U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

02/29/2024

Well Name: HARRIER FEDERAL COM

Well Location: T25S / R32E / SEC 35 / NWNW /

County or Parish/State:

Well Number: 703H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM108973

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002549889

Well Status: Approved Application for Permit to Drill

Operator: COG OPERATING LLC

Notice of Intent

Sundry ID: 2774645

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 02/12/2024

Time Sundry Submitted: 12:29

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 BHL FROM: 50' FSL & 1430' FWL SESW 2-26S-32E Change BHL TO: 50' FSL & 1310' FWL SWSW 2-26S-32E

NOI Attachments

Procedure Description

HARRIER_FEDERAL_COM_703H_C102_A_NAD83_signed_1_23_24_20240212122850.pdf

Harrier_Fed_Com_703H_APD_drill_plan_20240212122850.pdf

HARRIER_FEDERAL_COM_703H_C102_NAD83_signed_1_23_24_20240212122850.pdf

HARRIER_FED_COM_703H_PWP0_PPLOT_20240212122850.pdf

HARRIER_FED_COM_703H_PWP0_AC_RPT_20240212122850.pdf

HARRIER_FED_COM_703H_PWP0_DIR_RPT_20240212122850.pdf

Well Name: HARRIER FEDERAL COM	**Well Location:** T25S / R32E / SEC 35 / NWNW /	**County or Parish/State:**
Well Number: 703H	**Type of Well:** OIL WELL	**Allottee or Tribe Name:**
Lease Number: NMNM108973	**Unit or CA Name:**	**Unit or CA Number:**
US Well Number: 3002549889	**Well Status:** Approved Application for Permit to Drill	**Operator:** COG OPERATING LLC

Operator

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

Operator Electronic Signature: STAN WAGNER

Signed on: FEB 12, 2024 12:29 PM

Name: COG OPERATING LLC

Title: Regulatory Advisor

Street Address: 600 WEST ILLINOIS AVE

City: MIDLAND **State:** TX

Phone: (432) 253-9685

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

Field

Representative 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.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or Exploratory Area

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*

11. Country or Parish, State

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
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ 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 recomplete 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 OFICE 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 ofthis form to U.S. Department ofthe Interior, Bureau ofLand 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 / 890 FNL / 955 FWL / TWSP: 25S / RANGE: 32E / SECTION: 35 / LAT: 32.091804 / LONG: -103.651167 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 100 FNL / 995 FWL / TWSP: 25S / RANGE: 32E / SECTION: 35 / LAT: 32.093976 / LONG: -103.651024 (TVD: 12116 feet, MD: 12158 feet)

BHL: SWSW / 50 FSL / 1430 FWL / TWSP: 26S / RANGE: 32E / SECTION: 2 / LAT: 32.065145 / LONG: -103.651029 (TVD: 12429 feet, MD: 22792 feet)

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	Pool Code	Pool Name
30-025-49889	98180	WC-025 G-09 S253309P;UPR WOLFCAMP

Property Code	Property Name	Well Number
325390	HARRIER FEDERAL COM	703H

OGRID No.	Operator Name	Elevation
229137	COG OPERATING LLC	3366.5'

Surface Location

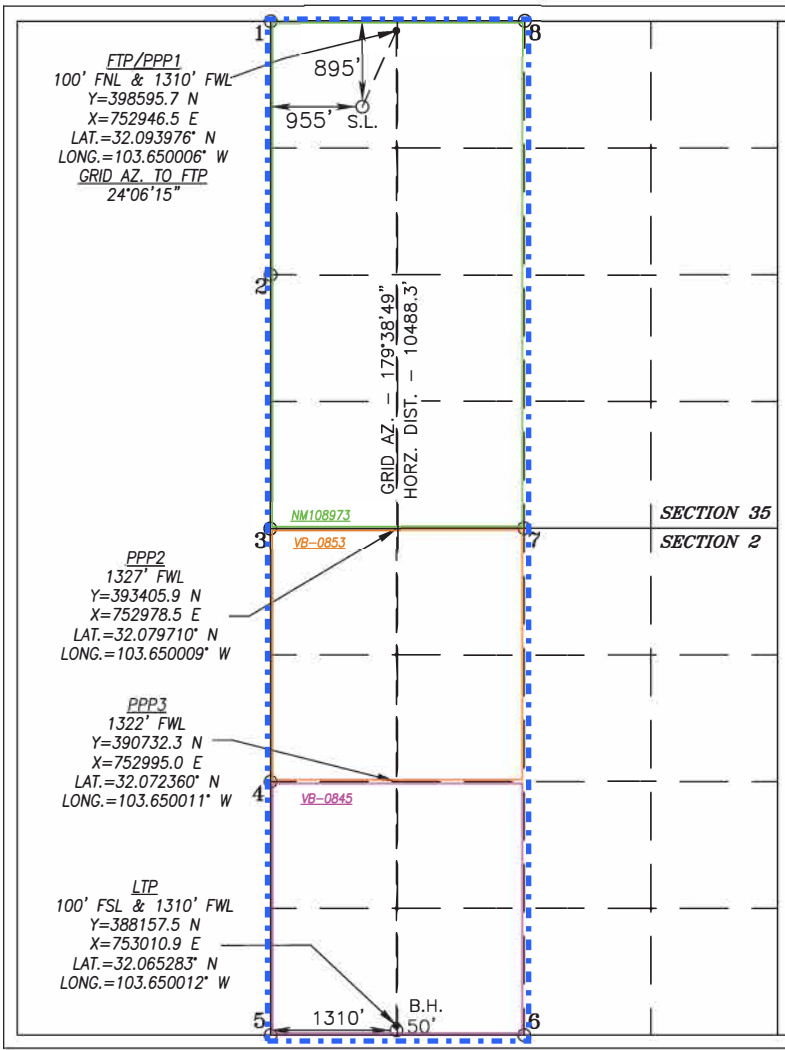
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	35	25-S	32-E		890	NORTH	955	WEST	LEA

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
M	2	26-S	32-E		50	SOUTH	1310	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
640		Com	

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



NAD 83 NME
SURFACE LOCATION
Y=397803.3 N
X=752592.0 E
LAT.=32.091804° N
LONG.=103.651167° W

POINT LEGEND	
1	Y=398686.8 N X=751636.5 E
2	Y=396042.9 N X=751638.1 E
3	Y=393397.2 N X=751651.4 E
4	Y=390723.7 N X=751673.0 E
5	Y=388048.2 N X=751701.8 E
6	Y=388067.3 N X=754374.2 E
7	Y=393414.5 N X=754276.4 E
8	Y=398704.8 N X=754294.7 E

NAD 83 NME
PROPOSED BOTTOM HOLE LOCATION
Y=388107.5 N
X=753011.2 E
LAT.=32.065145° N
LONG.=103.650012° W

OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Stan Wagner 1/23/24
Signature Date

Stan Wagner
Printed Name

E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MARCH 29, 2021
Date of Survey

Signature & Seal of Professional Surveyor

CHAD L. HARCROW
NEW MEXICO
17777
LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 11/6/23
Certificate No. CHAD HARCROW 17777
W.O. #23-868 DRAWN BY: WN

COG Operating, LLC - Harrier Federal Com 703H

1. Geologic Formations

TVD of target	12,400' EOL	Pilot hole depth	NA
MD at TD:	22,830'	Deepest expected fresh water:	207'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	746	Water	
Top of Salt	1109	Salt	
Base of Salt	4505	Salt	
Lamar	4701	Salt Water	
Bell Canyon	4736	Salt Water	
Cherry Canyon	5727	Oil/Gas	
Brushy Canyon	7293	Oil/Gas	
Bone Spring Lime	8856	Oil/Gas	
1st Bone Spring Sand	9820	Oil/Gas	
2nd Bone Spring Sand	10438	Oil/Gas	
3rd Bone Spring Sand	11603	Oil/Gas	
Wolfcamp A	12226	Target	
Wolfcamp B	0	Not Penetrated	
Wolfcamp D	0	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF	SF
	From	To		(lbs)			Collapse		Body	Joint
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	1.39	2.68	1.59
6.75"	0	11300	5.5"	23	P110	BTC	1.98	2.34	2.80	2.79
6.75"	11300	22,830	5.5"	23	P110	Talon	1.81	2.14	2.57	2.49
					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 703H

	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 3rd 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 2nd 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 703H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	501	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
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%
1st Intermediate	0’	50%
Production	11,300'	35% OH in Lateral (KOP to EOL)

COG Operating, LLC - Harrier Federal Com 703H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

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 703H

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 703H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8025 psi at 12343' 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	H2S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
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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
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DISTRICT IV
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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	Pool Code	Pool Name
30-025-49889	98180	WC-025 G-09 S253309P; Upper Wolfcamp

Property Code	Property Name	Well Number
325390	HARRIER FEDERAL COM	703H

OGRID No.	Operator Name	Elevation
229137	COG OPERATING LLC	3366.5'

Surface Location

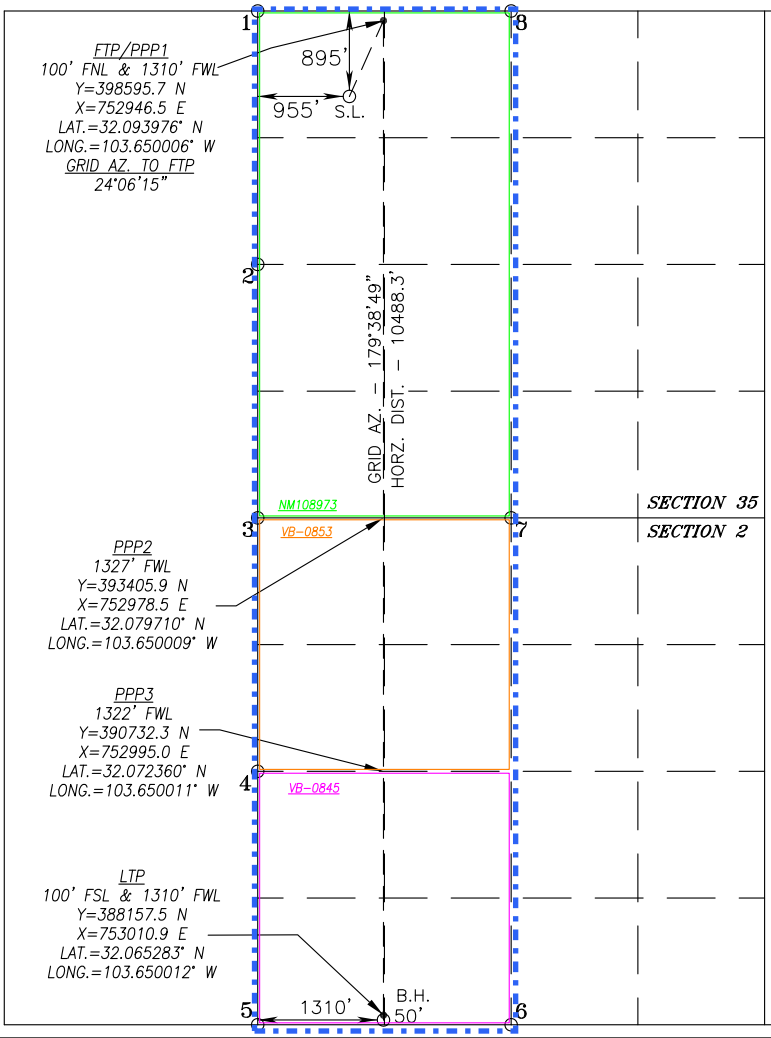
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	35	25-S	32-E		890	NORTH	955	WEST	LEA

