429.5	51.2	60.4	90.00	-5,602.6	483.8	880.0	768.5	111.46	7.895	
18,905.0	12,429.0	18,794.2	12,429.5	51.9	60.9	90.00	-5,697.6	484.4	880.0	767.2	112.72	7.807	
19,000.0	12,429.0	18,889.2	12,429.5	52.6	61.5	90.00	-5,792.6	484.9	880.0	766.0	113.98	7.720	
19,095.0	12,429.0	18,984.2	12,429.5	53.3	62.0	90.00	-5,887.6	485.5	880.0	764.7	115.25	7.635	
19,190.0	12,429.0	19,079.2	12,429.5	54.0	62.6	90.00	-5,982.6	486.1	880.0	763.4	116.52	7.552	
19,285.0	12,429.0	19,174.2	12,429.5	54.7	63.2	90.00	-6,077.6	486.7	880.0	762.2	117.80	7.470	
19,380.0	12,429.0	19,269.2	12,429.5	55.4	63.7	90.00	-6,172.6	487.3	880.0	760.9	119.08	7.390	
19,475.0	12,429.0	19,364.2	12,429.5	56.1	64.3	90.00	-6,267.6	487.8	880.0	759.6	120.36	7.311	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT (LEA 2632) - HARRIER FEDERAL COM #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 1500-MWD+IFR1+MS, 12009-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,570.0	12,429.0	19,459.2	12,429.5	56.9	64.9	90.00	-6,362.6	488.4	879.9	758.3	121.64	7.234	
19,665.0	12,429.0	19,554.2	12,429.5	57.6	65.5	90.00	-6,457.6	489.0	879.9	757.0	122.93	7.158	
19,760.0	12,429.0	19,649.2	12,429.5	58.3	66.1	90.00	-6,552.6	489.6	879.9	755.7	124.22	7.084	
19,855.0	12,429.0	19,744.2	12,429.5	59.0	66.7	90.00	-6,647.6	490.2	879.9	754.4	125.52	7.010	
19,950.0	12,429.0	19,839.2	12,429.5	59.7	67.2	90.00	-6,742.6	490.8	879.9	753.1	126.82	6.939	
20,045.0	12,429.0	19,934.2	12,429.5	60.4	67.8	90.00	-6,837.6	491.3	879.9	751.8	128.12	6.868	
20,140.0	12,429.0	20,029.2	12,429.5	61.1	68.4	90.00	-6,932.6	491.9	879.9	750.5	129.42	6.799	
20,235.0	12,429.0	20,124.2	12,429.5	61.8	69.0	90.00	-7,027.6	492.5	879.9	749.2	130.73	6.731	
20,330.0	12,429.0	20,219.2	12,429.5	62.5	69.6	90.00	-7,122.6	493.1	879.9	747.9	132.04	6.664	
20,425.0	12,429.0	20,314.2	12,429.5	63.2	70.2	90.00	-7,217.6	493.7	879.9	746.6	133.36	6.598	
20,520.0	12,429.0	20,409.2	12,429.5	63.9	70.8	90.00	-7,312.6	494.2	879.9	745.3	134.67	6.534	
20,615.0	12,429.0	20,504.2	12,429.5	64.6	71.4	90.00	-7,407.6	494.8	879.9	744.0	135.99	6.471	
20,710.0	12,429.0	20,599.2	12,429.5	65.3	72.1	90.00	-7,502.6	495.4	879.9	742.6	137.31	6.408	
20,805.0	12,429.0	20,694.2	12,429.5	66.1	72.7	90.00	-7,597.6	496.0	879.9	741.3	138.63	6.347	
20,900.0	12,429.0	20,789.2	12,429.5	66.8	73.3	90.00	-7,692.6	496.6	879.9	740.0	139.96	6.287	
20,995.0	12,429.0	20,884.2	12,429.5	67.5	73.9	90.00	-7,787.6	497.1	879.9	738.7	141.29	6.228	
21,090.0	12,429.0	20,979.2	12,429.5	68.2	74.5	90.00	-7,882.6	497.7	879.9	737.3	142.62	6.170	
21,185.0	12,429.0	21,074.2	12,429.5	68.9	75.1	90.00	-7,977.6	498.3	879.9	736.0	143.95	6.113	
21,280.0	12,429.0	21,169.2	12,429.5	69.6	75.8	90.00	-8,072.6	498.9	879.9	734.7	145.28	6.057	
21,375.0	12,429.0	21,264.2	12,429.5	70.3	76.4	90.00	-8,167.6	499.5	879.9	733.3	146.62	6.001	
21,470.0	12,429.0	21,359.2	12,429.5	71.0	77.0	90.00	-8,262.6	500.0	879.9	732.0	147.96	5.947	
21,565.0	12,429.0	21,454.2	12,429.5	71.8	77.6	90.00	-8,357.5	500.6	879.9	730.6	149.30	5.894	
21,660.0	12,429.0	21,549.2	12,429.5	72.5	78.3	90.00	-8,452.5	501.2	879.9	729.3	150.64	5.841	
21,755.0	12,429.0	21,644.2	12,429.5	73.2	78.9	90.00	-8,547.5	501.8	879.9	727.9	151.99	5.790	
21,850.0	12,429.0	21,739.2	12,429.5	73.9	79.5	90.00	-8,642.5	502.4	879.9	726.6	153.33	5.739	
21,945.0	12,429.0	21,834.2	12,429.5	74.6	80.1	90.00	-8,737.5	503.0	879.9	725.2	154.68	5.689	
22,040.0	12,429.0	21,929.2	12,429.5	75.3	80.8	90.00	-8,832.5	503.5	879.9	723.9	156.03	5.639	
22,135.0	12,429.0	22,024.2	12,429.5	76.0	81.4	90.00	-8,927.5	504.1	879.9	722.5	157.38	5.591	
22,230.0	12,429.0	22,119.2	12,429.5	76.8	82.1	90.00	-9,022.5	504.7	879.9	721.2	158.74	5.543	
22,325.0	12,429.0	22,214.2	12,429.5	77.5	82.7	90.00	-9,117.5	505.3	879.9	719.8	160.09	5.496	
22,420.0	12,429.0	22,309.2	12,429.5	78.2	83.3	90.00	-9,212.5	505.9	879.9	718.5	161.45	5.450	
22,515.0	12,429.0	22,404.2	12,429.5	78.9	84.0	90.00	-9,307.5	506.4	879.9	717.1	162.81	5.405	
22,610.0	12,429.0	22,499.2	12,429.5	79.6	84.6	90.00	-9,402.5	507.0	879.9	715.8	164.17	5.360	
22,705.0	12,429.0	22,594.2	12,429.5	80.3	85.3	90.00	-9,497.5	507.6	879.9	714.4	165.53	5.316	
22,800.0	12,429.0	22,689.2	12,429.5	81.0	85.9	90.00	-9,592.5	508.2	879.9	713.0	166.89	5.272	
22,895.0	12,429.0	22,784.2	12,429.5	81.8	86.6	90.00	-9,687.5	508.8	879.9	711.7	168.25	5.230	
22,990.0	12,429.0	22,879.2	12,429.5	82.5	87.3	90.00	-9,782.5	509.4	879.9	710.4	169.61	5.187	
22,901.5	12,429.0	22,790.7	12,429.5	81.8	86.6	90.00	-9,694.0	508.8	879.9	711.6	168.34	5.227	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT (LEA 2632) - HARRIER FEDERAL COM #704H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 1500-MWD+IFR1+MS, 11749-MWD+IFR1+MS								Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.3	0.3	3.0	3.0	-90.38	-0.4	-60.0	60.0					
95.0	95.0	95.3	95.3	3.0	3.0	-90.38	-0.4	-60.0	60.0	54.0	6.00	10.000		
190.0	190.0	190.3	190.3	3.0	3.0	-90.38	-0.4	-60.0	60.0	54.0	6.00	9.996		
285.0	285.0	285.3	285.3	3.0	3.0	-90.38	-0.4	-60.0	60.0	54.0	6.01	9.987		
380.0	380.0	380.3	380.3	3.0	3.0	-90.38	-0.4	-60.0	60.0	54.0	6.02	9.973		
475.0	475.0	475.3	475.3	3.0	3.0	-90.38	-0.4	-60.0	60.0	54.0	6.03	9.955		
570.0	570.0	570.3	570.3	3.1	3.1	-90.38	-0.4	-60.0	60.0	54.0	6.04	9.932		
665.0	665.0	665.3	665.3	3.1	3.1	-90.38	-0.4	-60.0	60.0	53.9	6.06	9.904		
760.0	760.0	760.3	760.3	3.1	3.1	-90.38	-0.4	-60.0	60.0	53.9	6.08	9.872		
855.0	855.0	855.3	855.3	3.2	3.2	-90.38	-0.4	-60.0	60.0	53.9	6.10	9.835		
950.0	950.0	950.3	950.3	3.2	3.2	-90.38	-0.4	-60.0	60.0	53.9	6.13	9.795		
1,045.0	1,045.0	1,045.3	1,045.3	3.3	3.3	-90.38	-0.4	-60.0	60.0	53.8	6.15	9.750		
1,140.0	1,140.0	1,140.3	1,140.3	3.3	3.3	-90.38	-0.4	-60.0	60.0	53.8	6.18	9.701		
1,235.0	1,235.0	1,235.3	1,235.3	3.4	3.4	-90.38	-0.4	-60.0	60.0	53.8	6.22	9.649		
1,330.0	1,330.0	1,330.3	1,330.3	3.4	3.4	-90.38	-0.4	-60.0	60.0	53.7	6.25	9.593		
1,425.0	1,425.0	1,425.3	1,425.3	3.5	3.5	-90.38	-0.4	-60.0	60.0	53.7	6.29	9.534 CC		
1,427.1	1,427.1	1,427.4	1,427.4	3.5	3.5	-145.90	-0.4	-60.0	60.0	53.7	6.29	9.533 ES		
1,520.0	1,520.0	1,520.0	1,520.0	3.6	3.6	-145.89	-0.3	-60.0	60.1	53.8	6.34	9.480 SF		
1,615.0	1,615.0	1,613.8	1,613.7	3.6	3.9	-145.38	1.4	-61.4	63.3	56.9	6.42	9.853		
1,710.0	1,709.8	1,707.1	1,706.9	3.7	4.5	-144.36	5.6	-64.5	70.9	64.3	6.62	10.714		
1,805.0	1,804.4	1,800.0	1,799.5	3.7	5.1	-143.11	12.1	-69.5	83.1	76.2	6.87	12.100		
1,900.0	1,898.7	1,891.4	1,890.2	3.8	5.7	-141.87	20.9	-76.1	99.6	92.5	7.14	13.953		
1,995.0	1,992.5	1,982.0	1,979.7	3.8	6.0	-140.74	31.8	-84.4	120.5	113.2	7.38	16.324		
2,090.0	2,085.8	2,073.9	2,070.3	3.9	6.1	-140.24	43.9	-93.6	144.7	137.1	7.57	19.107		
2,185.0	2,178.5	2,165.1	2,160.3	4.0	6.3	-140.47	55.9	-102.7	171.1	163.4	7.76	22.055		
2,280.0	2,270.4	2,255.6	2,249.6	4.0	6.5	-141.19	67.8	-111.7	199.9	191.9	7.96	25.100		
2,375.0	2,362.2	2,345.9	2,338.7	4.1	6.6	-142.05	79.7	-120.7	229.2	221.0	8.19	27.968		
2,470.0	2,454.0	2,436.2	2,427.7	4.2	6.8	-142.72	91.6	-129.7	258.5	250.1	8.45	30.584		
2,565.0	2,545.7	2,526.5	2,516.8	4.2	7.0	-143.24	103.5	-138.7	287.9	279.1	8.73	32.964		
2,660.0	2,637.5	2,616.9	2,605.9	4.3	7.2	-143.67	115.4	-147.7	317.3	308.2	9.03	35.123		
2,755.0	2,729.2	2,707.2	2,695.0	4.4	7.5	-144.03	127.3	-156.7	346.7	337.3	9.35	37.080		
2,850.0	2,821.0	2,797.5	2,784.0	4.5	7.7	-144.33	139.1	-165.7	376.1	366.4	9.68	38.854		
2,945.0	2,912.8	2,887.8	2,873.1	4.6	7.9	-144.59	151.0	-174.7	405.5	395.5	10.02	40.460		
3,040.0	3,004.5	2,978.1	2,962.2	4.7	8.2	-144.82	162.9	-183.7	434.9	424.5	10.38	41.916		
3,135.0	3,096.3	3,068.4	3,051.3	4.8	8.4	-145.01	174.8	-192.7	464.4	453.6	10.74	43.237		
3,230.0	3,188.1	3,158.7	3,140.3	4.9	8.7	-145.18	186.7	-201.7	493.8	482.7	11.11	44.437		
3,325.0	3,279.8	3,249.1	3,229.4	5.0	9.0	-145.33	198.6	-210.7	523.2	511.7	11.49	45.529		
3,420.0	3,371.6	3,339.4	3,318.5	5.1	9.2	-145.47	210.4	-219.7	552.7	540.8	11.88	46.522		
3,515.0	3,463.3	3,429.7	3,407.6	5.2	9.5	-145.59	222.3	-228.7	582.1	569.8	12.27	47.427		
3,610.0	3,555.1	3,520.0	3,496.6	5.3	9.8	-145.70	234.2	-237.7	611.6	598.9	12.67	48.254		
3,705.0	3,646.9	3,610.3	3,585.7	5.4	10.1	-145.80	246.1	-246.7	641.0	627.9	13.08	49.009		
3,800.0	3,738.6	3,700.6	3,674.8	5.5	10.4	-145.90	258.0	-255.7	670.5	657.0	13.49	49.699		
3,895.0	3,830.4	3,790.9	3,763.9	5.6	10.7	-145.98	269.9	-264.7	699.9	686.0	13.91	50.331		
3,990.0	3,922.2	3,881.3	3,852.9	5.8	10.9	-146.06	281.7	-273.7	729.4	715.0	14.33	50.911		
4,085.0	4,013.9	3,971.6	3,942.0	5.9	11.2	-146.13	293.6	-282.7	758.8	744.1	14.75	51.443		
4,180.0	4,105.7	4,061.9	4,031.1	6.0	11.5	-146.19	305.5	-291.7	788.3	773.1	15.18	51.933		
4,275.0	4,197.4	4,152.2	4,120.2	6.1	11.8	-146.25	317.4	-300.7	817.7	802.1	15.61	52.383		
4,370.0	4,289.2	4,242.5	4,209.2	6.3	12.1	-146.31	329.3	-309.7	847.2	831.1	16.05	52.797		
4,465.0	4,381.0	4,332.8	4,298.3	6.4	12.4	-146.36	341.2	-318.7	876.7	860.2	16.48	53.179		
4,560.0	4,472.7	4,423.1	4,387.4	6.6	12.7	-146.41	353.0	-327.7	906.1	889.2	16.93	53.532		
4,655.0	4,564.5	4,513.5	4,476.5	6.7	13.1	-146.46	364.9	-336.7	935.6	918.2	17.37	53.858		
4,750.0	4,656.2	4,603.8	4,565.5	6.8	13.4	-146.50	376.8	-345.7	965.0	947.2	17.82	54.157		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	HARRIER FEDERAL PROJECT (LEA 2632) - HARRIER FEDERAL COM #704H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program:	0-Standard Keeper 104, 1500-MWD+IFR1+MS, 11749-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,845.0	4,748.0	4,694.1	4,654.6	7.0	13.7	-146.54	388.7	-354.7	994.5	976.2	18.27	54.435	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT (LEA 2632) - HARRIER FEDERAL COM #801H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 1750-MWD+IFR1+MS, 11773-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	2.8	2.8	3.0	3.0	0.00	45.0	0.0	45.0				
95.0	95.0	97.8	97.8	3.0	3.0	0.00	45.0	0.0	45.0	39.0	6.00	7.499	
190.0	190.0	192.8	192.8	3.0	3.0	0.00	45.0	0.0	45.0	39.0	6.01	7.488	
285.0	285.0	287.8	287.8	3.0	3.0	0.00	45.0	0.0	45.0	39.0	6.03	7.465	
380.0	380.0	382.8	382.8	3.0	3.0	0.00	45.0	0.0	45.0	38.9	6.06	7.429	
475.0	475.0	477.8	477.8	3.0	3.0	0.00	45.0	0.0	45.0	38.9	6.10	7.380	
570.0	570.0	572.8	572.8	3.1	3.1	0.00	45.0	0.0	45.0	38.9	6.15	7.321	
665.0	665.0	667.8	667.8	3.1	3.1	0.00	45.0	0.0	45.0	38.8	6.21	7.251	
760.0	760.0	762.8	762.8	3.1	3.1	0.00	45.0	0.0	45.0	38.7	6.27	7.172	
855.0	855.0	857.8	857.8	3.2	3.2	0.00	45.0	0.0	45.0	38.6	6.35	7.084	
950.0	950.0	952.8	952.8	3.2	3.2	0.00	45.0	0.0	45.0	38.6	6.44	6.988	
1,045.0	1,045.0	1,047.8	1,047.8	3.3	3.3	0.00	45.0	0.0	45.0	38.5	6.53	6.887	
1,140.0	1,140.0	1,142.8	1,142.8	3.3	3.3	0.00	45.0	0.0	45.0	38.4	6.64	6.780	
1,235.0	1,235.0	1,237.8	1,237.8	3.4	3.4	0.00	45.0	0.0	45.0	38.3	6.75	6.668	
1,330.0	1,330.0	1,332.8	1,332.8	3.4	3.4	0.00	45.0	0.0	45.0	38.1	6.87	6.553	
1,425.0	1,425.0	1,427.8	1,427.8	3.5	3.5	0.00	45.0	0.0	45.0	38.0	6.99	6.436	
1,520.0	1,520.0	1,522.8	1,522.8	3.6	3.6	-55.60	45.0	0.0	45.0	37.8	7.12	6.313	
1,615.0	1,615.0	1,617.8	1,617.8	3.6	3.6	-58.04	45.0	0.0	43.7	36.5	7.24	6.038	
1,710.0	1,709.8	1,712.6	1,712.6	3.7	3.7	-64.45	45.0	0.0	41.1	33.8	7.33	5.608	
1,805.0	1,804.4	1,806.9	1,806.9	3.7	3.8	-75.26	45.4	0.4	38.5	31.1	7.33	5.248	
1,876.1	1,875.1	1,877.4	1,877.4	3.8	3.9	-84.49	47.0	2.0	37.8	30.6	7.25	5.212 CC, ES	
1,900.0	1,898.7	1,901.1	1,901.0	3.8	4.0	-87.65	47.8	2.8	37.9	30.7	7.20	5.262	
1,995.0	1,992.5	1,995.6	1,995.3	3.8	4.6	-99.79	52.5	7.4	39.7	32.6	7.14	5.562	
2,090.0	2,085.8	2,090.3	2,089.5	3.9	5.2	-110.25	59.4	14.2	43.7	36.4	7.32	5.967	
2,185.0	2,178.5	2,185.3	2,183.6	4.0	5.8	-118.46	68.5	23.2	49.4	41.7	7.75	6.383	
2,280.0	2,270.4	2,280.2	2,277.2	4.0	6.0	-124.59	79.7	34.2	56.5	48.3	8.15	6.934	
2,375.0	2,362.2	2,374.8	2,370.4	4.1	6.2	-129.30	91.4	45.8	64.2	55.6	8.52	7.534	
2,470.0	2,454.0	2,469.3	2,463.5	4.2	6.3	-132.99	103.1	57.3	72.2	63.3	8.90	8.109	
2,565.0	2,545.7	2,563.9	2,556.6	4.2	6.5	-135.94	114.8	68.8	80.4	71.1	9.29	8.661	
2,660.0	2,637.5	2,658.5	2,649.7	4.3	6.7	-138.33	126.5	80.3	88.9	79.2	9.67	9.190	
2,755.0	2,729.2	2,753.0	2,742.9	4.4	6.9	-140.31	138.2	91.8	97.4	87.4	10.05	9.692	
2,850.0	2,821.0	2,847.6	2,836.0	4.5	7.2	-141.96	149.9	103.4	106.1	95.6	10.43	10.166	
2,945.0	2,912.8	2,942.1	2,929.1	4.6	7.4	-143.37	161.6	114.9	114.8	104.0	10.82	10.611	
3,040.0	3,004.5	3,036.7	3,022.2	4.7	7.6	-144.58	173.3	126.4	123.6	112.4	11.20	11.027	
3,135.0	3,096.3	3,131.3	3,115.3	4.8	7.9	-145.62	185.0	137.9	132.4	120.8	11.60	11.416	
3,230.0	3,188.1	3,225.8	3,208.5	4.9	8.1	-146.54	196.7	149.5	141.3	129.3	11.99	11.778	
3,325.0	3,279.8	3,320.4	3,301.6	5.0	8.4	-147.34	208.4	161.0	150.2	137.8	12.39	12.115	
3,420.0	3,371.6	3,414.9	3,394.7	5.1	8.7	-148.06	220.1	172.5	159.1	146.3	12.80	12.429	
3,515.0	3,463.3	3,509.5	3,487.8	5.2	9.0	-148.70	231.8	184.0	168.0	154.8	13.21	12.722	
3,610.0	3,555.1	3,604.1	3,581.0	5.3	9.2	-149.28	243.5	195.6	177.0	163.4	13.62	12.994	
3,705.0	3,646.9	3,698.6	3,674.1	5.4	9.5	-149.80	255.2	207.1	186.0	171.9	14.04	13.248	
3,800.0	3,738.6	3,793.2	3,767.2	5.5	9.8	-150.27	266.9	218.6	195.0	180.5	14.46	13.484	
3,895.0	3,830.4	3,887.7	3,860.3	5.6	10.1	-150.70	278.6	230.1	204.0	189.1	14.88	13.704	
3,990.0	3,922.2	3,982.3	3,953.5	5.8	10.4	-151.09	290.3	241.6	213.0	197.7	15.31	13.910	
4,085.0	4,013.9	4,076.9	4,046.6	5.9	10.7	-151.45	302.0	253.2	222.0	206.3	15.74	14.102	
4,180.0	4,105.7	4,171.4	4,139.7	6.0	11.0	-151.79	313.7	264.7	231.1	214.9	16.18	14.281	
4,275.0	4,197.4	4,266.0	4,232.8	6.1	11.3	-152.10	325.4	276.2	240.1	223.5	16.62	14.449	
4,370.0	4,289.2	4,360.6	4,326.0	6.3	11.7	-152.38	337.1	287.7	249.1	232.1	17.06	14.606	
4,465.0	4,381.0	4,455.1	4,419.1	6.4	12.0	-152.65	348.8	299.3	258.2	240.7	17.50	14.753	
4,560.0	4,472.7	4,549.7	4,512.2	6.6	12.3	-152.90	360.4	310.8	267.3	249.3	17.95	14.892	
4,655.0	4,564.5	4,644.2	4,605.3	6.7	12.6	-153.13	372.1	322.3	276.3	257.9	18.39	15.022	
4,750.0	4,656.2	4,738.8	4,698.5	6.8	12.9	-153.35	383.8	333.8	285.4	266.5	18.85	15.143	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT (LEA 2632) - HARRIER FEDERAL COM #801H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 1750-MWD+IFR1+MS, 11773-MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,845.0	4,748.0	4,833.4	4,791.6	7.0	13.2	-153.55	395.5	345.4	294.5	275.2	19.30	15.257	
4,940.0	4,839.8	4,927.9	4,884.7	7.2	13.6	-153.74	407.2	356.9	303.5	283.8	19.75	15.366	
5,035.0	4,931.5	5,022.5	4,977.8	7.3	13.9	-153.92	418.9	368.4	312.6	292.4	20.21	15.467	
5,130.0	5,023.3	5,117.0	5,070.9	7.5	14.2	-154.09	430.6	379.9	321.7	301.0	20.67	15.563	
5,225.0	5,115.1	5,211.6	5,164.1	7.7	14.6	-154.25	442.3	391.4	330.8	309.6	21.13	15.654	
5,320.0	5,206.8	5,306.2	5,257.2	7.8	14.9	-154.40	454.0	403.0	339.9	318.3	21.59	15.739	
5,415.0	5,298.6	5,400.7	5,350.3	8.0	15.2	-154.55	465.7	414.5	349.0	326.9	22.06	15.820	
5,510.0	5,390.3	5,495.3	5,443.4	8.2	15.5	-154.69	477.4	426.0	358.0	335.5	22.52	15.897	
5,605.0	5,482.1	5,589.8	5,536.6	8.4	15.9	-154.82	489.1	437.5	367.1	344.1	22.99	15.969	
5,700.0	5,573.9	5,684.4	5,629.7	8.6	16.2	-154.94	500.8	449.1	376.2	352.8	23.46	16.038	
5,795.0	5,665.6	5,779.0	5,722.8	8.8	16.5	-155.06	512.5	460.6	385.3	361.4	23.93	16.103	
5,890.0	5,757.4	5,873.5	5,815.9	9.0	16.9	-155.17	524.2	472.1	394.4	370.0	24.40	16.164	
5,985.0	5,849.2	5,968.1	5,909.1	9.2	17.2	-155.28	535.9	483.6	403.5	378.6	24.87	16.223	
6,080.0	5,940.9	6,062.6	6,002.2	9.4	17.6	-155.38	547.6	495.2	412.6	387.3	25.35	16.278	
6,175.0	6,032.7	6,157.2	6,095.3	9.6	17.9	-155.48	559.3	506.7	421.7	395.9	25.82	16.331	
6,270.0	6,124.4	6,251.8	6,188.4	9.8	18.2	-155.57	571.0	518.2	430.8	404.5	26.30	16.381	
6,365.0	6,216.2	6,346.3	6,281.6	10.0	18.6	-155.66	582.7	529.7	439.9	413.2	26.78	16.429	
6,460.0	6,308.0	6,440.9	6,374.7	10.2	18.9	-155.75	594.4	541.2	449.0	421.8	27.26	16.474	
6,555.0	6,399.7	6,535.4	6,467.8	10.4	19.2	-155.83	606.1	552.8	458.1	430.4	27.74	16.518	
6,650.0	6,491.6	6,630.0	6,561.0	10.6	19.6	-155.92	617.8	564.3	466.8	438.6	28.22	16.545	
6,745.0	6,583.9	6,724.8	6,654.2	10.8	19.9	-155.93	629.5	575.8	474.1	445.4	28.70	16.523	
6,840.0	6,676.5	6,819.6	6,747.6	11.0	20.3	-155.85	641.2	587.4	480.0	450.8	29.18	16.452	
6,935.0	6,769.4	6,914.5	6,841.1	11.2	20.6	-155.70	652.9	599.0	484.4	454.8	29.65	16.336	
7,030.0	6,862.7	7,009.4	6,934.6	11.4	21.0	-155.47	664.7	610.5	487.5	457.3	30.13	16.177	
7,125.0	6,956.2	7,104.3	7,028.1	11.6	21.3	-155.16	676.4	622.1	489.0	458.4	30.61	15.976	
7,220.0	7,050.1	7,199.3	7,121.6	11.7	21.6	-154.76	688.2	633.7	489.2	458.1	31.09	15.737	
7,315.0	7,144.1	7,294.2	7,215.0	11.9	22.0	-154.28	699.9	645.2	488.0	456.4	31.56	15.462	
7,410.0	7,238.4	7,389.0	7,308.4	12.0	22.3	-153.71	711.6	656.8	485.4	453.4	32.04	15.152	
7,505.0	7,332.8	7,483.8	7,401.7	12.1	22.7	-153.05	723.4	668.3	481.5	448.9	32.51	14.810	
7,600.0	7,427.4	7,578.4	7,494.9	12.2	23.0	-152.28	735.1	679.9	476.2	443.2	32.98	14.438	
7,695.0	7,522.1	7,672.9	7,588.0	12.3	23.4	-151.39	746.8	691.4	469.6	436.1	33.45	14.039	
7,790.0	7,617.0	7,767.3	7,680.9	12.4	23.7	-150.38	758.4	702.9	461.7	427.8	33.91	13.616	
7,885.0	7,711.9	7,861.4	7,773.7	12.4	24.0	-149.23	770.1	714.4	452.7	418.3	34.37	13.173	
7,980.0	7,806.9	7,955.4	7,866.2	12.5	24.4	-147.91	781.7	725.8	442.5	407.7	34.82	12.709	
8,075.0	7,901.9	8,049.1	7,958.4	12.5	24.7	-146.42	793.3	737.2	431.2	395.9	35.25	12.233	
8,170.0	7,996.9	8,138.7	8,046.8	12.6	25.0	-89.45	804.0	747.8	419.9	384.2	35.63	11.783	
8,265.0	8,091.9	8,228.1	8,135.2	12.6	25.4	-88.07	813.8	757.4	409.8	373.8	36.02	11.379	
8,360.0	8,186.9	8,318.0	8,224.2	12.7	25.7	-86.76	822.6	766.1	401.1	364.7	36.40	11.018	
8,455.0	8,281.9	8,408.2	8,313.7	12.7	26.0	-85.56	830.4	773.8	393.5	356.7	36.78	10.699	
8,550.0	8,376.9	8,500.0	8,405.0	12.8	26.3	-84.45	837.3	780.6	387.0	349.9	37.16	10.416	
8,645.0	8,471.9	8,589.5	8,494.1	12.8	26.7	-83.51	843.1	786.3	381.7	344.1	37.52	10.173	
8,740.0	8,566.9	8,680.5	8,584.9	12.9	27.0	-82.70	847.9	791.0	377.3	339.4	37.88	9.961	
8,835.0	8,661.9	8,771.8	8,676.0	13.0	27.3	-82.04	851.7	794.8	374.0	335.7	38.23	9.781	
8,930.0	8,756.9	8,863.2	8,767.3	13.0	27.6	-81.56	854.5	797.6	371.5	333.0	38.58	9.629	
9,025.0	8,851.9	8,954.6	8,858.8	13.1	27.9	-81.25	856.3	799.3	370.0	331.1	38.93	9.506	
9,120.0	8,946.9	9,046.2	8,950.3	13.2	28.2	-81.13	857.0	800.0	369.4	330.2	39.26	9.409	
9,158.7	8,985.6	9,084.3	8,988.4	13.2	28.3	-81.12	857.0	800.0	369.4	330.0	39.40	9.377	
9,215.0	9,041.9	9,140.6	9,044.7	13.2	28.5	-81.12	857.0	800.0	369.4	329.8	39.60	9.330	
9,310.0	9,136.9	9,235.6	9,139.7	13.3	28.8	-81.12	857.0	800.0	369.4	329.5	39.94	9.250	
9,405.0	9,231.9	9,330.6	9,234.7	13.4	29.1	-81.12	857.0	800.0	369.4	329.1	40.28	9.172	
9,500.0	9,326.9	9,425.6	9,329.7	13.5	29.4	-81.12	857.0	800.0	369.4	328.8	40.62	9.095	
9,595.0	9,421.9	9,520.6	9,424.7	13.5	29.8	-81.12	857.0	800.0	369.4	328.5	40.96	9.019	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT (LEA 2632) - HARRIER FEDERAL COM #801H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 1750-MWD+IFR1+MS, 11773-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Distance				Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,690.0	9,516.9	9,615.6	9,519.7	13.6	30.1	-81.12	857.0	800.0	369.4	328.1	41.31	8.943	
9,785.0	9,611.9	9,710.6	9,614.7	13.7	30.4	-81.12	857.0	800.0	369.4	327.8	41.65	8.869	
9,880.0	9,706.9	9,805.6	9,709.7	13.8	30.7	-81.12	857.0	800.0	369.4	327.4	42.00	8.796	
9,975.0	9,801.9	9,900.6	9,804.7	13.9	31.0	-81.12	857.0	800.0	369.4	327.1	42.34	8.724	
10,070.0	9,896.9	9,995.6	9,899.7	14.0	31.3	-81.12	857.0	800.0	369.4	326.7	42.69	8.653	
10,165.0	9,991.9	10,090.6	9,994.7	14.0	31.7	-81.12	857.0	800.0	369.4	326.4	43.04	8.583	
10,260.0	10,086.9	10,185.6	10,089.7	14.1	32.0	-81.12	857.0	800.0	369.4	326.0	43.39	8.514	
10,355.0	10,181.9	10,280.6	10,184.7	14.2	32.3	-81.12	857.0	800.0	369.4	325.7	43.74	8.446	
10,450.0	10,276.9	10,375.6	10,279.7	14.3	32.6	-81.12	857.0	800.0	369.4	325.3	44.09	8.379	
10,545.0	10,371.9	10,470.6	10,374.7	14.4	32.9	-81.12	857.0	800.0	369.4	325.0	44.44	8.312	
10,640.0	10,466.9	10,565.6	10,469.7	14.5	33.2	-81.12	857.0	800.0	369.4	324.6	44.80	8.247	
10,735.0	10,561.9	10,660.6	10,564.7	14.6	33.6	-81.12	857.0	800.0	369.4	324.3	45.15	8.182	
10,830.0	10,656.9	10,755.6	10,659.7	14.7	33.9	-81.12	857.0	800.0	369.4	323.9	45.50	8.119	
10,925.0	10,751.9	10,850.6	10,754.7	14.7	34.2	-81.12	857.0	800.0	369.4	323.6	45.86	8.056	
11,020.0	10,846.9	10,945.6	10,849.7	14.8	34.5	-81.12	857.0	800.0	369.4	323.2	46.21	7.994	
11,115.0	10,941.9	11,040.6	10,944.7	14.9	34.9	-81.12	857.0	800.0	369.4	322.9	46.57	7.933	
11,210.0	11,036.9	11,135.6	11,039.7	15.0	35.2	-81.12	857.0	800.0	369.4	322.5	46.93	7.872	
11,305.0	11,131.9	11,230.6	11,134.7	15.1	35.5	-81.12	857.0	800.0	369.4	322.1	47.28	7.813	
11,400.0	11,226.9	11,325.6	11,229.7	15.2	35.8	-81.12	857.0	800.0	369.4	321.8	47.64	7.754	
11,495.0	11,321.9	11,420.6	11,324.7	15.3	36.1	-81.12	857.0	800.0	369.4	321.4	48.00	7.696	
11,590.0	11,416.9	11,515.6	11,419.7	15.4	36.5	-81.12	857.0	800.0	369.4	321.1	48.36	7.639	
11,685.0	11,511.9	11,610.6	11,514.7	15.5	36.8	-81.12	857.0	800.0	369.4	320.7	48.72	7.583	
11,780.0	11,606.9	11,705.6	11,609.7	15.6	37.1	-81.12	857.0	800.0	369.4	320.4	49.07	7.528	
11,875.0	11,701.9	11,816.0	11,720.0	15.7	37.2	-81.39	855.2	800.6	368.9	319.6	49.21	7.495	
11,970.0	11,796.9	11,955.6	11,855.3	15.8	37.2	-86.04	824.5	811.2	359.0	309.6	49.40	7.267	
12,065.0	11,891.9	12,069.2	11,954.7	15.9	37.2	-94.59	773.0	829.0	342.4	292.7	49.64	6.897	
12,160.0	11,986.8	12,155.3	12,019.9	16.1	37.2	88.73	720.0	847.3	329.0	278.7	50.28	6.543	
12,249.2	12,074.6	12,225.0	12,064.6	16.2	37.2	81.26	669.6	864.7	324.9	274.9	49.97	6.501	
12,255.0	12,080.2	12,229.3	12,067.2	16.2	37.2	80.77	666.3	865.9	324.9	274.9	49.96	6.503	
12,350.0	12,168.6	12,297.5	12,102.4	16.3	37.3	72.92	611.2	884.9	329.4	279.5	49.89	6.603	
12,445.0	12,248.4	12,361.8	12,127.8	16.4	37.3	65.52	555.3	904.2	340.3	290.1	50.18	6.781	
12,540.0	12,316.4	12,425.0	12,144.7	16.6	37.3	58.78	497.9	924.0	354.6	303.9	50.67	6.998	
12,635.0	12,370.1	12,483.2	12,153.1	16.7	37.4	53.26	443.5	942.8	369.9	318.7	51.24	7.220	
12,730.0	12,407.2	12,548.8	12,154.8	16.8	37.4	48.40	381.4	964.1	383.9	332.1	51.82	7.408	
12,825.0	12,426.4	12,633.0	12,154.8	16.8	37.5	45.18	301.3	989.7	390.6	338.3	52.30	7.467	
12,920.0	12,429.0	12,719.4	12,154.8	16.9	37.6	44.34	218.2	1,013.5	387.7	335.1	52.68	7.360	
13,015.0	12,429.0	12,806.1	12,154.8	16.9	37.7	43.65	134.2	1,034.8	383.3	330.2	53.11	7.217	
13,110.0	12,429.0	12,892.9	12,154.8	17.0	37.9	42.91	49.4	1,053.7	378.7	325.0	53.62	7.062	
13,205.0	12,429.0	12,979.9	12,154.8	17.0	38.0	42.12	-36.0	1,069.9	373.9	319.8	54.16	6.904	
13,300.0	12,429.0	13,067.1	12,154.8	17.1	38.2	41.28	-122.1	1,083.6	369.1	314.4	54.73	6.744	
13,395.0	12,429.0	13,154.5	12,154.8	17.2	38.4	40.39	-208.8	1,094.7	364.2	308.9	55.33	6.583	
13,490.0	12,429.0	13,242.1	12,154.8	17.3	38.5	39.47	-296.0	1,103.2	359.3	303.4	55.91	6.426	
13,585.0	12,429.0	13,330.0	12,154.8	17.4	38.7	38.82	-383.7	1,109.0	355.7	299.2	56.48	6.297	
13,680.0	12,429.0	13,418.1	12,154.8	17.5	38.9	38.49	-471.7	1,112.2	353.9	296.8	57.08	6.200	
