

Well Name: HARRIER FEDERAL COM	Well Location: T25S / R32E / SEC 35 / NWNW /	County or Parish/State:
Well Number: 702H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM108973	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549888	Well Status: Approved Application for Permit to Drill	Operator: COG OPERATING LLC

Notice of Intent

Sundry ID: 2774640

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 02/12/2024	Time Sundry Submitted: 12:24
Date proposed operation will begin: 02/12/2024	

Procedure Description: COG Operating requests an amendment to our approved APD for this well to reflect a change in BHL. Change FROM: 50' FSL & 1210' FWL SWSW 2-26S-32E Change TO: 50' FSL & 1760' FWL SESW 2-26S-32E

NOI Attachments

Procedure Description

- HARRIER_FEDERAL_COM_702H_C102_A_NAD83_signed_1_23_24_20240212122407.pdf
- HARRIER_FED_COM_702H_PWP0_PPLOT_20240212122407.pdf
- Harrier_Fed_com_702H_APD_drill_plan_20240212122407.pdf
- HARRIER_FED_COM_702H_PWP0_AC_RPT_20240212122407.pdf
- HARRIER_FEDERAL_COM_702H_C102_NAD83_signed_1_23_24_20240212122407.pdf
- HARRIER_FED_COM_702H_PWP0_DIR_RPT_20240212122407.pdf

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Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: STAN WAGNER

Signed on: FEB 12, 2024 12:24 PM

Name: COG OPERATING LLC

Title: Regulatory Advisor

Street Address: 600 WEST ILLINOIS AVE

City: MIDLANDState: TX

Phone: (432) 253-9685

Email address: STAN.S.WAGNER@CONOCOPHILLIPS.COM

Field

Representative Name:

Street Address:

City:State:Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: KEITH P IMMATTY

BLM POC Title: ENGINEER

BLM POC Phone: 5759884722

BLM POC Email Address: KIMMATTY@BLM.GOV

Disposition: Approved

Disposition Date: 02/28/2024

Signature: Keith Immatty

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.	
6. If Indian, Allottee or Tribe Name	
7. If Unit of CA/Agreement, Name and/or No.	
8. Well Name and No.	
9. API Well No.	
10. Field and Pool or Exploratory Area	
11. Country or Parish, State	

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well		
☐ Oil Well	☐ Gas Well	☐ Other
2. Name of Operator		
3a. Address	3b. Phone No. (include area code)	
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

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

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

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

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	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	

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Location of Well

0. SHL: NWNW / 845 FNL / 955 FWL / TWSP: 25S / RANGE: 32E / SECTION: 35 / LAT: 32.091928 / LONG: -103.651166 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 100 FNL / 1650 FWL / TWSP: 25S / RANGE: 32E / SECTION: 35 / LAT: 32.093976 / LONG: -103.648909 (TVD: 12068 feet, MD: 12100 feet)

BHL: SESW / 50 FSL / 1210 FWL / TWSP: 26S / RANGE: 32E / SECTION: 2 / LAT: 32.065146 / LONG: -103.648915 (TVD: 12147 feet, MD: 22484 feet)

CONFIDENTIAL

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

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

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

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

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

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-49888	Pool Code 98158	Pool Name WC-025 G-09 S253236A; Upper Wolfcamp
Property Code 325390	Property Name HARRIER FEDERAL COM	Well Number 702H
OGRID No. 229137	Operator Name COG OPERATING LLC	Elevation 3366.5'

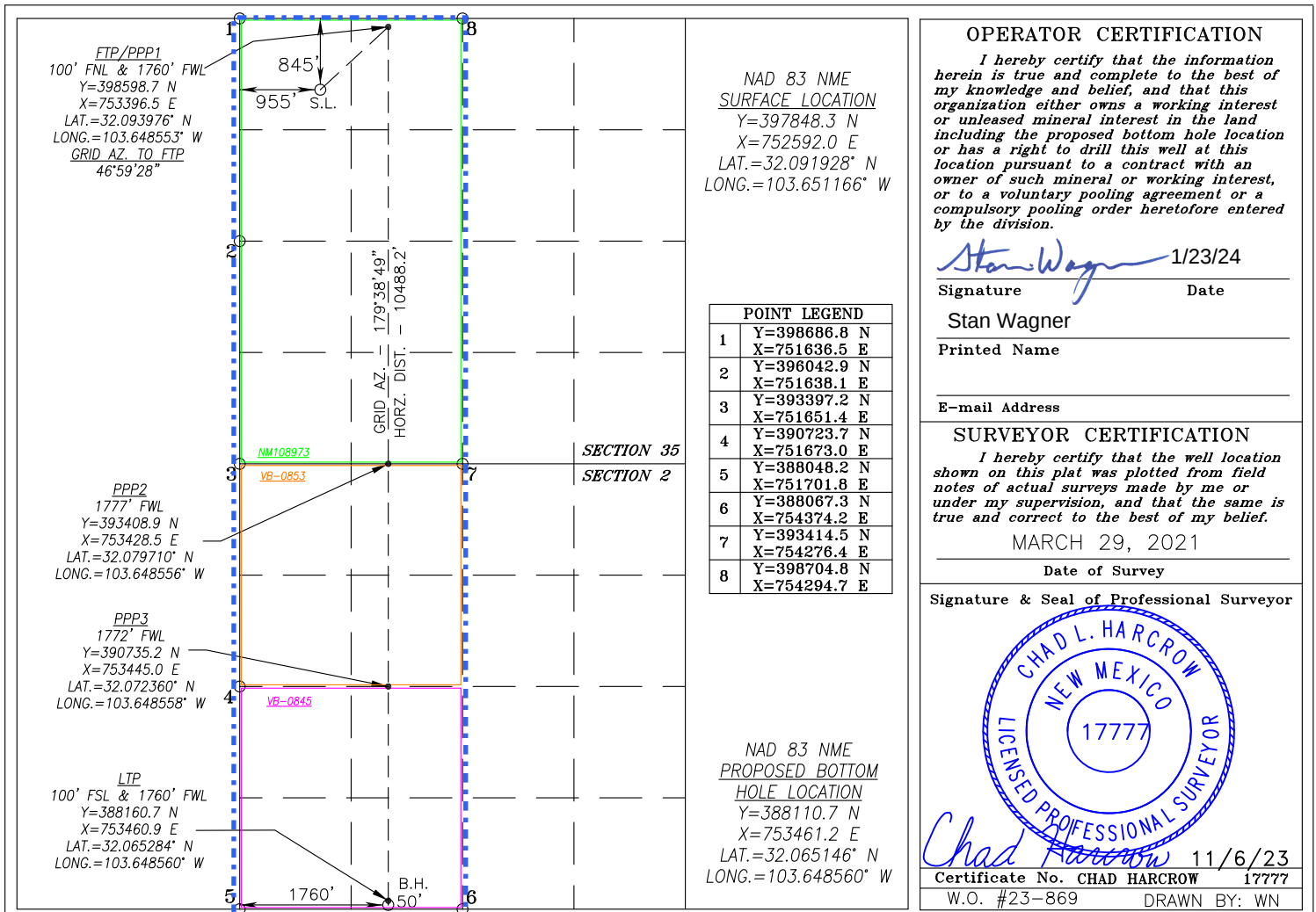
Surface Location

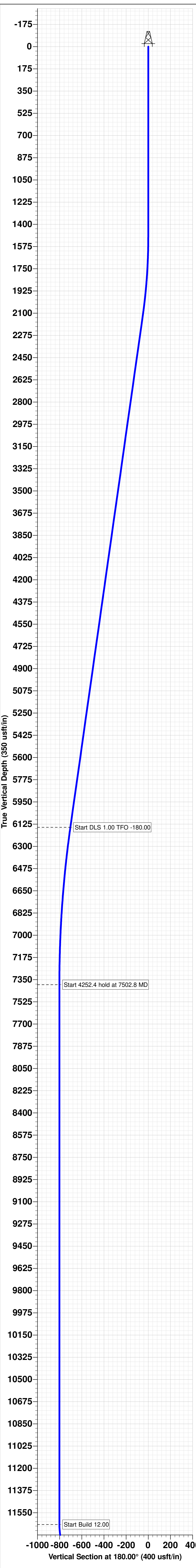
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	35	25-S	32-E		845	NORTH	955	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	2	26-S	32-E		50	SOUTH	1760	WEST	LEA
Dedicated Acres 640	Joint or Infill	Consolidation Code Com	Order No.						

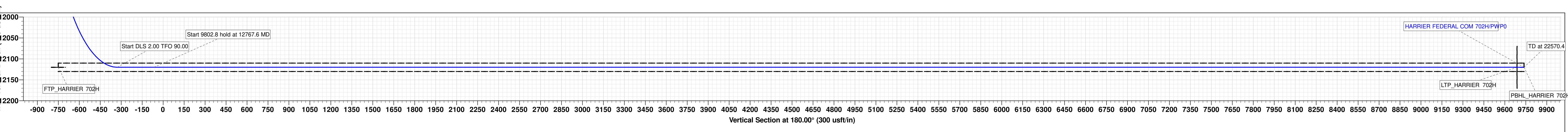
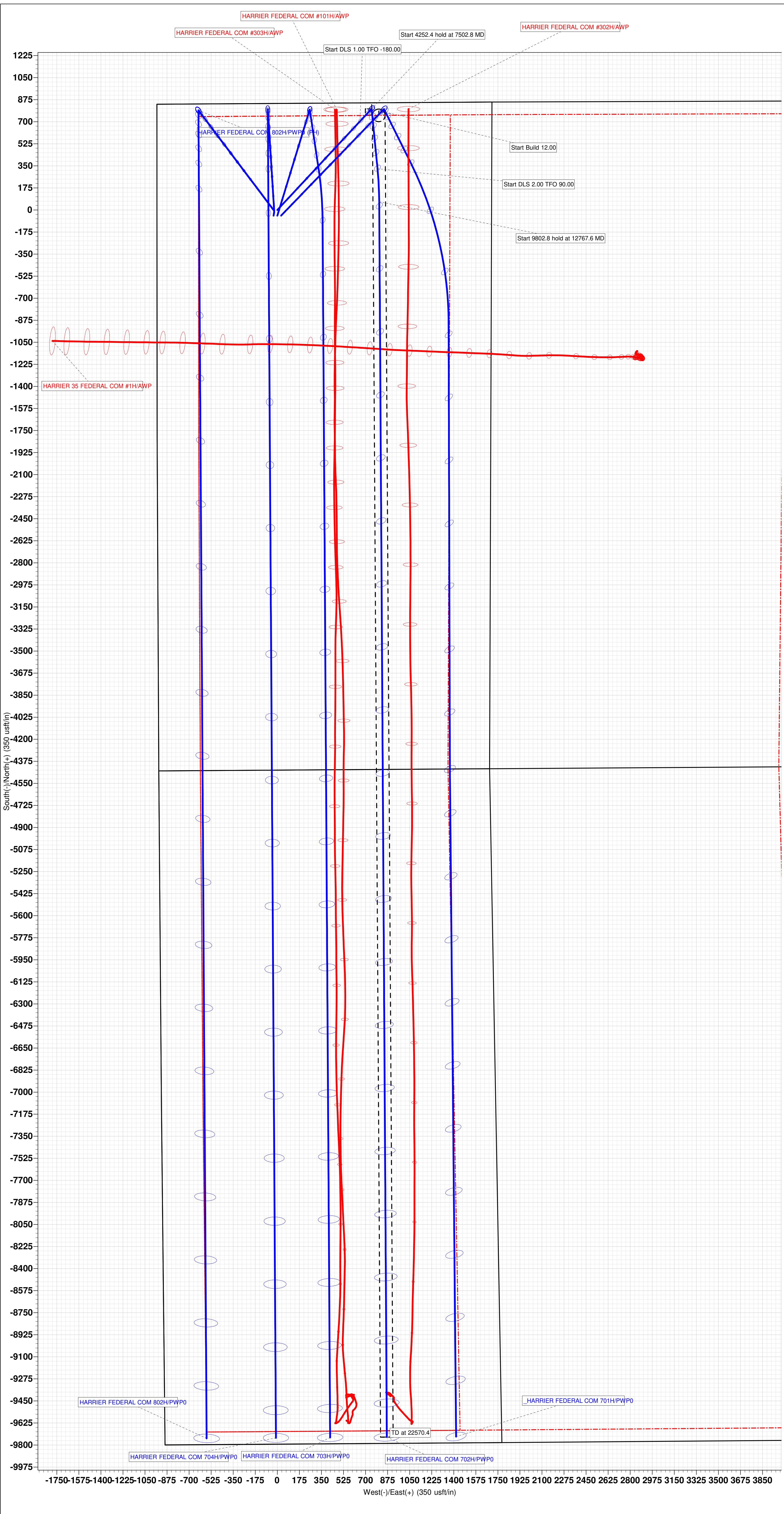
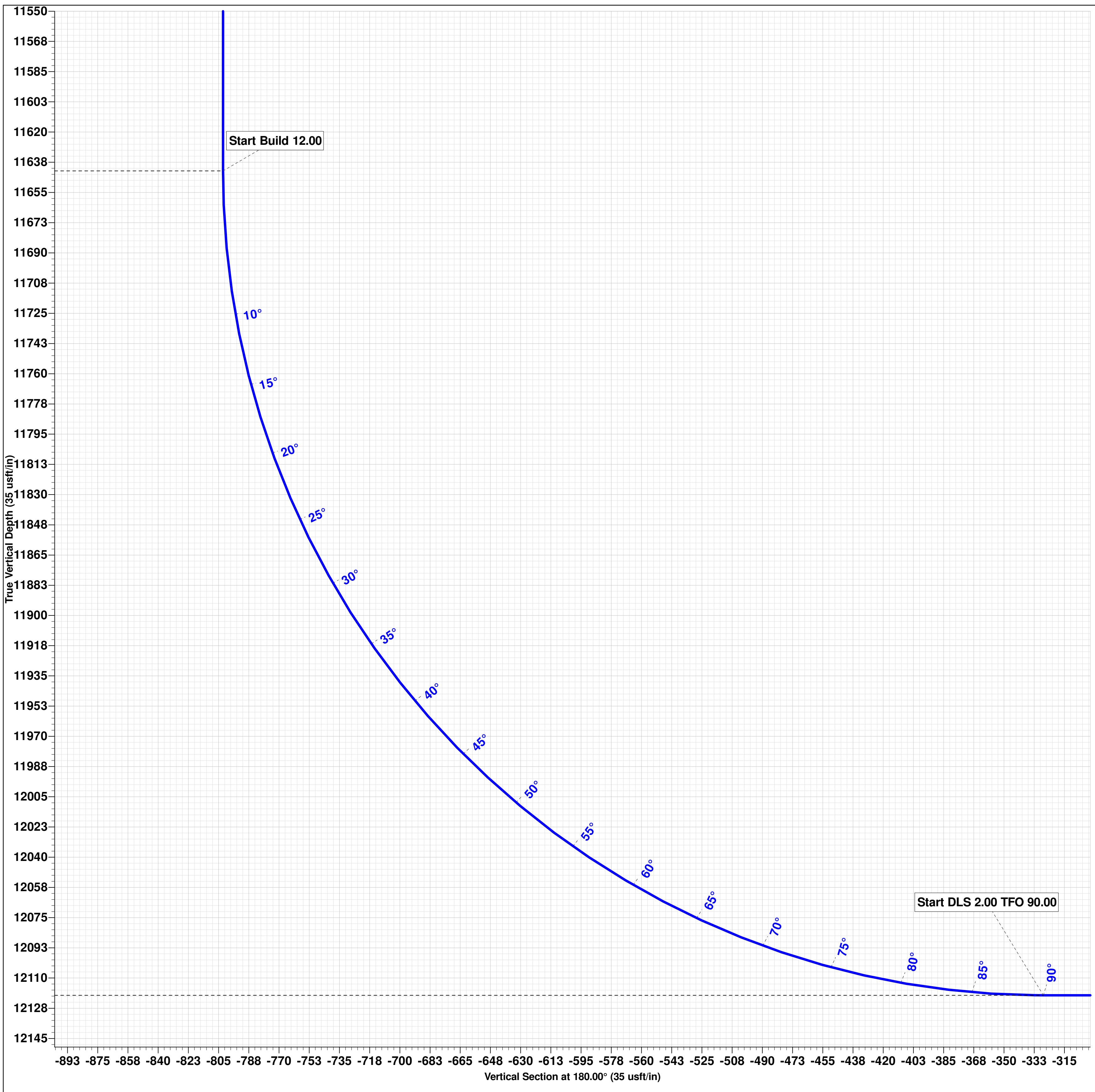
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION





Project: LEA COUNT SOUTH WEST (NM-E)
Site: HARRIER FEDERAL PROJECT
Well: HARRIER FEDERAL COM 702H
Wellbore: OWB
Design: PWP0

SECTION DETAILS									
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
2125.0	12.50	43.00	2120.1	49.7	46.3	2.00	43.00	-45.4	
6252.8	12.50	43.00	6150.0	703.1	655.6	0.00	0.00	-642.0	
7502.8	0.00	0.00	7390.1	802.4	748.2	1.00	-180.00	-732.7	
11755.2	0.00	0.00	11642.5	802.4	748.2	0.00	0.00	-732.7	
12505.2	90.00	174.40	12120.0	327.2	794.8	12.00	174.40	-255.3	
12767.6	90.00	179.65	12120.0	65.3	808.5	2.00	90.00	6.8	
22570.4	90.00	179.65	12120.0	-9737.3	868.8	0.00	0.00	9776.0	



COG Operating, LLC - Harrier Federal Com 702H

1. Geologic Formations

TVD of target	12,120' EOL	Pilot hole depth	NA
MD at TD:	22,570'	Deepest expected fresh water:	207'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	745	Water	
Top of Salt	1108	Salt	
Base of Salt	4504	Salt	
Lamar	4700	Salt Water	
Bell Canyon	4735	Salt Water	
Cherry Canyon	5727	Oil/Gas	
Brushy Canyon	7293	Oil/Gas	
Bone Spring Lime	8855	Oil/Gas	
1st Bone Spring Sand	9819	Oil/Gas	
2nd Bone Spring Sand	10438	Oil/Gas	
3rd Bone Spring Sand	11602	Oil/Gas	
Wolfcamp A	12225	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	N80	BTC	5.14	1.71	21.77	22.96
9.875"	0	8300	7.625"	29.7	HCL80	BTC	1.60	1.08	2.95	2.97
8.750"	8300	11800	7.625"	29.7	HCP110	FJM	1.21	1.40	2.68	1.59
6.75"	0	11300	5.5"	23	P110	BTC	1.98	2.34	2.80	2.79
6.75"	11300	22,570	5.5"	23	P110	Talon	1.82	2.15	2.58	2.50
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 43 CFR part 3170 Subpart 3172.

The 5 1/2" talon 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.

COG Operating, LLC - Harrier Federal Com 702H

	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?	

COG Operating, LLC - Harrier Federal Com 702H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	501	13.5	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	524	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	1018	14.4	1.24	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)

COG Operating, LLC - Harrier Federal Com 702H

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 43 CFR part 3170 Subpart 3172. 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 43 CFR part 3170 Subpart 3172. 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 43 CFR part 3170 Subpart 3172.
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 43 CFR part 3170 Subpart 3172 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.

COG Operating, LLC - Harrier Federal Com 702H

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
---	-----------------------------

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	

COG Operating, LLC - Harrier Federal Com 702H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8005 psi at 12308' 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 COUNT SOUTH WEST (NM-E)

HARRIER FEDERAL PROJECT

HARRIER FEDERAL COM 702H

300254988800

OWB

PWP0

Anticollision Report

12 January, 2024

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian 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 + Stations Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	Error Surface:	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Added to Error Values

Survey Tool Program		Date	1/12/2024		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	22,570.4	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5	

Summary						
Site Name Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation Factor	Warning
	Measured	Measured	Between	Between		
	Depth (usft)	Depth (usft)	Centres (usft)	Ellipses (usft)		
HARRIER FEDERAL PROJECT						
_HARRIER FEDERAL COM 701H - OWB - PWP0	1,500.0	1,499.5	53.9	42.3	4.660	CC
_HARRIER FEDERAL COM 701H - OWB - PWP0	2,000.0	2,001.5	54.6	41.6	4.206	ES
_HARRIER FEDERAL COM 701H - OWB - PWP0	11,950.0	11,952.6	100.9	42.1	1.717	Caution - Monitor Closely, SI
HARRIER 35 FEDERAL COM #1H - OWB - AWP	13,936.5	13,786.8	103.3	40.3	1.639	Caution - Monitor Closely, C
HARRIER FEDERAL COM #101H - OWB - AWP	9,731.3	19,755.0	277.1	147.2	2.132	Caution - Monitor Closely, C
HARRIER FEDERAL COM #302H - OWB - AWP	10,276.9	20,229.0	292.8	163.1	2.257	Caution - Monitor Closely, C
HARRIER FEDERAL COM #303H - OWB - AWP	9,309.0	19,261.0	290.8	161.2	2.244	Caution - Monitor Closely, C
HARRIER FEDERAL COM 703H - OWB - PWP0	2,045.4	2,052.6	38.3	24.1	2.696	Normal Operations, CC, ES
HARRIER FEDERAL COM 703H - OWB - PWP0	22,570.4	22,830.0	530.0	325.2	2.587	Normal Operations, SF
HARRIER FEDERAL COM 704H - OWB - PWP0	1,500.0	1,499.8	54.2	42.7	4.689	CC, ES
HARRIER FEDERAL COM 704H - OWB - PWP0	22,570.4	22,518.9	880.0	678.8	4.374	SF
HARRIER FEDERAL COM 802H - OWB - PWP0	966.6	966.9	30.0	20.1	3.021	CC
HARRIER FEDERAL COM 802H - OWB - PWP0	1,000.0	1,000.0	30.0	20.0	2.989	Normal Operations, ES, SF
HARRIER FEDERAL COM 802H - PILOT - PWP0 (PH)	966.6	966.9	30.0	20.8	3.269	CC
HARRIER FEDERAL COM 802H - PILOT - PWP0 (PH)	1,000.0	1,000.0	30.0	20.7	3.238	ES, SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian 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
HARRIER FEDERAL PROJECT						
_HARRIER FEDERAL COM 701H - OWB - PWP0	22,570.4	22,945.5	617.2	450.0	3.690	
HARRIER 35 FEDERAL COM #1H - OWB - AWP	22,570.4	13,358.7				Out of Range @TD
HARRIER FEDERAL COM #101H - OWB - AWP	22,570.4	9,848.0				Out of Range @TD
HARRIER FEDERAL COM #302H - OWB - AWP	22,570.4	10,335.2				Out of Range @TD
HARRIER FEDERAL COM #303H - OWB - AWP	22,570.4	9,369.0				Out of Range @TD
HARRIER FEDERAL COM 703H - OWB - PWP0	22,570.4	22,830.0	530.0	325.2	2.587	Normal Operations, SF
HARRIER FEDERAL COM 704H - OWB - PWP0	22,570.4	22,518.9	880.0	678.8	4.374	SF
HARRIER FEDERAL COM 802H - OWB - PWP0	22,570.4	22,815.1				Out of Range @TD
HARRIER FEDERAL COM 802H - PILOT - PWP0 (PH)	22,570.4	12,203.1				Out of Range @TD

Offset Design: HARRIER FEDERAL PROJECT - _HARRIER FEDERAL COM 701H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
+N/-S (usft)	+E/-W (usft)												
0.0	0.0	0.0	0.0	3.0	3.0	146.19	-44.8	30.0	53.9				
100.0	100.0	99.5	99.5	3.1	3.1	146.19	-44.8	30.0	53.9	47.3	6.62	8.147	
200.0	200.0	199.5	199.5	3.3	3.3	146.19	-44.8	30.0	53.9	46.8	7.07	7.626	
300.0	300.0	299.5	299.5	3.5	3.5	146.19	-44.8	30.0	53.9	46.4	7.50	7.191	
400.0	400.0	399.5	399.5	3.7	3.7	146.19	-44.8	30.0	53.9	46.0	7.90	6.822	
500.0	500.0	499.5	499.5	3.9	3.9	146.19	-44.8	30.0	53.9	45.6	8.29	6.502	
600.0	600.0	599.5	599.5	4.1	4.1	146.19	-44.8	30.0	53.9	45.3	8.66	6.222	
700.0	700.0	699.5	699.5	4.3	4.3	146.19	-44.8	30.0	53.9	44.9	9.02	5.974	
800.0	800.0	799.5	799.5	4.5	4.5	146.19	-44.8	30.0	53.9	44.5	9.37	5.753	
900.0	900.0	899.5	899.5	4.7	4.7	146.19	-44.8	30.0	53.9	44.2	9.71	5.553	
1,000.0	1,000.0	999.5	999.5	4.8	4.8	146.19	-44.8	30.0	53.9	43.9	10.04	5.371	
1,100.0	1,100.0	1,099.5	1,099.5	5.0	5.0	146.19	-44.8	30.0	53.9	43.6	10.36	5.205	
1,200.0	1,200.0	1,199.5	1,199.5	5.2	5.2	146.19	-44.8	30.0	53.9	43.2	10.67	5.053	
1,300.0	1,300.0	1,299.5	1,299.5	5.3	5.3	146.19	-44.8	30.0	53.9	42.9	10.98	4.912	
1,400.0	1,400.0	1,399.5	1,399.5	5.5	5.5	146.19	-44.8	30.0	53.9	42.6	11.28	4.781	
1,500.0	1,500.0	1,499.5	1,499.5	5.6	5.6	146.19	-44.8	30.0	53.9	42.3	11.57	4.660 CC	
1,600.0	1,600.0	1,599.9	1,599.9	5.8	5.8	103.20	-43.5	31.2	53.9	42.1	11.86	4.548	
1,700.0	1,699.8	1,700.3	1,700.1	6.1	6.1	103.17	-39.8	34.9	54.0	41.9	12.15	4.449	
1,800.0	1,799.5	1,800.7	1,800.1	6.3	6.3	103.11	-33.5	41.0	54.2	41.8	12.43	4.360	
1,900.0	1,898.7	1,901.1	1,899.8	6.6	6.6	103.03	-24.6	49.5	54.4	41.7	12.71	4.279	
2,000.0	1,997.5	2,001.5	1,998.9	6.9	6.9	102.91	-13.3	60.4	54.6	41.6	12.99	4.206 ES	