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
M	2	26-S	32-E		50	SOUTH	1310	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
640		Com	

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



NAD 83 NME
SURFACE LOCATION
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LAT.=32.091804° N
LONG.=103.651167° W

POINT LEGEND	
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3	Y=393397.2 N X=751651.4 E
4	Y=390723.7 N X=751673.0 E
5	Y=388048.2 N X=751701.8 E
6	Y=388067.3 N X=754374.2 E
7	Y=393414.5 N X=754276.4 E
8	Y=398704.8 N X=754294.7 E

NAD 83 NME
PROPOSED BOTTOM
HOLE LOCATION
Y=388107.5 N
X=753011.2 E
LAT.=32.065145° N
LONG.=103.650012° W

OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature 1/23/24 Date

Stan Wagner
Printed Name

E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MARCH 29, 2021
Date of Survey

Signature & Seal of Professional Surveyor

CHAD L. HARCROW
NEW MEXICO
17777
LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 11/6/23

Certificate No. CHAD HARCROW 17777

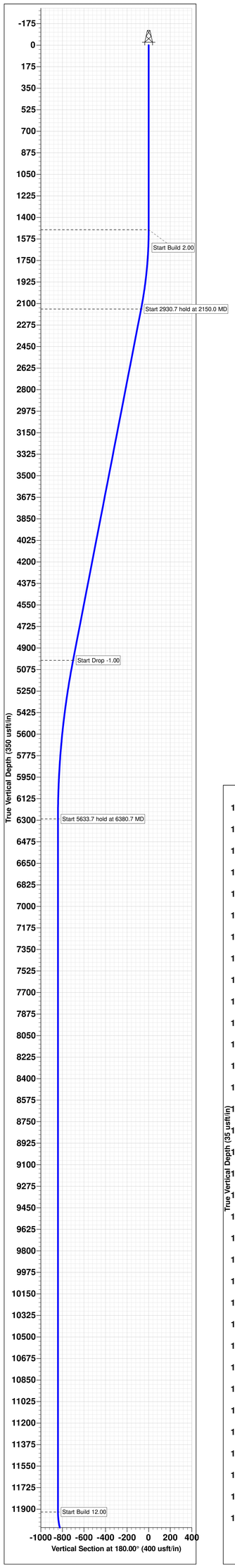
W.O. #23-868 DRAWN BY: WN

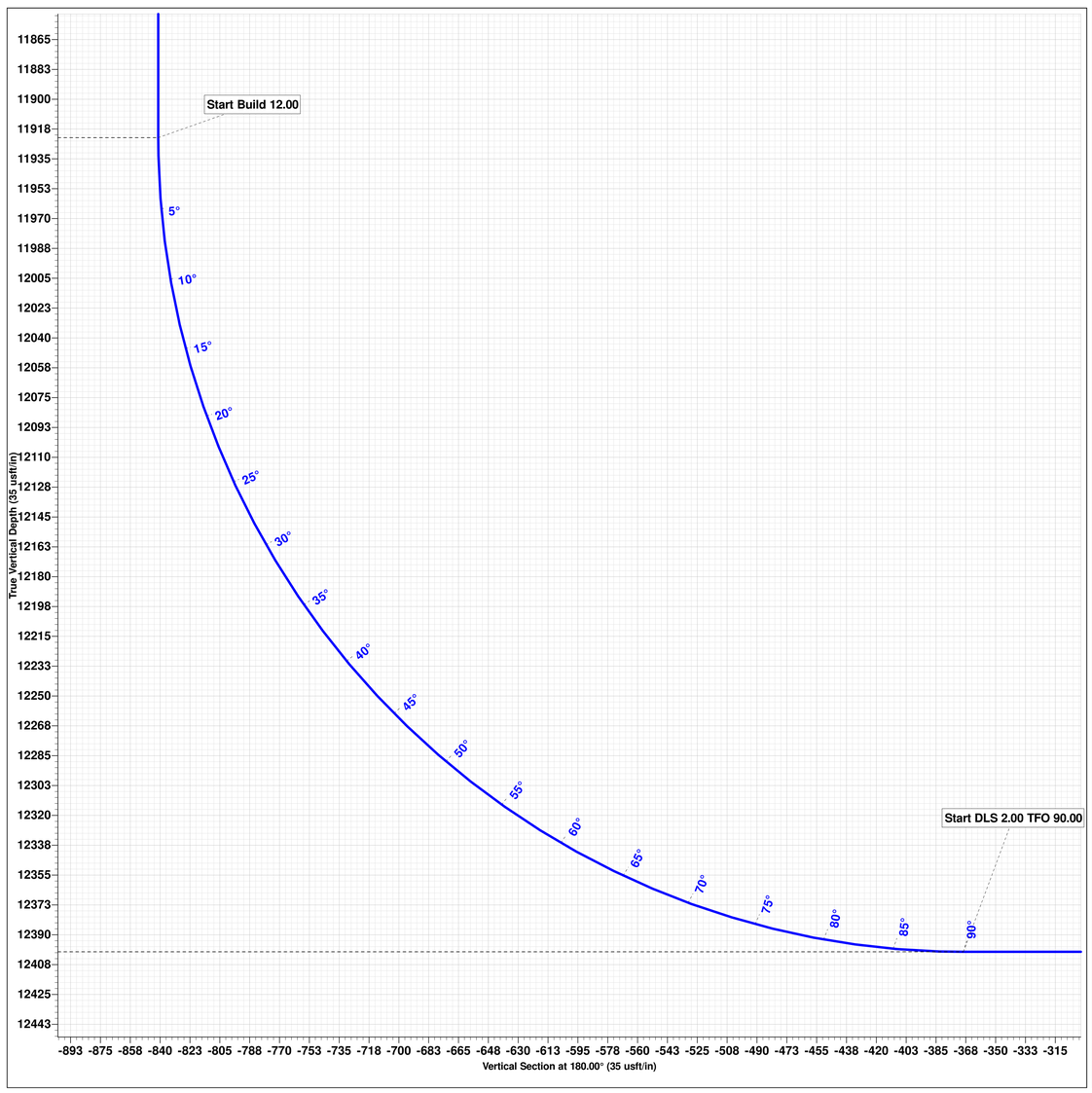
ConocoPhillips

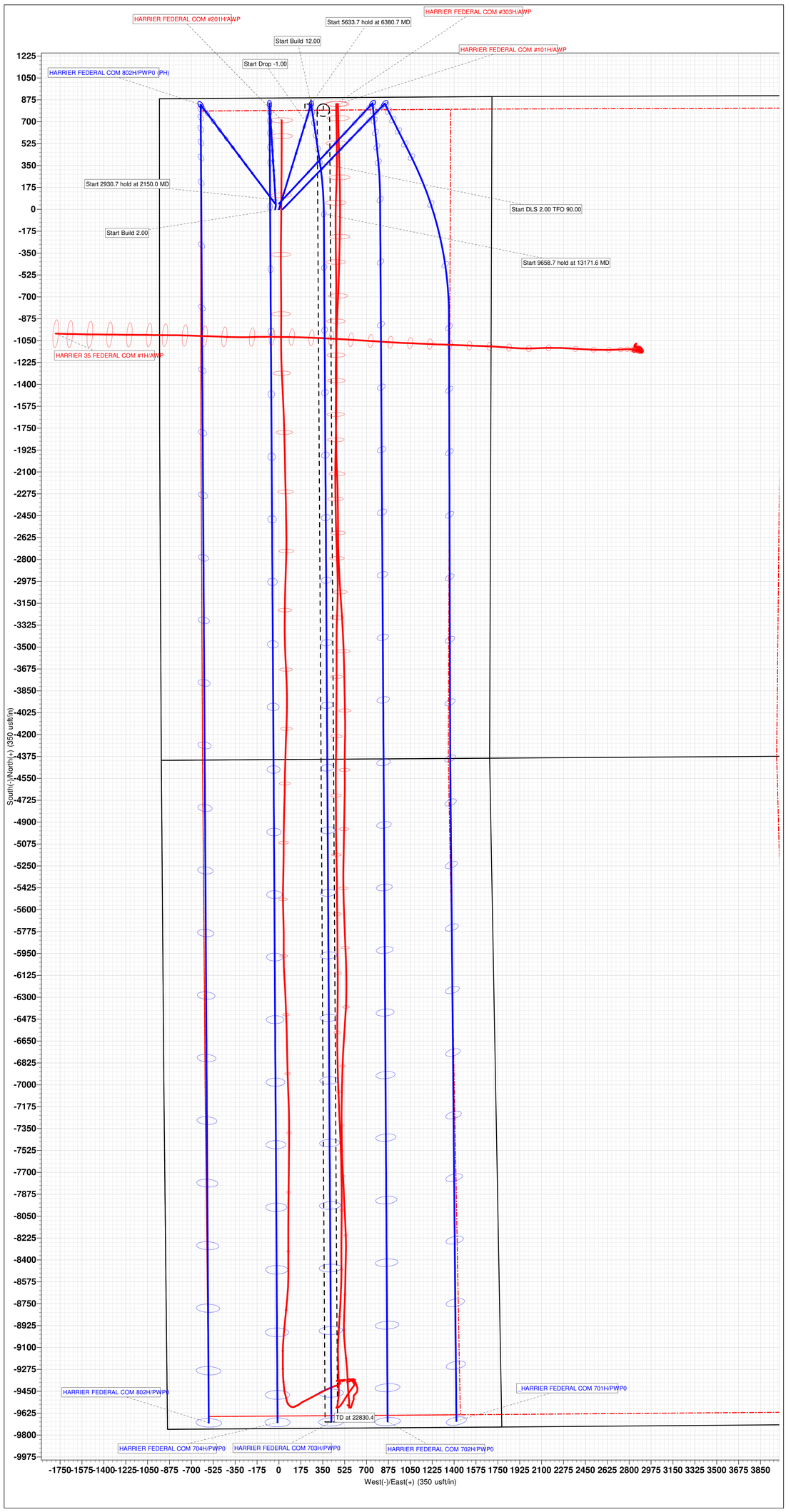
Project:	LEA COUNT SOUTH WEST (NM-E)
Site:	HARRIER FEDERAL PROJECT
Well:	HARRIER FEDERAL COM 703H
Wellbore:	OWB
Design:	PWP0

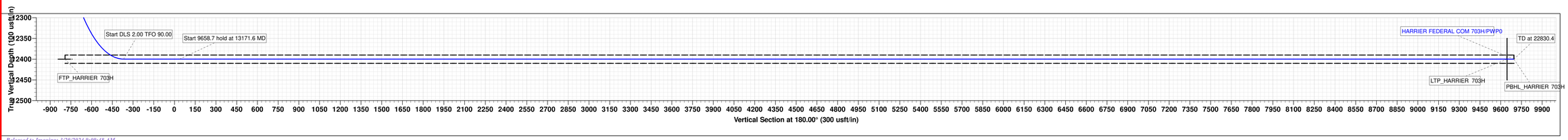
SECTION DETAILS

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
2150.0	13.00	17.00	2144.4	70.2	21.5	2.00	17.00	-69.2
5080.7	13.00	17.00	5000.0	700.7	214.2	0.00	0.00	-690.8
6380.7	0.00	0.00	6288.9	841.1	257.2	1.00	180.00	-829.2
12014.3	0.00	0.00	11922.5	841.1	257.2	0.00	0.00	-829.2
12764.3	90.00	171.50	12400.0	368.9	327.7	12.00	171.50	-354.4
13171.6	90.00	179.65	12400.0	-36.9	359.1	2.00	90.00	52.3
22830.4	90.00	179.65	12400.0	-9695.4	418.8	0.00	0.00	9704.4