13,723.3	12,429.0	13,458.4	12,154.8	17.6	39.0	38.46	-512.0	1,112.7	353.7	296.4	57.35	6.167	
13,775.0	12,429.0	13,510.0	12,154.8	17.7	39.0	38.46	-563.7	1,113.0	353.7	296.1	57.63	6.138	
13,870.0	12,429.0	13,605.0	12,154.8	18.0	39.2	38.46	-658.7	1,113.6	353.7	295.6	58.17	6.081	
13,965.0	12,429.0	13,700.0	12,154.8	18.4	39.4	38.46	-753.7	1,114.2	353.7	295.0	58.75	6.021	
14,060.0	12,429.0	13,795.0	12,154.8	18.9	39.6	38.46	-848.7	1,114.7	353.7	294.4	59.36	5.959	
14,155.0	12,429.0	13,890.0	12,154.8	19.4	39.8	38.46	-943.7	1,115.3	353.7	293.7	60.00	5.896	
14,250.0	12,429.0	13,985.0	12,154.8	19.9	40.0	38.46	-1,038.6	1,115.9	353.7	293.1	60.66	5.831	
14,345.0	12,429.0	14,080.0	12,154.8	20.4	40.2	38.46	-1,133.6	1,116.5	353.7	292.4	61.36	5.765	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT (LEA 2632) - HARRIER FEDERAL COM #801H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 1750-MWD+IFR1+MS, 11773-MWD+IFR1+MS								Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,440.0	12,429.0	14,175.0	12,154.8	20.9	40.4	38.46	-1,228.6	1,117.1	353.7	291.6	62.08	5.698		
14,535.0	12,429.0	14,270.0	12,154.8	21.5	40.7	38.46	-1,323.6	1,117.6	353.7	290.9	62.83	5.630		
14,630.0	12,429.0	14,365.0	12,154.8	22.1	40.9	38.46	-1,418.6	1,118.2	353.7	290.1	63.60	5.561		
14,725.0	12,429.0	14,460.0	12,154.8	22.6	41.2	38.46	-1,513.6	1,118.8	353.7	289.3	64.40	5.493		
14,820.0	12,429.0	14,555.0	12,154.8	23.2	41.5	38.46	-1,608.6	1,119.4	353.7	288.5	65.22	5.423		
14,915.0	12,429.0	14,650.0	12,154.8	23.8	41.8	38.46	-1,703.6	1,120.0	353.7	287.7	66.07	5.354		
15,010.0	12,429.0	14,745.0	12,154.8	24.4	42.1	38.46	-1,798.6	1,120.5	353.7	286.8	66.93	5.285		
15,105.0	12,429.0	14,840.0	12,154.8	25.0	42.4	38.46	-1,893.6	1,121.1	353.7	285.9	67.82	5.216		
15,200.0	12,429.0	14,935.0	12,154.8	25.6	42.7	38.46	-1,988.6	1,121.7	353.7	285.0	68.73	5.147		
15,295.0	12,429.0	15,030.0	12,154.8	26.3	43.0	38.46	-2,083.6	1,122.3	353.7	284.1	69.65	5.078		
15,390.0	12,429.0	15,125.0	12,154.8	26.9	43.3	38.46	-2,178.6	1,122.9	353.7	283.1	70.60	5.011		
15,485.0	12,429.0	15,220.0	12,154.8	27.5	43.7	38.46	-2,273.6	1,123.4	353.7	282.2	71.56	4.943		
15,580.0	12,429.0	15,315.0	12,154.8	28.2	44.0	38.46	-2,368.6	1,124.0	353.7	281.2	72.54	4.876		
15,675.0	12,429.0	15,410.0	12,154.8	28.8	44.4	38.46	-2,463.6	1,124.6	353.7	280.2	73.53	4.810		
15,770.0	12,429.0	15,505.0	12,154.8	29.4	44.8	38.46	-2,558.6	1,125.2	353.7	279.2	74.55	4.745		
15,865.0	12,429.0	15,600.0	12,154.8	30.1	45.2	38.46	-2,653.6	1,125.8	353.7	278.2	75.57	4.681		
15,960.0	12,429.0	15,695.0	12,154.8	30.7	45.5	38.46	-2,748.6	1,126.3	353.7	277.1	76.61	4.617		
16,055.0	12,429.0	15,790.0	12,154.8	31.4	45.9	38.46	-2,843.6	1,126.9	353.7	276.1	77.67	4.554		
16,150.0	12,429.0	15,885.0	12,154.8	32.1	46.3	38.46	-2,938.6	1,127.5	353.7	275.0	78.74	4.493		
16,245.0	12,429.0	15,980.0	12,154.8	32.7	46.8	38.46	-3,033.6	1,128.1	353.7	273.9	79.82	4.432		
16,340.0	12,429.0	16,075.0	12,154.8	33.4	47.2	38.46	-3,128.6	1,128.7	353.7	272.8	80.91	4.372		
16,435.0	12,429.0	16,170.0	12,154.8	34.0	47.6	38.46	-3,223.6	1,129.2	353.7	271.7	82.01	4.313		
16,530.0	12,429.0	16,265.0	12,154.8	34.7	48.0	38.46	-3,318.6	1,129.8	353.7	270.6	83.13	4.255		
16,625.0	12,429.0	16,360.0	12,154.8	35.4	48.5	38.46	-3,413.6	1,130.4	353.7	269.5	84.26	4.198		
16,720.0	12,429.0	16,455.0	12,154.8	36.1	48.9	38.46	-3,508.6	1,131.0	353.7	268.3	85.40	4.142		
16,815.0	12,429.0	16,550.0	12,154.8	36.7	49.4	38.46	-3,603.6	1,131.6	353.7	267.2	86.54	4.087		
16,910.0	12,429.0	16,645.0	12,154.8	37.4	49.9	38.46	-3,698.6	1,132.1	353.7	266.0	87.70	4.033		
17,005.0	12,429.0	16,740.0	12,154.8	38.1	50.3	38.46	-3,793.6	1,132.7	353.7	264.9	88.87	3.980		
17,100.0	12,429.0	16,835.0	12,154.8	38.8	50.8	38.46	-3,888.6	1,133.3	353.7	263.7	90.04	3.928		
17,195.0	12,429.0	16,930.0	12,154.8	39.4	51.3	38.46	-3,983.6	1,133.9	353.7	262.5	91.23	3.877		
17,290.0	12,429.0	17,025.0	12,154.8	40.1	51.8	38.46	-4,078.6	1,134.5	353.7	261.3	92.42	3.827		
17,385.0	12,429.0	17,120.0	12,154.8	40.8	52.3	38.46	-4,173.6	1,135.0	353.7	260.1	93.62	3.778		
17,480.0	12,429.0	17,215.0	12,154.8	41.5	52.8	38.46	-4,268.6	1,135.6	353.7	258.9	94.83	3.730		
17,575.0	12,429.0	17,310.0	12,154.8	42.2	53.3	38.46	-4,363.6	1,136.2	353.7	257.7	96.04	3.683		
17,670.0	12,429.0	17,405.0	12,154.8	42.9	53.8	38.46	-4,458.6	1,136.8	353.7	256.5	97.26	3.637		
17,765.0	12,429.0	17,500.0	12,154.8	43.6	54.3	38.46	-4,553.6	1,137.4	353.7	255.2	98.49	3.591		
17,860.0	12,429.0	17,595.0	12,154.8	44.3	54.8	38.46	-4,648.6	1,137.9	353.7	254.0	99.73	3.547		
17,955.0	12,429.0	17,690.0	12,154.8	45.0	55.3	38.46	-4,743.6	1,138.5	353.7	252.8	100.97	3.503		
18,050.0	12,429.0	17,785.0	12,154.8	45.6	55.8	38.46	-4,838.6	1,139.1	353.7	251.5	102.22	3.460		
18,145.0	12,429.0	17,880.0	12,154.8	46.3	56.4	38.46	-4,933.6	1,139.7	353.7	250.3	103.47	3.419		
18,240.0	12,429.0	17,975.0	12,154.8	47.0	56.9	38.46	-5,028.6	1,140.3	353.7	249.0	104.73	3.377		
18,335.0	12,429.0	18,070.0	12,154.8	47.7	57.4	38.46	-5,123.6	1,140.8	353.7	247.7	106.00	3.337		
18,430.0	12,429.0	18,165.0	12,154.8	48.4	58.0	38.46	-5,218.6	1,141.4	353.7	246.5	107.27	3.298		
18,525.0	12,429.0	18,260.0	12,154.8	49.1	58.5	38.46	-5,313.6	1,142.0	353.7	245.2	108.55	3.259		
18,620.0	12,429.0	18,355.0	12,154.8	49.8	59.1	38.46	-5,408.6	1,142.6	353.7	243.9	109.83	3.221		
18,715.0	12,429.0	18,450.0	12,154.8	50.5	59.6	38.46	-5,503.6	1,143.2	353.7	242.6	111.11	3.184		
18,810.0	12,429.0	18,545.0	12,154.8	51.2	60.2	38.46	-5,598.6	1,143.7	353.7	241.3	112.40	3.147		
18,905.0	12,429.0	18,640.0	12,154.8	51.9	60.8	38.46	-5,693.6	1,144.3	353.7	240.0	113.70	3.111		
19,000.0	12,429.0	18,735.0	12,154.8	52.6	61.3	38.46	-5,788.6	1,144.9	353.7	238.7	115.00	3.076		
19,095.0	12,429.0	18,830.0	12,154.8	53.3	61.9	38.46	-5,883.6	1,145.5	353.7	237.4	116.30	3.042		
19,190.0	12,429.0	18,925.0	12,154.8	54.0	62.5	38.46	-5,978.6	1,146.0	353.7	236.1	117.61	3.008		
19,285.0	12,429.0	19,020.0	12,154.8	54.7	63.1	38.46	-6,073.6	1,146.6	353.7	234.8	118.92	2.975		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT (LEA 2632) - HARRIER FEDERAL COM #801H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 1750-MWD+IFR1+MS, 11773-MWD+IFR1+MS								Rule Assigned:					Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Highside	Distance				Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,380.0	12,429.0	19,115.0	12,154.8	55.4	63.6	38.46	-6,168.6	1,147.2	353.7	233.5	120.23	2.942	
19,475.0	12,429.0	19,210.0	12,154.8	56.1	64.2	38.46	-6,263.6	1,147.8	353.7	232.2	121.55	2.910	
19,570.0	12,429.0	19,305.0	12,154.8	56.9	64.8	38.46	-6,358.5	1,148.4	353.7	230.9	122.87	2.879	
19,665.0	12,429.0	19,400.0	12,154.8	57.6	65.4	38.46	-6,453.5	1,148.9	353.7	229.5	124.20	2.848	
19,760.0	12,429.0	19,495.0	12,154.8	58.3	66.0	38.46	-6,548.5	1,149.5	353.7	228.2	125.52	2.818	
19,855.0	12,429.0	19,590.0	12,154.8	59.0	66.6	38.46	-6,643.5	1,150.1	353.7	226.9	126.86	2.788	
19,950.0	12,429.0	19,685.0	12,154.8	59.7	67.2	38.46	-6,738.5	1,150.7	353.7	225.5	128.19	2.759	
20,045.0	12,429.0	19,780.0	12,154.8	60.4	67.8	38.46	-6,833.5	1,151.3	353.7	224.2	129.53	2.731	
20,140.0	12,429.0	19,875.0	12,154.8	61.1	68.4	38.46	-6,928.5	1,151.8	353.7	222.9	130.87	2.703	
20,235.0	12,429.0	19,970.0	12,154.8	61.8	69.0	38.46	-7,023.5	1,152.4	353.7	221.5	132.21	2.676	
20,330.0	12,429.0	20,065.0	12,154.8	62.5	69.6	38.46	-7,118.5	1,153.0	353.7	220.2	133.56	2.649	
20,425.0	12,429.0	20,160.0	12,154.8	63.2	70.2	38.46	-7,213.5	1,153.6	353.7	218.8	134.91	2.622	
20,520.0	12,429.0	20,255.0	12,154.8	63.9	70.8	38.46	-7,308.5	1,154.2	353.7	217.5	136.26	2.596	
20,615.0	12,429.0	20,350.0	12,154.8	64.6	71.4	38.46	-7,403.5	1,154.7	353.7	216.1	137.61	2.571	
20,710.0	12,429.0	20,445.0	12,154.8	65.3	72.0	38.46	-7,498.5	1,155.3	353.7	214.8	138.97	2.545	
20,805.0	12,429.0	20,540.0	12,154.8	66.1	72.6	38.46	-7,593.5	1,155.9	353.7	213.4	140.33	2.521	
20,900.0	12,429.0	20,635.0	12,154.8	66.8	73.2	38.46	-7,688.5	1,156.5	353.7	212.0	141.69	2.497	
20,995.0	12,429.0	20,730.0	12,154.8	67.5	73.9	38.46	-7,783.5	1,157.1	353.7	210.7	143.05	2.473	
21,090.0	12,429.0	20,825.0	12,154.8	68.2	74.5	38.46	-7,878.5	1,157.6	353.7	209.3	144.42	2.449	
21,185.0	12,429.0	20,920.0	12,154.8	68.9	75.1	38.46	-7,973.5	1,158.2	353.7	208.0	145.79	2.426	
21,280.0	12,429.0	21,015.0	12,154.8	69.6	75.7	38.46	-8,068.5	1,158.8	353.7	206.6	147.16	2.404	
21,375.0	12,429.0	21,110.0	12,154.8	70.3	76.4	38.46	-8,163.5	1,159.4	353.7	205.2	148.53	2.382	
21,470.0	12,429.0	21,205.0	12,154.8	71.0	77.0	38.46	-8,258.5	1,160.0	353.7	203.8	149.90	2.360	
21,565.0	12,429.0	21,300.0	12,154.8	71.8	77.6	38.46	-8,353.5	1,160.5	353.7	202.5	151.28	2.338	
21,660.0	12,429.0	21,395.0	12,154.8	72.5	78.3	38.46	-8,448.5	1,161.1	353.7	201.1	152.65	2.317	
21,755.0	12,429.0	21,490.0	12,154.8	73.2	78.9	38.46	-8,543.5	1,161.7	353.7	199.7	154.03	2.297	
21,850.0	12,429.0	21,585.0	12,154.8	73.9	79.5	38.46	-8,638.5	1,162.3	353.7	198.3	155.41	2.276	
21,945.0	12,429.0	21,680.0	12,154.8	74.6	80.2	38.46	-8,733.5	1,162.9	353.7	196.9	156.80	2.256	
22,040.0	12,429.0	21,775.0	12,154.8	75.3	80.8	38.46	-8,828.5	1,163.4	353.7	195.6	158.18	2.236	
22,135.0	12,429.0	21,870.0	12,154.8	76.0	81.4	38.46	-8,923.5	1,164.0	353.7	194.2	159.57	2.217	
22,230.0	12,429.0	21,965.0	12,154.8	76.8	82.1	38.46	-9,018.5	1,164.6	353.7	192.8	160.95	2.198	
22,325.0	12,429.0	22,060.0	12,154.8	77.5	82.7	38.46	-9,113.5	1,165.2	353.7	191.4	162.34	2.179	
22,420.0	12,429.0	22,155.0	12,154.8	78.2	83.4	38.46	-9,208.5	1,165.8	353.7	190.0	163.73	2.160	
22,515.0	12,429.0	22,250.0	12,154.8	78.9	84.0	38.46	-9,303.5	1,166.3	353.7	188.6	165.12	2.142	
22,610.0	12,429.0	22,345.0	12,154.8	79.6	84.7	38.46	-9,398.5	1,166.9	353.7	187.2	166.52	2.124	
22,705.0	12,429.0	22,440.0	12,154.8	80.3	85.3	38.46	-9,493.5	1,167.5	353.7	185.8	167.91	2.107	
22,800.0	12,429.0	22,535.0	12,154.8	81.0	86.0	38.46	-9,588.5	1,168.1	353.7	184.4	169.31	2.089	
22,895.0	12,429.0	22,630.0	12,154.8	81.8	86.6	38.46	-9,683.5	1,168.7	353.7	183.0	170.70	2.072	
22,901.5	12,429.0	22,636.5	12,154.8	81.8	86.7	38.46	-9,689.9	1,168.7	353.7	182.9	170.79	2.071 SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT (LEA 2632) - HARRIER FEDERAL COM #802H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 1750-Standard Keeper 104, 12010-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.8	0.8	3.0	3.0	-53.44	44.5	-60.0	74.7				
95.0	95.0	95.8	95.8	3.0	3.0	-53.44	44.5	-60.0	74.7	68.7	6.00	12.449	
190.0	190.0	190.8	190.8	3.0	3.0	-53.44	44.5	-60.0	74.7	68.7	6.00	12.440	
285.0	285.0	285.8	285.8	3.0	3.0	-53.44	44.5	-60.0	74.7	68.7	6.02	12.419	
380.0	380.0	380.8	380.8	3.0	3.0	-53.44	44.5	-60.0	74.7	68.7	6.03	12.387	
475.0	475.0	475.8	475.8	3.0	3.0	-53.44	44.5	-60.0	74.7	68.6	6.05	12.343	
570.0	570.0	570.8	570.8	3.1	3.1	-53.44	44.5	-60.0	74.7	68.6	6.08	12.289	
665.0	665.0	665.8	665.8	3.1	3.1	-53.44	44.5	-60.0	74.7	68.6	6.11	12.224	
760.0	760.0	760.8	760.8	3.1	3.1	-53.44	44.5	-60.0	74.7	68.6	6.15	12.150	
855.0	855.0	855.8	855.8	3.2	3.2	-53.44	44.5	-60.0	74.7	68.5	6.19	12.066	
950.0	950.0	950.8	950.8	3.2	3.2	-53.44	44.5	-60.0	74.7	68.5	6.24	11.974	
1,045.0	1,045.0	1,045.8	1,045.8	3.3	3.3	-53.44	44.5	-60.0	74.7	68.4	6.29	11.874	
1,140.0	1,140.0	1,140.8	1,140.8	3.3	3.3	-53.44	44.5	-60.0	74.7	68.4	6.35	11.766	
1,235.0	1,235.0	1,235.8	1,235.8	3.4	3.4	-53.44	44.5	-60.0	74.7	68.3	6.41	11.652	
1,330.0	1,330.0	1,330.8	1,330.8	3.4	3.4	-53.44	44.5	-60.0	74.7	68.2	6.48	11.531	
1,425.0	1,425.0	1,425.8	1,425.8	3.5	3.5	-53.44	44.5	-60.0	74.7	68.2	6.55	11.406 CC	
1,427.2	1,427.2	1,428.0	1,428.0	3.5	3.5	-108.96	44.5	-60.0	74.7	68.2	6.55	11.403	
1,520.0	1,520.0	1,520.8	1,520.8	3.6	3.6	-109.01	44.5	-60.0	74.7	68.1	6.62	11.282 ES, SF	
1,615.0	1,615.0	1,615.8	1,615.8	3.6	3.6	-110.60	44.5	-60.0	75.5	68.8	6.66	11.331	
1,710.0	1,709.8	1,710.6	1,710.6	3.7	3.7	-114.29	44.5	-60.0	77.5	70.9	6.66	11.645	
1,805.0	1,804.4	1,804.5	1,804.5	3.7	3.8	-119.31	45.0	-60.0	81.7	75.1	6.64	12.305	
1,900.0	1,898.7	1,897.6	1,897.5	3.8	3.9	-123.78	48.3	-60.2	89.4	82.7	6.63	13.473	
1,995.0	1,992.5	1,990.5	1,990.3	3.8	3.9	-127.25	54.6	-60.7	100.6	93.9	6.65	15.122	
2,090.0	2,085.8	2,083.1	2,082.3	3.9	4.0	-129.70	63.8	-61.3	115.1	108.4	6.69	17.205	
2,185.0	2,178.5	2,175.1	2,173.6	4.0	4.1	-131.28	75.9	-62.1	132.8	126.0	6.75	19.680	
2,280.0	2,270.4	2,267.5	2,264.9	4.0	4.2	-132.54	90.2	-63.0	153.1	146.3	6.81	22.464	
2,375.0	2,362.2	2,360.1	2,356.3	4.1	4.2	-133.81	104.7	-63.9	174.0	167.1	6.89	25.240	
2,470.0	2,454.0	2,452.7	2,447.8	4.2	4.3	-134.81	119.1	-64.9	195.0	188.0	6.98	27.925	
2,565.0	2,545.7	2,545.3	2,539.2	4.2	4.4	-135.61	133.6	-65.8	216.1	209.0	7.08	30.511	
2,660.0	2,637.5	2,637.9	2,630.7	4.3	4.5	-136.27	148.0	-66.8	237.1	230.0	7.19	32.996	
2,755.0	2,729.2	2,730.5	2,722.2	4.4	4.6	-136.83	162.5	-67.7	258.2	250.9	7.30	35.375	
2,850.0	2,821.0	2,823.1	2,813.6	4.5	4.7	-137.30	176.9	-68.7	279.4	271.9	7.42	37.647	
2,945.0	2,912.8	2,915.7	2,905.1	4.6	4.7	-137.70	191.4	-69.6	300.5	292.9	7.55	39.811	
3,040.0	3,004.5	3,008.3	2,996.5	4.7	4.8	-138.05	205.8	-70.6	321.6	314.0	7.68	41.869	
3,135.0	3,096.3	3,100.9	3,088.0	4.8	4.9	-138.36	220.3	-71.5	342.8	335.0	7.82	43.819	
3,230.0	3,188.1	3,193.5	3,179.4	4.9	5.0	-138.63	234.7	-72.5	364.0	356.0	7.97	45.665	
3,325.0	3,279.8	3,286.1	3,270.9	5.0	5.1	-138.87	249.1	-73.4	385.1	377.0	8.12	47.408	
3,420.0	3,371.6	3,378.7	3,362.4	5.1	5.2	-139.09	263.6	-74.4	406.3	398.0	8.28	49.050	
3,515.0	3,463.3	3,471.3	3,453.8	5.2	5.3	-139.28	278.0	-75.3	427.5	419.1	8.45	50.596	
3,610.0	3,555.1	3,563.9	3,545.3	5.3	5.4	-139.46	292.5	-76.3	448.7	440.1	8.62	52.047	
3,705.0	3,646.9	3,656.5	3,636.7	5.4	5.5	-139.62	306.9	-77.2	469.9	461.1	8.80	53.409	
3,800.0	3,738.6	3,749.1	3,728.2	5.5	5.6	-139.77	321.4	-78.2	491.1	482.1	8.98	54.683	
3,895.0	3,830.4	3,841.7	3,819.7	5.6	5.7	-139.90	335.8	-79.1	512.3	503.1	9.17	55.874	
3,990.0	3,922.2	3,934.3	3,911.1	5.8	5.8	-140.03	350.3	-80.1	533.5	524.1	9.36	56.986	
4,085.0	4,013.9	4,026.9	4,002.6	5.9	5.9	-140.14	364.7	-81.0	554.7	545.1	9.56	58.022	
4,180.0	4,105.7	4,119.5	4,094.0	6.0	6.0	-140.25	379.2	-82.0	575.9	566.1	9.76	58.987	
4,275.0	4,197.4	4,212.1	4,185.5	6.1	6.1	-140.35	393.6	-82.9	597.1	587.1	9.97	59.883	
4,370.0	4,289.2	4,304.7	4,277.0	6.3	6.2	-140.44	408.1	-83.9	618.3	608.1	10.18	60.715	
4,465.0	4,381.0	4,397.3	4,368.4	6.4	6.3	-140.52	422.5	-84.8	639.5	629.1	10.40	61.486	
4,560.0	4,472.7	4,489.9	4,459.9	6.6	6.4	-140.60	437.0	-85.8	660.7	650.1	10.62	62.198	
4,655.0	4,564.5	4,582.5	4,551.3	6.7	6.5	-140.68	451.4	-86.7	681.9	671.1	10.85	62.856	
4,750.0	4,656.2	4,675.1	4,642.8	6.8	6.6	-140.75	465.9	-87.6	703.1	692.1	11.08	63.466	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT (LEA 2632) - HARRIER FEDERAL COM #802H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 1750-Standard Keeper 104, 12010-MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,845.0	4,748.0	4,767.7	4,734.2	7.0	6.7	-140.82	480.3	-88.6	724.4	713.0	11.31	64.025	
4,940.0	4,839.8	4,860.3	4,825.7	7.2	6.8	-140.88	494.7	-89.5	745.6	734.0	11.55	64.538	
5,035.0	4,931.5	4,952.9	4,917.2	7.3	7.0	-140.94	509.2	-90.5	766.8	755.0	11.80	65.008	
5,130.0	5,023.3	5,045.5	5,008.6	7.5	7.1	-141.00	523.6	-91.4	788.0	776.0	12.04	65.439	
5,225.0	5,115.1	5,138.1	5,100.1	7.7	7.2	-141.05	538.1	-92.4	809.2	796.9	12.29	65.832	
5,320.0	5,206.8	5,230.7	5,191.5	7.8	7.3	-141.10	552.5	-93.3	830.4	817.9	12.55	66.190	
5,415.0	5,298.6	5,323.3	5,283.0	8.0	7.4	-141.15	567.0	-94.3	851.6	838.8	12.80	66.515	
5,510.0	5,390.3	5,415.9	5,374.5	8.2	7.5	-141.19	581.4	-95.2	872.9	859.8	13.07	66.808	
5,605.0	5,482.1	5,508.5	5,465.9	8.4	7.6	-141.24	595.9	-96.2	894.1	880.8	13.33	67.072	
5,700.0	5,573.9	5,601.1	5,557.4	8.6	7.7	-141.28	610.3	-97.1	915.3	901.7	13.60	67.309	
5,795.0	5,665.6	5,693.6	5,648.8	8.8	7.8	-141.32	624.8	-98.1	936.5	922.7	13.87	67.520	
5,890.0	5,757.4	5,786.2	5,740.3	9.0	7.9	-141.35	639.2	-99.0	957.7	943.6	14.15	67.707	
5,985.0	5,849.2	5,878.8	5,831.8	9.2	8.0	-141.39	653.7	-100.0	979.0	964.5	14.42	67.871	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT (LEA 2632) - QUIJOTE 2 STATE COM #706H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program:		151-MWD								Rule Assigned:			Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
17,195.0	12,429.0	11,932.8	11,880.0	39.4	47.7	-48.48	-4,580.1	1,938.1	981.3	908.0	73.24	13.399		
17,290.0	12,429.0	11,959.5	11,900.2	40.1	47.9	-49.65	-4,597.5	1,938.9	925.2	850.7	74.54	12.413		
17,385.0	12,429.0	11,993.0	11,925.0	40.8	48.2	-51.21	-4,619.8	1,941.2	874.0	798.1	75.93	11.511		
17,480.0	12,429.0	12,020.4	11,944.7	41.5	48.3	-52.52	-4,638.7	1,943.8	828.1	750.7	77.38	10.702		
17,575.0	12,429.0	12,057.6	11,970.3	42.2	48.5	-54.29	-4,665.4	1,947.5	788.1	709.2	78.91	9.987		
17,670.0	12,429.0	12,088.0	11,990.2	42.9	48.7	-55.73	-4,688.1	1,950.7	754.4	673.9	80.52	9.369		
17,765.0	12,429.0	12,149.4	12,028.0	43.6	48.8	-58.58	-4,736.1	1,957.6	726.7	644.4	82.27	8.833		
17,860.0	12,429.0	12,204.1	12,058.8	44.3	49.0	-61.01	-4,780.9	1,963.8	705.2	621.2	83.99	8.397		
17,955.0	12,429.0	12,266.6	12,089.0	45.0	49.1	-63.46	-4,835.2	1,969.8	689.4	603.8	85.60	8.054		
18,050.0	12,429.0	12,331.9	12,113.8	45.6	49.3	-65.50	-4,895.3	1,974.2	678.5	591.4	87.07	7.792		
18,145.0	12,429.0	12,394.9	12,129.4	46.3	49.4	-66.79	-4,956.3	1,976.8	671.9	583.5	88.38	7.602		
18,222.0	12,429.0	12,444.3	12,134.2	46.9	49.4	-67.20	-5,005.4	1,978.2	670.5	581.2	89.32	7.507 CC		
18,240.0	12,429.0	12,457.2	12,134.8	47.0	49.4	-67.26	-5,018.3	1,978.6	670.6	581.0	89.52	7.490		
18,335.0	12,429.0	12,522.3	12,135.9	47.7	49.4	-67.43	-5,083.3	1,981.5	673.4	582.8	90.55	7.436		
18,430.0	12,429.0	12,592.4	12,135.5	48.4	49.3	-67.58	-5,153.2	1,987.4	680.3	588.8	91.54	7.431		
18,525.0	12,429.0	12,674.9	12,135.9	49.1	49.4	-67.89	-5,235.1	1,996.9	689.7	597.2	92.58	7.450		
18,620.0	12,429.0	12,778.0	12,134.9	49.8	49.4	-68.16	-5,337.5	2,008.6	699.5	605.8	93.67	7.468		
18,715.0	12,429.0	12,908.5	12,131.9	50.5	49.4	-68.19	-5,467.7	2,017.8	706.1	611.2	94.86	7.443		
18,810.0	12,429.0	13,025.2	12,131.6	51.2	49.5	-68.26	-5,584.3	2,021.6	708.4	612.3	96.07	7.374		
18,905.0	12,429.0	13,120.3	12,133.0	51.9	49.7	-68.42	-5,679.4	2,023.9	709.4	612.1	97.30	7.291		
19,000.0	12,429.0	13,209.8	12,134.3	52.6	49.9	-68.57	-5,768.8	2,026.4	710.9	612.4	98.57	7.212		
19,095.0	12,429.0	13,335.3	12,135.4	53.3	50.3	-68.68	-5,894.3	2,028.2	711.4	611.5	99.96	7.117		
19,190.0	12,429.0	13,423.0	12,135.6	54.0	50.7	-68.66	-5,982.0	2,027.3	709.9	608.6	101.31	7.007		
19,285.0	12,429.0	13,517.0	12,135.1	54.7	51.3	-68.57	-6,076.0	2,026.5	708.8	606.2	102.68	6.903		
19,380.0	12,429.0	13,618.2	12,134.3	55.4	52.0	-68.46	-6,177.2	2,025.1	707.3	603.2	104.09	6.795		
19,475.0	12,429.0	13,708.2	12,133.6	56.1	52.7	-68.34	-6,267.1	2,023.8	705.8	600.3	105.51	6.689		
19,570.0	12,429.0	13,802.0	12,132.1	56.9	53.4	-68.18	-6,360.9	2,022.5	704.6	597.7	106.96	6.588		
19,634.3	12,429.0	13,858.6	12,131.2	57.3	53.9	-68.09	-6,417.5	2,022.1	704.3	596.3	107.94	6.524		
19,665.0	12,429.0	13,885.4	12,131.0	57.6	54.2	-68.07	-6,444.3	2,022.3	704.3	595.9	108.41	6.497		
19,760.0	12,429.0	13,984.1	12,130.0	58.3	55.1	-68.00	-6,543.0	2,023.0	704.8	594.8	109.97	6.409		
19,855.0	12,429.0	14,063.0	12,129.3	59.0	55.9	-67.97	-6,621.9	2,024.0	705.8	594.3	111.44	6.333		
19,950.0	12,429.0	14,147.9	12,129.8	59.7	56.7	-68.10	-6,706.7	2,027.7	708.8	595.8	112.99	6.273		
20,045.0	12,429.0	14,237.7	12,130.7	60.4	57.7	-68.30	-6,796.4	2,032.6	712.7	598.1	114.61	6.219		
20,140.0	12,429.0	14,336.9	12,131.6	61.1	58.7	-68.51	-6,895.4	2,038.3	716.9	600.6	116.35	6.162		
20,235.0	12,429.0	14,432.8	12,132.4	61.8	59.7	-68.69	-6,991.1	2,042.9	720.3	602.3	118.08	6.101		
20,330.0	12,429.0	14,524.9	12,132.6	62.5	60.8	-68.82	-7,083.1	2,047.4	724.1	604.3	119.78	6.045		
20,425.0	12,429.0	14,623.0	12,132.5	63.2	61.9	-68.93	-7,181.1	2,052.2	728.0	606.4	121.56	5.989		
20,520.0	12,429.0	14,722.3	12,132.1	63.9	63.0	-69.00	-7,280.4	2,056.3	731.2	607.8	123.37	5.927		
20,615.0	12,429.0	14,819.9	12,130.9	64.6	64.2	-68.98	-7,377.9	2,059.4	733.9	608.8	125.16	5.864		
20,710.0	12,429.0	14,924.8	12,129.5	65.3	65.4	-68.93	-7,482.8	2,062.0	736.0	609.0	127.03	5.794		
20,805.0	12,429.0	15,035.3	12,129.9	66.1	66.7	-68.99	-7,593.3	2,063.3	736.3	607.4	128.99	5.709		
20,900.0	12,429.0	15,136.2	12,130.5	66.8	68.0	-69.00	-7,694.2	2,062.9	735.3	604.4	130.86	5.619		
20,995.0	12,429.0	15,238.7	12,132.0	67.5	69.3	-69.06	-7,796.7	2,061.8	733.3	600.6	132.76	5.524		
21,090.0	12,429.0	15,335.7	12,134.8	68.2	70.5	-69.22	-7,893.5	2,060.7	730.7	596.1	134.67	5.426		
21,185.0	12,429.0	15,427.8	12,137.8	68.9	71.7	-69.40	-7,985.6	2,059.8	728.2	591.6	136.58	5.332		
21,280.0	12,429.0	15,517.1	12,139.8	69.6	72.8	-69.51	-8,074.9	2,059.1	726.3	587.9	138.45	5.246		
21,375.0	12,429.0	15,610.9	12,141.5	70.3	74.0	-69.61	-8,168.7	2,058.8	724.8	584.5	140.36	5.164		
21,470.0	12,429.0	15,699.0	12,142.7	71.0	75.2	-69.69	-8,256.8	2,058.9	723.9	581.7	142.23	5.090		
21,500.6	12,429.0	15,725.8	12,142.8	71.3	75.6	-69.70	-8,283.6	2,059.1	723.9	581.1	142.81	5.069		
21,565.0	12,429.0	15,784.8	12,142.6	71.8	76.3	-69.69	-8,342.6	2,059.6	724.1	580.1	144.05	5.027		
21,660.0	12,429.0	15,883.7	12,141.1	72.5	77.7	-69.58	-8,441.4	2,060.2	724.7	578.7	145.98	4.964		
21,755.0	12,429.0	15,972.9	12,138.8	73.2	78.9	-69.39	-8,530.6	2,060.4	725.2	577.4	147.79	4.907		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT (LEA 2632) - QUIJOTE 2 STATE COM #706H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 151-MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Minimum Separation (usft)	Separation Factor
21,850.0	12,429.0	16,080.7	12,135.6	73.9	80.3	-69.14	-8,638.3	2,060.2	725.5	575.7		149.80	4.843
21,945.0	12,429.0	16,174.0	12,133.0	74.6	81.6	-68.90	-8,731.6	2,059.2	724.9	573.3		151.65	4.780
22,027.3	12,429.0	16,252.8	12,130.1	75.2	82.7	-68.64	-8,810.3	2,058.3	724.7	571.5		153.22	4.730
22,040.0	12,429.0	16,264.9	12,129.6	75.3	82.9	-68.60	-8,822.4	2,058.2	724.7	571.3		153.46	4.723
22,135.0	12,429.0	16,355.7	12,126.4	76.0	84.1	-68.34	-8,913.2	2,057.9	725.1	569.8		155.28	4.669
22,230.0	12,429.0	16,445.5	12,125.5	76.8	85.4	-68.29	-9,003.0	2,059.0	726.0	568.9		157.17	4.619
22,325.0	12,429.0	16,540.3	12,126.5	77.5	86.7	-68.42	-9,097.7	2,061.5	727.4	568.2		159.20	4.569
22,420.0	12,429.0	16,634.1	12,127.7	78.2	88.1	-68.57	-9,191.5	2,064.0	728.8	567.6		161.23	4.520
22,515.0	12,429.0	16,725.5	12,128.2	78.9	89.4	-68.66	-9,282.9	2,066.5	730.5	567.3		163.21	4.476 ES
22,610.0	12,429.0	16,819.9	12,128.9	79.6	90.7	-68.78	-9,377.2	2,069.6	732.6	567.3		165.26	4.433
22,705.0	12,429.0	16,913.2	12,129.5	80.3	92.1	-68.89	-9,470.4	2,072.6	734.7	567.4		167.29	4.392
22,800.0	12,429.0	17,009.6	12,130.3	81.0	93.5	-69.03	-9,566.8	2,075.9	736.9	567.5		169.39	4.350
22,895.0	12,429.0	17,057.0	12,130.7	81.8	94.1	-69.09	-9,614.2	2,077.4	740.5	570.1		170.40	4.346 SF
22,901.5	12,429.0	17,057.0	12,130.7	81.8	94.1	-69.09	-9,614.2	2,077.4	741.1	570.8		170.36	4.350