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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:		HARRIER FEDERAL PROJECT - _HARRIER FEDERAL COM 701H - OWB - PWP0												Offset Site Error:		0.0 usft
Survey Program:		0-r.5 MWD+IFR1+MS						Rule Assigned:						Offset Well Error:		3.0 usft
Measured Depth	Reference	Measured Depth	Offset	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning			
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)					
2,100.0	2,095.6	2,101.9	2,097.5	7.2	7.2	102.77	0.5	73.8	55.0	41.7	13.28	4.139				
2,125.0	2,120.1	2,127.0	2,122.0	7.2	7.3	102.73	4.4	77.5	55.0	41.7	13.31	4.137				
2,200.0	2,193.3	2,202.0	2,195.2	7.4	7.4	102.67	16.0	88.7	55.3	41.8	13.48	4.103				
2,300.0	2,290.9	2,302.0	2,292.8	7.7	7.7	102.59	31.6	103.8	55.7	41.9	13.78	4.041				
2,400.0	2,388.5	2,402.0	2,390.5	8.0	8.0	102.51	47.2	118.8	56.1	42.0	14.09	3.979				
2,500.0	2,486.2	2,502.0	2,488.1	8.3	8.3	102.43	62.7	133.9	56.4	42.0	14.40	3.919				
2,600.0	2,583.8	2,602.0	2,585.7	8.7	8.7	102.35	78.3	148.9	56.8	42.1	14.72	3.859				
2,700.0	2,681.4	2,702.0	2,683.3	9.0	9.0	102.27	93.9	163.9	57.2	42.1	15.04	3.801				
2,800.0	2,779.1	2,802.0	2,781.0	9.4	9.4	102.19	109.4	179.0	57.5	42.2	15.36	3.745				
2,900.0	2,876.7	2,902.0	2,878.6	9.7	9.7	102.12	125.0	194.0	57.9	42.2	15.69	3.690				
3,000.0	2,974.3	3,002.0	2,976.2	10.1	10.1	102.04	140.6	209.0	58.3	42.2	16.03	3.636				
3,100.0	3,071.9	3,102.0	3,073.9	10.5	10.5	101.97	156.2	224.1	58.6	42.3	16.37	3.584				
3,200.0	3,169.6	3,202.0	3,171.5	10.9	10.9	101.90	171.7	239.1	59.0	42.3	16.71	3.533				
3,300.0	3,267.2	3,302.0	3,269.1	11.3	11.3	101.82	187.3	254.1	59.4	42.3	17.05	3.483				
3,400.0	3,364.8	3,402.0	3,366.7	11.7	11.7	101.75	202.9	269.2	59.8	42.4	17.40	3.435				
3,500.0	3,462.5	3,502.0	3,464.4	12.1	12.1	101.68	218.4	284.2	60.1	42.4	17.74	3.389				
3,600.0	3,560.1	3,602.0	3,562.0	12.5	12.5	101.61	234.0	299.2	60.5	42.4	18.09	3.343				
3,700.0	3,657.7	3,702.0	3,659.6	12.9	13.0	101.55	249.6	314.3	60.9	42.4	18.45	3.299				
3,800.0	3,755.3	3,802.0	3,757.3	13.4	13.4	101.48	265.1	329.3	61.2	42.4	18.80	3.257				
3,900.0	3,853.0	3,902.0	3,854.9	13.8	13.8	101.41	280.7	344.3	61.6	42.5	19.16	3.216				
4,000.0	3,950.6	4,002.0	3,952.5	14.2	14.2	101.34	296.3	359.4	62.0	42.5	19.52	3.176				
4,100.0	4,048.2	4,102.0	4,050.2	14.7	14.7	101.28	311.8	374.4	62.4	42.5	19.88	3.137				
4,200.0	4,145.9	4,202.0	4,147.8	15.1	15.1	101.21	327.4	389.4	62.7	42.5	20.24	3.099				
4,300.0	4,243.5	4,302.0	4,245.4	15.5	15.5	101.15	343.0	404.5	63.1	42.5	20.60	3.063				
4,400.0	4,341.1	4,402.0	4,343.0	16.0	16.0	101.09	358.6	419.5	63.5	42.5	20.97	3.027				
4,500.0	4,438.8	4,502.0	4,440.7	16.4	16.4	101.02	374.1	434.6	63.8	42.5	21.33	2.993	Normal Operations			
4,600.0	4,536.4	4,602.0	4,538.3	16.9	16.9	100.96	389.7	449.6	64.2	42.5	21.70	2.959	Normal Operations			
4,700.0	4,634.0	4,702.0	4,635.9	17.3	17.3	100.90	405.3	464.6	64.6	42.5	22.06	2.927	Normal Operations			
4,800.0	4,731.6	4,802.0	4,733.6	17.8	17.8	100.84	420.8	479.7	65.0	42.5	22.43	2.896	Normal Operations			
4,900.0	4,829.3	4,902.0	4,831.2	18.2	18.2	100.78	436.4	494.7	65.3	42.5	22.80	2.865	Normal Operations			
5,000.0	4,926.9	5,002.0	4,928.8	18.7	18.7	100.72	452.0	509.7	65.7	42.5	23.17	2.835	Normal Operations			
5,100.0	5,024.5	5,102.0	5,026.4	19.1	19.1	100.67	467.5	524.8	66.1	42.5	23.54	2.807	Normal Operations			
5,200.0	5,122.2	5,202.0	5,124.1	19.6	19.6	100.61	483.1	539.8	66.4	42.5	23.91	2.779	Normal Operations			
5,300.0	5,219.8	5,302.0	5,221.7	20.0	20.0	100.55	498.7	554.8	66.8	42.5	24.28	2.751	Normal Operations			
5,400.0	5,317.4	5,402.0	5,319.3	20.5	20.5	100.49	514.2	569.9	67.2	42.5	24.65	2.725	Normal Operations			
5,500.0	5,415.1	5,501.9	5,417.0	21.0	21.0	100.44	529.8	584.9	67.6	42.5	25.03	2.699	Normal Operations			
5,600.0	5,512.7	5,601.9	5,514.6	21.4	21.4	100.38	545.4	599.9	67.9	42.5	25.40	2.674	Normal Operations			
5,700.0	5,610.3	5,701.9	5,612.2	21.9	21.9	100.33	561.0	615.0	68.3	42.5	25.77	2.650	Normal Operations			
5,800.0	5,707.9	5,801.9	5,709.8	22.3	22.3	100.28	576.5	630.0	68.7	42.5	26.15	2.626	Normal Operations			
5,900.0	5,805.6	5,901.9	5,807.5	22.8	22.8	100.22	592.1	645.0	69.0	42.5	26.52	2.603	Normal Operations			
6,000.0	5,903.2	6,001.9	5,905.1	23.3	23.3	100.17	607.7	660.1	69.4	42.5	26.90	2.581	Normal Operations			
6,100.0	6,000.8	6,101.9	6,002.7	23.7	23.7	100.12	623.2	675.1	69.8	42.5	27.27	2.559	Normal Operations			
6,200.0	6,098.5	6,201.9	6,100.4	24.2	24.2	100.07	638.8	690.1	70.2	42.5	27.65	2.538	Normal Operations			
6,252.8	6,150.0	6,254.7	6,151.9	24.4	24.4	100.04	647.0	698.1	70.4	42.5	27.83	2.528	Normal Operations			
6,300.0	6,196.1	6,301.9	6,198.0	24.6	24.7	99.86	654.4	705.2	70.5	42.5	27.96	2.521	Normal Operations			
6,400.0	6,294.1	6,401.9	6,295.6	25.1	25.1	98.46	669.9	720.2	70.6	42.5	28.08	2.515	Normal Operations			
6,500.0	6,392.4	6,501.9	6,393.2	25.5	25.6	95.65	685.5	735.2	70.6	42.5	28.02	2.518	Normal Operations			
6,532.7	6,424.6	6,534.5	6,425.1	25.7	25.7	94.43	690.6	740.2	70.5	42.6	27.99	2.520	Normal Operations			
6,600.0	6,491.0	6,601.7	6,490.7	26.0	26.1	91.44	701.0	750.3	70.6	42.6	28.02	2.520	Normal Operations			
6,700.0	6,589.9	6,701.6	6,588.3	26.4	26.5	86.43	716.1	764.8	71.1	42.6	28.44	2.499	Caution - Monitor Closely			
6,800.0	6,689.1	6,801.5	6,686.4	26.8	27.0	81.52	729.9	778.2	72.1	42.7	29.40	2.452	Caution - Monitor Closely			
6,900.0	6,788.4	6,901.6	6,784.9	27.2	27.4	76.76	742.6	790.3	73.6	42.7	30.83	2.386	Caution - Monitor Closely			

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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - _HARRIER FEDERAL COM 701H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1+MS		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error: 3.0 usft		
Measured Depth (usft)	Reference 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	Warning	
7,000.0	6,888.0	7,001.8	6,883.8	27.6	27.9	72.22	753.9	801.3	75.5	42.9	32.61	2.315	Caution - Monitor Closely	
7,100.0	6,987.6	7,102.1	6,983.1	28.0	28.3	67.92	764.1	811.1	77.9	43.2	34.63	2.248	Caution - Monitor Closely	
7,200.0	7,087.5	7,202.5	7,082.7	28.4	28.7	63.89	773.0	819.8	80.6	43.8	36.74	2.193	Caution - Monitor Closely	
7,300.0	7,187.4	7,303.0	7,182.7	28.7	29.1	60.13	780.7	827.2	83.7	44.8	38.87	2.152	Caution - Monitor Closely	
7,400.0	7,287.3	7,403.6	7,282.9	29.0	29.5	56.65	787.1	833.3	87.1	46.1	40.94	2.127	Caution - Monitor Closely	
7,500.0	7,387.3	7,504.3	7,383.4	29.1	29.9	53.44	792.2	838.3	90.7	47.9	42.84	2.117	Caution - Monitor Closely	
7,502.8	7,390.1	7,507.1	7,386.2	29.2	29.9	96.35	792.4	838.4	90.8	47.9	42.89	2.117	Caution - Monitor Closely	
7,600.0	7,487.3	7,605.2	7,484.1	29.2	30.2	93.83	796.1	842.1	94.1	49.7	44.35	2.121	Caution - Monitor Closely	
7,700.0	7,587.3	7,706.2	7,585.1	29.2	30.5	92.18	798.7	844.6	96.4	51.1	45.35	2.126	Caution - Monitor Closely	
7,800.0	7,687.3	7,807.4	7,686.2	29.3	30.8	91.38	800.0	845.9	97.6	51.8	45.89	2.128	Caution - Monitor Closely	
7,900.0	7,787.3	7,908.0	7,786.8	29.3	30.9	91.27	800.2	846.0	97.8	51.8	46.01	2.126	Caution - Monitor Closely	
8,000.0	7,887.3	8,008.0	7,886.8	29.4	30.9	91.27	800.2	846.0	97.8	51.7	46.10	2.122	Caution - Monitor Closely	
8,100.0	7,987.3	8,108.0	7,986.8	29.4	31.0	91.27	800.2	846.0	97.8	51.6	46.19	2.118	Caution - Monitor Closely	
8,200.0	8,087.3	8,208.0	8,086.8	29.5	31.0	91.27	800.2	846.0	97.8	51.5	46.28	2.114	Caution - Monitor Closely	
8,300.0	8,187.3	8,308.0	8,186.8	29.5	31.0	91.27	800.2	846.0	97.8	51.4	46.37	2.109	Caution - Monitor Closely	
8,400.0	8,287.3	8,408.0	8,286.8	29.5	31.1	91.27	800.2	846.0	97.8	51.4	46.46	2.105	Caution - Monitor Closely	
8,500.0	8,387.3	8,508.0	8,386.8	29.6	31.1	91.27	800.2	846.0	97.8	51.3	46.56	2.101	Caution - Monitor Closely	
8,600.0	8,487.3	8,608.0	8,486.8	29.6	31.1	91.27	800.2	846.0	97.8	51.2	46.65	2.097	Caution - Monitor Closely	
8,700.0	8,587.3	8,708.0	8,586.8	29.7	31.2	91.27	800.2	846.0	97.8	51.1	46.74	2.093	Caution - Monitor Closely	
8,800.0	8,687.3	8,808.0	8,686.8	29.7	31.2	91.27	800.2	846.0	97.8	51.0	46.84	2.088	Caution - Monitor Closely	
8,900.0	8,787.3	8,908.0	8,786.8	29.8	31.3	91.27	800.2	846.0	97.8	50.9	46.93	2.084	Caution - Monitor Closely	
9,000.0	8,887.3	9,008.0	8,886.8	29.8	31.3	91.27	800.2	846.0	97.8	50.8	47.03	2.080	Caution - Monitor Closely	
9,100.0	8,987.3	9,108.0	8,986.8	29.9	31.3	91.27	800.2	846.0	97.8	50.7	47.12	2.076	Caution - Monitor Closely	
9,200.0	9,087.3	9,208.0	9,086.8	29.9	31.4	91.27	800.2	846.0	97.8	50.6	47.22	2.072	Caution - Monitor Closely	
9,300.0	9,187.3	9,308.0	9,186.8	30.0	31.4	91.27	800.2	846.0	97.8	50.5	47.31	2.067	Caution - Monitor Closely	
9,400.0	9,287.3	9,408.0	9,286.8	30.0	31.4	91.27	800.2	846.0	97.8	50.4	47.41	2.063	Caution - Monitor Closely	
9,500.0	9,387.3	9,508.0	9,386.8	30.0	31.5	91.27	800.2	846.0	97.8	50.3	47.50	2.059	Caution - Monitor Closely	
9,600.0	9,487.3	9,608.0	9,486.8	30.1	31.5	91.27	800.2	846.0	97.8	50.2	47.60	2.055	Caution - Monitor Closely	
9,700.0	9,587.3	9,708.0	9,586.8	30.1	31.6	91.27	800.2	846.0	97.8	50.1	47.70	2.051	Caution - Monitor Closely	
9,800.0	9,687.3	9,808.0	9,686.8	30.2	31.6	91.27	800.2	846.0	97.8	50.0	47.80	2.047	Caution - Monitor Closely	
9,900.0	9,787.3	9,908.0	9,786.8	30.2	31.6	91.27	800.2	846.0	97.8	49.9	47.89	2.042	Caution - Monitor Closely	
10,000.0	9,887.3	10,008.0	9,886.8	30.3	31.7	91.27	800.2	846.0	97.8	49.8	47.99	2.038	Caution - Monitor Closely	
10,100.0	9,987.3	10,108.0	9,986.8	30.3	31.7	91.27	800.2	846.0	97.8	49.7	48.09	2.034	Caution - Monitor Closely	
10,200.0	10,087.3	10,208.0	10,086.8	30.4	31.8	91.27	800.2	846.0	97.8	49.6	48.19	2.030	Caution - Monitor Closely	
10,300.0	10,187.3	10,308.0	10,186.8	30.4	31.8	91.27	800.2	846.0	97.8	49.5	48.29	2.026	Caution - Monitor Closely	
10,400.0	10,287.3	10,408.0	10,286.8	30.5	31.8	91.27	800.2	846.0	97.8	49.4	48.39	2.021	Caution - Monitor Closely	
10,500.0	10,387.3	10,508.0	10,386.8	30.5	31.9	91.27	800.2	846.0	97.8	49.3	48.49	2.017	Caution - Monitor Closely	
10,600.0	10,487.3	10,608.0	10,486.8	30.6	31.9	91.27	800.2	846.0	97.8	49.2	48.59	2.013	Caution - Monitor Closely	
10,700.0	10,587.3	10,708.0	10,586.8	30.6	32.0	91.27	800.2	846.0	97.8	49.1	48.69	2.009	Caution - Monitor Closely	
10,800.0	10,687.3	10,808.0	10,686.8	30.7	32.0	91.27	800.2	846.0	97.8	49.0	48.79	2.005	Caution - Monitor Closely	
10,900.0	10,787.3	10,908.0	10,786.8	30.7	32.1	91.27	800.2	846.0	97.8	48.9	48.89	2.001	Caution - Monitor Closely	
11,000.0	10,887.3	11,008.0	10,886.8	30.8	32.1	91.27	800.2	846.0	97.8	48.8	48.99	1.997	Caution - Monitor Closely	
11,100.0	10,987.3	11,108.0	10,986.8	30.8	32.1	91.27	800.2	846.0	97.8	48.7	49.09	1.992	Caution - Monitor Closely	
11,200.0	11,087.3	11,208.0	11,086.8	30.9	32.2	91.27	800.2	846.0	97.8	48.6	49.20	1.988	Caution - Monitor Closely	
11,300.0	11,187.3	11,308.0	11,186.8	30.9	32.2	91.27	800.2	846.0	97.8	48.5	49.30	1.984	Caution - Monitor Closely	
11,400.0	11,287.3	11,408.0	11,286.8	31.0	32.3	91.27	800.2	846.0	97.8	48.4	49.40	1.980	Caution - Monitor Closely	
11,500.0	11,387.3	11,508.0	11,386.8	31.0	32.3	91.27	800.2	846.0	97.8	48.3	49.50	1.976	Caution - Monitor Closely	
11,600.0	11,487.3	11,608.0	11,486.8	31.1	32.3	91.27	800.2	846.0	97.8	48.2	49.61	1.972	Caution - Monitor Closely	
11,700.0	11,587.3	11,708.0	11,586.8	31.1	32.4	91.27	800.2	846.0	97.8	48.1	49.71	1.968	Caution - Monitor Closely	
11,755.2	11,642.5	11,763.2	11,642.0	31.1	32.4	91.27	800.2	846.0	97.8	48.1	49.76	1.966	Caution - Monitor Closely	
11,775.0	11,662.3	11,783.0	11,661.8	31.1	32.4	-83.38	800.2	846.0	97.8	47.9	49.90	1.959	Caution - Monitor Closely	
11,800.0	11,687.3	11,807.9	11,686.8	31.1	32.4	-84.38	800.2	846.0	97.6	47.2	50.37	1.938	Caution - Monitor Closely	

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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:		HARRIER FEDERAL PROJECT - _HARRIER FEDERAL COM 701H - OWB - PWP0												Offset Site Error:		0.0 usft
Survey Program:		0-r.5 MWD+IFR1+MS						Rule Assigned:						Offset Well Error:		3.0 usft
Measured Depth	Reference	Measured Depth	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Separation		Warning				
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
11,825.0	11,712.1	11,832.7	11,711.6	31.0	32.4	-86.15	800.2	846.0	97.3	46.2	51.18	1.902	Caution - Monitor Closely			
11,850.0	11,736.7	11,857.4	11,736.2	30.9	32.5	-88.66	800.2	846.0	97.1	44.8	52.31	1.857	Caution - Monitor Closely			
11,861.2	11,747.7	11,868.4	11,747.2	30.9	32.5	-90.02	800.2	846.0	97.1	44.2	52.92	1.835	Caution - Monitor Closely			
11,875.0	11,761.1	11,881.7	11,760.6	30.9	32.5	-91.86	800.2	846.0	97.2	43.4	53.73	1.808	Caution - Monitor Closely			
11,900.0	11,785.1	11,905.8	11,784.6	30.8	32.5	-95.66	800.2	846.0	97.6	42.3	55.36	1.764	Caution - Monitor Closely			
11,925.0	11,808.8	11,929.4	11,808.3	30.7	32.5	-99.95	800.2	846.0	98.8	41.7	57.09	1.730	Caution - Monitor Closely			
11,950.0	11,832.0	11,952.6	11,831.5	30.6	32.5	-104.56	800.2	846.0	100.9	42.1	58.78	1.717	Caution - Monitor Closely, SF			
11,975.0	11,854.6	11,975.3	11,854.1	30.6	32.5	-109.32	800.2	846.0	104.3	44.0	60.27	1.730	Caution - Monitor Closely			
12,000.0	11,876.7	11,997.4	11,876.2	30.5	32.5	-114.03	800.2	846.0	109.1	47.7	61.43	1.776	Caution - Monitor Closely			
12,025.0	11,898.2	12,018.9	11,897.7	30.4	32.5	-118.53	800.2	846.0	115.5	53.3	62.18	1.858	Caution - Monitor Closely			
12,050.0	11,918.9	12,039.6	11,918.4	30.3	32.5	-122.70	800.2	846.0	123.6	61.1	62.51	1.977	Caution - Monitor Closely			
12,075.0	11,938.9	12,061.5	11,940.3	30.3	32.5	-126.75	799.9	846.2	133.3	70.9	62.33	2.138	Caution - Monitor Closely			
12,100.0	11,958.1	12,084.3	11,963.1	30.2	32.5	-130.36	798.7	846.8	144.2	82.4	61.81	2.333	Caution - Monitor Closely			
12,125.0	11,976.4	12,107.8	11,986.4	30.1	32.5	-133.44	796.4	848.0	156.1	95.0	61.07	2.555	Normal Operations			
12,150.0	11,993.8	12,131.9	12,010.2	30.1	32.4	-136.05	793.0	849.7	168.7	108.5	60.24	2.801	Normal Operations			
12,175.0	12,010.3	12,156.8	12,034.6	30.0	32.4	-138.22	788.3	852.0	182.0	122.7	59.36	3.066				
12,200.0	12,025.7	12,182.6	12,059.5	30.0	32.4	-140.00	782.3	855.0	195.8	137.3	58.48	3.348				
12,225.0	12,040.1	12,209.3	12,084.8	29.9	32.3	-141.42	774.8	858.7	210.0	152.4	57.62	3.644				
12,250.0	12,053.4	12,237.1	12,110.7	29.9	32.3	-142.53	765.6	863.3	224.5	167.7	56.81	3.951				
12,275.0	12,065.6	12,266.0	12,136.9	29.8	32.2	-143.36	754.7	868.7	239.1	183.1	56.05	4.267				
12,300.0	12,076.6	12,296.2	12,163.4	29.8	32.2	-143.92	741.8	875.1	253.9	198.6	55.34	4.589				
12,325.0	12,086.4	12,327.9	12,190.2	29.8	32.1	-144.25	726.7	882.6	268.8	214.1	54.70	4.914				
12,350.0	12,095.0	12,361.2	12,217.1	29.7	32.1	-144.35	709.2	891.4	283.6	229.5	54.12	5.240				
12,375.0	12,102.4	12,396.3	12,243.9	29.7	32.1	-144.23	688.9	901.5	298.3	244.7	53.61	5.565				
12,400.0	12,108.5	12,433.4	12,270.3	29.7	32.0	-143.91	665.6	913.1	312.8	259.7	53.16	5.885				
12,425.0	12,113.3	12,472.7	12,296.1	29.7	32.0	-143.39	639.0	926.3	327.1	274.3	52.77	6.198				
12,450.0	12,116.8	12,514.4	12,320.6	29.7	31.9	-142.67	608.8	941.4	340.9	288.5	52.43	6.502				
12,475.0	12,119.0	12,558.8	12,343.3	29.7	31.9	-141.75	574.7	958.3	354.3	302.2	52.13	6.796				
12,500.0	12,120.0	12,595.7	12,359.4	29.7	31.9	-140.62	545.0	973.1	367.1	315.1	51.92	7.070				
12,505.2	12,120.0	12,616.1	12,367.3	29.7	31.9	-140.35	528.2	981.5	369.6	317.9	51.79	7.137				
12,600.0	12,120.0	12,806.1	12,400.0	29.8	31.9	-136.13	361.7	1,064.4	404.8	354.2	50.57	8.004				
12,700.0	12,120.0	12,909.7	12,400.0	30.0	32.1	-132.59	267.9	1,108.5	433.2	382.8	50.38	8.598				
12,767.6	12,120.0	12,980.7	12,400.0	30.0	32.2	-130.44	202.8	1,136.7	453.1	402.8	50.26	9.015				
12,800.0	12,120.0	13,015.1	12,400.0	30.1	32.2	-129.36	171.0	1,149.8	462.7	412.5	50.21	9.217				
12,900.0	12,120.0	13,123.3	12,400.0	30.2	32.4	-126.43	70.0	1,188.5	491.2	441.2	50.03	9.817				
13,000.0	12,120.0	13,234.4	12,400.0	30.4	32.6	-124.04	-35.2	1,224.2	517.4	467.6	49.85	10.380				
13,100.0	12,120.0	13,348.3	12,400.0	30.6	32.8	-122.11	-144.4	1,256.6	541.0	491.4	49.66	10.896				
13,200.0	12,120.0	13,464.7	12,400.0	30.7	33.0	-120.57	-257.2	1,285.2	561.7	512.2	49.46	11.357				
13,300.0	12,120.0	13,583.2	12,400.0	31.0	33.2	-119.37	-373.2	1,309.6	579.1	529.8	49.26	11.754				
13,400.0	12,120.0	13,703.6	12,400.0	31.2	33.4	-118.46	-491.9	1,329.4	593.0	543.9	49.08	12.082				
13,500.0	12,120.0	13,825.4	12,400.0	31.5	33.7	-117.81	-612.8	1,344.3	603.3	554.4	48.93	12.331				
13,600.0	12,120.0	13,948.2	12,400.0	31.7	33.9	-117.41	-735.2	1,354.2	609.9	561.1	48.81	12.496				
13,700.0	12,120.0	14,071.5	12,400.0	32.0	34.2	-117.25	-858.4	1,358.8	612.7	563.9	48.74	12.569				
13,800.0	12,120.0	14,178.6	12,400.0	32.4	34.4	-117.25	-965.6	1,359.4	612.5	563.5	49.02	12.495				
13,900.0	12,120.0	14,278.6	12,400.0	32.7	34.6	-117.27	-1,065.6	1,359.6	612.2	562.8	49.48	12.373				
14,000.0	12,120.0	14,378.6	12,400.0	33.1	34.8	-117.28	-1,165.6	1,359.9	611.9	562.0	50.00	12.240				
14,100.0	12,120.0	14,478.6	12,400.0	33.5	35.0	-117.29	-1,265.6	1,360.2	611.7	561.1	50.56	12.097				
14,200.0	12,120.0	14,578.6	12,400.0	33.9	35.3	-117.31	-1,365.6	1,360.5	611.4	560.2	51.18	11.946				
14,300.0	12,120.0	14,678.6	12,400.0	34.3	35.5	-117.32	-1,465.6	1,360.8	611.1	559.2	51.84	11.788				
14,400.0	12,120.0	14,778.6	12,400.0	34.8	35.8	-117.34	-1,565.6	1,361.1	610.8	558.2	52.54	11.624				
14,500.0	12,120.0	14,878.6	12,400.0	35.3	36.1	-117.35	-1,665.6	1,361.3	610.5	557.2	53.29	11.455				
14,600.0	12,120.0	14,978.6	12,400.0	35.8	36.3	-117.37	-1,765.6	1,361.6	610.2	556.1	54.09	11.281				