DELAWARE BASIN EAST

LEA COUNT SOUTH WEST (NM-E)
HARRIER FEDERAL PROJECT
HARRIER FEDERAL COM 703H
300254988900
OWB
PWP0

Anticollision Report

12 January, 2024

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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	22,830.4	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5

Summary

Site Name Offset Well - Wellbore - Design	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	1,500.0	1,499.5	30.0	18.4	2.593	Normal Operations, CC, ES
_HARRIER FEDERAL COM 701H - OWB - PWP0	1,600.0	1,598.8	30.7	18.8	2.578	Normal Operations, SF
HARRIER 35 FEDERAL COM #1H - OWB - AWP	14,167.2	14,228.8	403.0	338.3	6.228	CC, ES
HARRIER 35 FEDERAL COM #1H - OWB - AWP	14,300.0	14,221.0	424.3	352.7	5.928	SF
HARRIER FEDERAL COM #101H - OWB - AWP	9,710.4	19,755.0	214.0	86.3	1.675	Caution - Monitor Closely, C
HARRIER FEDERAL COM #201H - OWB - AWP	9,458.2	19,405.0	268.8	155.1	2.365	Caution - Monitor Closely, C
HARRIER FEDERAL COM #303H - OWB - AWP	9,288.1	19,261.0	200.3	72.9	1.573	Caution - Monitor Closely, C
HARRIER FEDERAL COM 702H - OWB - PWP0	2,052.7	2,045.5	38.3	24.1	2.696	Normal Operations, CC, ES
HARRIER FEDERAL COM 702H - OWB - PWP0	22,830.4	22,570.4	530.0	325.1	2.587	Normal Operations, SF
HARRIER FEDERAL COM 704H - OWB - PWP0	1,500.0	1,499.8	30.0	18.4	2.593	Normal Operations, CC, ES
HARRIER FEDERAL COM 704H - OWB - PWP0	1,600.0	1,599.9	30.4	18.5	2.560	Normal Operations, SF
HARRIER FEDERAL COM 802H - OWB - PWP0	966.6	966.9	53.8	43.9	5.422	CC
HARRIER FEDERAL COM 802H - OWB - PWP0	1,000.0	1,000.0	53.8	43.8	5.362	ES
HARRIER FEDERAL COM 802H - OWB - PWP0	22,830.4	22,815.4	980.0	778.5	4.863	SF
HARRIER FEDERAL COM 802H - PILOT - PWP0 (PH)	966.6	966.9	53.8	44.6	5.812	CC
HARRIER FEDERAL COM 802H - PILOT - PWP0 (PH)	1,000.0	1,000.0	53.8	44.5	5.754	ES
HARRIER FEDERAL COM 802H - PILOT - PWP0 (PH)	1,100.0	1,098.4	55.6	45.8	5.717	SF

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 Offset Well - Wellbore - Design	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	22,830.4	22,944.4	999.8	818.9	5.526	
HARRIER 35 FEDERAL COM #1H - OWB - AWP	22,830.4	13,684.0				Out of Range @TD
HARRIER FEDERAL COM #101H - OWB - AWP	22,830.4	9,869.4				Out of Range @TD
HARRIER FEDERAL COM #201H - OWB - AWP	22,830.4	9,553.0				Out of Range @TD
HARRIER FEDERAL COM #303H - OWB - AWP	22,830.4	9,369.0				Out of Range @TD
HARRIER FEDERAL COM 702H - OWB - PWP0	22,830.4	22,570.4	530.0	325.1	2.587	Normal Operations, SF
HARRIER FEDERAL COM 704H - OWB - PWP0	22,830.4	22,519.3	513.0	321.2	2.674	Normal Operations
HARRIER FEDERAL COM 802H - OWB - PWP0	22,830.4	22,815.4	980.0	778.5	4.863	SF
HARRIER FEDERAL COM 802H - PILOT - PWP0 (PH)	22,830.4	12,483.1				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

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	89.62	0.2	30.0	30.0				
100.0	100.0	99.5	99.5	3.1	3.1	89.62	0.2	30.0	30.0	23.4	6.62	4.533	
200.0	200.0	199.5	199.5	3.3	3.3	89.62	0.2	30.0	30.0	22.9	7.07	4.243	
300.0	300.0	299.5	299.5	3.5	3.5	89.62	0.2	30.0	30.0	22.5	7.50	4.001	
400.0	400.0	399.5	399.5	3.7	3.7	89.62	0.2	30.0	30.0	22.1	7.90	3.796	
500.0	500.0	499.5	499.5	3.9	3.9	89.62	0.2	30.0	30.0	21.7	8.29	3.618	
600.0	600.0	599.5	599.5	4.1	4.1	89.62	0.2	30.0	30.0	21.3	8.66	3.462	
700.0	700.0	699.5	699.5	4.3	4.3	89.62	0.2	30.0	30.0	21.0	9.02	3.324	
800.0	800.0	799.5	799.5	4.5	4.5	89.62	0.2	30.0	30.0	20.6	9.37	3.201	
900.0	900.0	899.5	899.5	4.7	4.7	89.62	0.2	30.0	30.0	20.3	9.71	3.090	
1,000.0	1,000.0	999.5	999.5	4.8	4.8	89.62	0.2	30.0	30.0	20.0	10.04	2.989	Normal Operations
1,100.0	1,100.0	1,099.5	1,099.5	5.0	5.0	89.62	0.2	30.0	30.0	19.6	10.36	2.896	Normal Operations
1,200.0	1,200.0	1,199.5	1,199.5	5.2	5.2	89.62	0.2	30.0	30.0	19.3	10.67	2.811	Normal Operations
1,300.0	1,300.0	1,299.5	1,299.5	5.3	5.3	89.62	0.2	30.0	30.0	19.0	10.98	2.733	Normal Operations
1,400.0	1,400.0	1,399.5	1,399.5	5.5	5.5	89.62	0.2	30.0	30.0	18.7	11.28	2.660	Normal Operations
1,500.0	1,500.0	1,499.5	1,499.5	5.6	5.6	89.62	0.2	30.0	30.0	18.4	11.57	2.593	Normal Operations, CC, ES
1,600.0	1,600.0	1,598.8	1,598.8	5.8	5.8	73.42	1.4	31.2	30.7	18.8	11.90	2.578	Normal Operations, SF
1,700.0	1,699.8	1,698.0	1,697.8	6.1	6.1	75.58	5.1	34.8	32.8	20.6	12.21	2.685	Normal Operations
1,800.0	1,799.5	1,797.2	1,796.6	6.3	6.3	78.58	11.3	40.7	36.4	23.9	12.50	2.909	Normal Operations
1,900.0	1,898.7	1,896.2	1,894.9	6.6	6.6	81.88	19.9	49.0	41.5	28.8	12.78	3.249	
2,000.0	1,997.5	1,995.1	1,992.6	6.9	6.9	85.04	30.9	59.6	48.3	35.3	13.06	3.701	