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: PILEDRIVER & FIGURE FOUR FEDERAL PROJECT - HARRIER FEDERAL COM #202H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 8598-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	1.0	1.0	3.0	4.2	-58.07	450.1	-722.2	851.0					
95.0	95.0	92.8	92.8	3.0	4.2	-58.06	450.4	-722.3	851.2	844.0	7.24	117.523		
190.0	190.0	186.7	186.7	3.0	4.2	-58.01	451.1	-722.3	851.6	844.4	7.25	117.521		
285.0	285.0	280.6	280.6	3.0	4.3	-57.95	452.2	-722.2	852.1	844.8	7.25	117.461		
380.0	380.0	380.4	380.4	3.0	4.3	-57.89	453.0	-722.0	852.3	845.1	7.27	117.314		
475.0	475.0	475.0	475.0	3.0	4.3	-57.84	453.6	-721.6	852.3	845.0	7.28	117.094		
482.8	482.8	482.8	482.8	3.1	4.3	-57.84	453.7	-721.5	852.3	845.0	7.28	117.073		
570.0	570.0	566.5	566.5	3.1	4.3	-57.78	454.5	-721.2	852.5	845.2	7.30	116.836		
665.0	665.0	660.7	660.6	3.1	4.3	-57.74	455.2	-721.3	853.0	845.6	7.32	116.526		
760.0	760.0	754.3	754.3	3.1	4.3	-57.70	456.0	-721.5	853.5	846.2	7.35	116.150		
855.0	855.0	844.8	844.7	3.2	4.4	-57.65	457.2	-721.7	854.4	847.0	7.38	115.757		
950.0	950.0	942.1	942.0	3.2	4.4	-57.61	458.2	-722.4	855.5	848.1	7.42	115.268		
1,045.0	1,045.0	1,035.4	1,035.4	3.3	4.4	-57.59	459.0	-723.1	856.6	849.1	7.47	114.699		
1,140.0	1,140.0	1,131.4	1,131.3	3.3	4.4	-57.57	459.9	-723.9	857.7	850.2	7.52	114.051		
1,235.0	1,235.0	1,223.4	1,223.3	3.4	4.5	-57.54	460.9	-724.5	858.7	851.1	7.58	113.361		
1,330.0	1,330.0	1,319.8	1,319.7	3.4	4.5	-57.51	461.9	-725.5	860.1	852.5	7.64	112.604		
1,425.0	1,425.0	1,414.1	1,414.0	3.5	4.6	-57.48	463.1	-726.2	861.3	853.6	7.70	111.794		
1,520.0	1,520.0	1,505.9	1,505.8	3.6	4.6	-112.95	464.4	-726.9	862.7	855.0	7.77	110.994		
1,615.0	1,615.0	1,596.0	1,595.9	3.6	4.6	-112.99	465.8	-728.1	865.4	857.6	7.83	110.538		
1,710.0	1,709.8	1,693.2	1,693.1	3.7	4.7	-113.22	467.2	-729.4	869.4	861.5	7.88	110.305		
1,805.0	1,804.4	1,812.0	1,811.8	3.7	4.7	-113.72	468.7	-729.9	873.9	865.9	7.93	110.164 SF		
1,900.0	1,898.7	1,907.8	1,907.6	3.8	4.8	-114.28	469.2	-728.5	877.7	869.8	7.94	110.523		
1,995.0	1,992.5	1,997.6	1,997.4	3.8	4.8	-114.94	469.8	-727.4	883.3	875.3	7.96	111.011		
2,090.0	2,085.8	2,088.2	2,088.0	3.9	4.8	-115.74	470.5	-726.6	890.6	882.6	7.98	111.608		
2,185.0	2,178.5	2,180.3	2,180.1	4.0	4.9	-116.69	471.2	-726.0	899.9	891.9	8.01	112.325		
2,280.0	2,270.4	2,271.1	2,270.9	4.0	4.9	-117.79	472.0	-725.4	910.9	902.9	8.05	113.168		
2,375.0	2,362.2	2,364.2	2,364.0	4.1	5.0	-119.07	472.7	-724.9	922.9	914.8	8.10	113.983		
2,470.0	2,454.0	2,456.0	2,455.8	4.2	5.0	-120.30	473.4	-724.4	935.2	927.0	8.15	114.764		
2,565.0	2,545.7	2,546.3	2,546.1	4.2	5.1	-121.49	474.0	-724.0	948.0	939.7	8.21	115.469		
2,660.0	2,637.5	2,638.4	2,638.2	4.3	5.2	-122.68	474.5	-723.7	961.3	953.0	8.28	116.100		
2,755.0	2,729.2	2,728.9	2,728.7	4.4	5.2	-123.85	474.6	-723.7	975.1	966.7	8.36	116.631		
2,850.0	2,821.0	2,818.9	2,818.7	4.5	5.2	-124.98	474.6	-723.8	989.4	981.0	8.46	117.006		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Reference Site:	HARRIER FEDERAL PROJECT (LEA 2632)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to *KB 30ft + GL 3366ft @ 3396.0usft (T