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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - _HARRIER FEDERAL COM 701H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 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	
14,700.0	12,120.0	15,078.6	12,400.0	36.3	36.6	-117.38	-1,865.6	1,361.9	609.9	555.0	54.92	11.105		
14,800.0	12,120.0	15,178.6	12,400.0	36.9	36.9	-117.39	-1,965.6	1,362.2	609.6	553.8	55.79	10.926		
14,900.0	12,120.0	15,278.6	12,400.0	37.4	37.2	-117.41	-2,065.6	1,362.5	609.3	552.6	56.70	10.746		
15,000.0	12,120.0	15,378.6	12,400.0	38.0	37.5	-117.42	-2,165.6	1,362.8	609.0	551.4	57.64	10.565		
15,100.0	12,120.0	15,478.6	12,400.0	38.6	37.9	-117.44	-2,265.6	1,363.0	608.7	550.1	58.62	10.384		
15,200.0	12,120.0	15,578.6	12,400.0	39.2	38.2	-117.45	-2,365.6	1,363.3	608.4	548.8	59.62	10.204		
15,300.0	12,120.0	15,678.6	12,400.0	39.9	38.5	-117.47	-2,465.5	1,363.6	608.1	547.5	60.66	10.025		
15,400.0	12,120.0	15,778.6	12,400.0	40.5	38.9	-117.48	-2,565.5	1,363.9	607.8	546.1	61.73	9.847		
15,500.0	12,120.0	15,878.6	12,400.0	41.2	39.3	-117.50	-2,665.5	1,364.2	607.5	544.7	62.82	9.671		
15,600.0	12,120.0	15,978.6	12,400.0	41.9	39.6	-117.51	-2,765.5	1,364.5	607.2	543.3	63.94	9.497		
15,700.0	12,120.0	16,078.6	12,400.0	42.6	40.0	-117.53	-2,865.5	1,364.7	606.9	541.9	65.08	9.326		
15,800.0	12,120.0	16,178.6	12,400.0	43.3	40.4	-117.54	-2,965.5	1,365.0	606.6	540.4	66.24	9.158		
15,900.0	12,120.0	16,278.6	12,400.0	44.0	40.8	-117.55	-3,065.5	1,365.3	606.3	538.9	67.43	8.992		
16,000.0	12,120.0	16,378.6	12,400.0	44.8	41.3	-117.57	-3,165.5	1,365.6	606.0	537.4	68.64	8.830		
16,100.0	12,120.0	16,478.6	12,400.0	45.5	41.7	-117.58	-3,265.5	1,365.9	605.8	535.9	69.86	8.671		
16,200.0	12,120.0	16,578.6	12,400.0	46.3	42.1	-117.60	-3,365.5	1,366.2	605.5	534.4	71.11	8.515		
16,300.0	12,120.0	16,678.6	12,400.0	47.0	42.6	-117.61	-3,465.5	1,366.4	605.2	532.8	72.37	8.362		
16,400.0	12,120.0	16,778.6	12,400.0	47.8	43.0	-117.63	-3,565.5	1,366.7	604.9	531.2	73.65	8.213		
16,500.0	12,120.0	16,878.6	12,400.0	48.6	43.5	-117.64	-3,665.5	1,367.0	604.6	529.6	74.94	8.067		
16,600.0	12,120.0	16,978.6	12,400.0	49.4	44.0	-117.66	-3,765.5	1,367.3	604.3	528.0	76.25	7.925		
16,700.0	12,120.0	17,078.6	12,400.0	50.2	44.4	-117.67	-3,865.5	1,367.6	604.0	526.4	77.58	7.786		
16,800.0	12,120.0	17,178.6	12,400.0	51.0	44.9	-117.69	-3,965.5	1,367.8	603.7	524.8	78.91	7.650		
16,900.0	12,120.0	17,278.6	12,400.0	51.8	45.4	-117.70	-4,065.5	1,368.1	603.4	523.1	80.26	7.518		
17,000.0	12,120.0	17,378.6	12,400.0	52.6	45.9	-117.72	-4,165.5	1,368.4	603.1	521.5	81.63	7.389		
17,100.0	12,120.0	17,478.6	12,400.0	53.4	46.4	-117.73	-4,265.5	1,368.7	602.8	519.8	83.00	7.263		
17,200.0	12,120.0	17,578.6	12,400.0	54.2	47.0	-117.75	-4,365.5	1,369.0	602.5	518.1	84.38	7.140		
17,281.7	12,120.0	17,658.6	12,400.0	54.9	47.4	-117.76	-4,445.5	1,369.2	602.3	516.8	85.51	7.044		
17,300.0	12,120.0	17,675.2	12,400.0	55.1	47.5	-117.76	-4,462.1	1,369.4	602.3	516.6	85.75	7.024		
17,400.0	12,120.0	17,775.2	12,400.0	55.9	48.0	-117.74	-4,562.1	1,370.3	602.6	515.5	87.16	6.914		
17,500.0	12,120.0	17,875.2	12,400.0	56.7	48.5	-117.73	-4,662.1	1,371.2	602.9	514.3	88.58	6.806		
17,600.0	12,120.0	17,975.2	12,400.0	57.6	49.1	-117.71	-4,762.0	1,372.2	603.2	513.2	90.01	6.701		
17,700.0	12,120.0	18,075.2	12,400.0	58.4	49.6	-117.70	-4,862.0	1,373.1	603.5	512.0	91.45	6.599		
17,800.0	12,120.0	18,175.2	12,400.0	59.3	50.2	-117.68	-4,962.0	1,374.0	603.7	510.8	92.90	6.499		
17,900.0	12,120.0	18,275.2	12,400.0	60.1	50.8	-117.67	-5,062.0	1,375.0	604.0	509.7	94.35	6.402		
18,000.0	12,120.0	18,375.2	12,400.0	61.0	51.3	-117.66	-5,162.0	1,375.9	604.3	508.5	95.82	6.307		
18,100.0	12,120.0	18,475.2	12,400.0	61.9	51.9	-117.64	-5,262.0	1,376.8	604.6	507.3	97.29	6.214		
18,200.0	12,120.0	18,575.2	12,400.0	62.7	52.5	-117.63	-5,362.0	1,377.8	604.9	506.1	98.76	6.124		
18,300.0	12,120.0	18,675.2	12,400.0	63.6	53.1	-117.61	-5,462.0	1,378.7	605.1	504.9	100.25	6.037		
18,400.0	12,120.0	18,775.2	12,400.0	64.5	53.7	-117.60	-5,562.0	1,379.6	605.4	503.7	101.74	5.951		
18,500.0	12,120.0	18,875.2	12,400.0	65.4	54.3	-117.59	-5,662.0	1,380.6	605.7	502.5	103.23	5.867		
18,600.0	12,120.0	18,975.2	12,400.0	66.2	54.9	-117.57	-5,762.0	1,381.5	606.0	501.3	104.74	5.786		
18,700.0	12,120.0	19,075.2	12,400.0	67.1	55.5	-117.56	-5,862.0	1,382.4	606.3	500.0	106.24	5.707		
18,800.0	12,120.0	19,175.1	12,400.0	68.0	56.1	-117.55	-5,962.0	1,383.4	606.6	498.8	107.76	5.629		
18,900.0	12,120.0	19,275.1	12,400.0	68.9	56.7	-117.53	-6,062.0	1,384.3	606.8	497.6	109.27	5.553		
19,000.0	12,120.0	19,375.1	12,400.0	69.8	57.3	-117.52	-6,162.0	1,385.2	607.1	496.3	110.80	5.480		
19,100.0	12,120.0	19,475.1	12,400.0	70.7	58.0	-117.50	-6,262.0	1,386.2	607.4	495.1	112.32	5.408		
19,200.0	12,120.0	19,575.1	12,400.0	71.6	58.6	-117.49	-6,362.0	1,387.1	607.7	493.8	113.86	5.337		
19,300.0	12,120.0	19,675.1	12,400.0	72.5	59.2	-117.48	-6,462.0	1,388.0	608.0	492.6	115.39	5.269		
19,400.0	12,120.0	19,775.1	12,400.0	73.4	59.9	-117.46	-6,562.0	1,389.0	608.3	491.3	116.93	5.202		
19,500.0	12,120.0	19,875.1	12,400.0	74.3	60.5	-117.45	-6,662.0	1,389.9	608.5	490.1	118.48	5.136		
19,600.0	12,120.0	19,975.1	12,400.0	75.2	61.1	-117.43	-6,761.9	1,390.8	608.8	488.8	120.03	5.072		
19,700.0	12,120.0	20,075.1	12,400.0	76.1	61.8	-117.42	-6,861.9	1,391.8	609.1	487.5	121.58	5.010		

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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - _HARRIER FEDERAL COM 701H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 MWD+IFR1+MS		Rule Assigned:		Offset Well Error:		3.0 usft						
Reference		Offset		Semi Major Axis		Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,800.0	12,120.0	20,175.1	12,400.0	77.0	62.4	-117.41	-6,961.9	1,392.7	609.4	486.3	123.13	4.949		
19,900.0	12,120.0	20,275.1	12,400.0	77.9	63.1	-117.39	-7,061.9	1,393.6	609.7	485.0	124.69	4.889		
20,000.0	12,120.0	20,375.1	12,400.0	78.8	63.7	-117.38	-7,161.9	1,394.6	610.0	483.7	126.26	4.831		
20,100.0	12,120.0	20,475.1	12,400.0	79.7	64.4	-117.37	-7,261.9	1,395.5	610.2	482.4	127.82	4.774		
20,200.0	12,120.0	20,575.1	12,400.0	80.6	65.1	-117.35	-7,361.9	1,396.4	610.5	481.1	129.39	4.718		
20,300.0	12,120.0	20,675.1	12,400.0	81.5	65.7	-117.34	-7,461.9	1,397.4	610.8	479.8	130.96	4.664		
20,400.0	12,120.0	20,775.1	12,400.0	82.4	66.4	-117.32	-7,561.9	1,398.3	611.1	478.5	132.54	4.611		
20,500.0	12,120.0	20,875.1	12,400.0	83.3	67.1	-117.31	-7,661.9	1,399.3	611.4	477.3	134.11	4.559		
20,600.0	12,120.0	20,975.1	12,400.0	84.3	67.7	-117.30	-7,761.9	1,400.2	611.6	476.0	135.69	4.508		
20,700.0	12,120.0	21,075.1	12,400.0	85.2	68.4	-117.28	-7,861.9	1,401.1	611.9	474.7	137.27	4.458		
20,800.0	12,120.0	21,175.1	12,400.0	86.1	69.1	-117.27	-7,961.9	1,402.1	612.2	473.4	138.86	4.409		
20,900.0	12,120.0	21,275.1	12,400.0	87.0	69.7	-117.26	-8,061.9	1,403.0	612.5	472.1	140.45	4.361		
21,000.0	12,120.0	21,375.1	12,400.0	87.9	70.4	-117.24	-8,161.9	1,403.9	612.8	470.7	142.04	4.314		
21,100.0	12,120.0	21,475.1	12,400.0	88.8	71.1	-117.23	-8,261.9	1,404.9	613.1	469.4	143.63	4.268		
21,200.0	12,120.0	21,575.1	12,400.0	89.8	71.8	-117.21	-8,361.9	1,405.8	613.3	468.1	145.22	4.223		
21,300.0	12,120.0	21,675.1	12,400.0	90.7	72.5	-117.20	-8,461.9	1,406.7	613.6	466.8	146.82	4.180		
21,400.0	12,120.0	21,775.1	12,400.0	91.6	73.2	-117.19	-8,561.9	1,407.7	613.9	465.5	148.42	4.136		
21,500.0	12,120.0	21,875.1	12,400.0	92.5	73.8	-117.17	-8,661.9	1,408.6	614.2	464.2	150.02	4.094		
21,600.0	12,120.0	21,975.1	12,400.0	93.5	74.5	-117.16	-8,761.9	1,409.5	614.5	462.9	151.62	4.053		
21,700.0	12,120.0	22,075.1	12,400.0	94.4	75.2	-117.15	-8,861.8	1,410.5	614.8	461.5	153.22	4.012		
21,800.0	12,120.0	22,175.1	12,400.0	95.3	75.9	-117.13	-8,961.8	1,411.4	615.0	460.2	154.83	3.972		
21,900.0	12,120.0	22,275.1	12,400.0	96.2	76.6	-117.12	-9,061.8	1,412.3	615.3	458.9	156.44	3.933		
22,000.0	12,120.0	22,375.1	12,400.0	97.2	77.3	-117.11	-9,161.8	1,413.3	615.6	457.6	158.05	3.895		
22,100.0	12,120.0	22,475.1	12,400.0	98.1	78.0	-117.09	-9,261.8	1,414.2	615.9	456.2	159.66	3.858		
22,200.0	12,120.0	22,575.1	12,400.0	99.0	78.7	-117.08	-9,361.8	1,415.1	616.2	454.9	161.27	3.821		
22,300.0	12,120.0	22,675.1	12,400.0	100.0	79.4	-117.07	-9,461.8	1,416.1	616.5	453.6	162.88	3.785		
22,400.0	12,120.0	22,775.1	12,400.0	100.9	80.1	-117.05	-9,561.8	1,417.0	616.7	452.2	164.50	3.749		
22,500.0	12,120.0	22,875.1	12,400.0	101.8	80.8	-117.04	-9,661.8	1,417.9	617.0	450.9	166.12	3.714		
22,570.4	12,120.0	22,945.5	12,400.0	102.5	81.3	-117.03	-9,732.2	1,418.6	617.2	450.0	167.25	3.690		

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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER 35 FEDERAL COM #1H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-r.5 GYRO-NS, 4800-r.5 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)			
13,000.0	12,120.0	13,851.1	11,996.4	30.4	52.2	29.47	-1,099.5	755.7	939.9	859.4	80.57	11.667	
13,100.0	12,120.0	13,843.5	11,996.8	30.6	52.0	26.39	-1,100.0	763.2	840.9	760.7	80.18	10.487	
13,200.0	12,120.0	13,836.9	11,997.1	30.7	51.9	23.49	-1,100.4	769.8	741.9	662.2	79.77	9.301	
13,300.0	12,120.0	13,830.3	11,997.4	31.0	51.7	20.50	-1,100.8	776.3	643.3	564.0	79.28	8.114	
13,400.0	12,120.0	13,823.7	11,997.7	31.2	51.6	17.33	-1,101.2	782.9	545.1	466.4	78.66	6.929	
13,500.0	12,120.0	13,817.1	11,998.0	31.5	51.4	14.00	-1,101.6	789.6	447.5	369.7	77.81	5.752	
13,600.0	12,120.0	13,810.0	11,998.3	31.7	51.3	10.35	-1,102.1	796.6	351.2	274.7	76.48	4.592	
13,700.0	12,120.0	13,803.5	11,998.6	32.0	51.1	6.88	-1,102.5	803.1	257.6	183.4	74.15	3.473	
13,800.0	12,120.0	13,796.6	11,998.8	32.4	51.0	3.10	-1,103.0	810.0	170.9	101.8	69.13	2.473	Caution - Monitor Closely
13,900.0	12,120.0	13,789.5	11,999.1	32.7	50.8	-0.81	-1,103.4	817.1	109.6	48.4	61.14	1.792	Caution - Monitor Closely
13,936.5	12,120.0	13,786.8	11,999.2	32.8	50.7	-2.26	-1,103.6	819.7	103.3	40.3	63.05	1.639	Caution - Monitor Closely, CC, ES, SF
14,000.0	12,120.0	13,782.2	11,999.4	33.1	50.6	-4.82	-1,103.9	824.3	121.2	47.9	73.27	1.654	Caution - Monitor Closely
14,100.0	12,120.0	13,774.8	11,999.7	33.5	50.5	-8.87	-1,104.4	831.7	193.0	112.8	80.22	2.406	Caution - Monitor Closely
14,200.0	12,120.0	13,767.5	12,000.0	33.9	50.3	-12.83	-1,104.9	839.0	282.3	201.1	81.23	3.476	
14,300.0	12,120.0	13,760.2	12,000.3	34.3	50.1	-16.64	-1,105.4	846.2	376.9	295.8	81.16	4.644	
14,400.0	12,120.0	13,753.1	12,000.6	34.8	50.0	-20.29	-1,105.9	853.4	473.6	392.7	80.89	5.856	
14,500.0	12,120.0	13,746.0	12,000.8	35.3	49.8	-23.75	-1,106.3	860.4	571.4	490.8	80.58	7.090	
14,600.0	12,120.0	13,739.3	12,001.1	35.8	49.7	-26.91	-1,106.8	867.1	669.7	589.4	80.30	8.341	
14,700.0	12,120.0	13,732.7	12,001.4	36.3	49.5	-29.84	-1,107.2	873.7	768.4	688.4	80.03	9.602	
14,800.0	12,120.0	13,726.4	12,001.7	36.9	49.4	-32.54	-1,107.6	880.0	867.4	787.6	79.78	10.872	
14,900.0	12,120.0	13,720.2	12,002.0	37.4	49.3	-35.04	-1,108.0	886.1	966.5	886.9	79.56	12.149	

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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - 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		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)			
8,800.0	8,687.3	19,755.0	9,491.2	29.7	89.6	-91.26	796.3	471.2	971.7	852.4	119.33	8.143	
8,900.0	8,787.3	19,755.0	9,491.2	29.8	89.6	-91.26	796.3	471.2	876.3	756.6	119.66	7.323	
9,000.0	8,887.3	19,755.0	9,491.2	29.8	89.6	-91.26	796.3	471.2	782.1	662.0	120.08	6.513	
9,100.0	8,987.3	19,755.0	9,491.2	29.9	89.6	-91.26	796.3	471.2	689.5	568.8	120.63	5.716	
9,200.0	9,087.3	19,755.0	9,491.2	29.9	89.6	-91.26	796.3	471.2	599.3	477.9	121.38	4.937	
9,300.0	9,187.3	19,755.0	9,491.2	30.0	89.6	-91.26	796.3	471.2	512.7	390.3	122.43	4.188	
9,400.0	9,287.3	19,755.0	9,491.2	30.0	89.6	-91.26	796.3	471.2	431.9	308.0	123.93	3.485	
9,500.0	9,387.3	19,755.0	9,491.2	30.0	89.6	-91.26	796.3	471.2	361.0	235.0	126.01	2.865	Normal Operations
9,600.0	9,487.3	19,755.0	9,491.2	30.1	89.6	-91.26	796.3	471.2	306.7	178.2	128.44	2.388	Caution - Monitor Closely
9,700.0	9,587.3	19,755.0	9,491.2	30.1	89.6	-91.26	796.3	471.2	278.9	148.9	129.98	2.146	Caution - Monitor Closely
9,731.3	9,618.6	19,755.0	9,491.2	30.2	89.6	-91.26	796.3	471.2	277.1	147.2	129.98	2.132	Caution - Monitor Closely, CC, ES, SF
9,800.0	9,687.3	19,749.6	9,491.7	30.2	89.6	-92.36	791.0	471.3	285.5	156.4	129.05	2.212	Caution - Monitor Closely
9,900.0	9,787.3	19,741.1	9,492.4	30.2	89.5	-94.12	782.4	471.5	324.1	197.7	126.42	2.564	Normal Operations
10,000.0	9,887.3	19,732.5	9,493.2	30.3	89.4	-95.88	773.9	471.6	385.3	261.4	123.90	3.110	
10,100.0	9,987.3	19,724.0	9,493.9	30.3	89.4	-97.62	765.4	471.8	460.2	338.0	122.13	3.768	
10,200.0	10,087.3	19,715.4	9,494.6	30.4	89.3	-99.36	756.9	472.0	543.0	422.1	120.99	4.488	
10,300.0	10,187.3	19,706.9	9,495.4	30.4	89.2	-101.08	748.3	472.1	630.8	510.5	120.26	5.245	
10,400.0	10,287.3	19,698.3	9,496.1	30.5	89.1	-102.78	739.8	472.3	721.6	601.8	119.78	6.024	
10,500.0	10,387.3	19,690.0	9,496.8	30.5	89.1	-104.41	731.6	472.5	814.5	695.0	119.47	6.818	
10,600.0	10,487.3	19,683.1	9,497.4	30.6	89.0	-105.75	724.6	472.6	908.8	789.5	119.28	7.619	

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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM #302H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: Reference		100-r.5 SDI_KPR_WL_NS-CT, 9382-MWD+IFR1+FDIR						Rule Assigned: Distance				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	
9,400.0	9,287.3	20,229.0	10,041.0	30.0	89.4	90.32	800.8	1,041.0	924.5	805.1	119.39	7.743		
9,500.0	9,387.3	20,229.0	10,041.0	30.0	89.4	90.32	800.8	1,041.0	830.2	710.5	119.69	6.937		
9,600.0	9,487.3	20,229.0	10,041.0	30.1	89.4	90.32	800.8	1,041.0	737.5	617.4	120.08	6.142		
9,700.0	9,587.3	20,229.0	10,041.0	30.1	89.4	90.32	800.8	1,041.0	646.9	526.3	120.61	5.364		
9,800.0	9,687.3	20,229.0	10,041.0	30.2	89.4	90.32	800.8	1,041.0	559.6	438.2	121.37	4.611		
9,900.0	9,787.3	20,229.0	10,041.0	30.2	89.4	90.32	800.8	1,041.0	477.2	354.8	122.47	3.897		
10,000.0	9,887.3	20,229.0	10,041.0	30.3	89.4	90.32	800.8	1,041.0	403.0	278.9	124.11	3.247		
10,100.0	9,987.3	20,229.0	10,041.0	30.3	89.4	90.32	800.8	1,041.0	342.1	215.7	126.34	2.707	Normal Operations	
10,200.0	10,087.3	20,229.0	10,041.0	30.4	89.4	90.32	800.8	1,041.0	302.7	174.0	128.69	2.352	Caution - Monitor Closely	
10,276.9	10,164.2	20,229.0	10,041.0	30.4	89.4	90.32	800.8	1,041.0	292.8	163.1	129.70	2.257	Caution - Monitor Closely, CC, ES, SF	
10,300.0	10,187.3	20,229.0	10,041.0	30.4	89.4	90.32	800.8	1,041.0	293.7	163.9	129.75	2.263	Caution - Monitor Closely	
10,400.0	10,287.3	20,227.2	10,041.0	30.5	89.4	90.68	798.9	1,041.0	317.6	188.9	128.72	2.467	Caution - Monitor Closely	
10,500.0	10,387.3	20,225.3	10,041.1	30.5	89.4	91.03	797.1	1,041.0	368.1	241.3	126.78	2.903	Normal Operations	
10,600.0	10,487.3	20,223.5	10,041.1	30.6	89.4	91.39	795.3	1,041.0	436.0	310.9	125.05	3.487		
10,700.0	10,587.3	20,221.7	10,041.1	30.6	89.4	91.74	793.5	1,041.0	514.5	390.7	123.81	4.155		
10,800.0	10,687.3	20,219.9	10,041.2	30.7	89.4	92.10	791.7	1,041.0	599.4	476.4	122.97	4.874		
10,900.0	10,787.3	20,218.1	10,041.2	30.7	89.3	92.45	789.9	1,041.0	688.4	566.0	122.42	5.623		
11,000.0	10,887.3	20,216.3	10,041.2	30.8	89.3	92.81	788.0	1,041.0	780.0	658.0	122.06	6.390		
11,100.0	10,987.3	20,214.5	10,041.3	30.8	89.3	93.16	786.2	1,041.0	873.5	751.7	121.83	7.170		
11,200.0	11,087.3	20,212.6	10,041.3	30.9	89.3	93.51	784.4	1,040.9	968.3	846.6	121.69	7.957		

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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:		HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM #303H - OWB - AWP											Offset Site Error:		0.0 usft
Survey Program:		100-Standard Keeper 104, 8315-MWD+IFR1+FDIR							Rule Assigned:				Offset Well Error:		3.0 usft
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Semi Major Axis Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)				
8,400.0	8,287.3	19,261.0	9,069.6	29.5	89.4	-91.05	797.1	457.5	954.4	835.6	118.85	8.030			
8,500.0	8,387.3	19,261.0	9,069.6	29.6	89.4	-91.05	797.1	457.5	859.7	740.5	119.23	7.210			
8,600.0	8,487.3	19,261.0	9,069.6	29.6	89.4	-91.05	797.1	457.5	766.3	646.6	119.72	6.401			
8,700.0	8,587.3	19,261.0	9,069.6	29.7	89.4	-91.05	797.1	457.5	674.9	554.5	120.36	5.607			
8,800.0	8,687.3	19,261.0	9,069.6	29.7	89.4	-91.05	797.1	457.5	586.2	465.0	121.23	4.836			
8,900.0	8,787.3	19,261.0	9,069.6	29.8	89.4	-91.05	797.1	457.5	501.9	379.4	122.45	4.098			
9,000.0	8,887.3	19,261.0	9,069.6	29.8	89.4	-91.05	797.1	457.5	424.3	300.2	124.16	3.418			
9,100.0	8,987.3	19,261.0	9,069.6	29.9	89.4	-91.05	797.1	457.5	358.1	231.7	126.40	2.833	Normal Operations		
9,200.0	9,087.3	19,261.0	9,069.6	29.9	89.4	-91.05	797.1	457.5	310.6	181.9	128.70	2.413	Caution - Monitor Closely		
9,300.0	9,187.3	19,261.0	9,069.6	30.0	89.4	-91.05	797.1	457.5	290.9	161.3	129.64	2.244	Caution - Monitor Closely		
9,309.0	9,196.3	19,261.0	9,069.6	30.0	89.4	-91.05	797.1	457.5	290.8	161.2	129.61	2.244	Caution - Monitor Closely, CC, ES, SF		
9,400.0	9,287.3	19,260.8	9,069.6	30.0	89.4	-91.10	796.8	457.5	304.7	176.5	128.17	2.377	Caution - Monitor Closely		
9,500.0	9,387.3	19,258.2	9,069.7	30.0	89.4	-91.61	794.2	457.5	347.9	222.4	125.48	2.772	Normal Operations		
9,600.0	9,487.3	19,255.6	9,069.8	30.1	89.4	-92.12	791.6	457.6	411.3	288.2	123.13	3.341			
9,700.0	9,587.3	19,253.0	9,069.8	30.1	89.4	-92.63	789.0	457.6	487.2	365.7	121.50	4.010			
9,800.0	9,687.3	19,250.4	9,069.9	30.2	89.3	-93.14	786.4	457.6	570.5	450.1	120.47	4.736			
9,900.0	9,787.3	19,247.8	9,070.0	30.2	89.3	-93.65	783.8	457.6	658.5	538.7	119.82	5.496			
10,000.0	9,887.3	19,245.2	9,070.0	30.3	89.3	-94.16	781.2	457.7	749.5	630.1	119.41	6.277			
10,100.0	9,987.3	19,242.6	9,070.1	30.3	89.3	-94.67	778.6	457.7	842.5	723.4	119.16	7.071			
10,200.0	10,087.3	19,240.0	9,070.2	30.4	89.2	-95.18	776.0	457.7	937.0	818.0	119.00	7.874			