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

ConocoPhillips

Anticollision Report

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Project:	LEA COUNT SOUTH WEST (NM-E)	**TVD Reference:**	KB=32ft @ 3398.5usft
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Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	HARRIER FEDERAL COM 703H	**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 Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,100.0	2,095.6	2,093.8	2,089.5	7.2	7.2	87.84	44.3	72.6	56.8	43.4	13.33	4.259	
2,150.0	2,144.4	2,143.2	2,137.9	7.3	7.3	89.12	51.9	79.9	61.6	48.2	13.40	4.593	
2,200.0	2,193.2	2,193.0	2,186.4	7.4	7.4	90.55	59.6	87.4	66.5	53.0	13.49	4.926	
2,300.0	2,290.6	2,292.4	2,283.5	7.7	7.7	92.86	75.1	102.3	76.4	62.6	13.78	5.544	
2,400.0	2,388.0	2,391.9	2,380.6	8.0	8.0	94.63	90.6	117.3	86.4	72.3	14.07	6.139	
2,500.0	2,485.5	2,491.4	2,477.7	8.3	8.3	96.04	106.1	132.3	96.5	82.1	14.38	6.710	
2,600.0	2,582.9	2,590.8	2,574.8	8.7	8.6	97.18	121.6	147.2	106.6	91.9	14.69	7.258	
2,700.0	2,680.3	2,690.3	2,672.0	9.0	9.0	98.12	137.1	162.2	116.8	101.8	15.01	7.781	
2,800.0	2,777.8	2,789.8	2,769.1	9.4	9.3	98.91	152.5	177.1	127.0	111.6	15.33	8.282	
2,900.0	2,875.2	2,889.2	2,866.2	9.8	9.7	99.58	168.0	192.1	137.2	121.5	15.66	8.760	
3,000.0	2,972.7	2,988.7	2,963.3	10.2	10.1	100.16	183.5	207.0	147.4	131.4	15.99	9.216	
3,100.0	3,070.1	3,088.2	3,060.4	10.5	10.5	100.67	199.0	222.0	157.6	141.3	16.33	9.652	
3,200.0	3,167.5	3,187.6	3,157.5	10.9	10.8	101.11	214.5	236.9	167.9	151.2	16.67	10.069	
3,300.0	3,265.0	3,287.1	3,254.6	11.3	11.2	101.50	230.0	251.9	178.1	161.1	17.02	10.466	
3,400.0	3,362.4	3,386.6	3,351.7	11.8	11.6	101.85	245.5	266.8	188.4	171.0	17.37	10.846	
3,500.0	3,459.8	3,486.0	3,448.8	12.2	12.1	102.16	261.0	281.8	198.7	181.0	17.73	11.209	
3,600.0	3,557.3	3,585.5	3,545.9	12.6	12.5	102.45	276.4	296.8	209.0	190.9	18.08	11.556	
3,700.0	3,654.7	3,685.0	3,643.0	13.0	12.9	102.70	291.9	311.7	219.2	200.8	18.44	11.887	
3,800.0	3,752.1	3,784.4	3,740.1	13.4	13.3	102.94	307.4	326.7	229.5	210.7	18.81	12.204	
3,900.0	3,849.6	3,883.9	3,837.2	13.9	13.7	103.15	322.9	341.6	239.8	220.6	19.17	12.507	
4,000.0	3,947.0	3,983.3	3,934.4	14.3	14.2	103.34	338.4	356.6	250.1	230.6	19.54	12.798	
4,100.0	4,044.5	4,082.8	4,031.5	14.8	14.6	103.52	353.9	371.5	260.4	240.5	19.91	13.076	
4,200.0	4,141.9	4,182.3	4,128.6	15.2	15.0	103.69	369.4	386.5	270.7	250.4	20.29	13.342	
4,300.0	4,239.3	4,281.7	4,225.7	15.6	15.5	103.84	384.8	401.4	281.0	260.3	20.66	13.598	
4,400.0	4,336.8	4,381.2	4,322.8	16.1	15.9	103.99	400.3	416.4	291.3	270.3	21.04	13.843	
4,500.0	4,434.2	4,480.7	4,419.9	16.5	16.3	104.12	415.8	431.4	301.6	280.2	21.42	14.078	
4,600.0	4,531.6	4,580.1	4,517.0	17.0	16.8	104.24	431.3	446.3	311.9	290.1	21.81	14.304	
4,700.0	4,629.1	4,679.6	4,614.1	17.4	17.2	104.36	446.8	461.3	322.2	300.0	22.19	14.521	
4,800.0	4,726.5	4,779.1	4,711.2	17.9	17.7	104.47	462.3	476.2	332.5	309.9	22.58	14.729	
4,900.0	4,824.0	4,878.5	4,808.3	18.3	18.1	104.57	477.8	491.2	342.8	319.9	22.96	14.930	
5,000.0	4,921.4	4,978.0	4,905.4	18.8	18.6	104.67	493.2	506.1	353.1	329.8	23.35	15.122	
5,080.7	5,000.0	5,058.2	4,983.8	19.2	18.9	104.74	505.7	518.2	361.5	337.8	23.65	15.281	
5,100.0	5,018.8	5,077.5	5,002.5	19.2	19.0	104.78	508.7	521.1	363.4	339.7	23.72	15.322	
5,200.0	5,116.5	5,177.0	5,099.7	19.7	19.5	104.78	524.2	536.0	373.4	349.3	24.11	15.487	
5,300.0	5,214.6	5,276.5	5,196.8	20.2	19.9	104.53	539.7	551.0	383.0	358.5	24.48	15.644	
5,400.0	5,313.0	5,376.0	5,294.0	20.6	20.4	104.05	555.2	566.0	392.2	367.3	24.84	15.785	
5,500.0	5,411.7	5,475.4	5,391.1	21.0	20.8	103.34	570.7	580.9	401.0	375.8	25.20	15.911	
5,600.0	5,510.6	5,574.8	5,488.1	21.5	21.3	102.43	586.2	595.9	409.4	383.9	25.56	16.020	
5,700.0	5,609.8	5,674.1	5,585.1	21.9	21.8	101.33	601.6	610.8	417.7	391.8	25.93	16.109	
5,800.0	5,709.2	5,773.3	5,681.9	22.3	22.2	100.04	617.1	625.7	425.8	399.5	26.33	16.176	
5,900.0	5,808.8	5,872.3	5,778.5	22.7	22.7	98.58	632.5	640.6	434.0	407.2	26.76	16.217	
6,000.0	5,908.5	5,971.1	5,875.0	23.0	23.1	96.96	647.9	655.4	442.1	414.9	27.25	16.227	
6,100.0	6,008.3	6,069.7	5,971.2	23.4	23.6	95.19	663.2	670.3	450.6	422.8	27.80	16.205	
6,200.0	6,108.2	6,168.0	6,067.2	23.7	24.0	93.29	678.5	685.0	459.3	430.9	28.44	16.149	
6,300.0	6,208.2	6,266.0	6,162.9	24.0	24.5	91.26	693.8	699.8	468.6	439.5	29.18	16.058	
6,380.7	6,288.9	6,344.9	6,239.9	24.1	24.9	106.55	706.1	711.6	476.6	446.7	29.85	15.968	
6,400.0	6,308.2	6,363.8	6,258.3	24.1	25.0	106.11	709.0	714.5	478.6	448.6	30.01	15.946	
6,500.0	6,408.2	6,461.4	6,353.7	24.1	25.4	103.91	724.2	729.2	489.3	458.3	30.95	15.810	
6,600.0	6,508.2	6,559.0	6,449.0	24.2	25.9	101.80	739.4	743.8	500.7	468.7	31.92	15.682	
6,700.0	6,608.2	6,659.1	6,546.7	24.2	26.3	99.76	754.8	758.7	512.6	479.7	32.95	15.558	
6,800.0	6,708.2	6,762.6	6,648.1	24.3	26.8	97.88	769.7	773.1	524.2	490.3	33.96	15.437	
6,900.0	6,808.2	6,866.7	6,750.5	24.3	27.3	96.24	783.3	786.2	535.3	500.4	34.92	15.331	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,000.0	6,908.2	6,971.6	6,854.0	24.4	27.7	94.80	795.6	798.1	545.6	509.7	35.81	15.234	
7,100.0	7,008.2	7,077.1	6,958.3	24.4	28.2	93.57	806.7	808.8	554.9	518.3	36.64	15.144	
7,200.0	7,108.2	7,183.1	7,063.5	24.5	28.6	92.52	816.4	818.2	563.3	525.9	37.40	15.060	
7,300.0	7,208.2	7,289.5	7,169.3	24.5	29.1	91.65	824.7	826.2	570.6	532.5	38.09	14.979	
7,400.0	7,308.2	7,396.4	7,275.7	24.6	29.5	90.94	831.7	832.9	576.8	538.1	38.71	14.901	
7,500.0	7,408.2	7,503.6	7,382.6	24.6	29.9	90.38	837.2	838.3	581.7	542.4	39.24	14.823	
7,600.0	7,508.2	7,611.0	7,489.9	24.7	30.2	89.98	841.3	842.2	585.4	545.7	39.69	14.748	
7,700.0	7,608.2	7,718.6	7,597.5	24.7	30.6	89.72	844.0	844.8	587.7	547.7	40.05	14.675	
7,800.0	7,708.2	7,826.4	7,705.2	24.8	30.8	89.61	845.2	846.0	588.8	548.5	40.29	14.616	
7,900.0	7,808.2	7,928.9	7,807.7	24.8	30.9	89.60	845.2	846.0	588.9	548.5	40.38	14.583	
8,000.0	7,908.2	8,028.9	7,907.7	24.9	30.9	89.60	845.2	846.0	588.9	548.4	40.49	14.545	
8,100.0	8,008.2	8,128.9	8,007.7	24.9	31.0	89.60	845.2	846.0	588.9	548.3	40.60	14.506	
8,200.0	8,108.2	8,228.9	8,107.7	25.0	31.0	89.60	845.2	846.0	588.9	548.2	40.71	14.468	
8,300.0	8,208.2	8,328.9	8,207.7	25.0	31.0	89.60	845.2	846.0	588.9	548.1	40.81	14.429	
8,400.0	8,308.2	8,428.9	8,307.7	25.1	31.1	89.60	845.2	846.0	588.9	548.0	40.92	14.391	
8,500.0	8,408.2	8,528.9	8,407.7	25.1	31.1	89.60	845.2	846.0	588.9	547.9	41.03	14.352	
8,600.0	8,508.2	8,628.9	8,507.7	25.2	31.2	89.60	845.2	846.0	588.9	547.8	41.14	14.314	
8,700.0	8,608.2	8,728.9	8,607.7	25.2	31.2	89.60	845.2	846.0	588.9	547.7	41.25	14.276	
8,800.0	8,708.2	8,828.9	8,707.7	25.3	31.2	89.60	845.2	846.0	588.9	547.5	41.36	14.238	
8,900.0	8,808.2	8,928.9	8,807.7	25.3	31.3	89.60	845.2	846.0	588.9	547.4	41.47	14.200	
9,000.0	8,908.2	9,028.9	8,907.7	25.4	31.3	89.60	845.2	846.0	588.9	547.3	41.58	14.162	
9,100.0	9,008.2	9,128.9	9,007.7	25.4	31.3	89.60	845.2	846.0	588.9	547.2	41.69	14.125	
9,200.0	9,108.2	9,228.9	9,107.7	25.5	31.4	89.60	845.2	846.0	588.9	547.1	41.80	14.087	
9,300.0	9,208.2	9,328.9	9,207.7	25.5	31.4	89.60	845.2	846.0	588.9	547.0	41.92	14.050	
9,400.0	9,308.2	9,428.9	9,307.7	25.6	31.5	89.60	845.2	846.0	588.9	546.9	42.03	14.012	
9,500.0	9,408.2	9,528.9	9,407.7	25.6	31.5	89.60	845.2	846.0	588.9	546.8	42.14	13.975	
9,600.0	9,508.2	9,628.9	9,507.7	25.7	31.5	89.60	845.2	846.0	588.9	546.6	42.25	13.937	
9,700.0	9,608.2	9,728.9	9,607.7	25.7	31.6	89.60	845.2	846.0	588.9	546.5	42.37	13.900	
9,800.0	9,708.2	9,828.9	9,707.7	25.8	31.6	89.60	845.2	846.0	588.9	546.4	42.48	13.863	
9,900.0	9,808.2	9,928.9	9,807.7	25.8	31.7	89.60	845.2	846.0	588.9	546.3	42.59	13.826	
10,000.0	9,908.2	10,028.9	9,907.7	25.9	31.7	89.60	845.2	846.0	588.9	546.2	42.71	13.789	
10,100.0	10,008.2	10,128.9	10,007.7	25.9	31.7	89.60	845.2	846.0	588.9	546.1	42.82	13.752	
10,200.0	10,108.2	10,228.9	10,107.7	26.0	31.8	89.60	845.2	846.0	588.9	546.0	42.94	13.716	
10,300.0	10,208.2	10,328.9	10,207.7	26.1	31.8	89.60	845.2	846.0	588.9	545.9	43.05	13.679	
10,400.0	10,308.2	10,428.9	10,307.7	26.1	31.9	89.60	845.2	846.0	588.9	545.7	43.17	13.643	
10,500.0	10,408.2	10,528.9	10,407.7	26.2	31.9	89.60	845.2	846.0	588.9	545.6	43.28	13.606	
10,600.0	10,508.2	10,628.9	10,507.7	26.2	31.9	89.60	845.2	846.0	588.9	545.5	43.40	13.570	
10,700.0	10,608.2	10,728.9	10,607.7	26.3	32.0	89.60	845.2	846.0	588.9	545.4	43.51	13.534	
10,800.0	10,708.2	10,828.9	10,707.7	26.3	32.0	89.60	845.2	846.0	588.9	545.3	43.63	13.498	
10,900.0	10,808.2	10,928.9	10,807.7	26.4	32.1	89.60	845.2	846.0	588.9	545.2	43.75	13.462	
11,000.0	10,908.2	11,028.9	10,907.7	26.4	32.1	89.60	845.2	846.0	588.9	545.0	43.86	13.426	
11,100.0	11,008.2	11,128.9	11,007.7	26.5	32.1	89.60	845.2	846.0	588.9	544.9	43.98	13.390	
11,200.0	11,108.2	11,228.9	11,107.7	26.5	32.2	89.60	845.2	846.0	588.9	544.8	44.10	13.354	
11,300.0	11,208.2	11,328.9	11,207.7	26.6	32.2	89.60	845.2	846.0	588.9	544.7	44.22	13.319	
11,400.0	11,308.2	11,428.9	11,307.7	26.6	32.3	89.60	845.2	846.0	588.9	544.6	44.33	13.283	
11,500.0	11,408.2	11,528.9	11,407.7	26.7	32.3	89.60	845.2	846.0	588.9	544.4	44.45	13.248	
11,600.0	11,508.2	11,628.9	11,507.7	26.8	32.4	89.60	845.2	846.0	588.9	544.3	44.57	13.213	
11,700.0	11,608.2	11,728.9	11,607.7	26.8	32.4	89.60	845.2	846.0	588.9	544.2	44.69	13.178	
11,800.0	11,708.2	11,828.9	11,707.7	26.9	32.4	89.60	845.2	846.0	588.9	544.1	44.81	13.143	
11,900.0	11,808.2	11,928.9	11,807.7	26.9	32.5	89.60	845.2	846.0	588.9	544.0	44.93	13.108	
12,000.0	11,908.2	12,028.9	11,907.7	27.0	32.5	89.60	845.2	846.0	588.9	543.9	45.04	13.075	
12,014.3	11,922.5	12,043.2	11,922.0	27.0	32.5	89.60	845.2	846.0	588.9	543.8	45.05	13.072	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 Well Error: 3.0 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,025.0	11,933.2	12,050.0	11,928.8	27.0	32.5	-81.90	845.2	846.1	588.9	543.8	45.09	13.061	
12,050.0	11,958.2	12,066.5	11,945.3	26.9	32.5	-81.92	844.7	846.3	589.1	543.9	45.20	13.032	
12,075.0	11,983.0	12,082.7	11,961.5	26.8	32.5	-81.94	843.8	846.7	589.4	544.1	45.35	12.998	
12,100.0	12,007.7	12,100.0	11,978.7	26.8	32.5	-81.98	842.3	847.5	590.0	544.5	45.51	12.963	
12,125.0	12,032.2	12,115.2	11,993.7	26.7	32.5	-82.02	840.5	848.4	590.7	545.0	45.73	12.917	
12,150.0	12,056.4	12,131.4	12,009.7	26.6	32.4	-82.07	838.0	849.6	591.7	545.7	45.97	12.871	
12,175.0	12,080.2	12,150.0	12,027.9	26.5	32.4	-82.17	834.7	851.3	592.8	546.6	46.19	12.833	
12,200.0	12,103.6	12,163.8	12,041.4	26.4	32.4	-82.21	831.8	852.7	594.1	547.6	46.52	12.771	
12,225.0	12,126.4	12,180.1	12,057.0	26.3	32.4	-82.29	827.9	854.7	595.6	548.8	46.83	12.719	
12,250.0	12,148.7	12,200.0	12,076.0	26.2	32.3	-82.45	822.5	857.3	597.4	550.3	47.09	12.687	
12,275.0	12,170.4	12,212.5	12,087.9	26.1	32.3	-82.47	818.8	859.2	599.3	551.8	47.51	12.614	
12,300.0	12,191.5	12,225.0	12,099.5	26.0	32.3	-82.49	814.8	861.2	601.4	553.5	47.95	12.542	
12,325.0	12,211.7	12,245.1	12,118.0	26.0	32.3	-82.68	807.8	864.7	603.7	555.5	48.24	12.514	
12,350.0	12,231.2	12,261.4	12,132.7	25.9	32.2	-82.79	801.6	867.8	606.3	557.6	48.63	12.468	
12,375.0	12,249.9	12,275.0	12,144.9	25.8	32.2	-82.82	796.0	870.5	609.0	560.0	49.08	12.409	
12,400.0	12,267.6	12,294.0	12,161.5	25.7	32.2	-83.01	787.8	874.6	612.0	562.6	49.41	12.387	
12,425.0	12,284.4	12,310.4	12,175.5	25.6	32.2	-83.12	780.3	878.4	615.2	565.4	49.80	12.354	
12,450.0	12,300.2	12,325.0	12,187.8	25.6	32.1	-83.18	773.2	881.9	618.6	568.4	50.23	12.315	
12,475.0	12,315.0	12,343.2	12,202.7	25.5	32.1	-83.35	763.9	886.5	622.3	571.7	50.57	12.305	