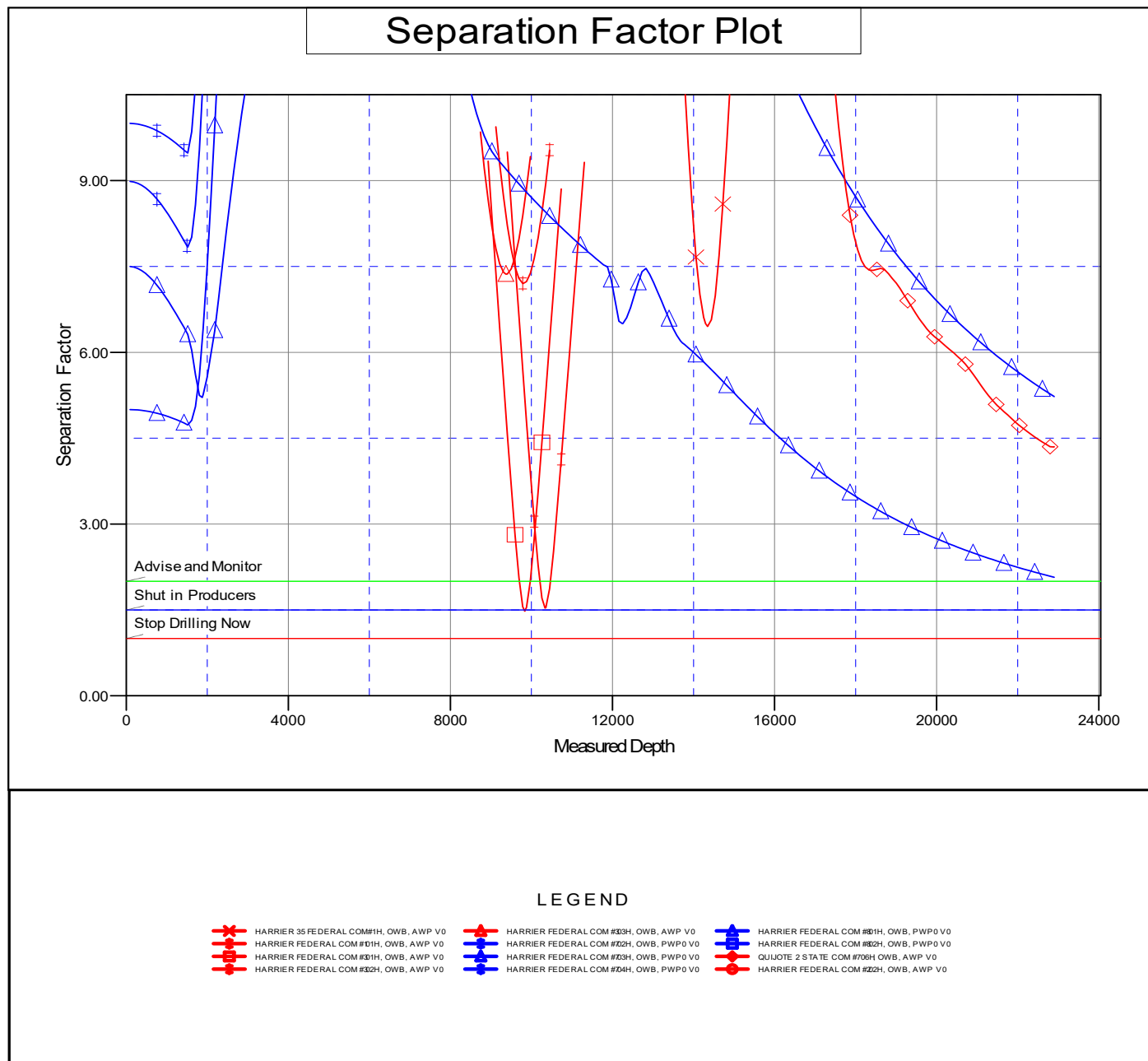
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: HARRIER FEDERAL COM #701H