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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 703H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													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	
0.0	0.0	0.0	0.0	3.0	3.0	180.00	-45.0	0.0	45.0				
100.0	100.0	100.0	100.0	3.1	3.1	180.00	-45.0	0.0	45.0	38.4	6.62	6.799	
200.0	200.0	200.0	200.0	3.3	3.3	180.00	-45.0	0.0	45.0	37.9	7.07	6.363	
300.0	300.0	300.0	300.0	3.5	3.5	180.00	-45.0	0.0	45.0	37.5	7.50	6.001	
400.0	400.0	400.0	400.0	3.7	3.7	180.00	-45.0	0.0	45.0	37.1	7.90	5.693	
500.0	500.0	500.0	500.0	3.9	3.9	180.00	-45.0	0.0	45.0	36.7	8.29	5.426	
600.0	600.0	600.0	600.0	4.1	4.1	180.00	-45.0	0.0	45.0	36.3	8.67	5.193	
700.0	700.0	700.0	700.0	4.3	4.3	180.00	-45.0	0.0	45.0	36.0	9.03	4.986	
800.0	800.0	800.0	800.0	4.5	4.5	180.00	-45.0	0.0	45.0	35.6	9.37	4.801	
900.0	900.0	900.0	900.0	4.7	4.7	180.00	-45.0	0.0	45.0	35.3	9.71	4.634	
1,000.0	1,000.0	1,000.0	1,000.0	4.8	4.8	180.00	-45.0	0.0	45.0	35.0	10.04	4.482	
1,100.0	1,100.0	1,100.0	1,100.0	5.0	5.0	180.00	-45.0	0.0	45.0	34.6	10.36	4.344	
1,200.0	1,200.0	1,200.0	1,200.0	5.2	5.2	180.00	-45.0	0.0	45.0	34.3	10.67	4.217	
1,300.0	1,300.0	1,300.0	1,300.0	5.3	5.3	180.00	-45.0	0.0	45.0	34.0	10.98	4.099	
1,400.0	1,400.0	1,400.0	1,400.0	5.5	5.5	180.00	-45.0	0.0	45.0	33.7	11.28	3.990	
1,500.0	1,500.0	1,500.0	1,500.0	5.6	5.6	180.00	-45.0	0.0	45.0	33.4	11.57	3.889	
1,600.0	1,600.0	1,601.5	1,601.5	5.8	5.8	137.88	-43.3	0.5	44.6	32.6	11.98	3.721	
1,700.0	1,699.8	1,703.0	1,702.8	6.1	6.1	140.62	-38.1	2.1	43.4	31.0	12.41	3.500	
1,800.0	1,799.5	1,804.4	1,803.8	6.3	6.3	145.50	-29.5	4.7	41.7	28.8	12.87	3.240	
1,900.0	1,898.7	1,905.7	1,904.3	6.6	6.6	152.93	-17.6	8.4	39.8	26.4	13.38	2.976 Normal Operations	
2,000.0	1,997.5	2,006.8	2,004.2	6.9	6.9	163.25	-2.2	13.1	38.5	24.5	13.95	2.760 Normal Operations	
2,045.4	2,042.1	2,052.6	2,049.2	7.0	7.1	168.87	5.8	15.5	38.3	24.1	14.21	2.696 Normal Operations, CC, ES	
2,100.0	2,095.6	2,107.7	2,103.2	7.2	7.2	176.23	16.4	18.8	38.6	24.1	14.48	2.667 Normal Operations	
2,125.0	2,120.1	2,132.9	2,127.8	7.2	7.3	179.76	21.6	20.4	39.0	24.5	14.54	2.683 Normal Operations	
2,200.0	2,193.3	2,207.8	2,200.7	7.4	7.5	-169.82	37.6	25.3	40.7	26.0	14.73	2.764 Normal Operations	
2,300.0	2,290.9	2,307.3	2,297.7	7.7	7.7	-157.67	59.0	31.8	44.8	29.8	14.97	2.993 Normal Operations	
2,400.0	2,388.5	2,406.8	2,394.6	8.0	8.0	-147.90	80.5	38.4	50.6	35.4	15.16	3.336	
2,500.0	2,486.2	2,506.3	2,491.6	8.3	8.4	-140.28	101.9	44.9	57.5	42.1	15.34	3.748	
2,600.0	2,583.8	2,605.8	2,588.5	8.7	8.7	-134.37	123.3	51.4	65.2	49.6	15.53	4.196	
2,700.0	2,681.4	2,705.3	2,685.5	9.0	9.1	-129.74	144.7	58.0	73.4	57.7	15.75	4.661	
2,800.0	2,779.1	2,804.8	2,782.4	9.4	9.4	-126.07	166.1	64.5	82.0	66.0	16.00	5.129	
2,900.0	2,876.7	2,904.3	2,879.4	9.7	9.8	-123.10	187.5	71.1	90.9	74.7	16.26	5.592	
3,000.0	2,974.3	3,003.8	2,976.3	10.1	10.2	-120.66	208.9	77.6	100.0	83.5	16.55	6.045	
3,100.0	3,071.9	3,103.3	3,073.3	10.5	10.6	-118.64	230.3	84.2	109.3	92.4	16.85	6.486	
3,200.0	3,169.6	3,202.8	3,170.3	10.9	11.0	-116.93	251.7	90.7	118.6	101.5	17.16	6.912	
3,300.0	3,267.2	3,302.3	3,267.2	11.3	11.4	-115.47	273.1	97.3	128.1	110.6	17.49	7.324	
3,400.0	3,364.8	3,401.8	3,364.2	11.7	11.8	-114.21	294.5	103.8	137.6	119.8	17.82	7.721	
3,500.0	3,462.5	3,501.3	3,461.1	12.1	12.2	-113.12	315.9	110.3	147.2	129.0	18.17	8.102	
3,600.0	3,560.1	3,600.8	3,558.1	12.5	12.6	-112.15	337.3	116.9	156.8	138.3	18.52	8.468	
3,700.0	3,657.7	3,700.3	3,655.0	12.9	13.0	-111.31	358.7	123.4	166.5	147.6	18.88	8.820	
3,800.0	3,755.3	3,799.8	3,752.0	13.4	13.4	-110.55	380.1	130.0	176.2	156.9	19.24	9.158	
3,900.0	3,853.0	3,899.3	3,848.9	13.8	13.9	-109.87	401.5	136.5	185.9	166.3	19.61	9.481	
4,000.0	3,950.6	3,998.8	3,945.9	14.2	14.3	-109.26	422.9	143.1	195.6	175.7	19.98	9.792	
4,100.0	4,048.2	4,098.3	4,042.8	14.7	14.7	-108.71	444.3	149.6	205.4	185.1	20.36	10.090	
4,200.0	4,145.9	4,197.8	4,139.8	15.1	15.2	-108.21	465.7	156.2	215.2	194.5	20.74	10.375	
4,300.0	4,243.5	4,297.3	4,236.7	15.5	15.6	-107.75	487.2	162.7	225.0	203.9	21.13	10.650	
4,400.0	4,341.1	4,396.8	4,333.7	16.0	16.1	-107.33	508.6	169.2	234.8	213.3	21.52	10.913	
4,500.0	4,438.8	4,496.3	4,430.6	16.4	16.5	-106.95	530.0	175.8	244.6	222.7	21.91	11.166	
4,600.0	4,536.4	4,595.8	4,527.6	16.9	17.0	-106.59	551.4	182.3	254.5	232.2	22.30	11.408	
4,700.0	4,634.0	4,695.3	4,624.5	17.3	17.4	-106.26	572.8	188.9	264.3	241.6	22.70	11.642	
4,800.0	4,731.6	4,794.9	4,721.5	17.8	17.9	-105.95	594.2	195.4	274.2	251.0	23.10	11.866	
4,900.0	4,829.3	4,894.4	4,818.5	18.2	18.3	-105.67	615.6	202.0	284.0	260.5	23.51	12.082	

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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 703H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													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)			
5,000.0	4,926.9	4,993.9	4,915.4	18.7	18.8	-105.40	637.0	208.5	293.9	270.0	23.91	12.289	
5,100.0	5,024.5	5,093.5	5,012.5	19.1	19.2	-105.16	658.4	215.1	303.7	279.4	24.30	12.498	
5,200.0	5,122.2	5,194.0	5,110.6	19.6	19.7	-105.12	679.0	221.3	313.4	288.7	24.72	12.677	
5,300.0	5,219.8	5,294.5	5,209.2	20.0	20.1	-105.40	697.9	227.1	322.8	297.6	25.14	12.841	
5,400.0	5,317.4	5,395.0	5,308.1	20.5	20.6	-105.96	715.2	232.4	331.9	306.3	25.55	12.987	
5,500.0	5,415.1	5,495.4	5,407.2	21.0	21.0	-106.78	730.8	237.2	340.7	314.7	25.98	13.115	
5,600.0	5,512.7	5,595.7	5,506.4	21.4	21.4	-107.85	744.8	241.5	349.4	323.0	26.42	13.224	
5,700.0	5,610.3	5,695.8	5,605.6	21.9	21.8	-109.14	757.0	245.2	358.0	331.1	26.89	13.313	
5,800.0	5,707.9	5,795.6	5,704.8	22.3	22.2	-110.64	767.6	248.4	366.6	339.2	27.40	13.378	
5,900.0	5,805.6	5,895.0	5,803.8	22.8	22.6	-112.32	776.4	251.1	375.4	347.4	27.97	13.420	
6,000.0	5,903.2	5,994.1	5,902.6	23.3	23.0	-114.18	783.6	253.3	384.4	355.8	28.61	13.437	
6,100.0	6,000.8	6,092.8	6,001.1	23.7	23.3	-116.19	789.2	255.0	393.8	364.5	29.32	13.430	
6,200.0	6,098.5	6,190.9	6,099.1	24.2	23.7	-118.34	793.1	256.2	403.8	373.6	30.13	13.401	
6,252.8	6,150.0	6,242.5	6,150.7	24.4	23.8	-119.52	794.5	256.7	409.3	378.7	30.58	13.384	
6,300.0	6,196.1	6,288.5	6,196.7	24.6	23.9	-120.62	795.4	256.9	414.3	383.3	31.00	13.366	
6,400.0	6,294.1	6,385.9	6,294.1	25.1	24.1	-122.88	796.1	257.2	424.9	393.0	31.93	13.310	
6,500.0	6,392.4	6,484.2	6,392.4	25.5	24.1	-124.96	796.1	257.2	435.2	402.4	32.87	13.242	
6,600.0	6,491.0	6,582.8	6,491.0	26.0	24.2	-126.77	796.1	257.2	445.0	411.3	33.77	13.179	
6,700.0	6,589.9	6,681.7	6,589.9	26.4	24.2	-128.33	796.1	257.2	454.1	419.5	34.62	13.119	
6,800.0	6,689.1	6,780.9	6,689.1	26.8	24.3	-129.67	796.1	257.2	462.4	427.0	35.41	13.060	
6,900.0	6,788.4	6,880.2	6,788.4	27.2	24.3	-130.78	796.1	257.2	469.8	433.7	36.14	13.000	
7,000.0	6,888.0	6,979.8	6,888.0	27.6	24.4	-131.71	796.1	257.2	476.2	439.4	36.81	12.937	
7,100.0	6,987.6	7,079.4	6,987.6	28.0	24.4	-132.45	796.1	257.2	481.5	444.1	37.41	12.871	
7,200.0	7,087.5	7,179.3	7,087.5	28.4	24.5	-133.01	796.1	257.2	485.6	447.7	37.94	12.801	
7,300.0	7,187.4	7,279.2	7,187.4	28.7	24.5	-133.41	796.1	257.2	488.7	450.3	38.40	12.727	
7,400.0	7,287.3	7,379.1	7,287.3	29.0	24.6	-133.65	796.1	257.2	490.5	451.7	38.77	12.650	
7,500.0	7,387.3	7,479.1	7,387.3	29.1	24.6	-133.73	796.1	257.2	491.1	452.1	39.00	12.594	
7,502.8	7,390.1	7,481.9	7,390.1	29.2	24.6	-90.73	796.1	257.2	491.1	452.1	39.00	12.592	
7,600.0	7,487.3	7,579.1	7,487.3	29.2	24.7	-90.73	796.1	257.2	491.1	452.0	39.11	12.559	
7,700.0	7,587.3	7,679.1	7,587.3	29.2	24.7	-90.73	796.1	257.2	491.1	451.9	39.22	12.524	
7,800.0	7,687.3	7,779.1	7,687.3	29.3	24.8	-90.73	796.1	257.2	491.1	451.8	39.33	12.489	
7,900.0	7,787.3	7,879.1	7,787.3	29.3	24.8	-90.73	796.1	257.2	491.1	451.7	39.44	12.454	
8,000.0	7,887.3	7,979.1	7,887.3	29.4	24.9	-90.73	796.1	257.2	491.1	451.6	39.55	12.419	
8,100.0	7,987.3	8,079.1	7,987.3	29.4	24.9	-90.73	796.1	257.2	491.1	451.5	39.66	12.384	
8,200.0	8,087.3	8,179.1	8,087.3	29.5	25.0	-90.73	796.1	257.2	491.1	451.4	39.77	12.349	
8,300.0	8,187.3	8,279.1	8,187.3	29.5	25.0	-90.73	796.1	257.2	491.1	451.3	39.88	12.315	
8,400.0	8,287.3	8,379.1	8,287.3	29.5	25.1	-90.73	796.1	257.2	491.1	451.1	39.99	12.280	
8,500.0	8,387.3	8,479.1	8,387.3	29.6	25.1	-90.73	796.1	257.2	491.1	451.0	40.11	12.246	
8,600.0	8,487.3	8,579.1	8,487.3	29.6	25.2	-90.73	796.1	257.2	491.1	450.9	40.22	12.212	
8,700.0	8,587.3	8,679.1	8,587.3	29.7	25.2	-90.73	796.1	257.2	491.1	450.8	40.33	12.177	
8,800.0	8,687.3	8,779.1	8,687.3	29.7	25.3	-90.73	796.1	257.2	491.1	450.7	40.44	12.143	
8,900.0	8,787.3	8,879.1	8,787.3	29.8	25.3	-90.73	796.1	257.2	491.1	450.6	40.56	12.109	
9,000.0	8,887.3	8,979.1	8,887.3	29.8	25.4	-90.73	796.1	257.2	491.1	450.5	40.67	12.075	
9,100.0	8,987.3	9,079.1	8,987.3	29.9	25.4	-90.73	796.1	257.2	491.1	450.3	40.79	12.042	
9,200.0	9,087.3	9,179.1	9,087.3	29.9	25.5	-90.73	796.1	257.2	491.1	450.2	40.90	12.008	
9,300.0	9,187.3	9,279.1	9,187.3	30.0	25.5	-90.73	796.1	257.2	491.1	450.1	41.02	11.974	
9,400.0	9,287.3	9,379.1	9,287.3	30.0	25.6	-90.73	796.1	257.2	491.1	450.0	41.13	11.941	
9,500.0	9,387.3	9,479.1	9,387.3	30.0	25.6	-90.73	796.1	257.2	491.1	449.9	41.25	11.907	
9,600.0	9,487.3	9,579.1	9,487.3	30.1	25.7	-90.73	796.1	257.2	491.1	449.8	41.36	11.874	
9,700.0	9,587.3	9,679.1	9,587.3	30.1	25.7	-90.73	796.1	257.2	491.1	449.7	41.48	11.841	
9,800.0	9,687.3	9,779.1	9,687.3	30.2	25.8	-90.73	796.1	257.2	491.1	449.5	41.60	11.807	
9,900.0	9,787.3	9,879.1	9,787.3	30.2	25.8	-90.73	796.1	257.2	491.1	449.4	41.71	11.774	

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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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)			
10,000.0	9,887.3	9,979.1	9,887.3	30.3	25.9	-90.73	796.1	257.2	491.1	449.3	41.83	11.741	
10,100.0	9,987.3	10,079.1	9,987.3	30.3	25.9	-90.73	796.1	257.2	491.1	449.2	41.95	11.709	
10,200.0	10,087.3	10,179.1	10,087.3	30.4	26.0	-90.73	796.1	257.2	491.1	449.1	42.06	11.676	
10,300.0	10,187.3	10,279.1	10,187.3	30.4	26.0	-90.73	796.1	257.2	491.1	449.0	42.18	11.643	
10,400.0	10,287.3	10,379.1	10,287.3	30.5	26.1	-90.73	796.1	257.2	491.1	448.8	42.30	11.611	
10,500.0	10,387.3	10,479.1	10,387.3	30.5	26.1	-90.73	796.1	257.2	491.1	448.7	42.42	11.578	
10,600.0	10,487.3	10,579.1	10,487.3	30.6	26.2	-90.73	796.1	257.2	491.1	448.6	42.54	11.546	
10,700.0	10,587.3	10,679.1	10,587.3	30.6	26.3	-90.73	796.1	257.2	491.1	448.5	42.66	11.514	
10,800.0	10,687.3	10,779.1	10,687.3	30.7	26.3	-90.73	796.1	257.2	491.1	448.4	42.78	11.482	
10,900.0	10,787.3	10,879.1	10,787.3	30.7	26.4	-90.73	796.1	257.2	491.1	448.2	42.90	11.450	
11,000.0	10,887.3	10,979.1	10,887.3	30.8	26.4	-90.73	796.1	257.2	491.1	448.1	43.02	11.418	
11,100.0	10,987.3	11,079.1	10,987.3	30.8	26.5	-90.73	796.1	257.2	491.1	448.0	43.14	11.386	
11,200.0	11,087.3	11,179.1	11,087.3	30.9	26.5	-90.73	796.1	257.2	491.1	447.9	43.26	11.354	
11,300.0	11,187.3	11,279.1	11,187.3	30.9	26.6	-90.73	796.1	257.2	491.1	447.8	43.38	11.323	
11,400.0	11,287.3	11,379.1	11,287.3	31.0	26.6	-90.73	796.1	257.2	491.1	447.6	43.50	11.291	
11,500.0	11,387.3	11,479.1	11,387.3	31.0	26.7	-90.73	796.1	257.2	491.1	447.5	43.62	11.260	
11,600.0	11,487.3	11,579.1	11,487.3	31.1	26.7	-90.73	796.1	257.2	491.1	447.4	43.74	11.228	
11,700.0	11,587.3	11,679.1	11,587.3	31.1	26.8	-90.73	796.1	257.2	491.1	447.3	43.86	11.197	
11,755.2	11,642.5	11,734.3	11,642.5	31.1	26.8	-90.73	796.1	257.2	491.1	447.2	43.92	11.183	
11,775.0	11,662.3	11,754.1	11,662.3	31.1	26.8	94.91	796.1	257.2	491.2	447.2	43.93	11.180	
11,800.0	11,687.3	11,779.1	11,687.3	31.1	26.9	95.09	796.1	257.2	491.3	447.4	43.89	11.196	
11,825.0	11,712.1	11,803.9	11,712.1	31.0	26.9	95.40	796.1	257.2	491.6	447.8	43.79	11.227	
11,850.0	11,736.7	11,828.5	11,736.7	30.9	26.9	95.84	796.1	257.2	492.0	448.4	43.64	11.275	
11,875.0	11,761.1	11,852.9	11,761.1	30.9	26.9	96.39	796.1	257.2	492.6	449.2	43.44	11.339	
11,900.0	11,785.1	11,876.9	11,785.1	30.8	26.9	97.05	796.1	257.2	493.5	450.3	43.21	11.421	
11,925.0	11,808.8	11,900.6	11,808.8	30.7	26.9	97.80	796.1	257.2	494.6	451.6	42.93	11.521	
11,950.0	11,832.0	11,923.8	11,832.0	30.6	26.9	98.62	796.1	257.2	496.0	453.4	42.62	11.639	
11,975.0	11,854.6	11,946.4	11,854.6	30.6	26.9	99.49	796.1	257.2	497.8	455.6	42.27	11.777	
12,000.0	11,876.7	11,968.5	11,876.7	30.5	27.0	100.40	796.1	257.2	500.1	458.2	41.90	11.936	
12,025.0	11,898.2	11,990.0	11,898.2	30.4	27.0	101.31	796.1	257.2	502.9	461.4	41.51	12.115	
12,050.0	11,918.9	12,010.7	11,918.9	30.3	27.0	102.20	796.1	257.2	506.3	465.2	41.10	12.318	
12,075.0	11,938.9	12,039.7	11,947.9	30.3	26.9	103.62	795.4	257.3	510.2	469.4	40.76	12.516	
12,100.0	11,958.1	12,072.2	11,980.3	30.2	26.9	105.18	792.6	257.7	514.3	473.8	40.51	12.696	
12,125.0	11,976.4	12,106.7	12,014.4	30.1	26.7	106.76	787.3	258.5	518.7	478.3	40.35	12.853	
12,150.0	11,993.8	12,143.5	12,050.1	30.1	26.6	108.37	778.9	259.7	523.1	482.8	40.31	12.977	
12,175.0	12,010.3	12,182.8	12,087.5	30.0	26.5	110.00	767.0	261.5	527.5	487.1	40.40	13.057	
12,200.0	12,025.7	12,224.8	12,126.2	30.0	26.3	111.64	751.0	263.9	531.9	491.3	40.66	13.082	
12,225.0	12,040.1	12,269.8	12,166.0	29.9	26.2	113.27	730.1	267.0	536.1	495.0	41.11	13.042	
12,250.0	12,053.4	12,318.1	12,206.2	29.9	26.0	114.86	703.7	271.0	540.0	498.2	41.77	12.927	
12,275.0	12,065.6	12,369.6	12,245.9	29.8	25.8	116.37	671.3	275.8	543.4	500.7	42.68	12.733	
12,300.0	12,076.6	12,424.4	12,284.0	29.8	25.6	117.75	632.4	281.6	546.2	502.4	43.83	12.464	
12,325.0	12,086.4	12,482.1	12,319.0	29.8	25.5	118.96	587.1	288.4	548.3	503.1	45.20	12.131	
12,350.0	12,095.0	12,542.2	12,349.3	29.7	25.4	119.93	535.7	296.1	549.6	502.8	46.76	11.754	
12,375.0	12,102.4	12,604.2	12,373.4	29.7	25.3	120.62	479.3	304.5	549.8	501.4	48.42	11.357	
12,400.0	12,108.5	12,666.9	12,390.1	29.7	25.2	120.99	419.6	313.4	549.1	499.0	50.09	10.963	
12,425.0	12,113.3	12,729.4	12,398.7	29.7	25.2	121.03	358.4	322.6	547.3	495.6	51.67	10.592	
12,450.0	12,116.8	12,773.6	12,400.0	29.7	25.2	120.95	314.8	329.1	544.7	492.2	52.49	10.376	
12,475.0	12,119.0	12,795.0	12,400.0	29.7	25.2	121.05	293.6	332.1	542.6	490.1	52.49	10.336	
12,500.0	12,120.0	12,816.4	12,400.0	29.7	25.2	121.15	272.3	335.0	541.3	488.8	52.52	10.307	
12,505.2	12,120.0	12,820.9	12,400.0	29.7	25.2	121.17	267.8	335.5	541.2	488.7	52.53	10.302	
12,600.0	12,120.0	12,900.0	12,400.0	29.8	25.3	121.34	189.3	344.6	538.5	485.9	52.63	10.232	
12,700.0	12,120.0	12,988.7	12,400.0	30.0	25.3	121.56	100.9	352.2	535.3	482.3	52.98	10.104	

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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 703H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													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)			
12,767.6	12,120.0	13,046.9	12,400.0	30.0	25.4	121.72	42.8	355.7	532.9	479.7	53.15	10.025	
12,800.0	12,120.0	13,074.9	12,400.0	30.1	25.4	121.79	14.8	356.9	531.8	478.6	53.23	9.990	
12,900.0	12,120.0	13,161.3	12,400.0	30.2	25.4	121.88	-71.5	359.1	530.2	476.7	53.47	9.915	
12,938.2	12,120.0	13,197.9	12,400.0	30.3	25.5	121.88	-108.1	359.3	530.2	476.5	53.72	9.870	
13,000.0	12,120.0	13,259.7	12,400.0	30.4	25.5	121.88	-169.9	359.7	530.2	475.9	54.24	9.775	
13,100.0	12,120.0	13,359.7	12,400.0	30.6	25.6	121.88	-269.9	360.3	530.2	475.1	55.12	9.619	
13,200.0	12,120.0	13,459.7	12,400.0	30.7	25.7	121.88	-369.9	360.9	530.2	474.1	56.04	9.460	
13,300.0	12,120.0	13,559.7	12,400.0	31.0	25.8	121.88	-469.9	361.5	530.2	473.2	57.01	9.299	
13,400.0	12,120.0	13,659.7	12,400.0	31.2	25.9	121.88	-569.9	362.2	530.2	472.2	58.02	9.137	
13,500.0	12,120.0	13,759.7	12,400.0	31.5	26.1	121.88	-669.9	362.8	530.2	471.1	59.07	8.975	
13,600.0	12,120.0	13,859.7	12,400.0	31.7	26.3	121.88	-769.9	363.4	530.2	470.0	60.16	8.813	
13,700.0	12,120.0	13,959.7	12,400.0	32.0	26.5	121.88	-869.9	364.0	530.2	468.9	61.28	8.652	
13,800.0	12,120.0	14,059.7	12,400.0	32.4	26.8	121.88	-969.9	364.6	530.2	467.7	62.43	8.493	
13,900.0	12,120.0	14,159.7	12,400.0	32.7	27.1	121.88	-1,069.9	365.2	530.2	466.6	63.61	8.335	
14,000.0	12,120.0	14,259.7	12,400.0	33.1	27.4	121.88	-1,169.9	365.9	530.2	465.3	64.82	8.179	
14,100.0	12,120.0	14,359.7	12,400.0	33.5	27.8	121.88	-1,269.9	366.5	530.2	464.1	66.06	8.025	
14,200.0	12,120.0	14,459.7	12,400.0	33.9	28.3	121.88	-1,369.9	367.1	530.2	462.8	67.33	7.874	
14,300.0	12,120.0	14,559.7	12,400.0	34.3	28.8	121.88	-1,469.9	367.7	530.2	461.5	68.62	7.726	
14,400.0	12,120.0	14,659.7	12,400.0	34.8	29.3	121.88	-1,569.9	368.3	530.2	460.2	69.93	7.581	
14,500.0	12,120.0	14,759.7	12,400.0	35.3	29.9	121.88	-1,669.9	368.9	530.2	458.9	71.27	7.439	
14,600.0	12,120.0	14,859.7	12,400.0	35.8	30.5	121.88	-1,769.9	369.6	530.2	457.5	72.63	7.300	
14,700.0	12,120.0	14,959.7	12,400.0	36.3	31.1	121.88	-1,869.9	370.2	530.2	456.1	74.00	7.164	
14,800.0	12,120.0	15,059.7	12,400.0	36.9	31.8	121.88	-1,969.9	370.8	530.2	454.8	75.40	7.031	
14,900.0	12,120.0	15,159.7	12,400.0	37.4	32.5	121.88	-2,069.9	371.4	530.1	453.3	76.81	6.902	
15,000.0	12,120.0	15,259.7	12,400.0	38.0	33.2	121.88	-2,169.9	372.0	530.1	451.9	78.24	6.776	
15,100.0	12,120.0	15,359.7	12,400.0	38.6	33.9	121.88	-2,269.9	372.7	530.1	450.5	79.68	6.653	
15,200.0	12,120.0	15,459.7	12,400.0	39.2	34.7	121.88	-2,369.9	373.3	530.1	449.0	81.14	6.533	
15,300.0	12,120.0	15,559.7	12,400.0	39.9	35.5	121.88	-2,469.9	373.9	530.1	447.5	82.62	6.417	
15,400.0	12,120.0	15,659.7	12,400.0	40.5	36.2	121.88	-2,569.9	374.5	530.1	446.0	84.10	6.303	
15,500.0	12,120.0	15,759.7	12,400.0	41.2	37.0	121.88	-2,669.9	375.1	530.1	444.5	85.60	6.193	
15,600.0	12,120.0	15,859.7	12,400.0	41.9	37.8	121.88	-2,769.9	375.7	530.1	443.0	87.11	6.086	
15,700.0	12,120.0	15,959.7	12,400.0	42.6	38.6	121.88	-2,869.9	376.4	530.1	441.5	88.64	5.981	
15,800.0	12,120.0	16,059.7	12,400.0	43.3	39.5	121.88	-2,969.8	377.0	530.1	440.0	90.17	5.879	
15,900.0	12,120.0	16,159.7	12,400.0	44.0	40.3	121.88	-3,069.8	377.6	530.1	438.4	91.71	5.780	
16,000.0	12,120.0	16,259.7	12,400.0	44.8	41.1	121.88	-3,169.8	378.2	530.1	436.9	93.27	5.684	
16,100.0	12,120.0	16,359.7	12,400.0	45.5	42.0	121.88	-3,269.8	378.8	530.1	435.3	94.83	5.590	
16,200.0	12,120.0	16,459.7	12,400.0	46.3	42.8	121.88	-3,369.8	379.4	530.1	433.7	96.40	5.499	
16,300.0	12,120.0	16,559.7	12,400.0	47.0	43.7	121.88	-3,469.8	380.1	530.1	432.1	97.98	5.411	
16,400.0	12,120.0	16,659.7	12,400.0	47.8	44.5	121.88	-3,569.8	380.7	530.1	430.6	99.57	5.324	
16,500.0	12,120.0	16,759.7	12,400.0	48.6	45.4	121.88	-3,669.8	381.3	530.1	429.0	101.16	5.240	
16,600.0	12,120.0	16,859.7	12,400.0	49.4	46.3	121.88	-3,769.8	381.9	530.1	427.4	102.76	5.159	
16,700.0	12,120.0	16,959.7	12,400.0	50.2	47.1	121.88	-3,869.8	382.5	530.1	425.7	104.37	5.079	
16,800.0	12,120.0	17,059.7	12,400.0	51.0	48.0	121.88	-3,969.8	383.2	530.1	424.1	105.99	5.002	
16,900.0	12,120.0	17,159.7	12,400.0	51.8	48.9	121.88	-4,069.8	383.8	530.1	422.5	107.61	4.926	
17,000.0	12,120.0	17,259.7	12,400.0	52.6	49.8	121.88	-4,169.8	384.4	530.1	420.9	109.24	4.853	
17,100.0	12,120.0	17,359.7	12,400.0	53.4	50.7	121.88	-4,269.8	385.0	530.1	419.2	110.87	4.781	
17,200.0	12,120.0	17,459.7	12,400.0	54.2	51.6	121.88	-4,369.8	385.6	530.1	417.6	112.51	4.712	
17,300.0	12,120.0	17,559.7	12,400.0	55.1	52.4	121.88	-4,469.8	386.2	530.1	416.0	114.15	4.644	
17,400.0	12,120.0	17,659.7	12,400.0	55.9	53.3	121.88	-4,569.8	386.9	530.1	414.3	115.80	4.578	
17,500.0	12,120.0	17,759.7	12,400.0	56.7	54.2	121.88	-4,669.8	387.5	530.1	412.6	117.46	4.513	
17,600.0	12,120.0	17,859.7	12,400.0	57.6	55.1	121.88	-4,769.8	388.1	530.1	411.0	119.12	4.450	
17,700.0	12,120.0	17,959.7	12,400.0	58.4	56.0	121.88	-4,869.8	388.7	530.1	409.3	120.78	4.389	