12,500.0	12,328.7	12,359.6	12,215.9	25.4	32.1	-83.45	755.0	891.0	626.1	575.2	50.94	12.292	
12,525.0	12,341.3	12,375.0	12,227.9	25.4	32.1	-83.51	746.4	895.3	630.2	578.9	51.33	12.278	
12,550.0	12,352.7	12,392.7	12,241.3	25.3	32.1	-83.66	736.0	900.4	634.5	582.9	51.64	12.288	
12,575.0	12,362.9	12,409.3	12,253.5	25.3	32.0	-83.75	725.9	905.5	639.1	587.1	51.96	12.299	
12,600.0	12,372.0	12,425.0	12,264.6	25.3	32.0	-83.79	716.0	910.4	643.8	591.5	52.29	12.312	
12,625.0	12,379.8	12,442.9	12,276.8	25.2	32.0	-83.92	704.4	916.2	648.8	596.3	52.54	12.348	
12,650.0	12,386.4	12,459.8	12,287.9	25.2	32.0	-83.99	693.0	921.9	654.0	601.2	52.80	12.387	
12,675.0	12,391.7	12,475.0	12,297.5	25.2	32.0	-83.98	682.4	927.1	659.5	606.4	53.07	12.426	
12,700.0	12,395.7	12,493.9	12,308.9	25.2	32.0	-84.12	668.9	933.8	665.1	611.9	53.22	12.496	
12,725.0	12,398.4	12,511.2	12,318.8	25.2	31.9	-84.18	656.2	940.2	671.0	617.6	53.39	12.567	
12,750.0	12,399.8	12,528.6	12,328.3	25.2	31.9	-84.22	643.1	946.7	677.1	623.5	53.53	12.648	
12,764.3	12,400.0	12,538.7	12,333.5	25.2	31.9	-84.25	635.4	950.5	680.6	627.0	53.60	12.699	
12,800.0	12,400.0	12,564.6	12,346.0	25.2	31.9	-85.37	615.1	960.6	690.2	636.4	53.72	12.847	
12,900.0	12,400.0	12,644.5	12,376.9	25.3	31.9	-88.08	549.2	993.4	721.6	667.7	53.86	13.397	
13,000.0	12,400.0	12,732.8	12,396.1	25.3	31.9	-89.72	472.2	1,031.8	758.1	704.3	53.89	14.068	
13,100.0	12,400.0	12,835.9	12,400.0	25.4	32.0	-90.04	379.9	1,077.4	798.1	744.2	53.90	14.805	
13,171.6	12,400.0	12,927.5	12,400.0	25.4	32.1	-90.04	296.7	1,115.7	826.8	773.1	53.70	15.395	
13,200.0	12,400.0	12,964.2	12,400.0	25.5	32.1	-90.03	263.0	1,130.3	837.9	784.3	53.62	15.626	
13,300.0	12,400.0	13,097.1	12,400.0	25.5	32.3	-90.03	139.6	1,179.5	874.4	821.1	53.33	16.394	
13,400.0	12,400.0	13,234.5	12,400.0	25.6	32.6	-90.03	9.6	1,224.3	906.4	853.4	53.05	17.086	
13,500.0	12,400.0	13,376.2	12,400.0	25.7	32.8	-90.03	-126.4	1,263.9	933.8	881.0	52.76	17.698	
13,600.0	12,400.0	13,521.7	12,400.0	25.9	33.1	-90.03	-267.9	1,297.5	956.3	903.8	52.48	18.223	
13,700.0	12,400.0	13,670.1	12,400.0	26.0	33.4	-90.03	-413.9	1,324.4	973.8	921.6	52.20	18.654	
13,800.0	12,400.0	13,821.0	12,400.0	26.2	33.7	-90.03	-563.4	1,343.9	986.1	934.2	51.94	18.987	
13,900.0	12,400.0	13,973.4	12,400.0	26.4	34.0	-90.03	-715.4	1,355.6	993.2	941.5	51.69	19.215	
14,000.0	12,400.0	14,126.5	12,400.0	26.6	34.3	-90.03	-868.5	1,359.2	994.9	943.5	51.46	19.332	
14,100.0	12,400.0	14,220.5	12,400.0	26.9	34.5	-90.03	-962.4	1,359.5	994.6	942.2	52.37	18.991	
14,200.0	12,400.0	14,320.5	12,400.0	27.2	34.7	-90.03	-1,062.4	1,359.8	994.3	941.1	53.21	18.685	
14,300.0	12,400.0	14,420.5	12,400.0	27.6	34.9	-90.03	-1,162.4	1,360.0	993.9	939.9	54.09	18.374	
14,400.0	12,400.0	14,520.5	12,400.0	28.0	35.1	-90.03	-1,262.4	1,360.3	993.6	938.6	55.02	18.061	
14,500.0	12,400.0	14,620.5	12,400.0	28.5	35.4	-90.03	-1,362.4	1,360.6	993.3	937.3	55.97	17.745	
14,600.0	12,400.0	14,720.5	12,400.0	29.0	35.6	-90.03	-1,462.4	1,360.9	992.9	936.0	56.97	17.430	
14,700.0	12,400.0	14,820.5	12,400.0	29.5	35.9	-90.03	-1,562.4	1,361.2	992.6	934.6	58.00	17.115	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,800.0	12,400.0	14,920.5	12,400.0	30.1	36.2	-90.03	-1,662.4	1,361.5	992.3	933.2	59.06	16.802	
14,900.0	12,400.0	15,020.5	12,400.0	30.7	36.4	-90.03	-1,762.4	1,361.7	991.9	931.8	60.15	16.491	
15,000.0	12,400.0	15,120.5	12,400.0	31.4	36.7	-90.03	-1,862.4	1,362.0	991.6	930.3	61.27	16.184	
15,100.0	12,400.0	15,220.5	12,400.0	32.1	37.0	-90.03	-1,962.4	1,362.3	991.3	928.8	62.42	15.881	
15,200.0	12,400.0	15,320.5	12,400.0	32.8	37.3	-90.03	-2,062.4	1,362.6	990.9	927.3	63.59	15.583	
15,300.0	12,400.0	15,420.5	12,400.0	33.5	37.7	-90.03	-2,162.4	1,362.9	990.6	925.8	64.79	15.290	
15,400.0	12,400.0	15,520.5	12,400.0	34.2	38.0	-90.03	-2,262.4	1,363.2	990.3	924.3	66.01	15.002	
15,500.0	12,400.0	15,620.5	12,400.0	35.0	38.3	-90.03	-2,362.4	1,363.4	989.9	922.7	67.25	14.720	
15,600.0	12,400.0	15,720.5	12,400.0	35.8	38.7	-90.03	-2,462.4	1,363.7	989.6	921.1	68.51	14.444	
15,700.0	12,400.0	15,820.5	12,400.0	36.6	39.1	-90.03	-2,562.4	1,364.0	989.3	919.5	69.80	14.174	
15,800.0	12,400.0	15,920.5	12,400.0	37.3	39.4	-90.03	-2,662.4	1,364.3	988.9	917.8	71.10	13.909	
15,900.0	12,400.0	16,020.5	12,400.0	38.2	39.8	-90.03	-2,762.4	1,364.6	988.6	916.2	72.42	13.652	
16,000.0	12,400.0	16,120.5	12,400.0	39.0	40.2	-90.03	-2,862.4	1,364.9	988.3	914.5	73.75	13.400	
16,100.0	12,400.0	16,220.5	12,400.0	39.8	40.6	-90.03	-2,962.4	1,365.1	987.9	912.8	75.10	13.155	
16,200.0	12,400.0	16,320.5	12,400.0	40.6	41.0	-90.03	-3,062.4	1,365.4	987.6	911.1	76.46	12.916	
16,300.0	12,400.0	16,420.5	12,400.0	41.5	41.4	-90.03	-3,162.4	1,365.7	987.2	909.4	77.84	12.682	
16,400.0	12,400.0	16,520.5	12,400.0	42.3	41.9	-90.03	-3,262.4	1,366.0	986.9	907.7	79.24	12.455	
16,500.0	12,400.0	16,620.5	12,400.0	43.2	42.3	-90.03	-3,362.4	1,366.3	986.6	905.9	80.64	12.234	
16,600.0	12,400.0	16,720.5	12,400.0	44.0	42.8	-90.03	-3,462.4	1,366.6	986.2	904.2	82.06	12.019	
16,700.0	12,400.0	16,820.5	12,400.0	44.9	43.2	-90.03	-3,562.4	1,366.8	985.9	902.4	83.48	11.809	
16,800.0	12,400.0	16,920.5	12,400.0	45.7	43.7	-90.03	-3,662.4	1,367.1	985.6	900.7	84.92	11.606	
16,900.0	12,400.0	17,020.5	12,400.0	46.6	44.2	-90.03	-3,762.4	1,367.4	985.2	898.9	86.37	11.407	
17,000.0	12,400.0	17,120.5	12,400.0	47.5	44.6	-90.03	-3,862.4	1,367.7	984.9	897.1	87.83	11.214	
17,100.0	12,400.0	17,220.5	12,400.0	48.4	45.1	-90.03	-3,962.4	1,368.0	984.6	895.3	89.30	11.026	
17,200.0	12,400.0	17,320.5	12,400.0	49.2	45.6	-90.03	-4,062.4	1,368.3	984.2	893.5	90.77	10.843	
17,300.0	12,400.0	17,420.5	12,400.0	50.1	46.1	-90.03	-4,162.4	1,368.5	983.9	891.6	92.26	10.665	
17,400.0	12,400.0	17,520.5	12,400.0	51.0	46.6	-90.03	-4,262.4	1,368.8	983.6	889.8	93.75	10.491	
17,500.0	12,400.0	17,620.5	12,400.0	51.9	47.2	-90.03	-4,362.4	1,369.1	983.2	888.0	95.25	10.323	
17,541.5	12,400.0	17,658.7	12,400.0	52.3	47.4	-90.03	-4,400.6	1,369.2	983.1	887.2	95.91	10.250	
17,600.0	12,400.0	17,714.1	12,400.0	52.8	47.7	-90.03	-4,456.0	1,369.7	983.3	886.5	96.83	10.155	
17,700.0	12,400.0	17,814.1	12,400.0	53.7	48.2	-90.03	-4,556.0	1,370.7	983.6	885.3	98.34	10.002	
17,800.0	12,400.0	17,914.1	12,400.0	54.6	48.7	-90.03	-4,655.9	1,371.6	983.9	884.1	99.86	9.853	
17,900.0	12,400.0	18,014.1	12,400.0	55.5	49.3	-90.03	-4,755.9	1,372.5	984.2	882.8	101.39	9.708	
18,000.0	12,400.0	18,114.1	12,400.0	56.4	49.9	-90.03	-4,855.9	1,373.5	984.5	881.6	102.92	9.566	
18,100.0	12,400.0	18,214.1	12,400.0	57.3	50.4	-90.03	-4,955.9	1,374.4	984.9	880.4	104.46	9.428	
18,200.0	12,400.0	18,314.1	12,400.0	58.2	51.0	-90.03	-5,055.9	1,375.3	985.2	879.2	106.00	9.294	
18,300.0	12,400.0	18,414.1	12,400.0	59.1	51.6	-90.03	-5,155.9	1,376.3	985.5	877.9	107.55	9.163	
18,400.0	12,400.0	18,514.1	12,400.0	60.0	52.1	-90.03	-5,255.9	1,377.2	985.8	876.7	109.11	9.035	
18,500.0	12,400.0	18,614.1	12,400.0	61.0	52.7	-90.03	-5,355.9	1,378.1	986.1	875.5	110.67	8.911	
18,600.0	12,400.0	18,714.1	12,400.0	61.9	53.3	-90.03	-5,455.9	1,379.1	986.4	874.2	112.23	8.789	
18,700.0	12,400.0	18,814.1	12,400.0	62.8	53.9	-90.03	-5,555.9	1,380.0	986.8	873.0	113.80	8.671	
18,800.0	12,400.0	18,914.0	12,400.0	63.7	54.5	-90.03	-5,655.9	1,380.9	987.1	871.7	115.37	8.556	
18,900.0	12,400.0	19,014.0	12,400.0	64.6	55.1	-90.03	-5,755.9	1,381.9	987.4	870.4	116.95	8.443	
19,000.0	12,400.0	19,114.0	12,400.0	65.6	55.7	-90.03	-5,855.9	1,382.8	987.7	869.2	118.53	8.333	
19,100.0	12,400.0	19,214.0	12,400.0	66.5	56.3	-90.03	-5,955.9	1,383.7	988.0	867.9	120.11	8.226	
19,200.0	12,400.0	19,314.0	12,400.0	67.4	57.0	-90.03	-6,055.9	1,384.7	988.3	866.6	121.70	8.121	
19,300.0	12,400.0	19,414.0	12,400.0	68.3	57.6	-90.03	-6,155.9	1,385.6	988.7	865.4	123.29	8.019	
19,400.0	12,400.0	19,514.0	12,400.0	69.3	58.2	-90.03	-6,255.9	1,386.5	989.0	864.1	124.88	7.919	
19,500.0	12,400.0	19,614.0	12,400.0	70.2	58.8	-90.03	-6,355.9	1,387.5	989.3	862.8	126.48	7.822	
19,600.0	12,400.0	19,714.0	12,400.0	71.1	59.5	-90.03	-6,455.9	1,388.4	989.6	861.5	128.08	7.726	
19,700.0	12,400.0	19,814.0	12,400.0	72.0	60.1	-90.03	-6,555.9	1,389.3	989.9	860.2	129.69	7.633	
19,800.0	12,400.0	19,914.0	12,400.0	73.0	60.7	-90.03	-6,655.9	1,390.3	990.2	858.9	131.29	7.542	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,900.0	12,400.0	20,014.0	12,400.0	73.9	61.4	-90.03	-6,755.8	1,391.2	990.6	857.7	132.90	7.453	
20,000.0	12,400.0	20,114.0	12,400.0	74.8	62.0	-90.03	-6,855.8	1,392.1	990.9	856.4	134.51	7.366	
20,100.0	12,400.0	20,214.0	12,400.0	75.8	62.7	-90.03	-6,955.8	1,393.1	991.2	855.1	136.13	7.281	
20,200.0	12,400.0	20,314.0	12,400.0	76.7	63.3	-90.03	-7,055.8	1,394.0	991.5	853.8	137.75	7.198	
20,300.0	12,400.0	20,414.0	12,400.0	77.6	64.0	-90.03	-7,155.8	1,394.9	991.8	852.5	139.37	7.117	
20,400.0	12,400.0	20,514.0	12,400.0	78.6	64.7	-90.03	-7,255.8	1,395.9	992.1	851.1	140.99	7.037	
20,500.0	12,400.0	20,614.0	12,400.0	79.5	65.3	-90.03	-7,355.8	1,396.8	992.5	849.8	142.61	6.959	
20,600.0	12,400.0	20,714.0	12,400.0	80.4	66.0	-90.03	-7,455.8	1,397.7	992.8	848.5	144.24	6.883	
20,700.0	12,400.0	20,814.0	12,400.0	81.4	66.6	-90.03	-7,555.8	1,398.7	993.1	847.2	145.86	6.808	
20,800.0	12,400.0	20,914.0	12,400.0	82.3	67.3	-90.03	-7,655.8	1,399.6	993.4	845.9	147.49	6.735	
20,900.0	12,400.0	21,014.0	12,400.0	83.2	68.0	-90.03	-7,755.8	1,400.5	993.7	844.6	149.13	6.664	
21,000.0	12,400.0	21,114.0	12,400.0	84.2	68.7	-90.03	-7,855.8	1,401.5	994.0	843.3	150.76	6.593	
21,100.0	12,400.0	21,214.0	12,400.0	85.1	69.3	-90.03	-7,955.8	1,402.4	994.3	842.0	152.40	6.525	
21,200.0	12,400.0	21,314.0	12,400.0	86.1	70.0	-90.03	-8,055.8	1,403.4	994.7	840.6	154.03	6.457	
21,300.0	12,400.0	21,414.0	12,400.0	87.0	70.7	-90.03	-8,155.8	1,404.3	995.0	839.3	155.67	6.392	
21,400.0	12,400.0	21,514.0	12,400.0	87.9	71.4	-90.03	-8,255.8	1,405.2	995.3	838.0	157.31	6.327	
21,500.0	12,400.0	21,614.0	12,400.0	88.9	72.0	-90.03	-8,355.8	1,406.2	995.6	836.7	158.96	6.263	
21,600.0	12,400.0	21,714.0	12,400.0	89.8	72.7	-90.03	-8,455.8	1,407.1	995.9	835.3	160.60	6.201	
21,700.0	12,400.0	21,814.0	12,400.0	90.8	73.4	-90.03	-8,555.8	1,408.0	996.2	834.0	162.24	6.140	
21,800.0	12,400.0	21,914.0	12,400.0	91.7	74.1	-90.03	-8,655.8	1,409.0	996.6	832.7	163.89	6.081	
21,900.0	12,400.0	22,014.0	12,400.0	92.7	74.8	-90.03	-8,755.7	1,409.9	996.9	831.3	165.54	6.022	
22,000.0	12,400.0	22,114.0	12,400.0	93.6	75.5	-90.03	-8,855.7	1,410.8	997.2	830.0	167.19	5.964	
22,100.0	12,400.0	22,214.0	12,400.0	94.5	76.2	-90.03	-8,955.7	1,411.8	997.5	828.7	168.84	5.908	
22,200.0	12,400.0	22,314.0	12,400.0	95.5	76.9	-90.03	-9,055.7	1,412.7	997.8	827.3	170.49	5.853	
22,300.0	12,400.0	22,414.0	12,400.0	96.4	77.6	-90.03	-9,155.7	1,413.6	998.1	826.0	172.15	5.798	
22,400.0	12,400.0	22,514.0	12,400.0	97.4	78.3	-90.03	-9,255.7	1,414.6	998.5	824.7	173.80	5.745	
22,500.0	12,400.0	22,614.0	12,400.0	98.3	79.0	-90.03	-9,355.7	1,415.5	998.8	823.3	175.46	5.692	
22,600.0	12,400.0	22,714.0	12,400.0	99.3	79.7	-90.03	-9,455.7	1,416.4	999.1	822.0	177.11	5.641	
22,700.0	12,400.0	22,814.0	12,400.0	100.2	80.4	-90.03	-9,555.7	1,417.4	999.4	820.6	178.77	5.590	
22,800.0	12,400.0	22,914.0	12,400.0	101.2	81.1	-90.03	-9,655.7	1,418.3	999.7	819.3	180.43	5.541	
22,830.4	12,400.0	22,944.4	12,400.0	101.5	81.3	-90.03	-9,686.1	1,418.6	999.8	818.9	180.93	5.526	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 35 FEDERAL COM #1H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 100-r.5 GYRO-NS, 4800-r.5 MWD