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

Grid Convergence at Surface is: 0.36°



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

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

HARRIER FEDERAL PROJECT (LEA 2632)

HARRIER FEDERAL COM #701H

300254988700

OWB

Plan: PWP0

Standard Planning Report

17 July, 2022

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Project:	LEA PROSPECT (NM-E)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site:	HARRIER FEDERAL PROJECT (LEA 2632)	North Reference:	Grid
Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	LEA 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	HARRIER FEDERAL COM #701H			
Well Position	+N/-S	-891.3 usft	Northing:	397,745.80 usft
	+E/-W	-30,451.7 usft	Easting:	711,435.70 usft
Position Uncertainty		3.0 usft	Wellhead Elevation:	
			Latitude:	32° 5' 30.045 N
			Longitude:	103° 39' 2.152 W
			Ground Level:	3,366.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	3/1/2023	6.39	59.65	47,397.11384380

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	171.84

Plan Survey Tool Program	Date	7/16/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	1,500.0 PWP0 (OWB)	Standard Keeper 104	
			Standard Wireline Keeper ver 1	
2	1,500.0	12,124.7 PWP0 (OWB)	Standard Keeper 104	
			Standard Wireline Keeper ver 1	
3	12,124.7	22,901.5 PWP0 (OWB)	MWD+IFR1+MS	
			OWSG MWD + IFR1 + Multi-St	

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Project:	LEA PROSPECT (NM-E)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site:	HARRIER FEDERAL PROJECT (LEA 2632)	North Reference:	Grid
Well:	HARRIER FEDERAL COM #701H	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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,250.1	15.00	55.52	2,241.6	55.3	80.5	2.00	2.00	0.00	55.52	
6,577.9	15.00	55.52	6,421.8	689.4	1,004.0	0.00	0.00	0.00	0.00	
8,078.1	0.00	0.00	7,905.0	800.0	1,165.0	1.00	-1.00	0.00	180.00	
12,124.7	0.00	0.00	11,951.5	800.0	1,165.0	0.00	0.00	0.00	0.00	
12,874.7	90.00	167.77	12,429.0	333.4	1,266.1	12.00	12.00	0.00	167.77	
13,468.7	90.00	179.65	12,429.0	-256.0	1,331.1	2.00	0.00	2.00	90.00	
22,851.5	90.00	179.65	12,429.0	-9,638.6	1,388.4	0.00	0.00	0.00	0.00	LTP (HARRIER FED)
22,901.5	90.00	179.65	12,429.0	-9,688.6	1,388.7	0.00	0.00	0.00	0.00	PBHL (HARRIER FED)