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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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)			
17,800.0	12,120.0	18,059.7	12,400.0	59.3	57.0	121.88	-4,969.8	389.3	530.1	407.6	122.45	4.329	
17,900.0	12,120.0	18,159.7	12,400.0	60.1	57.9	121.88	-5,069.8	389.9	530.1	406.0	124.12	4.271	
18,000.0	12,120.0	18,259.7	12,400.0	61.0	58.8	121.88	-5,169.8	390.6	530.1	404.3	125.79	4.214	
18,100.0	12,120.0	18,359.7	12,400.0	61.9	59.7	121.88	-5,269.8	391.2	530.1	402.6	127.47	4.158	
18,200.0	12,120.0	18,459.7	12,400.0	62.7	60.6	121.88	-5,369.8	391.8	530.1	400.9	129.15	4.104	
18,300.0	12,120.0	18,559.7	12,400.0	63.6	61.5	121.88	-5,469.8	392.4	530.1	399.2	130.84	4.051	
18,400.0	12,120.0	18,659.7	12,400.0	64.5	62.4	121.89	-5,569.8	393.0	530.1	397.6	132.53	4.000	
18,500.0	12,120.0	18,759.7	12,400.0	65.4	63.3	121.89	-5,669.8	393.7	530.1	395.9	134.22	3.949	
18,600.0	12,120.0	18,859.7	12,400.0	66.2	64.3	121.89	-5,769.8	394.3	530.1	394.2	135.92	3.900	
18,700.0	12,120.0	18,959.7	12,400.0	67.1	65.2	121.89	-5,869.8	394.9	530.1	392.5	137.62	3.852	
18,800.0	12,120.0	19,059.7	12,400.0	68.0	66.1	121.89	-5,969.8	395.5	530.1	390.8	139.32	3.805	
18,900.0	12,120.0	19,159.7	12,400.0	68.9	67.0	121.89	-6,069.8	396.1	530.1	389.1	141.02	3.759	
19,000.0	12,120.0	19,259.7	12,400.0	69.8	68.0	121.89	-6,169.8	396.7	530.1	387.3	142.73	3.714	
19,100.0	12,120.0	19,359.7	12,400.0	70.7	68.9	121.89	-6,269.8	397.4	530.1	385.6	144.44	3.670	
19,200.0	12,120.0	19,459.7	12,400.0	71.6	69.8	121.89	-6,369.8	398.0	530.1	383.9	146.15	3.627	
19,300.0	12,120.0	19,559.7	12,400.0	72.5	70.7	121.89	-6,469.8	398.6	530.1	382.2	147.86	3.585	
19,400.0	12,120.0	19,659.7	12,400.0	73.4	71.7	121.89	-6,569.8	399.2	530.1	380.5	149.58	3.544	
19,500.0	12,120.0	19,759.7	12,400.0	74.3	72.6	121.89	-6,669.8	399.8	530.1	378.8	151.30	3.503	
19,600.0	12,120.0	19,859.7	12,400.0	75.2	73.5	121.89	-6,769.8	400.4	530.1	377.0	153.02	3.464	
19,700.0	12,120.0	19,959.7	12,400.0	76.1	74.5	121.89	-6,869.8	401.1	530.1	375.3	154.74	3.425	
19,800.0	12,120.0	20,059.7	12,400.0	77.0	75.4	121.89	-6,969.8	401.7	530.1	373.6	156.47	3.388	
19,900.0	12,120.0	20,159.7	12,400.0	77.9	76.3	121.89	-7,069.8	402.3	530.1	371.9	158.19	3.351	
20,000.0	12,120.0	20,259.7	12,400.0	78.8	77.2	121.89	-7,169.8	402.9	530.1	370.1	159.92	3.314	
20,100.0	12,120.0	20,359.7	12,400.0	79.7	78.2	121.89	-7,269.8	403.5	530.1	368.4	161.65	3.279	
20,200.0	12,120.0	20,459.7	12,400.0	80.6	79.1	121.89	-7,369.8	404.2	530.1	366.7	163.38	3.244	
20,300.0	12,120.0	20,559.7	12,400.0	81.5	80.1	121.89	-7,469.8	404.8	530.1	364.9	165.12	3.210	
20,400.0	12,120.0	20,659.7	12,400.0	82.4	81.0	121.89	-7,569.8	405.4	530.0	363.2	166.85	3.177	
20,500.0	12,120.0	20,759.7	12,400.0	83.3	81.9	121.89	-7,669.8	406.0	530.0	361.5	168.59	3.144	
20,600.0	12,120.0	20,859.7	12,400.0	84.3	82.9	121.89	-7,769.8	406.6	530.0	359.7	170.33	3.112	
20,700.0	12,120.0	20,959.7	12,400.0	85.2	83.8	121.89	-7,869.8	407.2	530.0	358.0	172.07	3.080	
20,800.0	12,120.0	21,059.7	12,400.0	86.1	84.7	121.89	-7,969.8	407.9	530.0	356.2	173.81	3.050	
20,900.0	12,120.0	21,159.7	12,400.0	87.0	85.7	121.89	-8,069.8	408.5	530.0	354.5	175.55	3.019	
21,000.0	12,120.0	21,259.7	12,400.0	87.9	86.6	121.89	-8,169.7	409.1	530.0	352.7	177.30	2.990 Normal Operations	
21,100.0	12,120.0	21,359.7	12,400.0	88.8	87.6	121.89	-8,269.7	409.7	530.0	351.0	179.04	2.960 Normal Operations	
21,200.0	12,120.0	21,459.7	12,400.0	89.8	88.5	121.89	-8,369.7	410.3	530.0	349.2	180.79	2.932 Normal Operations	
21,300.0	12,120.0	21,559.7	12,400.0	90.7	89.4	121.89	-8,469.7	411.0	530.0	347.5	182.54	2.904 Normal Operations	
21,400.0	12,120.0	21,659.7	12,400.0	91.6	90.4	121.89	-8,569.7	411.6	530.0	345.7	184.29	2.876 Normal Operations	
21,500.0	12,120.0	21,759.7	12,400.0	92.5	91.3	121.89	-8,669.7	412.2	530.0	344.0	186.04	2.849 Normal Operations	
21,600.0	12,120.0	21,859.7	12,400.0	93.5	92.3	121.89	-8,769.7	412.8	530.0	342.2	187.79	2.822 Normal Operations	
21,700.0	12,120.0	21,959.7	12,400.0	94.4	93.2	121.89	-8,869.7	413.4	530.0	340.5	189.54	2.796 Normal Operations	
21,800.0	12,120.0	22,059.7	12,400.0	95.3	94.2	121.89	-8,969.7	414.0	530.0	338.7	191.30	2.771 Normal Operations	
21,900.0	12,120.0	22,159.7	12,400.0	96.2	95.1	121.89	-9,069.7	414.7	530.0	337.0	193.05	2.745 Normal Operations	
22,000.0	12,120.0	22,259.7	12,400.0	97.2	96.1	121.89	-9,169.7	415.3	530.0	335.2	194.81	2.721 Normal Operations	
22,100.0	12,120.0	22,359.7	12,400.0	98.1	97.0	121.89	-9,269.7	415.9	530.0	333.5	196.57	2.696 Normal Operations	
22,200.0	12,120.0	22,459.7	12,400.0	99.0	97.9	121.89	-9,369.7	416.5	530.0	331.7	198.32	2.672 Normal Operations	
22,300.0	12,120.0	22,559.7	12,400.0	100.0	98.9	121.89	-9,469.7	417.1	530.0	329.9	200.08	2.649 Normal Operations	
22,400.0	12,120.0	22,659.7	12,400.0	100.9	99.8	121.89	-9,569.7	417.7	530.0	328.2	201.84	2.626 Normal Operations	
22,500.0	12,120.0	22,759.7	12,400.0	101.8	100.8	121.89	-9,669.7	418.4	530.0	326.4	203.60	2.603 Normal Operations	
22,570.4	12,120.0	22,830.0	12,400.0	102.5	101.4	121.89	-9,740.1	418.8	530.0	325.2	204.84	2.587 Normal Operations, 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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 704H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	3.0	3.0	-146.43	-45.2	-30.0	54.3				
100.0	100.0	99.8	99.8	3.1	3.1	-146.43	-45.2	-30.0	54.2	47.6	6.62	8.197	
200.0	200.0	199.8	199.8	3.3	3.3	-146.43	-45.2	-30.0	54.2	47.2	7.07	7.672	
300.0	300.0	299.8	299.8	3.5	3.5	-146.43	-45.2	-30.0	54.2	46.8	7.50	7.235	
400.0	400.0	399.8	399.8	3.7	3.7	-146.43	-45.2	-30.0	54.2	46.3	7.90	6.863	
500.0	500.0	499.8	499.8	3.9	3.9	-146.43	-45.2	-30.0	54.2	46.0	8.29	6.542	
600.0	600.0	599.8	599.8	4.1	4.1	-146.43	-45.2	-30.0	54.2	45.6	8.67	6.260	
700.0	700.0	699.8	699.8	4.3	4.3	-146.43	-45.2	-30.0	54.2	45.2	9.03	6.011	
800.0	800.0	799.8	799.8	4.5	4.5	-146.43	-45.2	-30.0	54.2	44.9	9.37	5.788	
900.0	900.0	899.8	899.8	4.7	4.7	-146.43	-45.2	-30.0	54.2	44.5	9.71	5.587	
1,000.0	1,000.0	999.8	999.8	4.8	4.8	-146.43	-45.2	-30.0	54.2	44.2	10.04	5.404	
1,100.0	1,100.0	1,099.8	1,099.8	5.0	5.0	-146.43	-45.2	-30.0	54.2	43.9	10.36	5.237	
1,200.0	1,200.0	1,199.8	1,199.8	5.2	5.2	-146.43	-45.2	-30.0	54.2	43.6	10.67	5.083	
1,300.0	1,300.0	1,299.8	1,299.8	5.3	5.3	-146.43	-45.2	-30.0	54.2	43.3	10.98	4.942	
1,400.0	1,400.0	1,399.8	1,399.8	5.5	5.5	-146.43	-45.2	-30.0	54.2	43.0	11.28	4.811	
1,500.0	1,500.0	1,499.8	1,499.8	5.6	5.6	-146.43	-45.2	-30.0	54.2	42.7	11.57	4.689 CC, ES	
1,600.0	1,600.0	1,600.7	1,600.7	5.8	5.8	171.24	-44.3	-29.8	55.2	43.2	11.94	4.620	
1,700.0	1,699.8	1,701.5	1,701.5	6.1	5.9	173.10	-41.7	-29.4	58.0	45.6	12.33	4.703	
1,800.0	1,799.5	1,802.3	1,802.2	6.3	6.1	175.84	-37.3	-28.6	62.8	50.0	12.74	4.928	
1,900.0	1,898.7	1,903.0	1,902.7	6.6	6.3	179.03	-31.2	-27.5	69.7	56.5	13.17	5.288	
2,000.0	1,997.5	2,003.6	2,002.9	6.9	6.5	-177.69	-23.4	-26.2	78.8	65.1	13.63	5.777	
2,100.0	2,095.6	2,103.9	2,102.7	7.2	6.8	-173.85	-13.0	-25.3	90.2	76.0	14.13	6.381	
2,125.0	2,120.1	2,129.0	2,127.6	7.2	6.8	-172.76	-9.9	-25.2	93.4	79.2	14.22	6.570	
2,200.0	2,193.3	2,203.9	2,201.8	7.4	7.1	-169.27	0.6	-25.5	103.3	88.8	14.51	7.120	
2,300.0	2,290.9	2,302.8	2,299.4	7.7	7.3	-164.79	16.0	-26.5	116.5	101.6	14.89	7.822	
2,400.0	2,388.5	2,401.5	2,397.0	8.0	7.6	-161.23	31.4	-27.5	130.3	115.0	15.29	8.521	
2,500.0	2,486.2	2,500.3	2,494.5	8.3	7.9	-158.35	46.8	-28.4	144.5	128.8	15.69	9.207	
2,600.0	2,583.8	2,599.0	2,592.0	8.7	8.2	-156.00	62.2	-29.4	158.9	142.8	16.10	9.874	
2,700.0	2,681.4	2,697.8	2,689.6	9.0	8.5	-154.03	77.7	-30.4	173.6	157.1	16.51	10.515	
2,800.0	2,779.1	2,796.5	2,787.1	9.4	8.9	-152.38	93.1	-31.4	188.5	171.6	16.93	11.131	
2,900.0	2,876.7	2,895.3	2,884.7	9.7	9.2	-150.96	108.5	-32.3	203.5	186.1	17.36	11.720	
3,000.0	2,974.3	2,994.1	2,982.2	10.1	9.5	-149.74	123.9	-33.3	218.6	200.8	17.80	12.281	
3,100.0	3,071.9	3,092.8	3,079.7	10.5	9.9	-148.68	139.3	-34.3	233.8	215.5	18.24	12.816	
3,200.0	3,169.6	3,191.6	3,177.3	10.9	10.3	-147.75	154.8	-35.2	249.0	230.3	18.69	13.325	
3,300.0	3,267.2	3,290.3	3,274.8	11.3	10.6	-146.93	170.2	-36.2	264.3	245.2	19.14	13.810	
3,400.0	3,364.8	3,389.1	3,372.3	11.7	11.0	-146.19	185.6	-37.2	279.7	260.1	19.60	14.270	
3,500.0	3,462.5	3,487.8	3,469.9	12.1	11.4	-145.54	201.0	-38.1	295.1	275.0	20.06	14.708	
3,600.0	3,560.1	3,586.6	3,567.4	12.5	11.7	-144.94	216.4	-39.1	310.5	290.0	20.53	15.125	
3,700.0	3,657.7	3,685.3	3,665.0	12.9	12.1	-144.41	231.8	-40.1	326.0	305.0	21.00	15.521	
3,800.0	3,755.3	3,784.1	3,762.5	13.4	12.5	-143.92	247.3	-41.1	341.4	320.0	21.48	15.898	
3,900.0	3,853.0	3,882.8	3,860.0	13.8	12.9	-143.47	262.7	-42.0	356.9	335.0	21.96	16.258	
4,000.0	3,950.6	3,981.6	3,957.6	14.2	13.3	-143.06	278.1	-43.0	372.5	350.0	22.44	16.600	
4,100.0	4,048.2	4,080.3	4,055.1	14.7	13.7	-142.69	293.5	-44.0	388.0	365.1	22.92	16.926	
4,200.0	4,145.9	4,179.1	4,152.7	15.1	14.1	-142.34	308.9	-44.9	403.6	380.2	23.41	17.237	
4,300.0	4,243.5	4,277.9	4,250.2	15.5	14.5	-142.02	324.4	-45.9	419.1	395.2	23.91	17.533	
4,400.0	4,341.1	4,376.6	4,347.7	16.0	14.9	-141.72	339.8	-46.9	434.7	410.3	24.40	17.817	
4,500.0	4,438.8	4,475.4	4,445.3	16.4	15.3	-141.45	355.2	-47.8	450.3	425.4	24.90	18.088	
4,600.0	4,536.4	4,574.1	4,542.8	16.9	15.7	-141.19	370.6	-48.8	465.9	440.5	25.40	18.346	
4,700.0	4,634.0	4,672.9	4,640.3	17.3	16.1	-140.95	386.0	-49.8	481.5	455.6	25.90	18.594	
4,800.0	4,731.6	4,771.6	4,737.9	17.8	16.5	-140.72	401.4	-50.8	497.2	470.8	26.40	18.831	
4,900.0	4,829.3	4,870.4	4,835.4	18.2	17.0	-140.51	416.9	-51.7	512.8	485.9	26.91	19.058	
5,000.0	4,926.9	4,969.1	4,933.0	18.7	17.4	-140.30	432.3	-52.7	528.4	501.0	27.41	19.275	

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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 704H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													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)			
5,100.0	5,024.5	5,067.9	5,030.5	19.1	17.8	-140.12	447.7	-53.7	544.1	516.1	27.92	19.484	
5,200.0	5,122.2	5,166.6	5,128.0	19.6	18.2	-139.94	463.1	-54.6	559.7	531.3	28.43	19.684	
5,300.0	5,219.8	5,265.4	5,225.6	20.0	18.6	-139.77	478.5	-55.6	575.4	546.4	28.95	19.876	
5,400.0	5,317.4	5,364.1	5,323.1	20.5	19.0	-139.61	494.0	-56.6	591.0	561.5	29.46	20.061	
5,500.0	5,415.1	5,462.9	5,420.6	21.0	19.5	-139.46	509.4	-57.5	606.7	576.7	29.98	20.239	
5,600.0	5,512.7	5,561.7	5,518.2	21.4	19.9	-139.31	524.8	-58.5	622.3	591.8	30.49	20.410	
5,700.0	5,610.3	5,660.4	5,615.7	21.9	20.3	-139.18	540.2	-59.5	638.0	607.0	31.01	20.574	
5,800.0	5,707.9	5,759.2	5,713.3	22.3	20.7	-139.05	555.6	-60.5	653.7	622.1	31.53	20.732	
5,900.0	5,805.6	5,857.9	5,810.8	22.8	21.2	-138.92	571.0	-61.4	669.3	637.3	32.05	20.885	
6,000.0	5,903.2	5,956.7	5,908.3	23.3	21.6	-138.80	586.5	-62.4	685.0	652.4	32.57	21.032	
6,100.0	6,000.8	6,055.4	6,005.9	23.7	22.0	-138.69	601.9	-63.4	700.7	667.6	33.09	21.174	
6,200.0	6,098.5	6,154.2	6,103.4	24.2	22.4	-138.58	617.3	-64.3	716.4	682.8	33.62	21.310	
6,252.8	6,150.0	6,206.3	6,154.9	24.4	22.7	-138.53	625.4	-64.8	724.7	690.8	33.88	21.388	
6,300.0	6,196.1	6,253.0	6,201.0	24.6	22.9	-138.52	632.7	-65.3	731.9	697.8	34.11	21.455	
6,400.0	6,294.1	6,351.9	6,298.7	25.1	23.3	-138.43	648.2	-66.3	746.3	711.7	34.61	21.566	
6,500.0	6,392.4	6,450.9	6,396.5	25.5	23.7	-138.25	663.6	-67.2	759.5	724.4	35.07	21.656	
6,600.0	6,491.0	6,550.1	6,494.5	26.0	24.1	-137.98	679.1	-68.2	771.4	735.9	35.50	21.729	
6,700.0	6,589.9	6,649.4	6,592.5	26.4	24.6	-137.63	694.6	-69.2	782.0	746.1	35.89	21.786	
6,800.0	6,689.1	6,748.7	6,690.6	26.8	25.0	-137.20	710.1	-70.2	791.4	755.1	36.25	21.830	
6,900.0	6,788.4	6,848.1	6,788.8	27.2	25.4	-136.69	725.6	-71.1	799.6	763.0	36.57	21.867	
7,000.0	6,888.0	6,947.5	6,887.1	27.6	25.8	-136.14	740.5	-72.1	806.6	769.8	36.85	21.891	
7,100.0	6,987.6	7,047.2	6,985.9	28.0	26.3	-135.63	753.7	-72.9	812.4	775.3	37.13	21.883	
7,200.0	7,087.5	7,147.1	7,085.1	28.4	26.7	-135.15	765.2	-73.6	817.0	779.6	37.39	21.850	
7,300.0	7,187.4	7,247.2	7,184.8	28.7	27.1	-134.71	775.0	-74.3	820.4	782.8	37.64	21.798	
7,400.0	7,287.3	7,347.5	7,284.7	29.0	27.4	-134.29	783.0	-74.8	822.6	784.7	37.86	21.728	
7,500.0	7,387.3	7,448.0	7,385.0	29.1	27.8	-133.91	789.4	-75.2	823.5	785.5	37.98	21.683	
7,502.8	7,390.1	7,450.8	7,387.8	29.2	27.8	-90.90	789.5	-75.2	823.5	785.5	37.98	21.682	
7,600.0	7,487.3	7,548.6	7,485.5	29.2	28.1	-90.59	793.9	-75.4	823.7	785.7	38.03	21.661	
7,700.0	7,587.3	7,649.4	7,586.2	29.2	28.4	-90.39	796.8	-75.6	823.9	785.8	38.11	21.621	
7,800.0	7,687.3	7,750.2	7,687.0	29.3	28.6	-90.32	797.8	-75.7	823.9	785.7	38.20	21.569	
7,900.0	7,787.3	7,850.3	7,787.1	29.3	28.7	-90.32	797.8	-75.7	824.0	785.6	38.30	21.511	
8,000.0	7,887.3	7,950.3	7,887.1	29.4	28.7	-90.32	797.8	-75.7	824.0	785.5	38.42	21.447	
8,100.0	7,987.3	8,050.3	7,987.1	29.4	28.8	-90.32	797.8	-75.7	824.0	785.4	38.53	21.383	
8,200.0	8,087.3	8,150.3	8,087.1	29.5	28.8	-90.32	797.8	-75.7	824.0	785.3	38.65	21.319	
8,300.0	8,187.3	8,250.3	8,187.1	29.5	28.9	-90.32	797.8	-75.7	824.0	785.2	38.76	21.256	
8,400.0	8,287.3	8,350.3	8,287.1	29.5	28.9	-90.32	797.8	-75.7	824.0	785.1	38.88	21.193	
8,500.0	8,387.3	8,450.3	8,387.1	29.6	29.0	-90.32	797.8	-75.7	824.0	785.0	39.00	21.129	
8,600.0	8,487.3	8,550.3	8,487.1	29.6	29.0	-90.32	797.8	-75.7	824.0	784.8	39.11	21.067	
8,700.0	8,587.3	8,650.3	8,587.1	29.7	29.1	-90.32	797.8	-75.7	824.0	784.7	39.23	21.004	
8,800.0	8,687.3	8,750.3	8,687.1	29.7	29.1	-90.32	797.8	-75.7	824.0	784.6	39.35	20.941	
8,900.0	8,787.3	8,850.3	8,787.1	29.8	29.2	-90.32	797.8	-75.7	824.0	784.5	39.46	20.879	
9,000.0	8,887.3	8,950.3	8,887.1	29.8	29.2	-90.32	797.8	-75.7	824.0	784.4	39.58	20.817	
9,100.0	8,987.3	9,050.3	8,987.1	29.9	29.3	-90.32	797.8	-75.7	824.0	784.3	39.70	20.755	
9,200.0	9,087.3	9,150.3	9,087.1	29.9	29.3	-90.32	797.8	-75.7	824.0	784.1	39.82	20.694	
9,300.0	9,187.3	9,250.3	9,187.1	30.0	29.4	-90.32	797.8	-75.7	824.0	784.0	39.94	20.632	
9,400.0	9,287.3	9,350.3	9,287.1	30.0	29.5	-90.32	797.8	-75.7	824.0	783.9	40.05	20.571	
9,500.0	9,387.3	9,450.3	9,387.1	30.0	29.5	-90.32	797.8	-75.7	824.0	783.8	40.17	20.510	
9,600.0	9,487.3	9,550.3	9,487.1	30.1	29.6	-90.32	797.8	-75.7	824.0	783.7	40.29	20.449	
9,700.0	9,587.3	9,650.3	9,587.1	30.1	29.6	-90.32	797.8	-75.7	824.0	783.5	40.41	20.388	
9,800.0	9,687.3	9,750.3	9,687.1	30.2	29.7	-90.32	797.8	-75.7	824.0	783.4	40.53	20.328	
9,900.0	9,787.3	9,850.3	9,787.1	30.2	29.7	-90.32	797.8	-75.7	824.0	783.3	40.65	20.268	
10,000.0	9,887.3	9,950.3	9,887.1	30.3	29.8	-90.32	797.8	-75.7	824.0	783.2	40.77	20.208	