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,300.0	12,400.0	14,276.3	11,977.9	25.5	61.9	4.76	-1,029.9	331.6	955.0	868.1	86.93	10.986	
13,400.0	12,400.0	14,270.9	11,978.2	25.6	61.8	4.01	-1,030.2	336.9	865.6	780.1	85.43	10.131	
13,500.0	12,400.0	14,265.6	11,978.4	25.7	61.7	3.25	-1,030.4	342.3	778.6	695.0	83.55	9.319	
13,600.0	12,400.0	14,260.2	11,978.6	25.9	61.5	2.50	-1,030.7	347.6	695.1	613.9	81.16	8.565	
13,700.0	12,400.0	14,254.9	11,978.8	26.0	61.4	1.74	-1,031.0	353.0	616.5	538.4	78.09	7.894	
13,800.0	12,400.0	14,249.2	11,979.0	26.2	61.3	0.94	-1,031.3	358.6	544.8	470.6	74.24	7.339	
13,900.0	12,400.0	14,243.5	11,979.2	26.4	61.1	0.13	-1,031.6	364.3	483.3	413.6	69.74	6.930	
14,000.0	12,400.0	14,237.9	11,979.4	26.6	61.0	-0.66	-1,031.9	369.9	436.2	370.7	65.51	6.659	
14,100.0	12,400.0	14,232.4	11,979.6	26.9	60.9	-1.44	-1,032.1	375.4	408.6	345.0	63.62	6.422	
14,167.2	12,400.0	14,228.8	11,979.7	27.1	60.8	-1.95	-1,032.3	379.0	403.0	338.3	64.71	6.228	CC, ES
14,200.0	12,400.0	14,227.0	11,979.8	27.2	60.8	-2.20	-1,032.4	380.8	404.4	338.4	65.96	6.131	
14,300.0	12,400.0	14,221.0	11,980.0	27.6	60.6	-3.06	-1,032.7	386.8	424.3	352.7	71.57	5.928	SF
14,400.0	12,400.0	14,216.8	11,980.1	28.0	60.5	-3.65	-1,032.9	391.0	465.3	387.6	77.68	5.989	
14,500.0	12,400.0	14,212.0	11,980.3	28.5	60.4	-4.34	-1,033.2	395.8	522.4	439.8	82.62	6.323	
14,600.0	12,400.0	14,207.2	11,980.4	29.0	60.3	-5.01	-1,033.4	400.6	590.9	504.8	86.12	6.862	
14,700.0	12,400.0	14,202.5	11,980.5	29.5	60.2	-5.67	-1,033.6	405.2	667.5	579.0	88.47	7.545	
14,800.0	12,400.0	14,197.9	11,980.7	30.1	60.1	-6.32	-1,033.8	409.8	749.5	659.5	90.02	8.326	
14,900.0	12,400.0	14,193.5	11,980.8	30.7	60.0	-6.95	-1,034.0	414.3	835.4	744.4	91.05	9.176	
15,000.0	12,400.0	14,189.0	11,980.9	31.4	59.9	-7.57	-1,034.2	418.7	924.2	832.5	91.73	10.075	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 #101H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 100-Standard Keeper 104, 8898-MWD+IFR1+FDIR