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Project:	LEA PROSPECT (NM-E)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site:	HARRIER FEDERAL PROJECT (LEA 2632)	North Reference:	Grid
Well:	HARRIER FEDERAL COM #701H	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
Start Build 2.00									
1,600.0	2.00	55.52	1,600.0	1.0	1.4	-0.8	2.00	2.00	0.00
1,700.0	4.00	55.52	1,699.8	4.0	5.8	-3.1	2.00	2.00	0.00
1,800.0	6.00	55.52	1,799.5	8.9	12.9	-7.0	2.00	2.00	0.00
1,900.0	8.00	55.52	1,898.7	15.8	23.0	-12.4	2.00	2.00	0.00
2,000.0	10.00	55.52	1,997.5	24.6	35.9	-19.3	2.00	2.00	0.00
2,100.0	12.00	55.52	2,095.6	35.4	51.6	-27.8	2.00	2.00	0.00
2,200.0	14.00	55.52	2,193.1	48.2	70.1	-37.7	2.00	2.00	0.00
2,250.1	15.00	55.52	2,241.6	55.3	80.5	-43.3	2.00	2.00	0.00
Start 4327.8 hold at 2250.1 MD									
2,300.0	15.00	55.52	2,289.8	62.6	91.1	-49.0	0.00	0.00	0.00
2,400.0	15.00	55.52	2,386.3	77.2	112.5	-60.5	0.00	0.00	0.00
2,500.0	15.00	55.52	2,482.9	91.9	133.8	-72.0	0.00	0.00	0.00
2,600.0	15.00	55.52	2,579.5	106.5	155.2	-83.5	0.00	0.00	0.00
2,700.0	15.00	55.52	2,676.1	121.2	176.5	-94.9	0.00	0.00	0.00
2,800.0	15.00	55.52	2,772.7	135.9	197.8	-106.4	0.00	0.00	0.00
2,900.0	15.00	55.52	2,869.3	150.5	219.2	-117.9	0.00	0.00	0.00
3,000.0	15.00	55.52	2,965.9	165.2	240.5	-129.4	0.00	0.00	0.00
3,100.0	15.00	55.52	3,062.5	179.8	261.9	-140.8	0.00	0.00	0.00
3,200.0	15.00	55.52	3,159.1	194.5	283.2	-152.3	0.00	0.00	0.00
3,300.0	15.00	55.52	3,255.7	209.1	304.5	-163.8	0.00	0.00	0.00
3,400.0	15.00	55.52	3,352.3	223.8	325.9	-175.3	0.00	0.00	0.00
3,500.0	15.00	55.52	3,448.9	238.4	347.2	-186.8	0.00	0.00	0.00
3,600.0	15.00	55.52	3,545.4	253.1	368.5	-198.2	0.00	0.00	0.00
3,700.0	15.00	55.52	3,642.0	267.7	389.9	-209.7	0.00	0.00	0.00
3,800.0	15.00	55.52	3,738.6	282.4	411.2	-221.2	0.00	0.00	0.00
3,900.0	15.00	55.52	3,835.2	297.0	432.6	-232.7	0.00	0.00	0.00
4,000.0	15.00	55.52	3,931.8	311.7	453.9	-244.1	0.00	0.00	0.00
4,100.0	15.00	55.52	4,028.4	326.3	475.2	-255.6	0.00	0.00	0.00
4,200.0	15.00	55.52	4,125.0	341.0	496.6	-267.1	0.00	0.00	0.00
4,300.0	15.00	55.52	4,221.6	355.7	517.9	-278.6	0.00	0.00	0.00
4,400.0	15.00	55.52	4,318.2	370.3	539.3	-290.1	0.00	0.00	0.00
4,500.0	15.00	55.52	4,414.8	385.0	560.6	-301.5	0.00	0.00	0.00
4,600.0	15.00	55.52	4,511.4	399.6	581.9	-313.0	0.00	0.00	0.00
4,700.0	15.00	55.52	4,608.0	414.3	603.3	-324.5	0.00	0.00	0.00
4,800.0	15.00	55.52	4,704.5	428.9	624.6	-336.0	0.00	0.00	0.00
4,900.0	15.00	55.52	4,801.1	443.6	646.0	-347.4	0.00	0.00	0.00
5,000.0	15.00	55.52	4,897.7	458.2	667.3	-358.9	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Project:	LEA PROSPECT (NM-E)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site:	HARRIER FEDERAL PROJECT (LEA 2632)	North Reference:	Grid
Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	15.00	55.52	4,994.3	472.9	688.6	-370.4	0.00	0.00	0.00
5,200.0	15.00	55.52	5,090.9	487.5	710.0	-381.9	0.00	0.00	0.00
5,300.0	15.00	55.52	5,187.5	502.2	731.3	-393.3	0.00	0.00	0.00
5,400.0	15.00	55.52	5,284.1	516.8	752.7	-404.8	0.00	0.00	0.00
5,500.0	15.00	55.52	5,380.7	531.5	774.0	-416.3	0.00	0.00	0.00
5,600.0	15.00	55.52	5,477.3	546.2	795.3	-427.8	0.00	0.00	0.00
5,700.0	15.00	55.52	5,573.9	560.8	816.7	-439.3	0.00	0.00	0.00
5,800.0	15.00	55.52	5,670.5	575.5	838.0	-450.7	0.00	0.00	0.00
5,900.0	15.00	55.52	5,767.1	590.1	859.4	-462.2	0.00	0.00	0.00
6,000.0	15.00	55.52	5,863.6	604.8	880.7	-473.7	0.00	0.00	0.00
6,100.0	15.00	55.52	5,960.2	619.4	902.0	-485.2	0.00	0.00	0.00
6,200.0	15.00	55.52	6,056.8	634.1	923.4	-496.6	0.00	0.00	0.00
6,300.0	15.00	55.52	6,153.4	648.7	944.7	-508.1	0.00	0.00	0.00
6,400.0	15.00	55.52	6,250.0	663.4	966.0	-519.6	0.00	0.00	0.00
6,500.0	15.00	55.52	6,346.6	678.0	987.4	-531.1	0.00	0.00	0.00
6,577.9	15.00	55.52	6,421.8	689.4	1,004.0	-540.0	0.00	0.00	0.00
Start Drop -1.00									
6,600.0	14.78	55.52	6,443.2	692.7	1,008.7	-542.5	1.00	-1.00	0.00
6,700.0	13.78	55.52	6,540.1	706.6	1,029.0	-553.5	1.00	-1.00	0.00
6,800.0	12.78	55.52	6,637.4	719.6	1,048.0	-563.7	1.00	-1.00	0.00
6,900.0	11.78	55.52	6,735.1	731.7	1,065.5	-573.1	1.00	-1.00	0.00
7,000.0	10.78	55.52	6,833.2	742.7	1,081.6	-581.8	1.00	-1.00	0.00
7,100.0	9.78	55.52	6,931.6	752.9	1,096.3	-589.7	1.00	-1.00	0.00
7,200.0	8.78	55.52	7,030.3	762.0	1,109.6	-596.8	1.00	-1.00	0.00
7,300.0	7.78	55.52	7,129.2	770.1	1,121.5	-603.2	1.00	-1.00	0.00
7,400.0	6.78	55.52	7,228.4	777.3	1,132.0	-608.8	1.00	-1.00	0.00
7,500.0	5.78	55.52	7,327.8	783.5	1,141.0	-613.7	1.00	-1.00	0.00
7,600.0	4.78	55.52	7,427.4	788.7	1,148.6	-617.8	1.00	-1.00	0.00
7,700.0	3.78	55.52	7,527.1	792.9	1,154.7	-621.1	1.00	-1.00	0.00
7,800.0	2.78	55.52	7,627.0	796.2	1,159.4	-623.6	1.00	-1.00	0.00
7,900.0	1.78	55.52	7,726.9	798.4	1,162.7	-625.4	1.00	-1.00	0.00
8,000.0	0.78	55.52	7,826.9	799.7	1,164.6	-626.4	1.00	-1.00	0.00
8,078.1	0.00	0.00	7,905.0	800.0	1,165.0	-626.6	1.00	-1.00	0.00
Start 4046.5 hold at 8078.1 MD									
8,100.0	0.00	0.00	7,926.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
8,200.0	0.00	0.00	8,026.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
8,300.0	0.00	0.00	8,126.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
8,400.0	0.00	0.00	8,226.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
8,500.0	0.00	0.00	8,326.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
8,600.0	0.00	0.00	8,426.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
8,700.0	0.00	0.00	8,526.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
8,800.0	0.00	0.00	8,626.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
8,900.0	0.00	0.00	8,726.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
9,000.0	0.00	0.00	8,826.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
9,100.0	0.00	0.00	8,926.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
9,200.0	0.00	0.00	9,026.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
9,300.0	0.00	0.00	9,126.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
9,400.0	0.00	0.00	9,226.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
9,500.0	0.00	0.00	9,326.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
9,600.0	0.00	0.00	9,426.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
9,700.0	0.00	0.00	9,526.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
9,800.0	0.00	0.00	9,626.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
9,900.0	0.00	0.00	9,726.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
10,000.0	0.00	0.00	9,826.9	800.0	1,165.0	-626.6	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Project:	LEA PROSPECT (NM-E)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site:	HARRIER FEDERAL PROJECT (LEA 2632)	North Reference:	Grid
Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,100.0	0.00	0.00	9,926.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
10,200.0	0.00	0.00	10,026.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
10,300.0	0.00	0.00	10,126.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
10,400.0	0.00	0.00	10,226.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
10,500.0	0.00	0.00	10,326.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
10,600.0	0.00	0.00	10,426.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
10,700.0	0.00	0.00	10,526.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
10,800.0	0.00	0.00	10,626.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
10,900.0	0.00	0.00	10,726.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
11,000.0	0.00	0.00	10,826.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
11,100.0	0.00	0.00	10,926.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
11,200.0	0.00	0.00	11,026.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
11,300.0	0.00	0.00	11,126.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
11,400.0	0.00	0.00	11,226.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
11,500.0	0.00	0.00	11,326.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
11,600.0	0.00	0.00	11,426.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
11,700.0	0.00	0.00	11,526.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
11,800.0	0.00	0.00	11,626.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
11,900.0	0.00	0.00	11,726.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
12,000.0	0.00	0.00	11,826.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
12,100.0	0.00	0.00	11,926.9	800.0	1,165.0	-626.6	0.00	0.00	0.00
12,124.7	0.00	0.00	11,951.5	800.0	1,165.0	-626.6	0.00	0.00	0.00
Start Build 12.00									
12,150.0	3.04	167.77	11,976.8	799.3	1,165.1	-625.9	12.00	12.00	0.00
12,175.0	6.04	167.77	12,001.8	797.4	1,165.6	-624.0	12.00	12.00	0.00
12,200.0	9.04	167.77	12,026.5	794.2	1,166.3	-620.7	12.00	12.00	0.00
12,225.0	12.04	167.77	12,051.1	789.7	1,167.2	-616.1	12.00	12.00	0.00
12,250.0	15.04	167.77	12,075.4	784.0	1,168.5	-610.3	12.00	12.00	0.00
12,275.0	18.04	167.77	12,099.4	777.1	1,170.0	-603.2	12.00	12.00	0.00
12,300.0	21.04	167.77	12,122.9	768.9	1,171.7	-594.9	12.00	12.00	0.00
12,325.0	24.04	167.77	12,146.0	759.5	1,173.8	-585.3	12.00	12.00	0.00
12,350.0	27.04	167.77	12,168.6	749.0	1,176.1	-574.6	12.00	12.00	0.00
12,375.0	30.04	167.77	12,190.5	737.3	1,178.6	-562.6	12.00	12.00	0.00
12,400.0	33.04	167.77	12,211.9	724.5	1,181.4	-549.6	12.00	12.00	0.00
12,425.0	36.04	167.77	12,232.4	710.7	1,184.4	-535.5	12.00	12.00	0.00
12,450.0	39.04	167.77	12,252.3	695.8	1,187.6	-520.3	12.00	12.00	0.00
12,475.0	42.04	167.77	12,271.3	679.9	1,191.0	-504.1	12.00	12.00	0.00
12,500.0	45.04	167.77	12,289.4	663.1	1,194.7	-486.9	12.00	12.00	0.00
12,525.0	48.04	167.77	12,306.6	645.4	1,198.5	-468.8	12.00	12.00	0.00
12,550.0	51.04	167.77	12,322.8	626.8	1,202.5	-449.8	12.00	12.00	0.00
12,575.0	54.04	167.77	12,338.0	607.4	1,206.7	-430.0	12.00	12.00	0.00
12,600.0	57.04	167.77	12,352.1	587.2	1,211.1	-409.5	12.00	12.00	0.00
12,625.0	60.04	167.77	12,365.2	566.4	1,215.6	-388.2	12.00	12.00	0.00
12,650.0	63.04	167.77	12,377.1	544.9	1,220.3	-366.3	12.00	12.00	0.00
12,675.0	66.04	167.77	12,387.9	522.9	1,225.1	-343.8	12.00	12.00	0.00
12,700.0	69.04	167.77	12,397.4	500.3	1,230.0	-320.7	12.00	12.00	0.00
12,725.0	72.04	167.77	12,405.7	477.3	1,235.0	-297.2	12.00	12.00	0.00
12,750.0	75.04	167.77	12,412.8	453.8	1,240.0	-273.3	12.00	12.00	0.00
12,775.0	78.04	167.77	12,418.6	430.1	1,245.2	-249.1	12.00	12.00	0.00
12,800.0	81.04	167.77	12,423.2	406.1	1,250.4	-224.5	12.00	12.00	0.00
12,825.0	84.04	167.77	12,426.4	381.8	1,255.6	-199.8	12.00	12.00	0.00
12,850.0	87.04	167.77	12,428.4	357.5	1,260.9	-175.0	12.00	12.00	0.00
12,874.7	90.00	167.77	12,429.0	333.4	1,266.1	-150.4	12.00	12.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Project:	LEA PROSPECT (NM-E)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site:	HARRIER FEDERAL PROJECT (LEA 2632)	North Reference:	Grid
Well:	HARRIER FEDERAL COM #701H	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)
Start DLS 2.00 TFO 90.00									
12,900.0	90.00	168.28	12,429.0	308.6	1,271.4	-125.1	2.00	0.00	2.00
13,000.0	90.00	170.28	12,429.0	210.3	1,290.0	-25.2	2.00	0.00	2.00
13,100.0	90.00	172.28	12,429.0	111.5	1,305.2	74.8	2.00	0.00	2.00
13,200.0	90.00	174.28	12,429.0	12.2	1,316.9	174.8	2.00	0.00	2.00
13,300.0	90.00	176.28	12,429.0	-87.5	1,325.1	274.6	2.00	0.00	2.00
13,400.0	90.00	178.28	12,429.0	-187.3	1,329.9	374.1	2.00	0.00	2.00
13,468.7	90.00	179.65	12,429.0	-256.0	1,331.1	442.3	2.00	0.00	2.00
Start 9382.8 hold at 13468.7 MD									
13,500.0	90.00	179.65	12,429.0	-287.3	1,331.3	473.3	0.00	0.00	0.00
13,600.0	90.00	179.65	12,429.0	-387.3	1,331.9	572.4	0.00	0.00	0.00
13,700.0	90.00	179.65	12,429.0	-487.3	1,332.5	671.4	0.00	0.00	0.00
13,800.0	90.00	179.65	12,429.0	-587.3	1,333.1	770.5	0.00	0.00	0.00
13,900.0	90.00	179.65	12,429.0	-687.3	1,333.7	869.6	0.00	0.00	0.00
14,000.0	90.00	179.65	12,429.0	-787.3	1,334.4	968.7	0.00	0.00	0.00
14,100.0	90.00	179.65	12,429.0	-887.3	1,335.0	1,067.7	0.00	0.00	0.00
14,200.0	90.00	179.65	12,429.0	-987.3	1,335.6	1,166.8	0.00	0.00	0.00
14,300.0	90.00	179.65	12,429.0	-1,087.3	1,336.2	1,265.9	0.00	0.00	0.00
14,400.0	90.00	179.65	12,429.0	-1,187.3	1,336.8	1,365.0	0.00	0.00	0.00
14,500.0	90.00	179.65	12,429.0	-1,287.3	1,337.4	1,464.0	0.00	0.00	0.00
14,600.0	90.00	179.65	12,429.0	-1,387.3	1,338.0	1,563.1	0.00	0.00	0.00
14,700.0	90.00	179.65	12,429.0	-1,487.3	1,338.6	1,662.2	0.00	0.00	0.00
14,800.0	90.00	179.65	12,429.0	-1,587.3	1,339.2	1,761.3	0.00	0.00	0.00
14,900.0	90.00	179.65	12,429.0	-1,687.3	1,339.8	1,860.3	0.00	0.00	0.00
15,000.0	90.00	179.65	12,429.0	-1,787.3	1,340.5	1,959.4	0.00	0.00	0.00
15,100.0	90.00	179.65	12,429.0	-1,887.3	1,341.1	2,058.5	0.00	0.00	0.00
15,200.0	90.00	179.65	12,429.0	-1,987.3	1,341.7	2,157.5	0.00	0.00	0.00
15,300.0	90.00	179.65	12,429.0	-2,087.3	1,342.3	2,256.6	0.00	0.00	0.00
15,400.0	90.00	179.65	12,429.0	-2,187.3	1,342.9	2,355.7	0.00	0.00	0.00
15,500.0	90.00	179.65	12,429.0	-2,287.3	1,343.5	2,454.8	0.00	0.00	0.00
15,600.0	90.00	179.65	12,429.0	-2,387.3	1,344.1	2,553.8	0.00	0.00	0.00
15,700.0	90.00	179.65	12,429.0	-2,487.3	1,344.7	2,652.9	0.00	0.00	0.00
15,800.0	90.00	179.65	12,429.0	-2,587.3	1,345.3	2,752.0	0.00	0.00	0.00
15,900.0	90.00	179.65	12,429.0	-2,687.3	1,346.0	2,851.1	0.00	0.00	0.00
16,000.0	90.00	179.65	12,429.0	-2,787.3	1,346.6	2,950.1	0.00	0.00	0.00
16,100.0	90.00	179.65	12,429.0	-2,887.3	1,347.2	3,049.2	0.00	0.00	0.00
16,200.0	90.00	179.65	12,429.0	-2,987.3	1,347.8	3,148.3	0.00	0.00	0.00
16,300.0	90.00	179.65	12,429.0	-3,087.3	1,348.4	3,247.3	0.00	0.00	0.00
16,400.0	90.00	179.65	12,429.0	-3,187.3	1,349.0	3,346.4	0.00	0.00	0.00
16,500.0	90.00	179.65	12,429.0	-3,287.3	1,349.6	3,445.5	0.00	0.00	0.00
16,600.0	90.00	179.65	12,429.0	-3,387.3	1,350.2	3,544.6	0.00	0.00	0.00
16,700.0	90.00	179.65	12,429.0	-3,487.3	1,350.8	3,643.6	0.00	0.00	0.00
16,800.0	90.00	179.65	12,429.0	-3,587.3	1,351.4	3,742.7	0.00	0.00	0.00
16,900.0	90.00	179.65	12,429.0	-3,687.3	1,352.1	3,841.8	0.00	0.00	0.00
17,000.0	90.00	179.65	12,429.0	-3,787.3	1,352.7	3,940.9	0.00	0.00	0.00
17,100.0	90.00	179.65	12,429.0	-3,887.3	1,353.3	4,039.9	0.00	0.00	0.00
17,200.0	90.00	179.65	12,429.0	-3,987.3	1,353.9	4,139.0	0.00	0.00	0.00
17,300.0	90.00	179.65	12,429.0	-4,087.2	1,354.5	4,238.1	0.00	0.00	0.00
17,400.0	90.00	179.65	12,429.0	-4,187.2	1,355.1	4,337.2	0.00	0.00	0.00
17,500.0	90.00	179.65	12,429.0	-4,287.2	1,355.7	4,436.2	0.00	0.00	0.00
17,600.0	90.00	179.65	12,429.0	-4,387.2	1,356.3	4,535.3	0.00	0.00	0.00
17,700.0	90.00	179.65	12,429.0	-4,487.2	1,356.9	4,634.4	0.00	0.00	0.00
17,800.0	90.00	179.65	12,429.0	-4,587.2	1,357.6	4,733.4	0.00	0.00	0.00
17,900.0	90.00	179.65	12,429.0	-4,687.2	1,358.2	4,832.5	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Project:	LEA PROSPECT (NM-E)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site:	HARRIER FEDERAL PROJECT (LEA 2632)	North Reference:	Grid
Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,000.0	90.00	179.65	12,429.0	-4,787.2	1,358.8	4,931.6	0.00	0.00	0.00
18,100.0	90.00	179.65	12,429.0	-4,887.2	1,359.4	5,030.7	0.00	0.00	0.00
18,200.0	90.00	179.65	12,429.0	-4,987.2	1,360.0	5,129.7	0.00	0.00	0.00
18,300.0	90.00	179.65	12,429.0	-5,087.2	1,360.6	5,228.8	0.00	0.00	0.00
18,400.0	90.00	179.65	12,429.0	-5,187.2	1,361.2	5,327.9	0.00	0.00	0.00
18,500.0	90.00	179.65	12,429.0	-5,287.2	1,361.8	5,427.0	0.00	0.00	0.00
18,600.0	90.00	179.65	12,429.0	-5,387.2	1,362.4	5,526.0	0.00	0.00	0.00
18,700.0	90.00	179.65	12,429.0	-5,487.2	1,363.1	5,625.1	0.00	0.00	0.00
18,800.0	90.00	179.65	12,429.0	-5,587.2	1,363.7	5,724.2	0.00	0.00	0.00
18,900.0	90.00	179.65	12,429.0	-5,687.2	1,364.3	5,823.3	0.00	0.00	0.00
19,000.0	90.00	179.65	12,429.0	-5,787.2	1,364.9	5,922.3	0.00	0.00	0.00
19,100.0	90.00	179.65	12,429.0	-5,887.2	1,365.5	6,021.4	0.00	0.00	0.00
19,200.0	90.00	179.65	12,429.0	-5,987.2	1,366.1	6,120.5	0.00	0.00	0.00
19,300.0	90.00	179.65	12,429.0	-6,087.2	1,366.7	6,219.5	0.00	0.00	0.00
19,400.0	90.00	179.65	12,429.0	-6,187.2	1,367.3	6,318.6	0.00	0.00	0.00
19,500.0	90.00	179.65	12,429.0	-6,287.2	1,367.9	6,417.7	0.00	0.00	0.00
19,600.0	90.00	179.65	12,429.0	-6,387.2	1,368.5	6,516.8	0.00	0.00	0.00
19,700.0	90.00	179.65	12,429.0	-6,487.2	1,369.2	6,615.8	0.00	0.00	0.00
19,800.0	90.00	179.65	12,429.0	-6,587.2	1,369.8	6,714.9	0.00	0.00	0.00
19,900.0	90.00	179.65	12,429.0	-6,687.2	1,370.4	6,814.0	0.00	0.00	0.00
20,000.0	90.00	179.65	12,429.0	-6,787.2	1,371.0	6,913.1	0.00	0.00	0.00
20,100.0	90.00	179.65	12,429.0	-6,887.2	1,371.6	7,012.1	0.00	0.00	0.00
20,200.0	90.00	179.65	12,429.0	-6,987.2	1,372.2	7,111.2	0.00	0.00	0.00
20,300.0	90.00	179.65	12,429.0	-7,087.2	1,372.8	7,210.3	0.00	0.00	0.00
20,400.0	90.00	179.65	12,429.0	-7,187.2	1,373.4	7,309.3	0.00	0.00	0.00
20,500.0	90.00	179.65	12,429.0	-7,287.2	1,374.0	7,408.4	0.00	0.00	0.00
20,600.0	90.00	179.65	12,429.0	-7,387.2	1,374.7	7,507.5	0.00	0.00	0.00
20,700.0	90.00	179.65	12,429.0	-7,487.2	1,375.3	7,606.6	0.00	0.00	0.00
20,800.0	90.00	179.65	12,429.0	-7,587.2	1,375.9	7,705.6	0.00	0.00	0.00
20,900.0	90.00	179.65	12,429.0	-7,687.2	1,376.5	7,804.7	0.00	0.00	0.00
21,000.0	90.00	179.65	12,429.0	-7,787.2	1,377.1	7,903.8	0.00	0.00	0.00
21,100.0	90.00	179.65	12,429.0	-7,887.2	1,377.7	8,002.9	0.00	0.00	0.00
21,200.0	90.00	179.65	12,429.0	-7,987.2	1,378.3	8,101.9	0.00	0.00	0.00
21,300.0	90.00	179.65	12,429.0	-8,087.2	1,378.9	8,201.0	0.00	0.00	0.00
21,400.0	90.00	179.65	12,429.0	-8,187.2	1,379.5	8,300.1	0.00	0.00	0.00
21,500.0	90.00	179.65	12,429.0	-8,287.2	1,380.1	8,399.2	0.00	0.00	0.00
21,600.0	90.00	179.65	12,429.0	-8,387.2	1,380.8	8,498.2	0.00	0.00	0.00
21,700.0	90.00	179.65	12,429.0	-8,487.2	1,381.4	8,597.3	0.00	0.00	0.00
21,800.0	90.00	179.65	12,429.0	-8,587.2	1,382.0	8,696.4	0.00	0.00	0.00
21,900.0	90.00	179.65	12,429.0	-8,687.2	1,382.6	8,795.4	0.00	0.00	0.00
22,000.0	90.00	179.65	12,429.0	-8,787.2	1,383.2	8,894.5	0.00	0.00	0.00
22,100.0	90.00	179.65	12,429.0	-8,887.2	1,383.8	8,993.6	0.00	0.00	0.00
22,200.0	90.00	179.65	12,429.0	-8,987.2	1,384.4	9,092.7	0.00	0.00	0.00
22,300.0	90.00	179.65	12,429.0	-9,087.2	1,385.0	9,191.7	0.00	0.00	0.00
22,400.0	90.00	179.65	12,429.0	-9,187.2	1,385.6	9,290.8	0.00	0.00	0.00
22,500.0	90.00	179.65	12,429.0	-9,287.2	1,386.3	9,389.9	0.00	0.00	0.00
22,600.0	90.00	179.65	12,429.0	-9,387.2	1,386.9	9,489.0	0.00	0.00	0.00
22,700.0	90.00	179.65	12,429.0	-9,487.1	1,387.5	9,588.0	0.00	0.00	0.00
22,800.0	90.00	179.65	12,429.0	-9,587.1	1,388.1	9,687.1	0.00	0.00	0.00
22,851.5	90.00	179.65	12,429.0	-9,638.6	1,388.4	9,738.1	0.00	0.00	0.00
Start 50.0 hold at 22851.5 MD									
22,901.5	90.00	179.65	12,429.0	-9,688.6	1,388.7	9,787.6	0.00	0.00	0.00
TD at 22901.5									