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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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)			
10,100.0	9,987.3	10,050.3	9,987.1	30.3	29.8	-90.32	797.8	-75.7	824.0	783.1	40.89	20.148	
10,200.0	10,087.3	10,150.3	10,087.1	30.4	29.9	-90.32	797.8	-75.7	824.0	782.9	41.02	20.089	
10,300.0	10,187.3	10,250.3	10,187.1	30.4	29.9	-90.32	797.8	-75.7	824.0	782.8	41.14	20.029	
10,400.0	10,287.3	10,350.3	10,287.1	30.5	30.0	-90.32	797.8	-75.7	824.0	782.7	41.26	19.970	
10,500.0	10,387.3	10,450.3	10,387.1	30.5	30.0	-90.32	797.8	-75.7	824.0	782.6	41.38	19.911	
10,600.0	10,487.3	10,550.3	10,487.1	30.6	30.1	-90.32	797.8	-75.7	824.0	782.4	41.50	19.853	
10,700.0	10,587.3	10,650.3	10,587.1	30.6	30.2	-90.32	797.8	-75.7	824.0	782.3	41.63	19.794	
10,800.0	10,687.3	10,750.3	10,687.1	30.7	30.2	-90.32	797.8	-75.7	824.0	782.2	41.75	19.736	
10,900.0	10,787.3	10,850.3	10,787.1	30.7	30.3	-90.32	797.8	-75.7	824.0	782.1	41.87	19.678	
11,000.0	10,887.3	10,950.3	10,887.1	30.8	30.3	-90.32	797.8	-75.7	824.0	782.0	42.00	19.620	
11,100.0	10,987.3	11,050.3	10,987.1	30.8	30.4	-90.32	797.8	-75.7	824.0	781.8	42.12	19.563	
11,200.0	11,087.3	11,150.3	11,087.1	30.9	30.4	-90.32	797.8	-75.7	824.0	781.7	42.24	19.505	
11,300.0	11,187.3	11,250.3	11,187.1	30.9	30.5	-90.32	797.8	-75.7	824.0	781.6	42.37	19.448	
11,400.0	11,287.3	11,350.3	11,287.1	31.0	30.5	-90.32	797.8	-75.7	824.0	781.5	42.49	19.391	
11,500.0	11,387.3	11,450.3	11,387.1	31.0	30.6	-90.32	797.8	-75.7	824.0	781.3	42.62	19.334	
11,600.0	11,487.3	11,550.3	11,487.1	31.1	30.6	-90.32	797.8	-75.7	824.0	781.2	42.74	19.278	
11,700.0	11,587.3	11,650.3	11,587.1	31.1	30.7	-90.32	797.8	-75.7	824.0	781.1	42.87	19.221	
11,755.2	11,642.5	11,705.5	11,642.3	31.1	30.7	-90.32	797.8	-75.7	824.0	781.0	42.93	19.194	
11,775.0	11,662.3	11,725.3	11,662.1	31.1	30.7	95.28	797.4	-75.7	824.0	781.0	42.96	19.179	
11,800.0	11,687.3	11,750.3	11,687.1	31.1	30.6	95.26	795.7	-75.7	824.1	781.2	42.96	19.186	
11,825.0	11,712.1	11,775.3	11,711.9	31.0	30.5	95.23	792.7	-75.7	824.4	781.5	42.95	19.196	
11,850.0	11,736.7	11,800.3	11,736.6	30.9	30.5	95.18	788.5	-75.6	824.8	781.9	42.94	19.210	
11,875.0	11,761.1	11,825.4	11,761.0	30.9	30.4	95.12	782.9	-75.6	825.3	782.4	42.92	19.227	
11,900.0	11,785.1	11,850.4	11,785.0	30.8	30.2	95.04	776.1	-75.6	825.9	783.0	42.91	19.248	
11,925.0	11,808.8	11,875.4	11,808.7	30.7	30.1	94.95	768.0	-75.5	826.7	783.8	42.89	19.273	
11,950.0	11,832.0	11,900.4	11,831.9	30.6	30.0	94.84	758.7	-75.5	827.5	784.7	42.88	19.301	
11,975.0	11,854.6	11,925.4	11,854.6	30.6	29.9	94.73	748.1	-75.4	828.5	785.6	42.86	19.332	
12,000.0	11,876.7	11,950.4	11,876.7	30.5	29.8	94.60	736.5	-75.3	829.6	786.7	42.84	19.366	
12,025.0	11,898.2	11,975.4	11,898.1	30.4	29.7	94.45	723.6	-75.2	830.7	787.9	42.82	19.403	
12,050.0	11,918.9	12,000.3	11,918.8	30.3	29.6	94.30	709.7	-75.2	832.0	789.2	42.79	19.442	
12,075.0	11,938.9	12,025.3	11,938.8	30.3	29.5	94.13	694.8	-75.1	833.4	790.6	42.77	19.484	
12,100.0	11,958.1	12,050.3	11,958.0	30.2	29.4	93.95	678.8	-75.0	834.9	792.1	42.75	19.528	
12,125.0	11,976.4	12,075.2	11,976.3	30.1	29.3	93.76	661.8	-74.9	836.4	793.7	42.73	19.574	
12,150.0	11,993.8	12,100.2	11,993.7	30.1	29.2	93.56	643.9	-74.7	838.1	795.3	42.71	19.620	
12,175.0	12,010.3	12,125.1	12,010.1	30.0	29.1	93.35	625.1	-74.6	839.8	797.1	42.70	19.668	
12,200.0	12,025.7	12,150.1	12,025.5	30.0	29.0	93.13	605.5	-74.5	841.6	798.9	42.68	19.717	
12,225.0	12,040.1	12,175.0	12,039.8	29.9	28.9	92.91	585.2	-74.4	843.4	800.8	42.67	19.766	
12,250.0	12,053.4	12,199.9	12,053.1	29.9	28.9	92.67	564.1	-74.3	845.4	802.7	42.66	19.815	
12,275.0	12,065.6	12,224.8	12,065.3	29.8	28.8	92.43	542.3	-74.1	847.4	804.7	42.66	19.864	
12,300.0	12,076.6	12,249.7	12,076.3	29.8	28.7	92.18	520.0	-74.0	849.4	806.8	42.66	19.912	
12,325.0	12,086.4	12,274.6	12,086.1	29.8	28.7	91.93	497.1	-73.9	851.5	808.9	42.66	19.960	
12,350.0	12,095.0	12,299.5	12,094.7	29.7	28.6	91.67	473.7	-73.7	853.7	811.0	42.67	20.005	
12,375.0	12,102.4	12,324.4	12,102.1	29.7	28.6	91.41	449.9	-73.6	855.9	813.2	42.69	20.050	
12,400.0	12,108.5	12,349.3	12,108.2	29.7	28.6	91.15	425.8	-73.4	858.1	815.4	42.71	20.092	
12,425.0	12,113.3	12,374.2	12,113.1	29.7	28.5	90.88	401.4	-73.3	860.3	817.6	42.73	20.133	
12,450.0	12,116.8	12,399.1	12,116.7	29.7	28.5	90.61	376.8	-73.1	862.6	819.8	42.76	20.171	
12,475.0	12,119.0	12,424.0	12,119.0	29.7	28.5	90.34	352.0	-73.0	864.9	822.1	42.80	20.207	
12,500.0	12,120.0	12,448.9	12,120.0	29.7	28.5	90.07	327.1	-72.8	867.2	824.3	42.84	20.240	
12,505.2	12,120.0	12,454.1	12,120.0	29.7	28.5	90.01	321.9	-72.8	867.6	824.8	42.85	20.246	
12,600.0	12,120.0	12,548.6	12,120.0	29.8	28.5	90.01	227.4	-72.2	874.7	831.6	43.11	20.291	
12,700.0	12,120.0	12,648.5	12,120.0	30.0	28.5	90.01	127.5	-71.6	878.9	835.4	43.47	20.218	
12,767.6	12,120.0	12,716.1	12,120.0	30.0	28.5	90.01	59.9	-71.2	879.7	835.9	43.74	20.111	

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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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)			
12,800.0	12,120.0	12,748.5	12,120.0	30.1	28.5	90.01	27.5	-71.0	879.7	835.8	43.88	20.046	
12,900.0	12,120.0	12,848.5	12,120.0	30.2	28.5	90.01	-72.5	-70.4	879.7	835.3	44.38	19.822	
13,000.0	12,120.0	12,948.5	12,120.0	30.4	28.5	90.01	-172.5	-69.8	879.7	834.7	44.95	19.570	
13,100.0	12,120.0	13,048.5	12,120.0	30.6	28.5	90.01	-272.5	-69.1	879.7	834.1	45.59	19.294	
13,200.0	12,120.0	13,148.5	12,120.0	30.7	28.5	90.01	-372.5	-68.5	879.7	833.4	46.31	18.996	
13,300.0	12,120.0	13,248.5	12,120.0	31.0	28.5	90.01	-472.5	-67.9	879.7	832.6	47.09	18.681	
13,400.0	12,120.0	13,348.5	12,120.0	31.2	28.6	90.01	-572.5	-67.3	879.7	831.7	47.93	18.352	
13,500.0	12,120.0	13,448.5	12,120.0	31.5	28.6	90.01	-672.5	-66.7	879.7	830.8	48.84	18.012	
13,600.0	12,120.0	13,548.5	12,120.0	31.7	28.6	90.01	-772.5	-66.1	879.7	829.9	49.80	17.664	
13,700.0	12,120.0	13,648.5	12,120.0	32.0	28.6	90.01	-872.5	-65.5	879.7	828.9	50.81	17.312	
13,800.0	12,120.0	13,748.5	12,120.0	32.4	28.6	90.01	-972.5	-64.9	879.7	827.8	51.88	16.956	
13,900.0	12,120.0	13,848.5	12,120.0	32.7	28.7	90.01	-1,072.5	-64.2	879.7	826.7	52.99	16.600	
14,000.0	12,120.0	13,948.5	12,120.0	33.1	28.7	90.01	-1,172.5	-63.6	879.7	825.5	54.15	16.246	
14,100.0	12,120.0	14,048.5	12,120.0	33.5	28.7	90.01	-1,272.5	-63.0	879.7	824.4	55.35	15.894	
14,200.0	12,120.0	14,148.5	12,120.0	33.9	28.7	90.01	-1,372.5	-62.4	879.7	823.1	56.59	15.546	
14,300.0	12,120.0	14,248.5	12,120.0	34.3	28.8	90.01	-1,472.5	-61.8	879.7	821.8	57.86	15.204	
14,400.0	12,120.0	14,348.5	12,120.0	34.8	28.8	90.01	-1,572.5	-61.2	879.7	820.5	59.17	14.868	
14,500.0	12,120.0	14,448.5	12,120.0	35.3	28.9	90.01	-1,672.5	-60.6	879.7	819.2	60.51	14.539	
14,600.0	12,120.0	14,548.5	12,120.0	35.8	29.1	90.01	-1,772.5	-60.0	879.7	817.8	61.88	14.217	
14,700.0	12,120.0	14,648.5	12,120.0	36.3	29.5	90.01	-1,872.5	-59.4	879.7	816.4	63.27	13.903	
14,800.0	12,120.0	14,748.5	12,120.0	36.9	30.2	90.01	-1,972.5	-58.7	879.7	815.0	64.70	13.598	
14,900.0	12,120.0	14,848.5	12,120.0	37.4	30.9	90.01	-2,072.5	-58.1	879.7	813.6	66.14	13.300	
15,000.0	12,120.0	14,948.5	12,120.0	38.0	31.7	90.01	-2,172.5	-57.5	879.7	812.1	67.61	13.011	
15,100.0	12,120.0	15,048.5	12,120.0	38.6	32.5	90.01	-2,272.5	-56.9	879.7	810.6	69.11	12.730	
15,200.0	12,120.0	15,148.5	12,120.0	39.2	33.3	90.01	-2,372.5	-56.3	879.7	809.1	70.62	12.458	
15,300.0	12,120.0	15,248.5	12,120.0	39.9	34.2	90.01	-2,472.5	-55.7	879.7	807.6	72.15	12.194	
15,400.0	12,120.0	15,348.5	12,120.0	40.5	35.0	90.01	-2,572.5	-55.1	879.8	806.1	73.69	11.938	
15,500.0	12,120.0	15,448.5	12,120.0	41.2	35.8	90.01	-2,672.5	-54.5	879.8	804.5	75.26	11.690	
15,600.0	12,120.0	15,548.5	12,120.0	41.9	36.7	90.01	-2,772.5	-53.8	879.8	802.9	76.84	11.450	
15,700.0	12,120.0	15,648.5	12,120.0	42.6	37.5	90.01	-2,872.5	-53.2	879.8	801.3	78.43	11.217	
15,800.0	12,120.0	15,748.5	12,120.0	43.3	38.4	90.01	-2,972.5	-52.6	879.8	799.7	80.04	10.992	
15,900.0	12,120.0	15,848.5	12,120.0	44.0	39.3	90.01	-3,072.4	-52.0	879.8	798.1	81.65	10.774	
16,000.0	12,120.0	15,948.5	12,120.0	44.8	40.1	90.01	-3,172.4	-51.4	879.8	796.5	83.29	10.563	
16,100.0	12,120.0	16,048.5	12,120.0	45.5	41.0	90.01	-3,272.4	-50.8	879.8	794.8	84.93	10.359	
16,200.0	12,120.0	16,148.5	12,120.0	46.3	41.9	90.01	-3,372.4	-50.2	879.8	793.2	86.58	10.161	
16,300.0	12,120.0	16,248.5	12,120.0	47.0	42.8	90.01	-3,472.4	-49.6	879.8	791.5	88.25	9.970	
16,400.0	12,120.0	16,348.5	12,120.0	47.8	43.6	90.01	-3,572.4	-49.0	879.8	789.9	89.92	9.784	
16,500.0	12,120.0	16,448.5	12,120.0	48.6	44.5	90.01	-3,672.4	-48.3	879.8	788.2	91.60	9.605	
16,600.0	12,120.0	16,548.5	12,120.0	49.4	45.4	90.01	-3,772.4	-47.7	879.8	786.5	93.29	9.431	
16,700.0	12,120.0	16,648.5	12,120.0	50.2	46.3	90.01	-3,872.4	-47.1	879.8	784.8	94.99	9.262	
16,800.0	12,120.0	16,748.5	12,120.0	51.0	47.2	90.01	-3,972.4	-46.5	879.8	783.1	96.70	9.099	
16,900.0	12,120.0	16,848.5	12,120.0	51.8	48.1	90.01	-4,072.4	-45.9	879.8	781.4	98.41	8.940	
17,000.0	12,120.0	16,948.5	12,120.0	52.6	49.0	90.01	-4,172.4	-45.3	879.8	779.7	100.13	8.787	
17,100.0	12,120.0	17,048.5	12,120.0	53.4	49.9	90.01	-4,272.4	-44.7	879.8	778.0	101.86	8.638	
17,200.0	12,120.0	17,148.5	12,120.0	54.2	50.8	90.01	-4,372.4	-44.1	879.8	776.2	103.59	8.493	
17,300.0	12,120.0	17,248.5	12,120.0	55.1	51.7	90.01	-4,472.4	-43.4	879.8	774.5	105.33	8.353	
17,400.0	12,120.0	17,348.5	12,120.0	55.9	52.6	90.01	-4,572.4	-42.8	879.8	772.8	107.07	8.217	
17,500.0	12,120.0	17,448.5	12,120.0	56.7	53.6	90.01	-4,672.4	-42.2	879.8	771.0	108.82	8.085	
17,600.0	12,120.0	17,548.5	12,120.0	57.6	54.5	90.01	-4,772.4	-41.6	879.8	769.3	110.58	7.957	
17,700.0	12,120.0	17,648.5	12,120.0	58.4	55.4	90.01	-4,872.4	-41.0	879.8	767.5	112.34	7.832	
17,800.0	12,120.0	17,748.5	12,120.0	59.3	56.3	90.01	-4,972.4	-40.4	879.8	765.7	114.10	7.711	
17,900.0	12,120.0	17,848.5	12,120.0	60.1	57.2	90.01	-5,072.4	-39.8	879.8	764.0	115.87	7.594	

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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		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)			
18,000.0	12,120.0	17,948.5	12,120.0	61.0	58.1	90.01	-5,172.4	-39.2	879.8	762.2	117.64	7.479	
18,100.0	12,120.0	18,048.5	12,120.0	61.9	59.1	90.01	-5,272.4	-38.6	879.9	760.4	119.42	7.368	
18,200.0	12,120.0	18,148.5	12,120.0	62.7	60.0	90.01	-5,372.4	-37.9	879.9	758.7	121.20	7.260	
18,300.0	12,120.0	18,248.5	12,120.0	63.6	60.9	90.01	-5,472.4	-37.3	879.9	756.9	122.98	7.154	
18,400.0	12,120.0	18,348.5	12,120.0	64.5	61.8	90.01	-5,572.4	-36.7	879.9	755.1	124.77	7.052	
18,500.0	12,120.0	18,448.5	12,120.0	65.4	62.8	90.01	-5,672.4	-36.1	879.9	753.3	126.56	6.952	
18,600.0	12,120.0	18,548.5	12,120.0	66.2	63.7	90.01	-5,772.4	-35.5	879.9	751.5	128.35	6.855	
18,700.0	12,120.0	18,648.5	12,120.0	67.1	64.6	90.01	-5,872.4	-34.9	879.9	749.7	130.15	6.760	
18,800.0	12,120.0	18,748.5	12,120.0	68.0	65.6	90.01	-5,972.4	-34.3	879.9	747.9	131.95	6.668	
18,900.0	12,120.0	18,848.5	12,120.0	68.9	66.5	90.01	-6,072.4	-33.7	879.9	746.1	133.75	6.578	
19,000.0	12,120.0	18,948.5	12,120.0	69.8	67.4	90.01	-6,172.4	-33.0	879.9	744.3	135.56	6.491	
19,100.0	12,120.0	19,048.5	12,120.0	70.7	68.4	90.01	-6,272.4	-32.4	879.9	742.5	137.37	6.405	
19,200.0	12,120.0	19,148.5	12,120.0	71.6	69.3	90.01	-6,372.4	-31.8	879.9	740.7	139.18	6.322	
19,300.0	12,120.0	19,248.5	12,120.0	72.5	70.2	90.01	-6,472.4	-31.2	879.9	738.9	140.99	6.241	
19,400.0	12,120.0	19,348.5	12,120.0	73.4	71.2	90.01	-6,572.4	-30.6	879.9	737.1	142.81	6.162	
19,500.0	12,120.0	19,448.5	12,120.0	74.3	72.1	90.01	-6,672.4	-30.0	879.9	735.3	144.62	6.084	
19,600.0	12,120.0	19,548.5	12,120.0	75.2	73.0	90.01	-6,772.4	-29.4	879.9	733.5	146.44	6.009	
19,700.0	12,120.0	19,648.5	12,120.0	76.1	74.0	90.01	-6,872.4	-28.8	879.9	731.6	148.26	5.935	
19,800.0	12,120.0	19,748.5	12,120.0	77.0	74.9	90.01	-6,972.4	-28.2	879.9	729.8	150.09	5.863	
19,900.0	12,120.0	19,848.5	12,120.0	77.9	75.8	90.01	-7,072.4	-27.5	879.9	728.0	151.91	5.792	
20,000.0	12,120.0	19,948.5	12,120.0	78.8	76.8	90.01	-7,172.4	-26.9	879.9	726.2	153.74	5.723	
20,100.0	12,120.0	20,048.5	12,120.0	79.7	77.7	90.01	-7,272.4	-26.3	879.9	724.4	155.57	5.656	
20,200.0	12,120.0	20,148.5	12,120.0	80.6	78.7	90.01	-7,372.4	-25.7	879.9	722.5	157.40	5.590	
20,300.0	12,120.0	20,248.5	12,120.0	81.5	79.6	90.01	-7,472.4	-25.1	879.9	720.7	159.23	5.526	
20,400.0	12,120.0	20,348.5	12,120.0	82.4	80.5	90.01	-7,572.4	-24.5	879.9	718.9	161.07	5.463	
20,500.0	12,120.0	20,448.5	12,120.0	83.3	81.5	90.01	-7,672.4	-23.9	879.9	717.0	162.90	5.402	
20,600.0	12,120.0	20,548.5	12,120.0	84.3	82.4	90.01	-7,772.4	-23.3	879.9	715.2	164.74	5.341	
20,700.0	12,120.0	20,648.5	12,120.0	85.2	83.4	90.01	-7,872.4	-22.6	880.0	713.4	166.58	5.282	
20,800.0	12,120.0	20,748.5	12,120.0	86.1	84.3	90.01	-7,972.4	-22.0	880.0	711.5	168.42	5.225	
20,900.0	12,120.0	20,848.5	12,120.0	87.0	85.3	90.01	-8,072.4	-21.4	880.0	709.7	170.26	5.168	
21,000.0	12,120.0	20,948.5	12,120.0	87.9	86.2	90.01	-8,172.4	-20.8	880.0	707.9	172.11	5.113	
21,100.0	12,120.0	21,048.5	12,120.0	88.8	87.2	90.01	-8,272.4	-20.2	880.0	706.0	173.95	5.059	
21,200.0	12,120.0	21,148.5	12,120.0	89.8	88.1	90.01	-8,372.3	-19.6	880.0	704.2	175.79	5.006	
21,300.0	12,120.0	21,248.5	12,120.0	90.7	89.0	90.01	-8,472.3	-19.0	880.0	702.3	177.64	4.954	
21,400.0	12,120.0	21,348.5	12,120.0	91.6	90.0	90.01	-8,572.3	-18.4	880.0	700.5	179.49	4.903	
21,500.0	12,120.0	21,448.5	12,120.0	92.5	90.9	90.01	-8,672.3	-17.8	880.0	698.6	181.34	4.853	
21,600.0	12,120.0	21,548.5	12,120.0	93.5	91.9	90.01	-8,772.3	-17.1	880.0	696.8	183.19	4.804	
21,700.0	12,120.0	21,648.5	12,120.0	94.4	92.8	90.01	-8,872.3	-16.5	880.0	695.0	185.04	4.756	
21,800.0	12,120.0	21,748.5	12,120.0	95.3	93.8	90.01	-8,972.3	-15.9	880.0	693.1	186.89	4.709	
21,900.0	12,120.0	21,848.5	12,120.0	96.2	94.7	90.01	-9,072.3	-15.3	880.0	691.3	188.74	4.662	
22,000.0	12,120.0	21,948.5	12,120.0	97.2	95.7	90.01	-9,172.3	-14.7	880.0	689.4	190.60	4.617	
22,100.0	12,120.0	22,048.5	12,120.0	98.1	96.6	90.01	-9,272.3	-14.1	880.0	687.6	192.45	4.573	
22,200.0	12,120.0	22,148.5	12,120.0	99.0	97.6	90.01	-9,372.3	-13.5	880.0	685.7	194.31	4.529	
22,300.0	12,120.0	22,248.5	12,120.0	100.0	98.5	90.01	-9,472.3	-12.9	880.0	683.8	196.16	4.486	
22,400.0	12,120.0	22,348.5	12,120.0	100.9	99.5	90.01	-9,572.3	-12.2	880.0	682.0	198.02	4.444	
22,500.0	12,120.0	22,448.5	12,120.0	101.8	100.4	90.01	-9,672.3	-11.6	880.0	680.1	199.88	4.403	
22,570.4	12,120.0	22,518.9	12,120.0	102.5	101.1	90.01	-9,742.7	-11.2	880.0	678.8	201.19	4.374 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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 802H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													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	
0.0	0.0	0.3	0.3	3.0	3.0	-90.57	-0.3	-30.0	30.0				
100.0	100.0	100.3	100.3	3.1	3.1	-90.57	-0.3	-30.0	30.0	23.4	6.62	4.532	
200.0	200.0	200.3	200.3	3.3	3.3	-90.57	-0.3	-30.0	30.0	22.9	7.07	4.242	
300.0	300.0	300.3	300.3	3.5	3.5	-90.57	-0.3	-30.0	30.0	22.5	7.50	4.000	
400.0	400.0	400.3	400.3	3.7	3.7	-90.57	-0.3	-30.0	30.0	22.1	7.91	3.795	
500.0	500.0	500.3	500.3	3.9	3.9	-90.57	-0.3	-30.0	30.0	21.7	8.29	3.617	
600.0	600.0	600.3	600.3	4.1	4.1	-90.57	-0.3	-30.0	30.0	21.3	8.67	3.462	
700.0	700.0	700.3	700.3	4.3	4.3	-90.57	-0.3	-30.0	30.0	21.0	9.03	3.324	
800.0	800.0	800.3	800.3	4.5	4.5	-90.57	-0.3	-30.0	30.0	20.6	9.37	3.200	
900.0	900.0	900.3	900.3	4.7	4.7	-90.57	-0.3	-30.0	30.0	20.3	9.71	3.089	
966.6	966.6	966.9	966.9	4.8	4.8	-90.57	-0.3	-30.0	30.0	20.1	9.93	3.021 CC	
1,000.0	1,000.0	1,000.0	1,000.0	4.8	4.8	-90.57	-0.3	-30.0	30.0	20.0	10.04	2.989 Normal Operations, ES, SF	
1,100.0	1,100.0	1,099.6	1,099.6	5.0	5.1	-88.00	1.1	-31.0	31.1	20.7	10.40	2.989 Normal Operations	
1,200.0	1,200.0	1,198.7	1,198.6	5.2	5.4	-81.34	5.2	-34.1	34.6	23.8	10.76	3.213	
1,300.0	1,300.0	1,297.4	1,296.8	5.3	5.6	-72.99	12.0	-39.3	41.2	30.1	11.16	3.694	
1,400.0	1,400.0	1,395.3	1,394.0	5.5	5.9	-65.19	21.4	-46.4	51.5	39.9	11.58	4.446	
1,500.0	1,500.0	1,492.3	1,489.9	5.6	6.2	-58.91	33.4	-55.4	65.5	53.5	12.01	5.453	
1,600.0	1,600.0	1,590.7	1,586.7	5.8	6.5	-98.28	47.0	-65.7	82.1	69.7	12.43	6.609	
1,700.0	1,699.8	1,689.2	1,683.7	6.1	6.8	-97.76	60.7	-76.0	99.4	86.5	12.84	7.740	
1,800.0	1,799.5	1,787.5	1,780.6	6.3	7.1	-99.01	74.3	-86.2	117.1	103.9	13.25	8.839	
1,900.0	1,898.7	1,885.6	1,877.2	6.6	7.4	-101.29	87.9	-96.5	135.6	121.9	13.66	9.924	
2,000.0	1,997.5	1,983.4	1,973.5	6.9	7.7	-104.18	101.5	-106.7	155.1	141.0	14.07	11.021	
2,100.0	2,095.6	2,080.6	2,069.2	7.2	8.0	-107.41	115.0	-116.9	176.0	161.5	14.48	12.154	
2,125.0	2,120.1	2,104.8	2,093.1	7.2	8.1	-108.25	118.3	-119.4	181.4	166.9	14.56	12.462	
2,200.0	2,193.3	2,177.4	2,164.6	7.4	8.3	-110.85	128.4	-127.0	198.3	183.4	14.84	13.356	
2,300.0	2,290.9	2,274.2	2,259.9	7.7	8.7	-113.71	141.8	-137.1	221.2	205.9	15.26	14.494	
2,400.0	2,388.5	2,371.0	2,355.3	8.0	9.0	-116.03	155.3	-147.2	244.5	228.8	15.69	15.585	
2,500.0	2,486.2	2,467.8	2,450.6	8.3	9.4	-117.95	168.7	-157.3	268.2	252.1	16.13	16.624	
2,600.0	2,583.8	2,564.6	2,545.9	8.7	9.8	-119.56	182.1	-167.4	292.1	275.5	16.59	17.609	
2,700.0	2,681.4	2,661.4	2,641.2	9.0	10.1	-120.92	195.5	-177.6	316.2	299.1	17.06	18.538	
2,800.0	2,779.1	2,758.2	2,736.6	9.4	10.5	-122.09	208.9	-187.7	340.4	322.9	17.54	19.414	
2,900.0	2,876.7	2,855.0	2,831.9	9.7	10.9	-123.11	222.4	-197.8	364.8	346.8	18.02	20.238	
3,000.0	2,974.3	2,951.8	2,927.2	10.1	11.3	-124.00	235.8	-207.9	389.2	370.7	18.52	21.012	
3,100.0	3,071.9	3,048.6	3,022.6	10.5	11.7	-124.78	249.2	-218.0	413.8	394.7	19.03	21.740	
3,200.0	3,169.6	3,145.4	3,117.9	10.9	12.1	-125.48	262.6	-228.1	438.3	418.8	19.55	22.424	
3,300.0	3,267.2	3,242.2	3,213.2	11.3	12.5	-126.10	276.1	-238.3	463.0	442.9	20.07	23.066	
3,400.0	3,364.8	3,339.0	3,308.5	11.7	12.9	-126.66	289.5	-248.4	487.7	467.1	20.60	23.670	
3,500.0	3,462.5	3,435.8	3,403.9	12.1	13.3	-127.16	302.9	-258.5	512.4	491.3	21.14	24.238	
3,600.0	3,560.1	3,532.6	3,499.2	12.5	13.7	-127.62	316.3	-268.6	537.2	515.5	21.68	24.772	
3,700.0	3,657.7	3,629.4	3,594.5	12.9	14.1	-128.04	329.8	-278.7	562.0	539.7	22.23	25.275	
3,800.0	3,755.3	3,726.2	3,689.8	13.4	14.5	-128.43	343.2	-288.8	586.8	564.0	22.79	25.750	
3,900.0	3,853.0	3,823.0	3,785.2	13.8	14.9	-128.78	356.6	-299.0	611.6	588.3	23.35	26.197	
4,000.0	3,950.6	3,919.8	3,880.5	14.2	15.3	-129.10	370.0	-309.1	636.5	612.6	23.91	26.619	
4,100.0	4,048.2	4,016.6	3,975.8	14.7	15.8	-129.40	383.5	-319.2	661.4	636.9	24.48	27.017	
4,200.0	4,145.9	4,113.4	4,071.2	15.1	16.2	-129.68	396.9	-329.3	686.3	661.2	25.05	27.394	
4,300.0	4,243.5	4,210.2	4,166.5	15.5	16.6	-129.94	410.3	-339.4	711.2	685.6	25.63	27.751	
4,400.0	4,341.1	4,307.0	4,261.8	16.0	17.0	-130.18	423.7	-349.5	736.1	709.9	26.21	28.089	
4,500.0	4,438.8	4,403.8	4,357.1	16.4	17.4	-130.41	437.2	-359.7	761.0	734.3	26.79	28.409	
4,600.0	4,536.4	4,500.6	4,452.5	16.9	17.9	-130.62	450.6	-369.8	786.0	758.6	27.37	28.713	
4,700.0	4,634.0	4,597.4	4,547.8	17.3	18.3	-130.82	464.0	-379.9	811.0	783.0	27.96	29.001	
4,800.0	4,731.6	4,694.2	4,643.1	17.8	18.7	-131.01	477.4	-390.0	835.9	807.4	28.55	29.275	
4,900.0	4,829.3	4,791.0	4,738.5	18.2	19.1	-131.18	490.9	-400.1	860.9	831.7	29.15	29.536	