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,800.0	8,708.2	19,755.0	9,491.2	25.3	89.6	89.94	841.3	471.2	935.3	817.0	118.28	7.907	
8,900.0	8,808.2	19,755.0	9,491.2	25.3	89.6	89.94	841.3	471.2	838.2	719.8	118.46	7.076	
9,000.0	8,908.2	19,755.0	9,491.2	25.4	89.6	89.94	841.3	471.2	742.0	623.3	118.70	6.251	
9,100.0	9,008.2	19,755.0	9,491.2	25.4	89.6	89.94	841.3	471.2	646.9	527.9	119.01	5.435	
9,200.0	9,108.2	19,755.0	9,491.2	25.5	89.6	89.94	841.3	471.2	553.5	434.0	119.45	4.634	
9,300.0	9,208.2	19,755.0	9,491.2	25.5	89.6	89.94	841.3	471.2	462.9	342.8	120.12	3.854	
9,400.0	9,308.2	19,755.0	9,491.2	25.6	89.6	89.94	841.3	471.2	377.1	255.9	121.20	3.111	
9,500.0	9,408.2	19,755.0	9,491.2	25.6	89.6	89.94	841.3	471.2	300.2	177.2	123.00	2.440	Caution - Monitor Closely
9,600.0	9,508.2	19,755.0	9,491.2	25.7	89.6	89.94	841.3	471.2	240.8	115.2	125.67	1.917	Caution - Monitor Closely
9,700.0	9,608.2	19,755.0	9,491.2	25.7	89.6	89.94	841.3	471.2	214.3	86.6	127.71	1.678	Caution - Monitor Closely
9,710.4	9,618.6	19,755.0	9,491.2	25.7	89.6	89.94	841.3	471.2	214.0	86.3	127.75	1.675	Caution - Monitor Closely, CC, ES, SF
9,800.0	9,708.2	19,751.4	9,491.5	25.8	89.6	90.90	837.7	471.3	232.0	105.5	126.52	1.834	Caution - Monitor Closely
9,900.0	9,808.2	19,742.8	9,492.3	25.8	89.5	93.18	829.2	471.4	285.6	161.8	123.86	2.306	Caution - Monitor Closely
10,000.0	9,908.2	19,734.3	9,493.0	25.9	89.5	95.44	820.7	471.6	359.5	237.6	121.90	2.949	Normal Operations
10,100.0	10,008.2	19,725.7	9,493.7	25.9	89.4	97.68	812.2	471.8	443.5	322.8	120.73	3.674	
10,200.0	10,108.2	19,717.2	9,494.5	26.0	89.3	99.90	803.6	471.9	533.0	412.9	120.04	4.440	
10,300.0	10,208.2	19,708.6	9,495.2	26.1	89.2	102.08	795.1	472.1	625.5	505.9	119.62	5.229	
10,400.0	10,308.2	19,700.1	9,495.9	26.1	89.2	104.22	786.6	472.3	719.9	600.6	119.35	6.032	
10,500.0	10,408.2	19,691.5	9,496.7	26.2	89.1	106.32	778.0	472.5	815.6	696.4	119.17	6.844	
10,600.0	10,508.2	19,690.0	9,496.8	26.2	89.1	106.68	776.6	472.5	912.1	793.0	119.18	7.654	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 #201H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 100-Standard Keeper 104, 8552-MWD+IFR1+FDIR