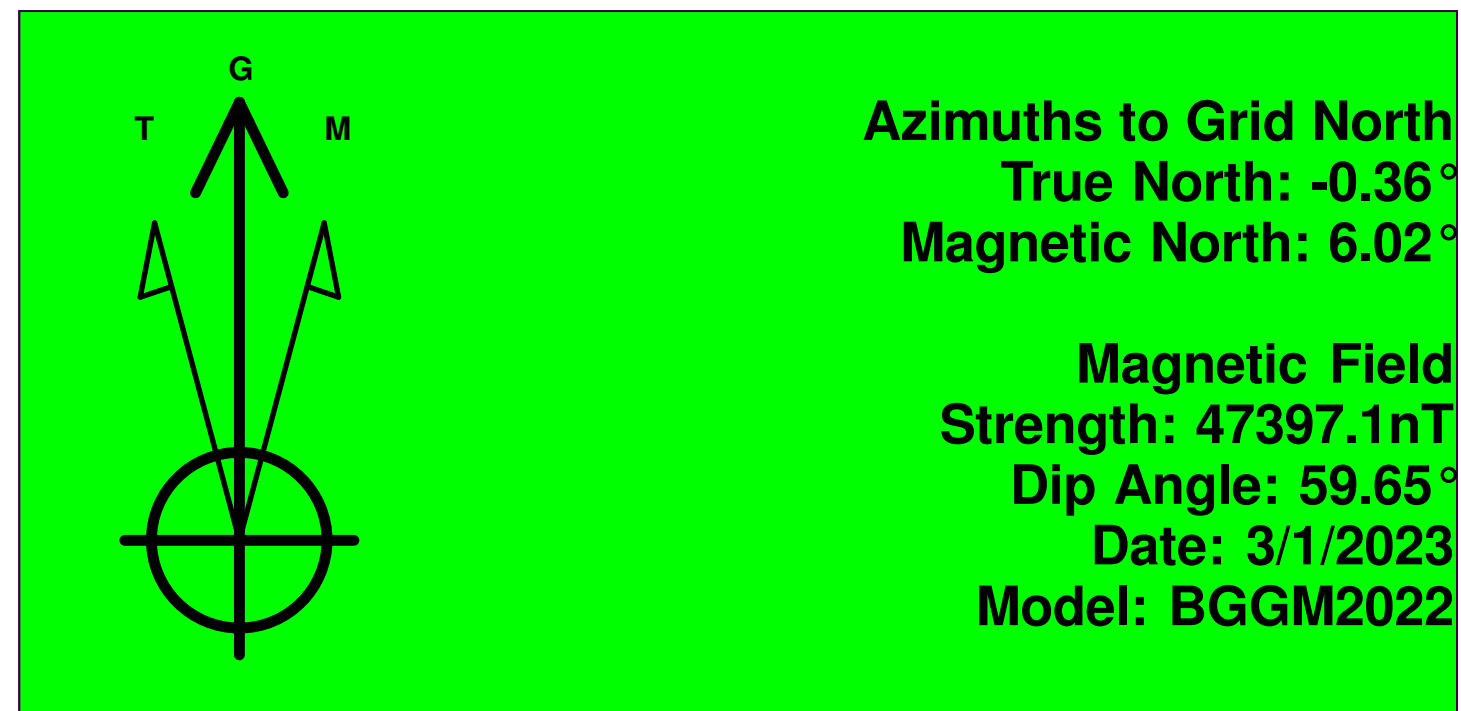
ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM #701H
Company:	DELAWARE BASIN EAST	TVD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Project:	LEA PROSPECT (NM-E)	MD Reference:	*KB 30ft + GL 3366ft @ 3396.0usft (TBD)
Site:	HARRIER FEDERAL PROJECT (LEA 2632)	North Reference:	Grid
Well:	HARRIER FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP (HARRIER FED CC - plan hits target center - Point	0.00	0.01	12,429.0	-9,638.6	1,388.4	388,107.20	712,824.10	32° 3' 54.575 N	103° 38' 46.727 W
PBHL (HARRIER FED C - plan hits target center - Rectangle (sides W100.0 H10,487.6 D20.0)	0.00	359.65	12,429.0	-9,688.6	1,388.7	388,057.20	712,824.40	32° 3' 54.081 N	103° 38' 46.728 W
FTP (HARRIER FED CC - plan misses target center by 233.2usft at 12519.7usft MD (12303.0 TVD, 649.2 N, 1197.7 E) - Circle (radius 50.0)	0.00	0.00	12,429.0	798.9	1,324.6	398,544.70	712,760.30	32° 5' 37.868 N	103° 38' 46.696 W

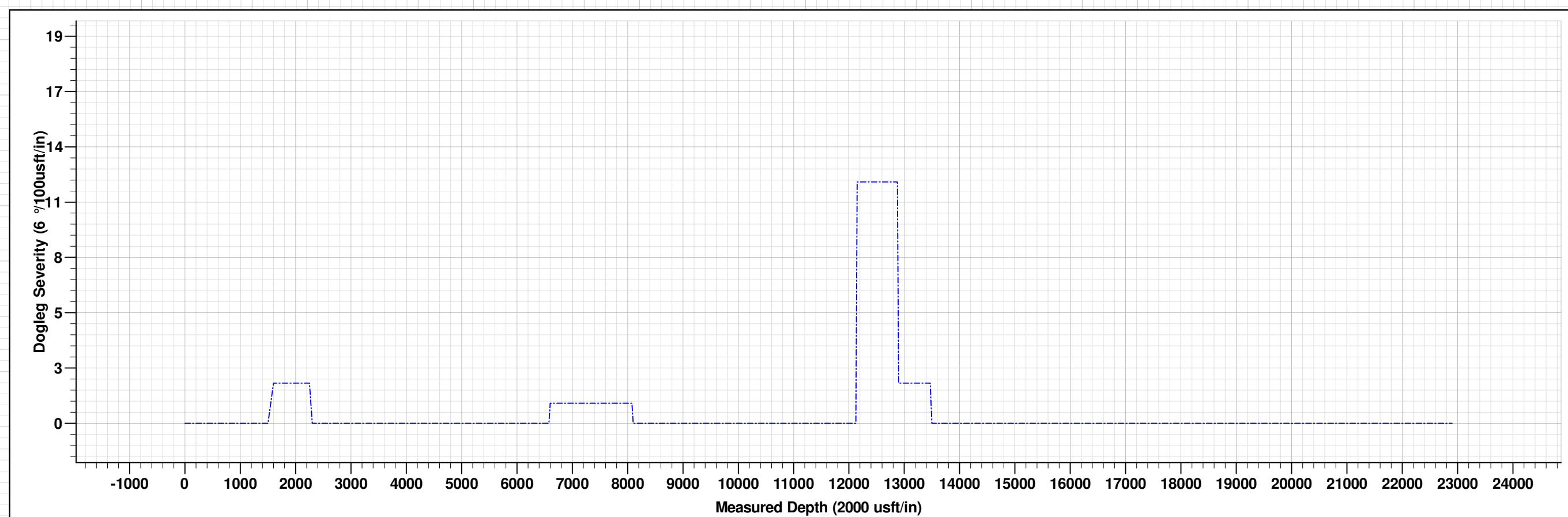
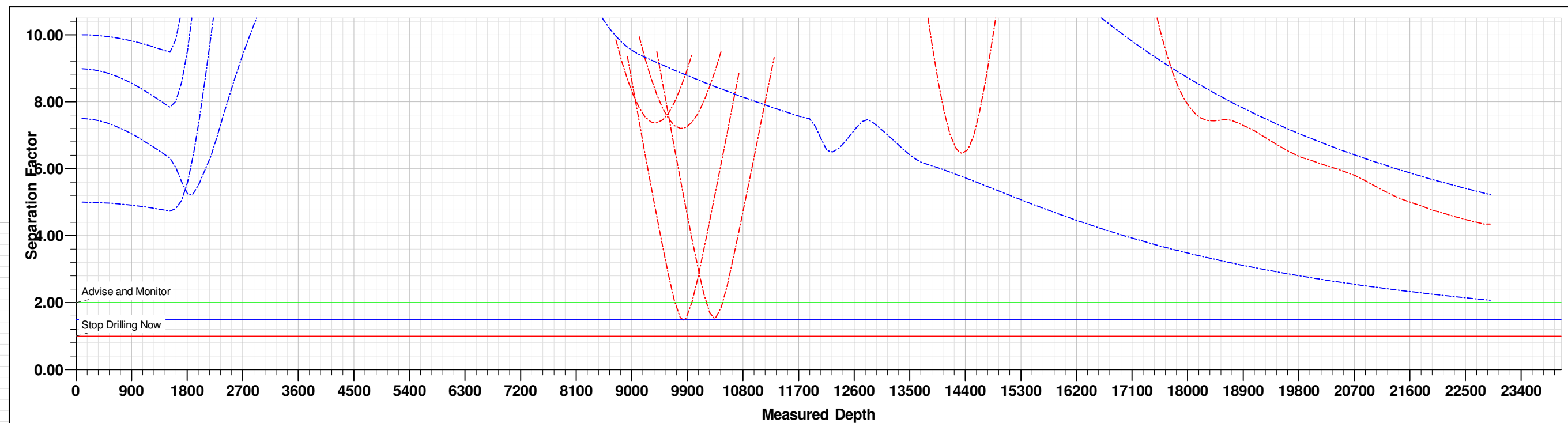
Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
+N/-S (usft)	+E/-W (usft)			
1,500.0	1,500.0	0.0	0.0	Start Build 2.00
2,250.1	2,241.6	55.3	80.5	Start 4327.8 hold at 2250.1 MD
6,577.9	6,421.8	689.4	1,004.0	Start Drop -1.00
8,078.1	7,905.0	800.0	1,165.0	Start 4046.5 hold at 8078.1 MD
12,124.7	11,951.5	800.0	1,165.0	Start Build 12.00
12,874.7	12,429.0	333.4	1,266.1	Start DLS 2.00 TFO 90.00
13,468.7	12,429.0	-256.0	1,331.1	Start 9382.8 hold at 13468.7 MD
22,851.5	12,429.0	-9,638.6	1,388.4	Start 50.0 hold at 22851.5 MD
22,901.5	12,429.0	-9,688.6	1,388.7	TD at 22901.5