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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:		HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 802H - OWB - PWP0											Offset Site Error:		0.0 usft	
Survey Program:		0-r.5 MWD+IFR1							Rule Assigned:		Offset Well Error:		3.0 usft			
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,000.0	4,926.9	4,887.8	4,833.8	18.7	19.6	-131.35	504.3	-410.2	885.9	856.1	29.74	29.785				
5,100.0	5,024.5	4,984.6	4,929.1	19.1	20.0	-131.50	517.7	-420.3	910.9	880.5	30.34	30.021				
5,200.0	5,122.2	5,081.4	5,024.4	19.6	20.4	-131.65	531.1	-430.5	935.8	904.9	30.94	30.247				
5,300.0	5,219.8	5,178.2	5,119.8	20.0	20.8	-131.79	544.6	-440.6	960.8	929.3	31.54	30.462				
5,400.0	5,317.4	5,275.0	5,215.1	20.5	21.3	-131.93	558.0	-450.7	985.8	953.7	32.15	30.668				

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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 802H - PILOT - PWP0 (PH)												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.3	0.3	3.0	3.0	-90.57	-0.3	-30.0	30.0				
100.0	100.0	100.3	100.3	3.1	3.0	-90.57	-0.3	-30.0	30.0	23.4	6.57	4.569	
200.0	200.0	200.3	200.3	3.3	3.2	-90.57	-0.3	-30.0	30.0	23.1	6.92	4.339	
300.0	300.0	300.3	300.3	3.5	3.3	-90.57	-0.3	-30.0	30.0	22.8	7.25	4.140	
400.0	400.0	400.3	400.3	3.7	3.4	-90.57	-0.3	-30.0	30.0	22.4	7.57	3.965	
500.0	500.0	500.3	500.3	3.9	3.5	-90.57	-0.3	-30.0	30.0	22.1	7.87	3.811	
600.0	600.0	600.3	600.3	4.1	3.7	-90.57	-0.3	-30.0	30.0	21.8	8.17	3.673	
700.0	700.0	700.3	700.3	4.3	3.8	-90.57	-0.3	-30.0	30.0	21.5	8.45	3.549	
800.0	800.0	800.3	800.3	4.5	3.9	-90.57	-0.3	-30.0	30.0	21.3	8.73	3.436	
900.0	900.0	900.3	900.3	4.7	4.0	-90.57	-0.3	-30.0	30.0	21.0	9.00	3.332	
966.6	966.6	966.9	966.9	4.8	4.1	-90.57	-0.3	-30.0	30.0	20.8	9.18	3.269 CC	
1,000.0	1,000.0	1,000.0	1,000.0	4.8	4.2	-90.57	-0.3	-30.0	30.0	20.7	9.27	3.238 ES, SF	
1,100.0	1,100.0	1,099.6	1,099.6	5.0	4.3	-88.00	1.1	-31.0	31.1	21.5	9.56	3.249	
1,200.0	1,200.0	1,198.7	1,198.6	5.2	4.6	-81.34	5.2	-34.1	34.6	24.6	9.96	3.473	
1,300.0	1,300.0	1,297.4	1,296.8	5.3	4.9	-72.99	12.0	-39.3	41.2	30.8	10.39	3.968	
1,400.0	1,400.0	1,395.3	1,394.0	5.5	5.3	-65.19	21.4	-46.4	51.5	40.6	10.85	4.746	
1,500.0	1,500.0	1,492.3	1,489.9	5.6	5.6	-58.91	33.4	-55.4	65.5	54.2	11.32	5.788	
1,600.0	1,600.0	1,590.7	1,586.7	5.8	5.9	-98.28	47.0	-65.7	82.1	70.4	11.76	6.986	
1,700.0	1,699.8	1,689.2	1,683.7	6.1	6.2	-97.76	60.7	-76.0	99.4	87.2	12.18	8.156	
1,800.0	1,799.5	1,787.5	1,780.6	6.3	6.5	-99.01	74.3	-86.2	117.1	104.5	12.61	9.290	
1,900.0	1,898.7	1,885.6	1,877.2	6.6	6.8	-101.29	87.9	-96.5	135.6	122.5	13.03	10.407	
2,000.0	1,997.5	1,983.4	1,973.5	6.9	7.1	-104.18	101.5	-106.7	155.1	141.6	13.44	11.536	
2,100.0	2,095.6	2,080.6	2,069.2	7.2	7.5	-107.41	115.0	-116.9	176.0	162.1	13.85	12.702	
2,125.0	2,120.1	2,104.8	2,093.1	7.2	7.6	-108.25	118.3	-119.4	181.4	167.5	13.93	13.020	
2,200.0	2,193.3	2,177.4	2,164.6	7.4	7.8	-110.85	128.4	-127.0	198.3	184.0	14.22	13.941	
2,300.0	2,290.9	2,274.2	2,259.9	7.7	8.2	-113.71	141.8	-137.1	221.2	206.5	14.64	15.107	
2,400.0	2,388.5	2,371.0	2,355.3	8.0	8.6	-116.03	155.3	-147.2	244.5	229.5	15.07	16.222	
2,500.0	2,486.2	2,467.8	2,450.6	8.3	8.9	-117.95	168.7	-157.3	268.2	252.7	15.52	17.280	
2,600.0	2,583.8	2,564.6	2,545.9	8.7	9.3	-119.56	182.1	-167.4	292.1	276.1	15.98	18.280	
2,700.0	2,681.4	2,661.4	2,641.2	9.0	9.7	-120.92	195.5	-177.6	316.2	299.7	16.45	19.221	
2,800.0	2,779.1	2,758.2	2,736.6	9.4	10.1	-122.09	208.9	-187.7	340.4	323.5	16.93	20.106	
2,900.0	2,876.7	2,855.0	2,831.9	9.7	10.5	-123.11	222.4	-197.8	364.8	347.4	17.42	20.936	
3,000.0	2,974.3	2,951.8	2,927.2	10.1	10.9	-124.00	235.8	-207.9	389.2	371.3	17.92	21.715	
3,100.0	3,071.9	3,048.6	3,022.6	10.5	11.3	-124.78	249.2	-218.0	413.8	395.3	18.43	22.445	
3,200.0	3,169.6	3,145.4	3,117.9	10.9	11.7	-125.48	262.6	-228.1	438.3	419.4	18.95	23.130	
3,300.0	3,267.2	3,242.2	3,213.2	11.3	12.1	-126.10	276.1	-238.3	463.0	443.5	19.48	23.772	
3,400.0	3,364.8	3,339.0	3,308.5	11.7	12.5	-126.66	289.5	-248.4	487.7	467.7	20.01	24.375	
3,500.0	3,462.5	3,435.8	3,403.9	12.1	12.9	-127.16	302.9	-258.5	512.4	491.9	20.54	24.942	
3,600.0	3,560.1	3,532.6	3,499.2	12.5	13.3	-127.62	316.3	-268.6	537.2	516.1	21.09	25.474	
3,700.0	3,657.7	3,629.4	3,594.5	12.9	13.8	-128.04	329.8	-278.7	562.0	540.3	21.64	25.974	
3,800.0	3,755.3	3,726.2	3,689.8	13.4	14.2	-128.43	343.2	-288.8	586.8	564.6	22.19	26.445	
3,900.0	3,853.0	3,823.0	3,785.2	13.8	14.6	-128.78	356.6	-299.0	611.6	588.9	22.75	26.889	
4,000.0	3,950.6	3,919.8	3,880.5	14.2	15.0	-129.10	370.0	-309.1	636.5	613.2	23.31	27.308	
4,100.0	4,048.2	4,016.6	3,975.8	14.7	15.4	-129.40	383.5	-319.2	661.4	637.5	23.87	27.703	
4,200.0	4,145.9	4,113.4	4,071.2	15.1	15.9	-129.68	396.9	-329.3	686.3	661.8	24.44	28.076	
4,300.0	4,243.5	4,210.2	4,166.5	15.5	16.3	-129.94	410.3	-339.4	711.2	686.2	25.02	28.429	
4,400.0	4,341.1	4,307.0	4,261.8	16.0	16.7	-130.18	423.7	-349.5	736.1	710.5	25.59	28.763	
4,500.0	4,438.8	4,403.8	4,357.1	16.4	17.1	-130.41	437.2	-359.7	761.0	734.9	26.17	29.080	
4,600.0	4,536.4	4,500.6	4,452.5	16.9	17.6	-130.62	450.6	-369.8	786.0	759.2	26.75	29.380	
4,700.0	4,634.0	4,597.4	4,547.8	17.3	18.0	-130.82	464.0	-379.9	811.0	783.6	27.34	29.665	
4,800.0	4,731.6	4,694.2	4,643.1	17.8	18.4	-131.01	477.4	-390.0	835.9	808.0	27.92	29.936	
4,900.0	4,829.3	4,791.0	4,738.5	18.2	18.8	-131.18	490.9	-400.1	860.9	832.4	28.51	30.194	

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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 802H - PILOT - PWP0 (PH)												Offset Site Error:	0.0 usft
Survey Program:	0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset												Rule Assigned:	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor		
						(°)	(usft)	(usft)	Centres	Ellipses	(usft)			
									(usft)	(usft)				
5,000.0	4,926.9	4,887.8	4,833.8	18.7	19.3	-131.35	504.3	-410.2	885.9	856.8	29.10	30.439		
5,100.0	5,024.5	4,984.6	4,929.1	19.1	19.7	-131.50	517.7	-420.3	910.9	881.2	29.70	30.672		
5,200.0	5,122.2	5,081.4	5,024.4	19.6	20.1	-131.65	531.1	-430.5	935.8	905.6	30.29	30.895		
5,300.0	5,219.8	5,178.2	5,119.8	20.0	20.6	-131.79	544.6	-440.6	960.8	930.0	30.89	31.108		
5,400.0	5,317.4	5,275.0	5,215.1	20.5	21.0	-131.93	558.0	-450.7	985.8	954.4	31.49	31.311		

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 702H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.5usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=32ft @ 3398.5usft

Offset Depths are relative to Offset Datum

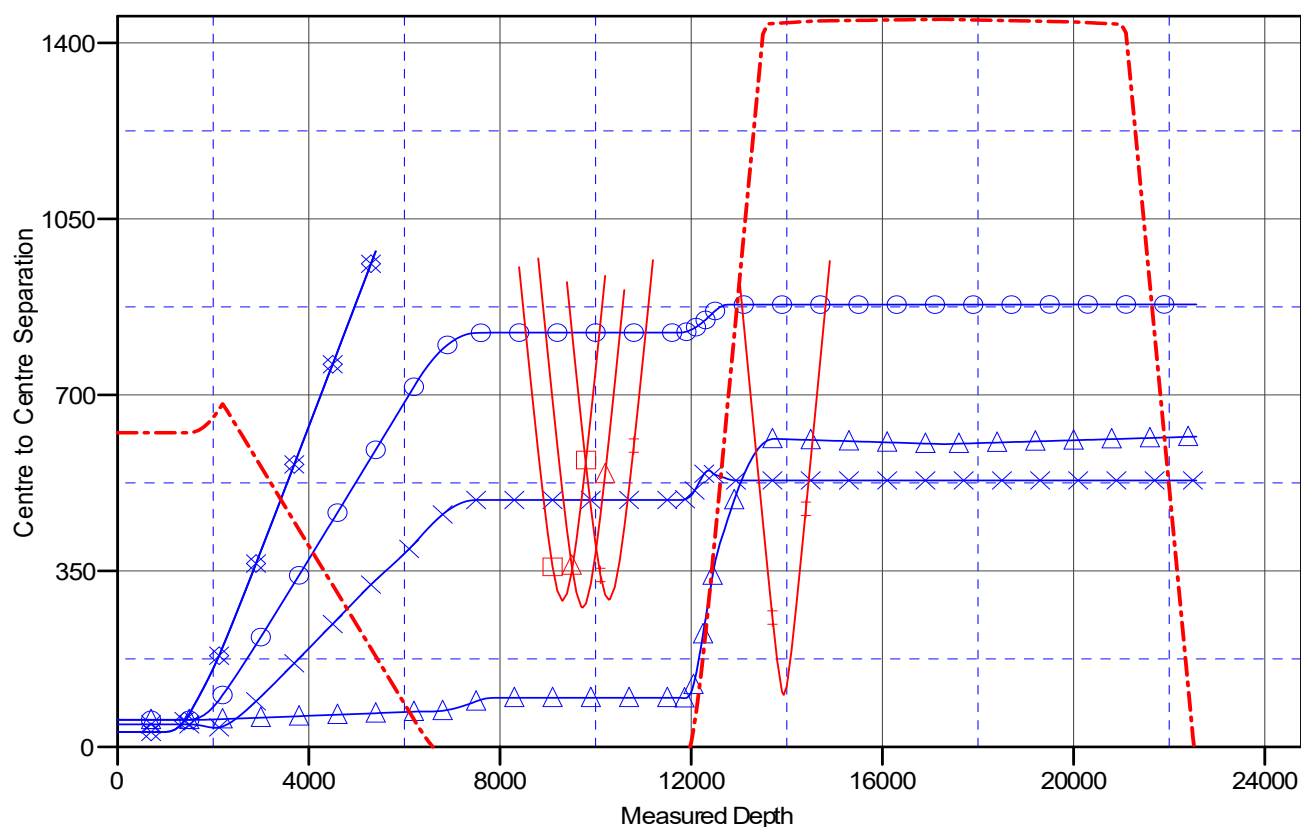
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: HARRIER FEDERAL COM 702H

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

Grid Convergence at Surface is: 0.36°

Ladder Plot



LEGEND

HARRIER FEDERAL COM 703H, OWB, PWP0 V0	HARRIER FEDERAL COM #303H, OWB, AWP V0	HARRIER 35 FEDERAL COM #8H, OWB, AWP V0
HARRIER FEDERAL COM #10H, OWB, AWP V0	HARRIER FEDERAL COM 802H, PILOT, PWP0 (PH) V0	HARRIER FEDERAL COM #302H, OWB, AWP V0
HARRIER FEDERAL COM 704H, OWB, PWP0 V0	HARRIER FEDERAL COM 701H, OWB, PWP0 V0	HARRIER FEDERAL COM 802H, OWB, PWP0 V0

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

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

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

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

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

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

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-49888	Pool Code 98180	Pool Name WC-025 G-09 S253309P; Upper Wolfcamp
Property Code 325390	Property Name HARRIER FEDERAL COM	Well Number 702H
OGRID No. 229137	Operator Name COG OPERATING LLC	Elevation 3366.5'

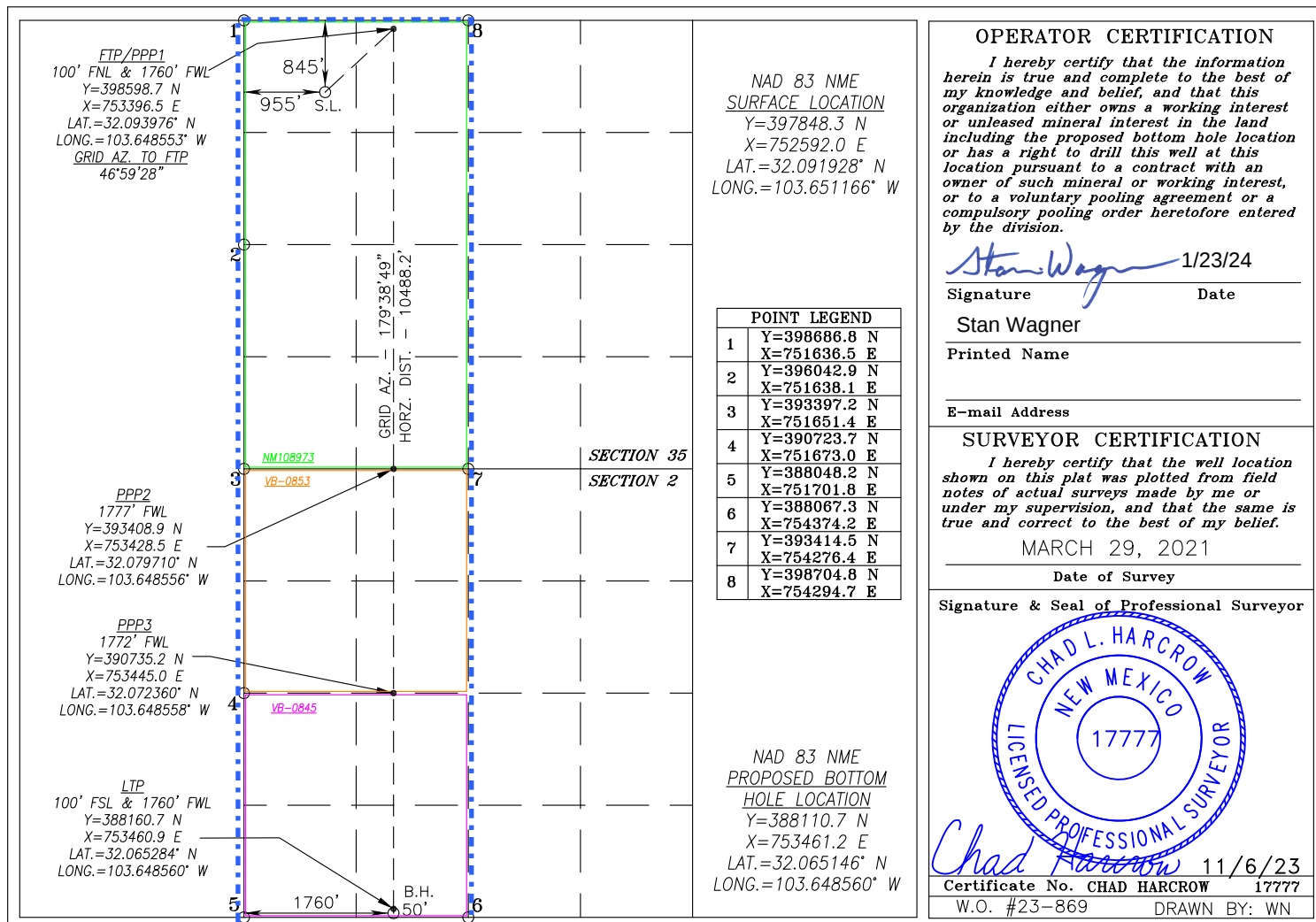
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	35	25-S	32-E		845	NORTH	955	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	2	26-S	32-E		50	SOUTH	1760	WEST	LEA
Dedicated Acres 640	Joint or Infill	Consolidation Code Com	Order No.						

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



DELAWARE BASIN EAST

LEA COUNT SOUTH WEST (NM-E)

HARRIER FEDERAL PROJECT

HARRIER FEDERAL COM 702H

300254988800

OWB

Plan: PWP0

Standard Planning Report

12 January, 2024

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 702H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32ft @ 3398.5usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB=32ft @ 3398.5usft
Site:	HARRIER FEDERAL PROJECT	North Reference:	Grid
Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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

Site	HARRIER FEDERAL PROJECT		
Site Position:		Northing:	398,637.10 usft
From:	Map	Easting:	741,887.40 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 5' 36.820 N
		Longitude:	103° 33' 8.116 W

Well	HARRIER FEDERAL COM 702H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	3.0 usft	Wellhead Elevation:	
Grid Convergence:	0.36 °		
		Latitude:	32° 5' 30.491 N
		Longitude:	103° 39' 2.498 W
		Ground Level:	3,366.5 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2023	4/1/2024	6.29	59.61	47,257.56688839

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	174.90	

Plan Survey Tool Program	Date	1/12/2024			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	22,570.4 PWP0 (OWB)	r.5 MWD+IFR1		
			OWSG MWD + IFR1 rev.5		

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 702H
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Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB=32ft @ 3398.5usft
Site:	HARRIER FEDERAL PROJECT	North Reference:	Grid
Well:	HARRIER FEDERAL COM 702H	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	
2,125.0	12.50	43.00	2,120.1	49.7	46.3	2.00	2.00	0.00	43.00	
6,252.8	12.50	43.00	6,150.0	703.1	655.6	0.00	0.00	0.00	0.00	
7,502.8	0.00	0.00	7,390.1	802.4	748.2	1.00	-1.00	-3.44	-180.00	
11,755.2	0.00	0.00	11,642.5	802.4	748.2	0.00	0.00	0.00	0.00	
12,505.2	90.00	174.40	12,120.0	327.2	794.8	12.00	12.00	0.00	174.40	
12,767.6	90.00	179.65	12,120.0	65.3	808.5	2.00	0.00	2.00	90.00	
22,570.4	90.00	179.65	12,120.0	-9,737.3	868.8	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 702H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32ft @ 3398.5usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB=32ft @ 3398.5usft
Site:	HARRIER FEDERAL PROJECT	North Reference:	Grid
Well:	HARRIER FEDERAL COM 702H	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	43.00	1,600.0	1.3	1.2	-1.2	2.00	2.00	0.00
1,700.0	4.00	43.00	1,699.8	5.1	4.8	-4.7	2.00	2.00	0.00
1,800.0	6.00	43.00	1,799.5	11.5	10.7	-10.5	2.00	2.00	0.00
1,900.0	8.00	43.00	1,898.7	20.4	19.0	-18.6	2.00	2.00	0.00
2,000.0	10.00	43.00	1,997.5	31.8	29.7	-29.1	2.00	2.00	0.00
2,100.0	12.00	43.00	2,095.6	45.8	42.7	-41.8	2.00	2.00	0.00
2,125.0	12.50	43.00	2,120.1	49.7	46.3	-45.4	2.00	2.00	0.00
Start 4127.8 hold at 2125.0 MD									
2,200.0	12.50	43.00	2,193.3	61.5	57.4	-56.2	0.00	0.00	0.00
2,300.0	12.50	43.00	2,290.9	77.4	72.1	-70.6	0.00	0.00	0.00
2,400.0	12.50	43.00	2,388.5	93.2	86.9	-85.1	0.00	0.00	0.00
2,500.0	12.50	43.00	2,486.2	109.0	101.7	-99.6	0.00	0.00	0.00
2,600.0	12.50	43.00	2,583.8	124.9	116.4	-114.0	0.00	0.00	0.00
2,700.0	12.50	43.00	2,681.4	140.7	131.2	-128.5	0.00	0.00	0.00
2,800.0	12.50	43.00	2,779.1	156.5	146.0	-142.9	0.00	0.00	0.00
2,900.0	12.50	43.00	2,876.7	172.3	160.7	-157.4	0.00	0.00	0.00
3,000.0	12.50	43.00	2,974.3	188.2	175.5	-171.8	0.00	0.00	0.00
3,100.0	12.50	43.00	3,071.9	204.0	190.2	-186.3	0.00	0.00	0.00
3,200.0	12.50	43.00	3,169.6	219.8	205.0	-200.7	0.00	0.00	0.00
3,300.0	12.50	43.00	3,267.2	235.7	219.8	-215.2	0.00	0.00	0.00
3,400.0	12.50	43.00	3,364.8	251.5	234.5	-229.7	0.00	0.00	0.00
3,500.0	12.50	43.00	3,462.5	267.3	249.3	-244.1	0.00	0.00	0.00
3,600.0	12.50	43.00	3,560.1	283.1	264.0	-258.6	0.00	0.00	0.00
3,700.0	12.50	43.00	3,657.7	299.0	278.8	-273.0	0.00	0.00	0.00
3,800.0	12.50	43.00	3,755.3	314.8	293.6	-287.5	0.00	0.00	0.00
3,900.0	12.50	43.00	3,853.0	330.6	308.3	-301.9	0.00	0.00	0.00
4,000.0	12.50	43.00	3,950.6	346.5	323.1	-316.4	0.00	0.00	0.00
4,100.0	12.50	43.00	4,048.2	362.3	337.8	-330.8	0.00	0.00	0.00
4,200.0	12.50	43.00	4,145.9	378.1	352.6	-345.3	0.00	0.00	0.00
4,300.0	12.50	43.00	4,243.5	394.0	367.4	-359.7	0.00	0.00	0.00
4,400.0	12.50	43.00	4,341.1	409.8	382.1	-374.2	0.00	0.00	0.00
4,500.0	12.50	43.00	4,438.8	425.6	396.9	-388.7	0.00	0.00	0.00
4,600.0	12.50	43.00	4,536.4	441.4	411.7	-403.1	0.00	0.00	0.00
4,700.0	12.50	43.00	4,634.0	457.3	426.4	-417.6	0.00	0.00	0.00
4,800.0	12.50	43.00	4,731.6	473.1	441.2	-432.0	0.00	0.00	0.00
4,900.0	12.50	43.00	4,829.3	488.9	455.9	-446.5	0.00	0.00	0.00
5,000.0	12.50	43.00	4,926.9	504.8	470.7	-460.9	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 702H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32ft @ 3398.5usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB=32ft @ 3398.5usft
Site:	HARRIER FEDERAL PROJECT	North Reference:	Grid
Well:	HARRIER FEDERAL COM 702H	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	12.50	43.00	5,024.5	520.6	485.5	-475.4	0.00	0.00	0.00	
5,200.0	12.50	43.00	5,122.2	536.4	500.2	-489.8	0.00	0.00	0.00	
5,300.0	12.50	43.00	5,219.8	552.2	515.0	-504.3	0.00	0.00	0.00	
5,400.0	12.50	43.00	5,317.4	568.1	529.7	-518.8	0.00	0.00	0.00	
5,500.0	12.50	43.00	5,415.1	583.9	544.5	-533.2	0.00	0.00	0.00	
5,600.0	12.50	43.00	5,512.7	599.7	559.3	-547.7	0.00	0.00	0.00	
5,700.0	12.50	43.00	5,610.3	615.6	574.0	-562.1	0.00	0.00	0.00	
5,800.0	12.50	43.00	5,707.9	631.4	588.8	-576.6	0.00	0.00	0.00	
5,900.0	12.50	43.00	5,805.6	647.2	603.5	-591.0	0.00	0.00	0.00	
6,000.0	12.50	43.00	5,903.2	663.1	618.3	-605.5	0.00	0.00	0.00	
6,100.0	12.50	43.00	6,000.8	678.9	633.1	-619.9	0.00	0.00	0.00	
6,200.0	12.50	43.00	6,098.5	694.7	647.8	-634.4	0.00	0.00	0.00	
6,252.8	12.50	43.00	6,150.0	703.1	655.6	-642.0	0.00	0.00	0.00	
Start DLS 1.00 TFO -180.00										
6,300.0	12.03	43.00	6,196.1	710.4	662.5	-648.7	1.00	-1.00	0.00	
6,400.0	11.03	43.00	6,294.1	725.0	676.1	-662.1	1.00	-1.00	0.00	
6,500.0	10.03	43.00	6,392.4	738.4	688.6	-674.3	1.00	-1.00	0.00	
6,600.0	9.03	43.00	6,491.0	750.5	699.8	-685.3	1.00	-1.00	0.00	
6,700.0	8.03	43.00	6,589.9	761.3	710.0	-695.2	1.00	-1.00	0.00	
6,800.0	7.03	43.00	6,689.1	770.9	718.9	-704.0	1.00	-1.00	0.00	
6,900.0	6.03	43.00	6,788.4	779.2	726.6	-711.6	1.00	-1.00	0.00	
7,000.0	5.03	43.00	6,888.0	786.3	733.2	-718.0	1.00	-1.00	0.00	
7,100.0	4.03	43.00	6,987.6	792.0	738.6	-723.3	1.00	-1.00	0.00	
7,200.0	3.03	43.00	7,087.5	796.5	742.8	-727.4	1.00	-1.00	0.00	
7,300.0	2.03	43.00	7,187.4	799.8	745.8	-730.3	1.00	-1.00	0.00	
7,400.0	1.03	43.00	7,287.3	801.7	747.6	-732.1	1.00	-1.00	0.00	
7,502.8	0.00	0.00	7,390.1	802.4	748.2	-732.7	1.00	-1.00	-41.83	
Start 4252.4 hold at 7502.8 MD										
7,600.0	0.00	0.00	7,487.3	802.4	748.2	-732.7	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,587.3	802.4	748.2	-732.7	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,687.3	802.4	748.2	-732.7	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,787.3	802.4	748.2	-732.7	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,887.3	802.4	748.2	-732.7	0.00	0.00	0.00	
8,100.0	0.00	0.00	7,987.3	802.4	748.2	-732.7	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,087.3	802.4	748.2	-732.7	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,187.3	802.4	748.2	-732.7	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,287.3	802.4	748.2	-732.7	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,387.3	802.4	748.2	-732.7	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,487.3	802.4	748.2	-732.7	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,587.3	802.4	748.2	-732.7	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,687.3	802.4	748.2	-732.7	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,787.3	802.4	748.2	-732.7	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,887.3	802.4	748.2	-732.7	0.00	0.00	0.00	
9,100.0	0.00	0.00	8,987.3	802.4	748.2	-732.7	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,087.3	802.4	748.2	-732.7	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,187.3	802.4	748.2	-732.7	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,287.3	802.4	748.2	-732.7	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,387.3	802.4	748.2	-732.7	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,487.3	802.4	748.2	-732.7	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,587.3	802.4	748.2	-732.7	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,687.3	802.4	748.2	-732.7	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,787.3	802.4	748.2	-732.7	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,887.3	802.4	748.2	-732.7	0.00	0.00	0.00	
10,100.0	0.00	0.00	9,987.3	802.4	748.2	-732.7	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 702H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32ft @ 3398.5usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB=32ft @ 3398.5usft
Site:	HARRIER FEDERAL PROJECT	North Reference:	Grid
Well:	HARRIER FEDERAL COM 702H	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)
10,200.0	0.00	0.00	10,087.3	802.4	748.2	-732.7	0.00	0.00	0.00
10,300.0	0.00	0.00	10,187.3	802.4	748.2	-732.7	0.00	0.00	0.00
10,400.0	0.00	0.00	10,287.3	802.4	748.2	-732.7	0.00	0.00	0.00
10,500.0	0.00	0.00	10,387.3	802.4	748.2	-732.7	0.00	0.00	0.00
10,600.0	0.00	0.00	10,487.3	802.4	748.2	-732.7	0.00	0.00	0.00
10,700.0	0.00	0.00	10,587.3	802.4	748.2	-732.7	0.00	0.00	0.00
10,800.0	0.00	0.00	10,687.3	802.4	748.2	-732.7	0.00	0.00	0.00
10,900.0	0.00	0.00	10,787.3	802.4	748.2	-732.7	0.00	0.00	0.00
11,000.0	0.00	0.00	10,887.3	802.4	748.2	-732.7	0.00	0.00	0.00
11,100.0	0.00	0.00	10,987.3	802.4	748.2	-732.7	0.00	0.00	0.00
11,200.0	0.00	0.00	11,087.3	802.4	748.2	-732.7	0.00	0.00	0.00
11,300.0	0.00	0.00	11,187.3	802.4	748.2	-732.7	0.00	0.00	0.00
11,400.0	0.00	0.00	11,287.3	802.4	748.2	-732.7	0.00	0.00	0.00
11,500.0	0.00	0.00	11,387.3	802.4	748.2	-732.7	0.00	0.00	0.00
11,600.0	0.00	0.00	11,487.3	802.4	748.2	-732.7	0.00	0.00	0.00
11,700.0	0.00	0.00	11,587.3	802.4	748.2	-732.7	0.00	0.00	0.00
11,755.2	0.00	0.00	11,642.5	802.4	748.2	-732.7	0.00	0.00	0.00
Start Build 12.00									
11,775.0	2.37	174.40	11,662.3	802.0	748.3	-732.3	12.00	12.00	881.64
11,800.0	5.37	174.40	11,687.3	800.3	748.5	-730.6	12.00	12.00	0.00
11,825.0	8.37	174.40	11,712.1	797.3	748.7	-727.6	12.00	12.00	0.00
11,850.0	11.37	174.40	11,736.7	793.1	749.2	-723.3	12.00	12.00	0.00
11,875.0	14.37	174.40	11,761.1	787.5	749.7	-717.8	12.00	12.00	0.00
11,900.0	17.37	174.40	11,785.1	780.7	750.4	-710.9	12.00	12.00	0.00
11,925.0	20.37	174.40	11,808.8	772.7	751.2	-702.9	12.00	12.00	0.00
11,950.0	23.37	174.40	11,832.0	763.4	752.1	-693.5	12.00	12.00	0.00
11,975.0	26.37	174.40	11,854.6	752.9	753.1	-683.0	12.00	12.00	0.00
12,000.0	29.37	174.40	11,876.7	741.3	754.2	-671.3	12.00	12.00	0.00
12,025.0	32.37	174.40	11,898.2	728.5	755.5	-658.5	12.00	12.00	0.00
12,050.0	35.37	174.40	11,918.9	714.7	756.8	-644.6	12.00	12.00	0.00
12,075.0	38.37	174.40	11,938.9	699.7	758.3	-629.6	12.00	12.00	0.00
12,100.0	41.37	174.40	11,958.1	683.8	759.9	-613.6	12.00	12.00	0.00
12,125.0	44.37	174.40	11,976.4	666.9	761.5	-596.6	12.00	12.00	0.00
12,150.0	47.37	174.40	11,993.8	649.0	763.3	-578.6	12.00	12.00	0.00
12,175.0	50.37	174.40	12,010.3	630.3	765.1	-559.8	12.00	12.00	0.00
12,200.0	53.37	174.40	12,025.7	610.7	767.0	-540.1	12.00	12.00	0.00
12,225.0	56.37	174.40	12,040.1	590.4	769.0	-519.7	12.00	12.00	0.00
12,250.0	59.37	174.40	12,053.4	569.3	771.1	-498.5	12.00	12.00	0.00
12,275.0	62.37	174.40	12,065.6	547.6	773.2	-476.7	12.00	12.00	0.00
12,300.0	65.37	174.40	12,076.6	525.2	775.4	-454.2	12.00	12.00	0.00
12,325.0	68.37	174.40	12,086.4	502.3	777.7	-431.2	12.00	12.00	0.00
12,350.0	71.37	174.40	12,095.0	479.0	780.0	-407.8	12.00	12.00	0.00
12,375.0	74.37	174.40	12,102.4	455.2	782.3	-383.9	12.00	12.00	0.00
12,400.0	77.37	174.40	12,108.5	431.1	784.7	-359.6	12.00	12.00	0.00
12,425.0	80.37	174.40	12,113.3	406.7	787.0	-335.1	12.00	12.00	0.00
12,450.0	83.37	174.40	12,116.8	382.0	789.5	-310.4	12.00	12.00	0.00
12,475.0	86.37	174.40	12,119.0	357.3	791.9	-285.5	12.00	12.00	0.00
12,500.0	89.37	174.40	12,120.0	332.4	794.3	-260.5	12.00	12.00	0.00
12,505.2	90.00	174.40	12,120.0	327.2	794.8	-255.3	12.00	12.00	0.00
Start DLS 2.00 TFO 90.00									
12,600.0	90.00	176.30	12,120.0	232.7	802.5	-160.5	2.00	0.00	2.00
12,700.0	90.00	178.30	12,120.0	132.9	807.2	-60.6	2.00	0.00	2.00
12,767.6	90.00	179.65	12,120.0	65.3	808.5	6.8	2.00	0.00	2.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 702H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32ft @ 3398.5usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB=32ft @ 3398.5usft
Site:	HARRIER FEDERAL PROJECT	North Reference:	Grid
Well:	HARRIER FEDERAL COM 702H	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 9802.8 hold at 12767.6 MD									
12,800.0	90.00	179.65	12,120.0	32.9	808.7	39.1	0.00	0.00	0.00
12,900.0	90.00	179.65	12,120.0	-67.1	809.3	138.8	0.00	0.00	0.00
13,000.0	90.00	179.65	12,120.0	-167.1	809.9	238.4	0.00	0.00	0.00
13,100.0	90.00	179.65	12,120.0	-267.1	810.5	338.1	0.00	0.00	0.00
13,200.0	90.00	179.65	12,120.0	-367.1	811.1	437.7	0.00	0.00	0.00
13,300.0	90.00	179.65	12,120.0	-467.1	811.7	537.4	0.00	0.00	0.00
13,400.0	90.00	179.65	12,120.0	-567.1	812.4	637.1	0.00	0.00	0.00
13,500.0	90.00	179.65	12,120.0	-667.1	813.0	736.7	0.00	0.00	0.00
13,600.0	90.00	179.65	12,120.0	-767.1	813.6	836.4	0.00	0.00	0.00
13,700.0	90.00	179.65	12,120.0	-867.1	814.2	936.0	0.00	0.00	0.00
13,800.0	90.00	179.65	12,120.0	-967.1	814.8	1,035.7	0.00	0.00	0.00
13,900.0	90.00	179.65	12,120.0	-1,067.1	815.4	1,135.3	0.00	0.00	0.00
14,000.0	90.00	179.65	12,120.0	-1,167.1	816.0	1,235.0	0.00	0.00	0.00
14,100.0	90.00	179.65	12,120.0	-1,267.1	816.7	1,334.7	0.00	0.00	0.00
14,200.0	90.00	179.65	12,120.0	-1,367.1	817.3	1,434.3	0.00	0.00	0.00
14,300.0	90.00	179.65	12,120.0	-1,467.1	817.9	1,534.0	0.00	0.00	0.00
14,400.0	90.00	179.65	12,120.0	-1,567.1	818.5	1,633.6	0.00	0.00	0.00
14,500.0	90.00	179.65	12,120.0	-1,667.1	819.1	1,733.3	0.00	0.00	0.00
14,600.0	90.00	179.65	12,120.0	-1,767.1	819.7	1,832.9	0.00	0.00	0.00
14,700.0	90.00	179.65	12,120.0	-1,867.1	820.4	1,932.6	0.00	0.00	0.00
14,800.0	90.00	179.65	12,120.0	-1,967.1	821.0	2,032.3	0.00	0.00	0.00
14,900.0	90.00	179.65	12,120.0	-2,067.1	821.6	2,131.9	0.00	0.00	0.00
15,000.0	90.00	179.65	12,120.0	-2,167.1	822.2	2,231.6	0.00	0.00	0.00
15,100.0	90.00	179.65	12,120.0	-2,267.1	822.8	2,331.2	0.00	0.00	0.00
15,200.0	90.00	179.65	12,120.0	-2,367.1	823.4	2,430.9	0.00	0.00	0.00
15,300.0	90.00	179.65	12,120.0	-2,467.1	824.0	2,530.5	0.00	0.00	0.00
15,400.0	90.00	179.65	12,120.0	-2,567.1	824.7	2,630.2	0.00	0.00	0.00
15,500.0	90.00	179.65	12,120.0	-2,667.1	825.3	2,729.9	0.00	0.00	0.00
15,600.0	90.00	179.65	12,120.0	-2,767.1	825.9	2,829.5	0.00	0.00	0.00
15,700.0	90.00	179.65	12,120.0	-2,867.1	826.5	2,929.2	0.00	0.00	0.00
15,800.0	90.00	179.65	12,120.0	-2,967.1	827.1	3,028.8	0.00	0.00	0.00
15,900.0	90.00	179.65	12,120.0	-3,067.1	827.7	3,128.5	0.00	0.00	0.00
16,000.0	90.00	179.65	12,120.0	-3,167.1	828.4	3,228.1	0.00	0.00	0.00
16,100.0	90.00	179.65	12,120.0	-3,267.1	829.0	3,327.8	0.00	0.00	0.00
16,200.0	90.00	179.65	12,120.0	-3,367.1	829.6	3,427.5	0.00	0.00	0.00
16,300.0	90.00	179.65	12,120.0	-3,467.1	830.2	3,527.1	0.00	0.00	0.00
16,400.0	90.00	179.65	12,120.0	-3,567.1	830.8	3,626.8	0.00	0.00	0.00
16,500.0	90.00	179.65	12,120.0	-3,667.1	831.4	3,726.4	0.00	0.00	0.00
16,600.0	90.00	179.65	12,120.0	-3,767.1	832.0	3,826.1	0.00	0.00	0.00
16,700.0	90.00	179.65	12,120.0	-3,867.1	832.7	3,925.7	0.00	0.00	0.00
16,800.0	90.00	179.65	12,120.0	-3,967.0	833.3	4,025.4	0.00	0.00	0.00
16,900.0	90.00	179.65	12,120.0	-4,067.0	833.9	4,125.1	0.00	0.00	0.00
17,000.0	90.00	179.65	12,120.0	-4,167.0	834.5	4,224.7	0.00	0.00	0.00
17,100.0	90.00	179.65	12,120.0	-4,267.0	835.1	4,324.4	0.00	0.00	0.00
17,200.0	90.00	179.65	12,120.0	-4,367.0	835.7	4,424.0	0.00	0.00	0.00
17,300.0	90.00	179.65	12,120.0	-4,467.0	836.4	4,523.7	0.00	0.00	0.00
17,400.0	90.00	179.65	12,120.0	-4,567.0	837.0	4,623.3	0.00	0.00	0.00
17,500.0	90.00	179.65	12,120.0	-4,667.0	837.6	4,723.0	0.00	0.00	0.00
17,600.0	90.00	179.65	12,120.0	-4,767.0	838.2	4,822.7	0.00	0.00	0.00
17,700.0	90.00	179.65	12,120.0	-4,867.0	838.8	4,922.3	0.00	0.00	0.00
17,800.0	90.00	179.65	12,120.0	-4,967.0	839.4	5,022.0	0.00	0.00	0.00
17,900.0	90.00	179.65	12,120.0	-5,067.0	840.1	5,121.6	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 702H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32ft @ 3398.5usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB=32ft @ 3398.5usft
Site:	HARRIER FEDERAL PROJECT	North Reference:	Grid
Well:	HARRIER FEDERAL COM 702H	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	12,120.0	-5,167.0	840.7	5,221.3	0.00	0.00	0.00
18,100.0	90.00	179.65	12,120.0	-5,267.0	841.3	5,320.9	0.00	0.00	0.00
18,200.0	90.00	179.65	12,120.0	-5,367.0	841.9	5,420.6	0.00	0.00	0.00
18,300.0	90.00	179.65	12,120.0	-5,467.0	842.5	5,520.3	0.00	0.00	0.00
18,400.0	90.00	179.65	12,120.0	-5,567.0	843.1	5,619.9	0.00	0.00	0.00
18,500.0	90.00	179.65	12,120.0	-5,667.0	843.7	5,719.6	0.00	0.00	0.00
18,600.0	90.00	179.65	12,120.0	-5,767.0	844.4	5,819.2	0.00	0.00	0.00
18,700.0	90.00	179.65	12,120.0	-5,867.0	845.0	5,918.9	0.00	0.00	0.00
18,800.0	90.00	179.65	12,120.0	-5,967.0	845.6	6,018.5	0.00	0.00	0.00
18,900.0	90.00	179.65	12,120.0	-6,067.0	846.2	6,118.2	0.00	0.00	0.00
19,000.0	90.00	179.65	12,120.0	-6,167.0	846.8	6,217.9	0.00	0.00	0.00
19,100.0	90.00	179.65	12,120.0	-6,267.0	847.4	6,317.5	0.00	0.00	0.00
19,200.0	90.00	179.65	12,120.0	-6,367.0	848.1	6,417.2	0.00	0.00	0.00
19,300.0	90.00	179.65	12,120.0	-6,467.0	848.7	6,516.8	0.00	0.00	0.00
19,400.0	90.00	179.65	12,120.0	-6,567.0	849.3	6,616.5	0.00	0.00	0.00
19,500.0	90.00	179.65	12,120.0	-6,667.0	849.9	6,716.1	0.00	0.00	0.00
19,600.0	90.00	179.65	12,120.0	-6,767.0	850.5	6,815.8	0.00	0.00	0.00
19,700.0	90.00	179.65	12,120.0	-6,867.0	851.1	6,915.5	0.00	0.00	0.00
19,800.0	90.00	179.65	12,120.0	-6,967.0	851.7	7,015.1	0.00	0.00	0.00
19,900.0	90.00	179.65	12,120.0	-7,067.0	852.4	7,114.8	0.00	0.00	0.00
20,000.0	90.00	179.65	12,120.0	-7,167.0	853.0	7,214.4	0.00	0.00	0.00
20,100.0	90.00	179.65	12,120.0	-7,267.0	853.6	7,314.1	0.00	0.00	0.00
20,200.0	90.00	179.65	12,120.0	-7,367.0	854.2	7,413.7	0.00	0.00	0.00
20,300.0	90.00	179.65	12,120.0	-7,467.0	854.8	7,513.4	0.00	0.00	0.00
20,400.0	90.00	179.65	12,120.0	-7,567.0	855.4	7,613.1	0.00	0.00	0.00
20,500.0	90.00	179.65	12,120.0	-7,667.0	856.1	7,712.7	0.00	0.00	0.00
20,600.0	90.00	179.65	12,120.0	-7,767.0	856.7	7,812.4	0.00	0.00	0.00
20,700.0	90.00	179.65	12,120.0	-7,867.0	857.3	7,912.0	0.00	0.00	0.00
20,800.0	90.00	179.65	12,120.0	-7,967.0	857.9	8,011.7	0.00	0.00	0.00
20,900.0	90.00	179.65	12,120.0	-8,067.0	858.5	8,111.3	0.00	0.00	0.00
21,000.0	90.00	179.65	12,120.0	-8,167.0	859.1	8,211.0	0.00	0.00	0.00
21,100.0	90.00	179.65	12,120.0	-8,267.0	859.7	8,310.7	0.00	0.00	0.00
21,200.0	90.00	179.65	12,120.0	-8,367.0	860.4	8,410.3	0.00	0.00	0.00
21,300.0	90.00	179.65	12,120.0	-8,467.0	861.0	8,510.0	0.00	0.00	0.00
21,400.0	90.00	179.65	12,120.0	-8,567.0	861.6	8,609.6	0.00	0.00	0.00
21,500.0	90.00	179.65	12,120.0	-8,667.0	862.2	8,709.3	0.00	0.00	0.00
21,600.0	90.00	179.65	12,120.0	-8,767.0	862.8	8,808.9	0.00	0.00	0.00
21,700.0	90.00	179.65	12,120.0	-8,867.0	863.4	8,908.6	0.00	0.00	0.00
21,800.0	90.00	179.65	12,120.0	-8,967.0	864.1	9,008.3	0.00	0.00	0.00
21,900.0	90.00	179.65	12,120.0	-9,067.0	864.7	9,107.9	0.00	0.00	0.00
22,000.0	90.00	179.65	12,120.0	-9,167.0	865.3	9,207.6	0.00	0.00	0.00
22,100.0	90.00	179.65	12,120.0	-9,266.9	865.9	9,307.2	0.00	0.00	0.00
22,200.0	90.00	179.65	12,120.0	-9,366.9	866.5	9,406.9	0.00	0.00	0.00
22,300.0	90.00	179.65	12,120.0	-9,466.9	867.1	9,506.5	0.00	0.00	0.00
22,400.0	90.00	179.65	12,120.0	-9,566.9	867.8	9,606.2	0.00	0.00	0.00
22,500.0	90.00	179.65	12,120.0	-9,666.9	868.4	9,705.9	0.00	0.00	0.00
22,570.4	90.00	179.65	12,120.0	-9,737.3	868.8	9,776.0	0.00	0.00	0.00
TD at 22570.4									

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 702H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32ft @ 3398.5usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB=32ft @ 3398.5usft
Site:	HARRIER FEDERAL PROJECT	North Reference:	Grid
Well:	HARRIER FEDERAL COM 702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
702H_KOP BOX_ 0'N & - plan hits target center - Rectangle (sides W50.0 H50.0 D4,252.4)	0.00	0.00	11,642.5	802.4	748.2	398,592.99	712,153.94	32° 5' 38.384 N	103° 38' 53.741 W
LTP_HARRIER 702H - plan misses target center by 20.4usft at 22500.0usft MD (12120.0 TVD, -9666.9 N, 868.4 E) - Circle (radius 50.0)	90.00	179.65	12,120.0	-9,687.3	868.4	388,103.30	712,274.10	32° 3' 54.571 N	103° 38' 53.119 W
PBHL_HARRIER 702H - plan hits target center - Rectangle (sides W100.0 H10,487.9 D20.0)	0.00	359.65	12,120.0	-9,737.3	868.8	388,053.30	712,274.50	32° 3' 54.077 N	103° 38' 53.118 W
FTP_HARRIER 702H - plan misses target center by 166.6usft at 12160.0usft MD (12000.5 TVD, 641.6 N, 764.0 E) - Circle (radius 50.0)	0.00	0.00	12,120.0	750.4	804.6	398,541.00	712,210.30	32° 5' 37.866 N	103° 38' 53.090 W

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
		(usft)	(usft)		
1,500.0	1,500.0	0.0	0.0	Start Build 2.00	
2,125.0	2,120.1	49.7	46.3	Start 4127.8 hold at 2125.0 MD	
6,252.8	6,150.0	703.1	655.6	Start DLS 1.00 TFO -180.00	
7,502.8	7,390.1	802.4	748.2	Start 4252.4 hold at 7502.8 MD	
11,755.2	11,642.5	802.4	748.2	Start Build 12.00	
12,505.2	12,120.0	327.2	794.8	Start DLS 2.00 TFO 90.00	
12,767.6	12,120.0	65.3	808.5	Start 9802.8 hold at 12767.6 MD	
22,570.4	12,120.0	-9,737.3	868.8	TD at 22570.4	

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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 319199

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 319199
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	3/19/2024