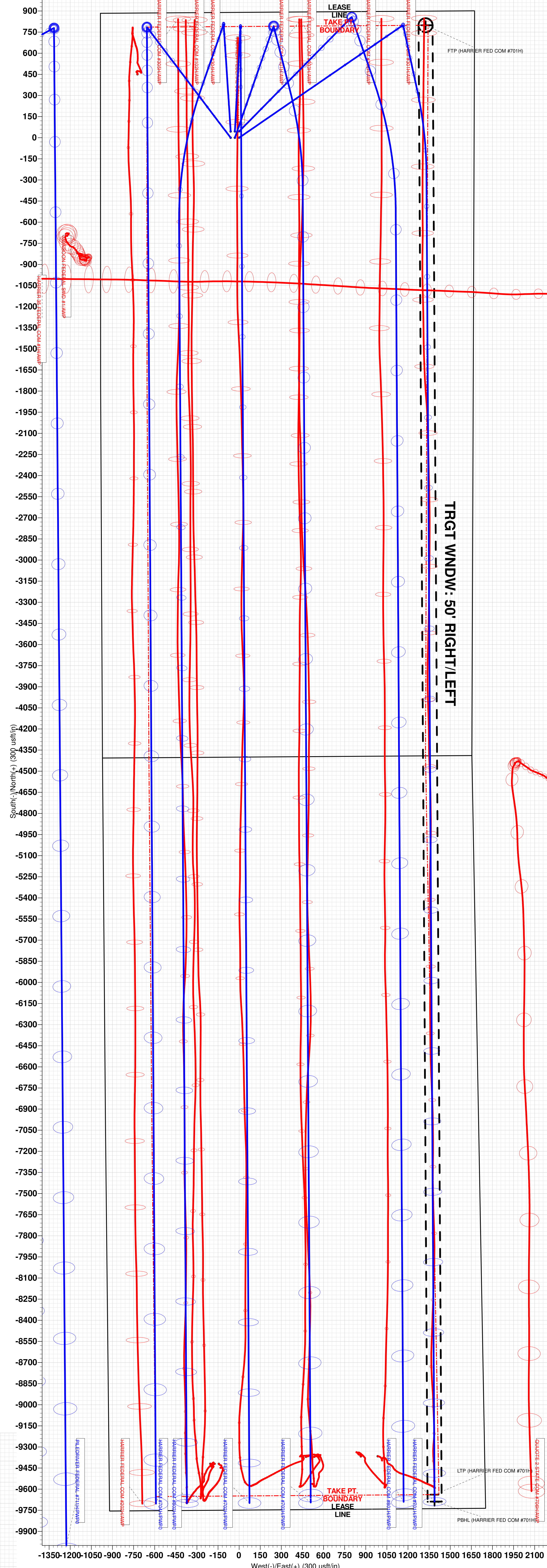
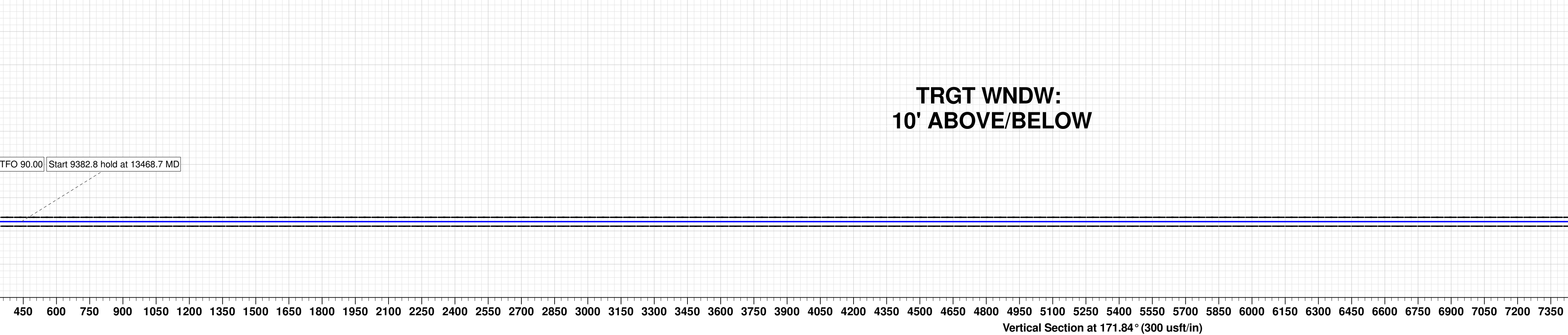
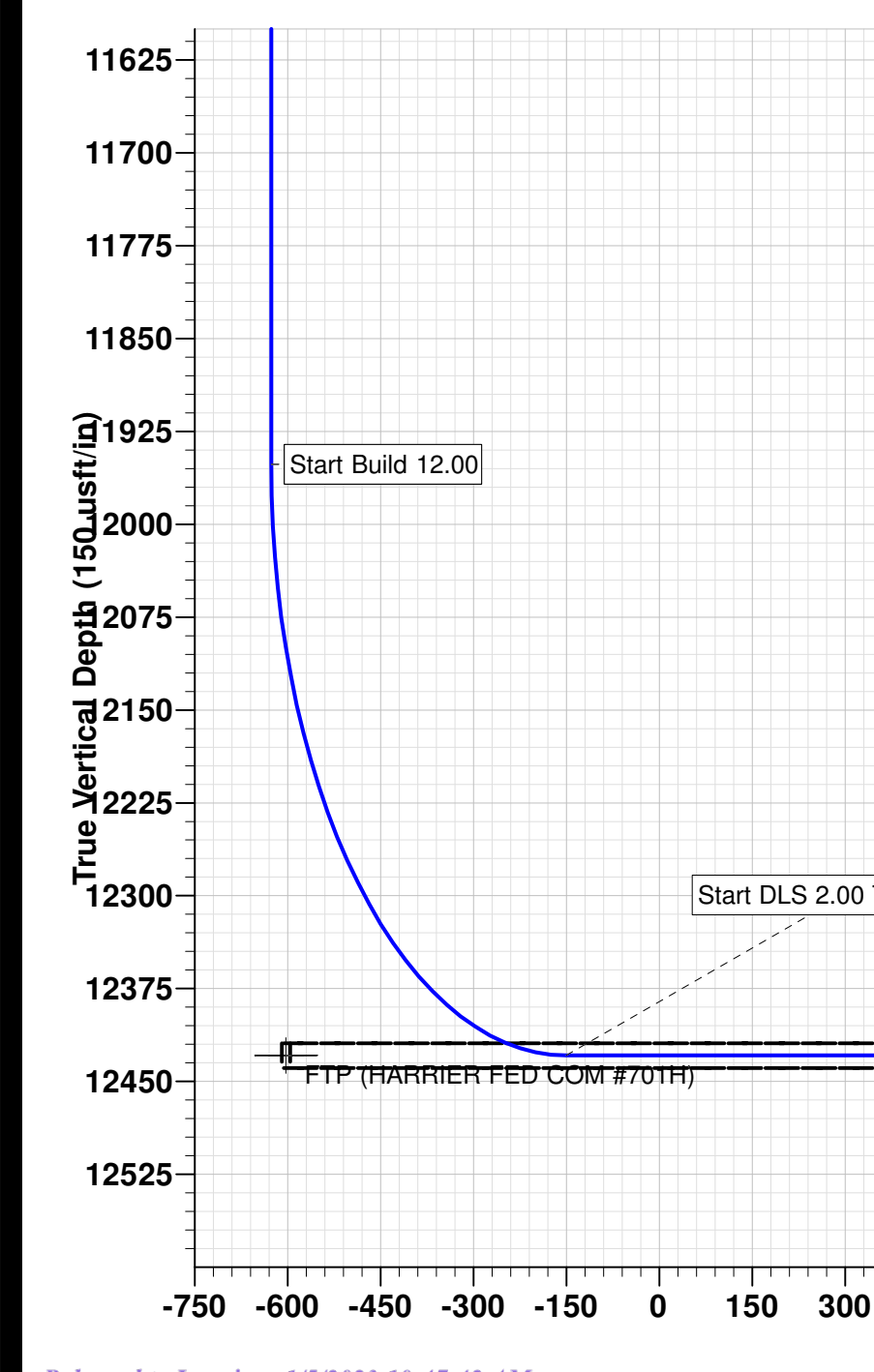
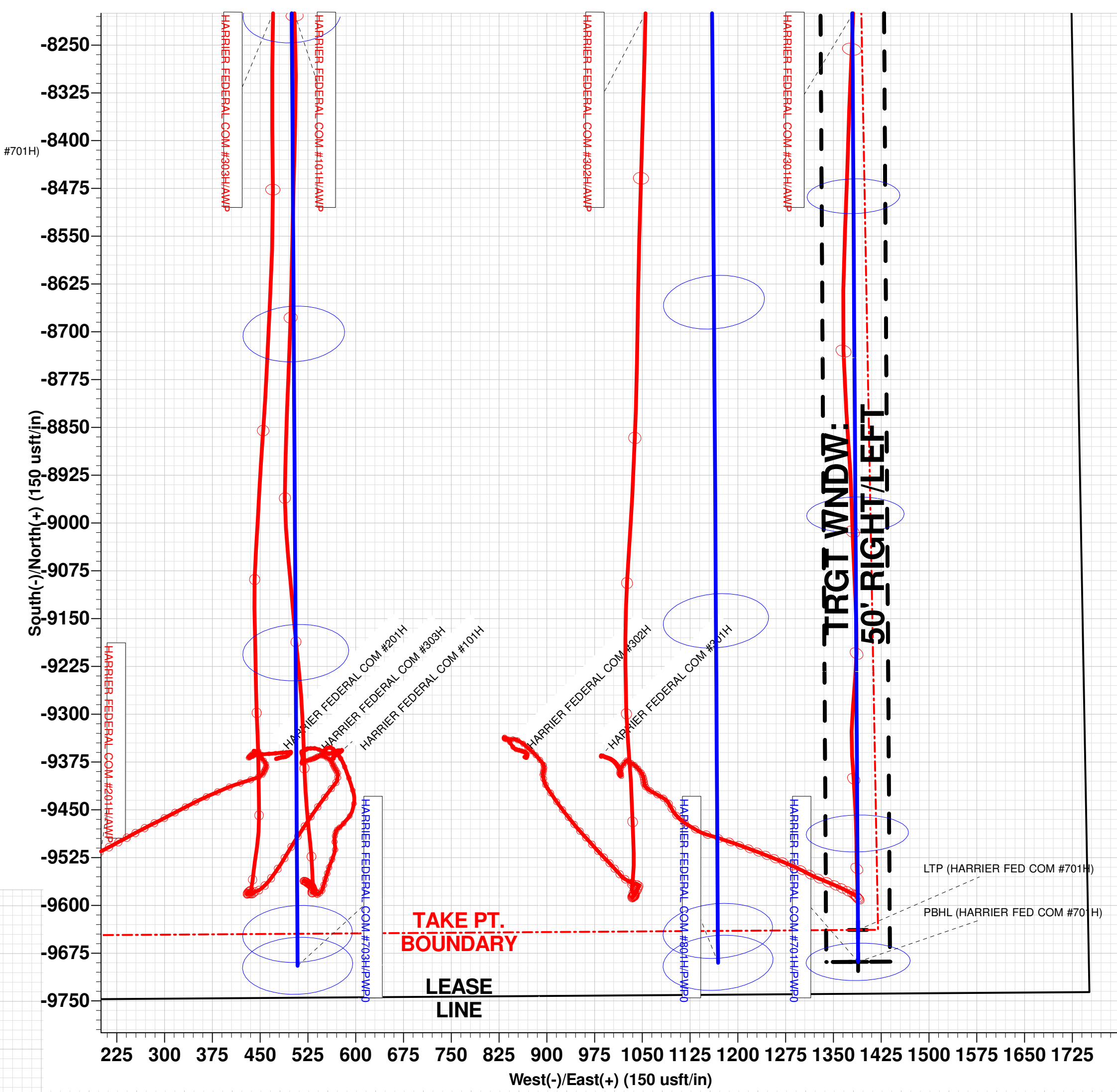
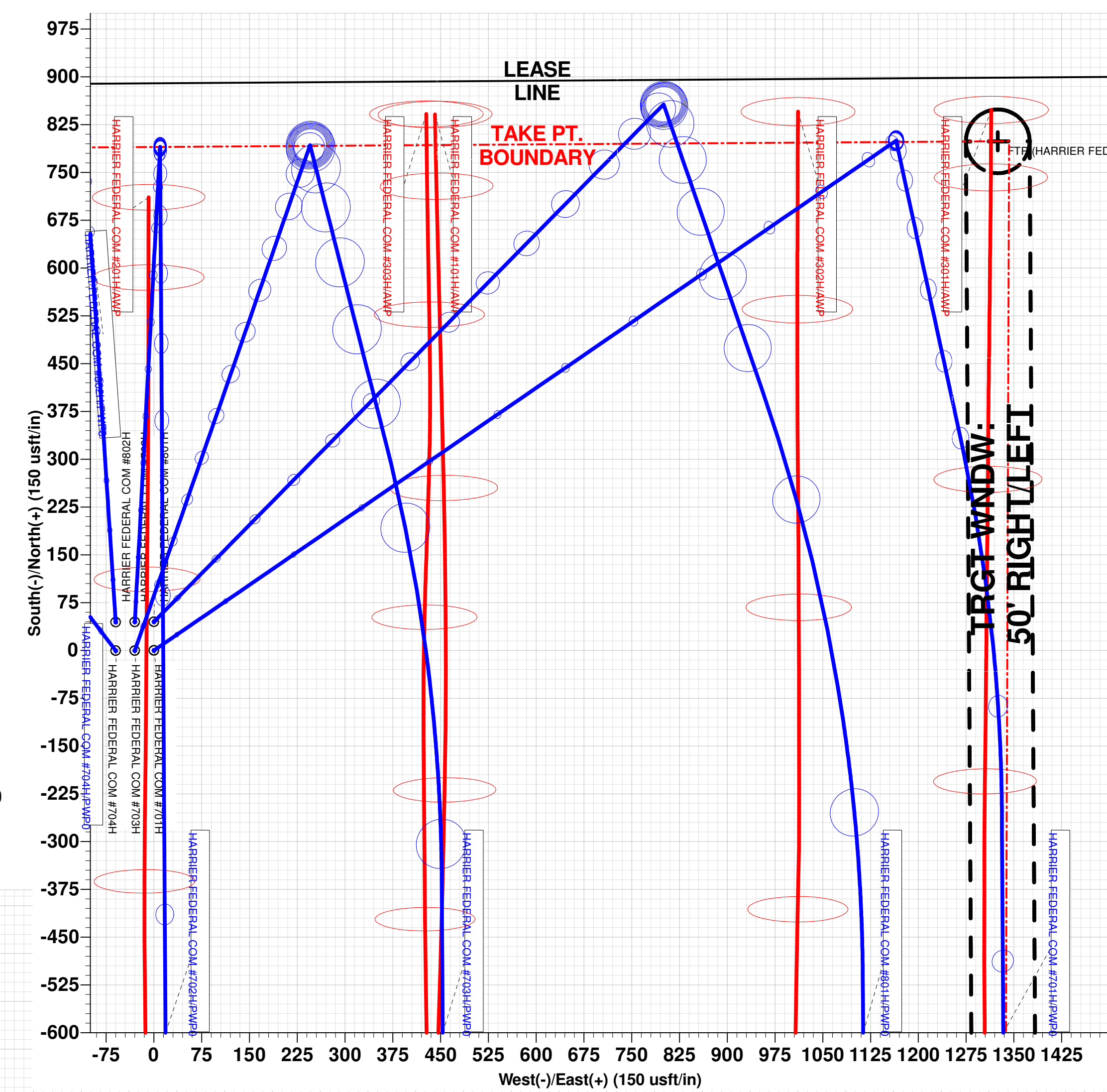
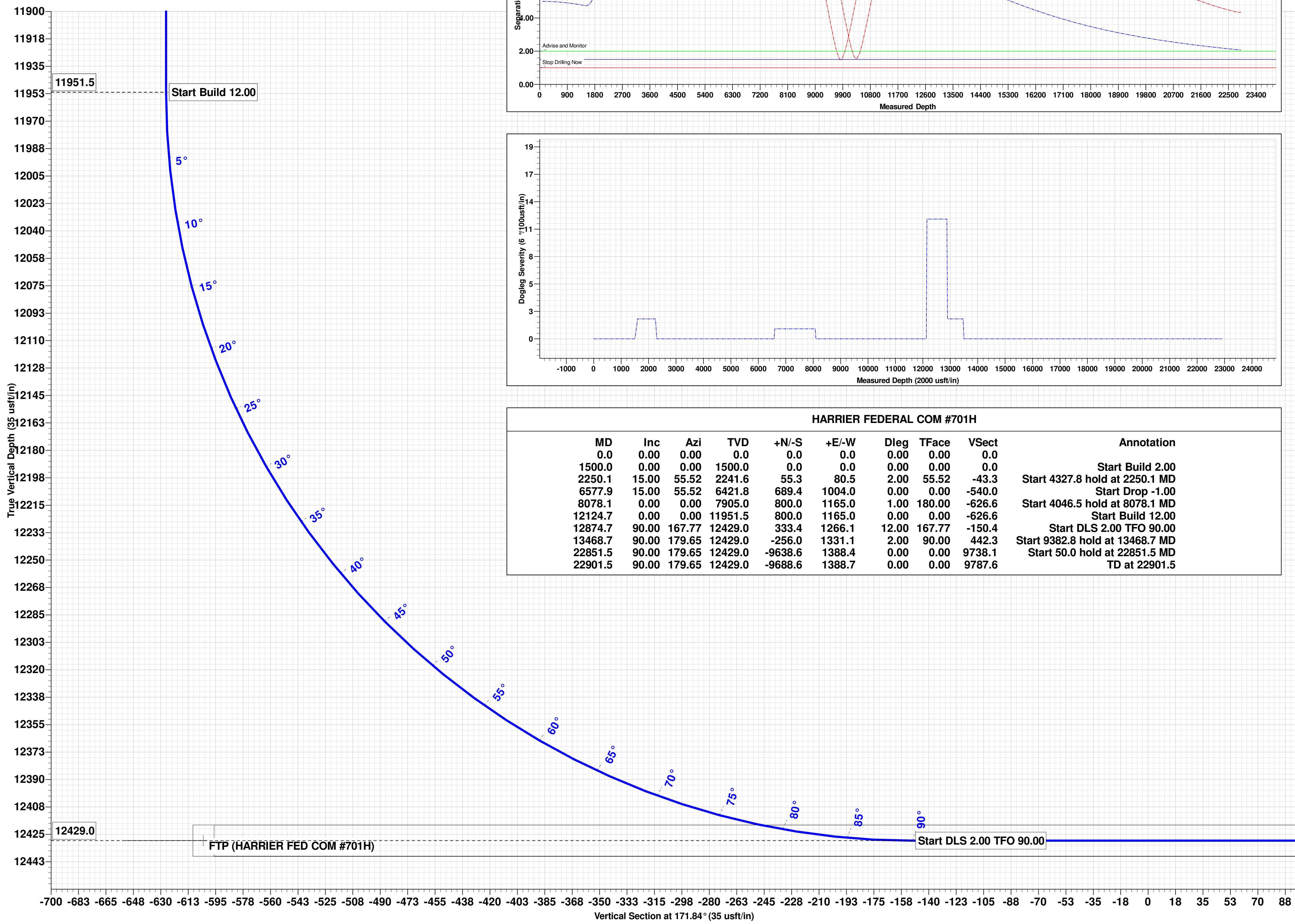
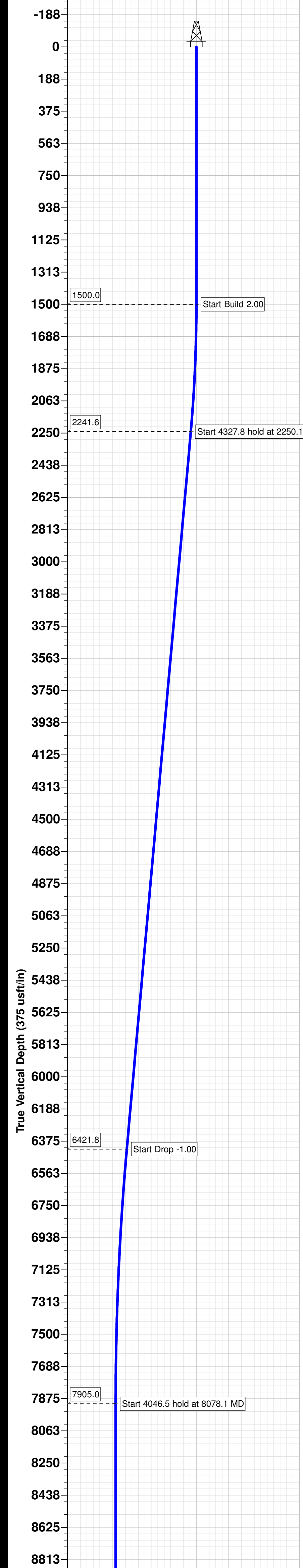
Project: LEA PROSPECT (NM-E)
Site: HARRIER FEDERAL PROJECT (LEA 2632)
Well: HARRIER FEDERAL COM #701H
Wellbore: OWB
Design: PWP0
GL: 3366.0
*KB 30ft + GL 3366ft @ 3396.0usft (TBD)

WELL DETAILS: HARRIER FEDERAL COM #701H					
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.0	0.0	397745.80	711435.70	32° 5' 30.045 N	103° 3' 2.152 W

DESIGN TARGET DETAILS						
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude
FTP (HARRIER FED COM #701H)	12429.0	798.9	1324.6	398544.70	712760.30	32° 5' 37.868 N
LTP (HARRIER FED COM #701H)	12429.0	-9638.6	1388.4	388107.20	712824.10	32° 3' 54.575 N
PBHL (HARRIER FED COM #701H)	12429.0	-9688.6	1388.7	388057.20	712824.40	32° 3' 54.061 N



HARRIER FEDERAL COM #701H										
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VFace	Annotation	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00	
1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	Start 4327.8 hold at 2250.1 MD	
2250.1	15.00	55.52	2241.6	55.3	80.5	2.00	55.52	-43.3	Start Drop -1.00	
6577.9	15.00	55.52	6421.8	689.4	1004.0	0.00	0.00	-540.0	Start Build 12.00	
8078.1	0.00	0.00	7905.0	800.0	1165.0	1.00	180.00	-626.6	Start 4046.5 hold at 8078.1 MD	
12124.7	0.00	0.00	11951.5	800.0	1165.0	0.00	0.00	-626.6	Start Build 12.00	
12874.7	90.00	167.77	12429.0	333.4	1266.1	12.00	167.77	-150.4	Start DLS 2.00 TFO 90.00	
13468.7	90.00	179.65	12429.0	-256.0	1331.1	2.00	90.00	442.3	Start 9382.8 hold at 13468.7 MD	
22861.5	90.00	179.65	12429.0	-9638.6	1388.4	0.00	0.00	9738.1	Start 50.0 hold at 22851.5 MD	
22901.5	90.00	179.65	12429.0	-9688.6	1388.7	0.00	0.00	9787.6	TD at 22901.5	



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 171565

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 171565
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	1/5/2023