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,500.0	8,408.2	19,405.0	9,242.2	25.1	88.4	-118.84	711.4	21.7	995.2	879.7	115.49	8.617	
8,600.0	8,508.2	19,405.0	9,242.2	25.2	88.4	-118.84	711.4	21.7	899.4	783.9	115.50	7.787	
8,700.0	8,608.2	19,405.0	9,242.2	25.2	88.4	-118.84	711.4	21.7	804.5	689.0	115.48	6.966	
8,800.0	8,708.2	19,405.0	9,242.2	25.3	88.4	-118.84	711.4	21.7	711.0	595.6	115.44	6.159	
8,900.0	8,808.2	19,405.0	9,242.2	25.3	88.4	-118.84	711.4	21.7	619.6	504.2	115.35	5.371	
9,000.0	8,908.2	19,405.0	9,242.2	25.4	88.4	-118.84	711.4	21.7	531.3	416.1	115.20	4.612	
9,100.0	9,008.2	19,405.0	9,242.2	25.4	88.4	-118.84	711.4	21.7	447.9	332.9	114.95	3.896	
9,200.0	9,108.2	19,405.0	9,242.2	25.5	88.4	-118.84	711.4	21.7	372.8	258.2	114.54	3.254	
9,300.0	9,208.2	19,405.0	9,242.2	25.5	88.4	-118.84	711.4	21.7	311.9	197.9	114.01	2.736	Normal Operations
9,400.0	9,308.2	19,405.0	9,242.2	25.6	88.4	-118.84	711.4	21.7	275.0	161.4	113.62	2.421	Caution - Monitor Closely
9,458.2	9,366.4	19,405.0	9,242.2	25.6	88.4	-118.84	711.4	21.7	268.8	155.1	113.66	2.365	Caution - Monitor Closely, CC, ES, SF
9,500.0	9,408.2	19,405.0	9,242.2	25.6	88.4	-118.84	711.4	21.7	272.0	158.2	113.87	2.389	Caution - Monitor Closely
9,600.0	9,508.2	19,405.0	9,242.2	25.7	88.4	-118.84	711.4	21.7	303.9	189.2	114.69	2.650	Normal Operations
9,700.0	9,608.2	19,405.0	9,242.2	25.7	88.4	-118.84	711.4	21.7	361.5	246.0	115.50	3.130	
9,800.0	9,708.2	19,405.0	9,242.2	25.8	88.4	-118.84	711.4	21.7	434.8	318.7	116.08	3.746	
9,900.0	9,808.2	19,405.0	9,242.2	25.8	88.4	-118.84	711.4	21.7	517.1	400.6	116.47	4.440	
10,000.0	9,908.2	19,405.0	9,242.2	25.9	88.4	-118.84	711.4	21.7	604.8	488.0	116.75	5.180	
10,100.0	10,008.2	19,405.0	9,242.2	25.9	88.4	-118.84	711.4	21.7	695.8	578.8	116.96	5.949	
10,200.0	10,108.2	19,405.0	9,242.2	26.0	88.4	-118.84	711.4	21.7	789.0	671.8	117.13	6.736	
10,300.0	10,208.2	19,405.0	9,242.2	26.1	88.4	-118.84	711.4	21.7	883.6	766.4	117.28	7.534	
10,400.0	10,308.2	19,405.0	9,242.2	26.1	88.4	-118.84	711.4	21.7	979.4	861.9	117.42	8.341	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,400.0	8,308.2	19,261.0	9,069.6	25.1	89.4	89.72	842.1	457.5	910.5	793.0	117.43	7.753	
8,500.0	8,408.2	19,261.0	9,069.6	25.1	89.4	89.72	842.1	457.5	813.2	695.6	117.60	6.915	
8,600.0	8,508.2	19,261.0	9,069.6	25.2	89.4	89.72	842.1	457.5	716.7	598.9	117.83	6.083	
8,700.0	8,608.2	19,261.0	9,069.6	25.2	89.4	89.72	842.1	457.5	621.3	503.2	118.13	5.260	
8,800.0	8,708.2	19,261.0	9,069.6	25.3	89.4	89.72	842.1	457.5	527.6	409.1	118.58	4.450	
8,900.0	8,808.2	19,261.0	9,069.6	25.3	89.4	89.72	842.1	457.5	436.8	317.5	119.28	3.662	
9,000.0	8,908.2	19,261.0	9,069.6	25.4	89.4	89.72	842.1	457.5	350.9	230.5	120.46	2.913	Normal Operations
9,100.0	9,008.2	19,261.0	9,069.6	25.4	89.4	89.72	842.1	457.5	274.8	152.3	122.53	2.243	Caution - Monitor Closely
9,200.0	9,108.2	19,261.0	9,069.6	25.5	89.4	89.72	842.1	457.5	218.9	93.3	125.61	1.742	Caution - Monitor Closely
9,288.1	9,196.3	19,261.0	9,069.6	25.5	89.4	89.72	842.1	457.5	200.3	72.9	127.40	1.573	Caution - Monitor Closely, CC, ES, SF
9,300.0	9,208.2	19,261.0	9,069.6	25.5	89.4	89.72	842.1	457.5	200.7	73.3	127.41	1.575	Caution - Monitor Closely
9,400.0	9,308.2	19,259.3	9,069.7	25.6	89.4	90.20	840.4	457.5	229.5	104.0	125.45	1.829	Caution - Monitor Closely
9,500.0	9,408.2	19,256.7	9,069.7	25.6	89.4	90.94	837.8	457.5	291.6	168.8	122.75	2.375	Caution - Monitor Closely
9,600.0	9,508.2	19,254.1	9,069.8	25.7	89.4	91.69	835.2	457.6	370.6	249.6	121.02	3.062	
9,700.0	9,608.2	19,251.5	9,069.9	25.7	89.3	92.43	832.6	457.6	457.9	337.9	120.05	3.814	
9,800.0	9,708.2	19,248.9	9,069.9	25.8	89.3	93.17	830.0	457.6	549.5	430.0	119.50	4.599	
9,900.0	9,808.2	19,246.3	9,070.0	25.8	89.3	93.91	827.4	457.7	643.7	524.5	119.18	5.401	
10,000.0	9,908.2	19,243.7	9,070.1	25.9	89.3	94.65	824.8	457.7	739.3	620.3	118.99	6.213	
10,100.0	10,008.2	19,241.1	9,070.2	25.9	89.3	95.38	822.2	457.7	836.0	717.1	118.89	7.032	
10,200.0	10,108.2	19,238.5	9,070.2	26.0	89.2	96.12	819.6	457.7	933.3	814.5	118.83	7.854	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 702H - OWB - PWP0 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 MWD+IFR1 — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	0.00	45.0	0.0	45.0				
100.0	100.0	100.0	100.0	3.1	3.1	0.00	45.0	0.0	45.0	38.4	6.62	6.799	
200.0	200.0	200.0	200.0	3.3	3.3	0.00	45.0	0.0	45.0	37.9	7.07	6.363	
300.0	300.0	300.0	300.0	3.5	3.5	0.00	45.0	0.0	45.0	37.5	7.50	6.001	
400.0	400.0	400.0	400.0	3.7	3.7	0.00	45.0	0.0	45.0	37.1	7.90	5.693	
500.0	500.0	500.0	500.0	3.9	3.9	0.00	45.0	0.0	45.0	36.7	8.29	5.426	
600.0	600.0	600.0	600.0	4.1	4.1	0.00	45.0	0.0	45.0	36.3	8.67	5.193	
700.0	700.0	700.0	700.0	4.3	4.3	0.00	45.0	0.0	45.0	36.0	9.03	4.986	
800.0	800.0	800.0	800.0	4.5	4.5	0.00	45.0	0.0	45.0	35.6	9.37	4.801	
900.0	900.0	900.0	900.0	4.7	4.7	0.00	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	0.00	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	0.00	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	0.00	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	0.00	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	0.00	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	0.00	45.0	0.0	45.0	33.4	11.57	3.889	
1,600.0	1,600.0	1,598.9	1,598.8	5.8	5.8	-16.16	46.2	1.2	44.6	32.6	11.98	3.723	
1,700.0	1,699.8	1,697.7	1,697.5	6.1	6.1	-13.53	50.0	4.6	43.5	31.1	12.40	3.504	
1,800.0	1,799.5	1,796.4	1,795.9	6.3	6.3	-8.87	56.2	10.5	41.8	28.9	12.86	3.247	
1,900.0	1,898.7	1,895.1	1,893.8	6.6	6.6	-1.77	64.9	18.6	39.9	26.5	13.38	2.984	Normal Operations
2,000.0	1,997.5	1,993.6	1,991.2	6.9	6.9	8.11	76.0	28.9	38.5	24.6	13.92	2.768	Normal Operations
2,052.7	2,049.3	2,045.5	2,042.2	7.1	7.0	14.42	82.9	35.3	38.3	24.1	14.21	2.696	Normal Operations, CC, ES
2,100.0	2,095.6	2,091.9	2,087.7	7.2	7.2	20.60	89.6	41.6	38.5	24.1	14.43	2.670	Normal Operations
2,150.0	2,144.4	2,141.3	2,135.9	7.3	7.3	27.51	97.2	48.7	39.3	24.8	14.55	2.702	Normal Operations
2,200.0	2,193.2	2,191.0	2,184.5	7.4	7.4	34.44	105.1	56.1	40.5	25.8	14.65	2.762	Normal Operations
2,300.0	2,290.6	2,290.5	2,281.7	7.7	7.7	46.78	120.9	70.7	44.4	29.5	14.87	2.985	Normal Operations
2,400.0	2,388.0	2,390.0	2,378.8	8.0	8.0	56.75	136.6	85.4	50.0	35.0	15.05	3.324	
2,500.0	2,485.5	2,489.5	2,475.9	8.3	8.3	64.54	152.4	100.1	56.9	41.6	15.23	3.734	
2,600.0	2,582.9	2,589.0	2,573.1	8.7	8.6	70.57	168.1	114.8	64.5	49.1	15.43	4.182	
2,700.0	2,680.3	2,688.5	2,670.2	9.0	9.0	75.29	183.9	129.5	72.7	57.1	15.65	4.645	
2,800.0	2,777.8	2,788.0	2,767.4	9.4	9.3	79.04	199.6	144.2	81.3	65.4	15.90	5.113	
2,900.0	2,875.2	2,887.5	2,864.5	9.8	9.7	82.06	215.4	158.9	90.2	74.0	16.18	5.575	
3,000.0	2,972.7	2,987.0	2,961.7	10.2	10.1	84.53	231.1	173.6	99.3	82.8	16.47	6.028	
3,100.0	3,070.1	3,086.6	3,058.8	10.5	10.4	86.59	246.9	188.2	108.5	91.7	16.77	6.469	
3,200.0	3,167.5	3,186.1	3,156.0	10.9	10.8	88.32	262.6	202.9	117.9	100.8	17.09	6.896	
3,300.0	3,265.0	3,285.6	3,253.1	11.3	11.2	89.80	278.4	217.6	127.3	109.9	17.42	7.308	
3,400.0	3,362.4	3,385.1	3,350.2	11.8	11.6	91.07	294.1	232.3	136.8	119.1	17.76	7.705	
3,500.0	3,459.8	3,484.6	3,447.4	12.2	12.0	92.18	309.9	247.0	146.4	128.3	18.10	8.087	
3,600.0	3,557.3	3,584.1	3,544.5	12.6	12.5	93.15	325.6	261.7	156.0	137.6	18.46	8.453	
3,700.0	3,654.7	3,683.6	3,641.7	13.0	12.9	94.01	341.4	276.4	165.7	146.9	18.82	8.805	
3,800.0	3,752.1	3,783.1	3,738.8	13.4	13.3	94.77	357.1	291.1	175.4	156.2	19.18	9.143	
3,900.0	3,849.6	3,882.6	3,836.0	13.9	13.7	95.45	372.9	305.8	185.1	165.5	19.55	9.467	
4,000.0	3,947.0	3,982.1	3,933.1	14.3	14.2	96.07	388.6	320.4	194.8	174.9	19.93	9.778	
4,100.0	4,044.5	4,081.6	4,030.3	14.8	14.6	96.63	404.4	335.1	204.6	184.3	20.31	10.076	
4,200.0	4,141.9	4,181.1	4,127.4	15.2	15.0	97.13	420.1	349.8	214.4	193.7	20.69	10.362	
4,300.0	4,239.3	4,280.6	4,224.5	15.6	15.5	97.59	435.9	364.5	224.2	203.1	21.08	10.637	
4,400.0	4,336.8	4,380.1	4,321.7	16.1	15.9	98.02	451.6	379.2	234.0	212.5	21.47	10.900	
4,500.0	4,434.2	4,479.6	4,418.8	16.5	16.3	98.40	467.4	393.9	243.8	221.9	21.86	11.153	
4,600.0	4,531.6	4,579.1	4,516.0	17.0	16.8	98.76	483.1	408.6	253.6	231.4	22.26	11.396	
4,700.0	4,629.1	4,678.6	4,613.1	17.4	17.2	99.09	498.9	423.3	263.5	240.8	22.65	11.630	
4,800.0	4,726.5	4,778.1	4,710.3	17.9	17.7	99.40	514.6	437.9	273.3	250.3	23.06	11.855	
4,900.0	4,824.0	4,877.6	4,807.4	18.3	18.1	99.69	530.4	452.6	283.2	259.7	23.46	12.071	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 702H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,921.4	4,977.1	4,904.6	18.8	18.6	99.96	546.1	467.3	293.0	269.2	23.87	12.278	
5,080.7	5,000.0	5,057.4	4,982.9	19.2	18.9	100.16	558.8	479.2	301.0	276.8	24.18	12.447	
5,100.0	5,018.8	5,076.6	5,001.7	19.2	19.0	100.22	561.9	482.0	302.9	278.7	24.25	12.489	
5,200.0	5,116.5	5,176.2	5,098.9	19.7	19.5	100.33	577.6	496.7	312.6	287.9	24.67	12.668	
5,300.0	5,214.6	5,275.7	5,196.1	20.2	19.9	100.13	593.4	511.4	321.9	296.8	25.08	12.834	
5,400.0	5,313.0	5,375.2	5,293.2	20.6	20.4	99.64	609.2	526.1	331.0	305.5	25.49	12.982	
5,500.0	5,411.7	5,474.7	5,390.4	21.0	20.8	98.90	624.9	540.8	339.8	313.9	25.92	13.112	
5,600.0	5,510.6	5,574.1	5,487.4	21.5	21.3	97.91	640.6	555.4	348.5	322.1	26.35	13.222	
5,700.0	5,609.8	5,673.4	5,584.4	21.9	21.8	96.69	656.4	570.1	357.0	330.2	26.82	13.311	
5,800.0	5,709.2	5,772.6	5,681.2	22.3	22.2	95.27	672.1	584.7	365.6	338.3	27.33	13.376	
5,900.0	5,808.8	5,871.6	5,777.9	22.7	22.7	93.66	687.7	599.4	374.3	346.4	27.90	13.416	
6,000.0	5,908.5	5,970.4	5,874.3	23.0	23.1	91.87	703.4	613.9	383.3	354.7	28.54	13.430	
6,100.0	6,008.3	6,069.0	5,970.6	23.4	23.6	89.93	719.0	628.5	392.6	363.4	29.27	13.417	
6,200.0	6,108.2	6,167.4	6,066.6	23.7	24.0	87.84	734.5	643.0	402.5	372.5	30.09	13.379	
6,300.0	6,208.2	6,265.9	6,162.8	24.0	24.5	85.63	750.1	657.5	413.1	382.1	31.00	13.326	
6,380.7	6,288.9	6,348.1	6,243.2	24.1	24.9	100.79	762.6	669.2	421.9	390.1	31.80	13.268	
6,400.0	6,308.2	6,367.8	6,262.5	24.1	25.0	100.34	765.4	671.8	424.0	392.0	31.99	13.255	
6,500.0	6,408.2	6,470.4	6,363.2	24.1	25.4	98.19	779.5	685.0	434.6	401.6	33.00	13.170	
6,600.0	6,508.2	6,573.6	6,464.9	24.2	25.9	96.32	792.4	697.0	444.6	410.7	33.95	13.097	
6,700.0	6,608.2	6,677.4	6,567.6	24.2	26.3	94.71	804.0	707.8	454.0	419.1	34.84	13.030	
6,800.0	6,708.2	6,781.8	6,671.0	24.3	26.8	93.34	814.3	717.3	462.5	426.8	35.66	12.969	
6,900.0	6,808.2	6,886.6	6,775.1	24.3	27.2	92.19	823.2	725.7	470.0	433.6	36.41	12.910	
7,000.0	6,908.2	6,991.9	6,879.9	24.4	27.6	91.25	830.7	732.7	476.5	439.5	37.07	12.853	
7,100.0	7,008.2	7,097.5	6,985.2	24.4	28.0	90.50	836.9	738.5	481.9	444.2	37.66	12.795	
7,200.0	7,108.2	7,203.4	7,090.8	24.5	28.4	89.93	841.7	742.9	486.1	447.9	38.16	12.737	
7,300.0	7,208.2	7,309.5	7,196.8	24.5	28.7	89.54	845.0	746.0	489.0	450.4	38.57	12.677	
7,400.0	7,308.2	7,415.7	7,303.0	24.6	29.0	89.32	846.9	747.8	490.7	451.8	38.88	12.622	
7,500.0	7,408.2	7,520.9	7,408.2	24.6	29.2	89.27	847.4	748.2	491.1	452.1	39.02	12.586	
7,600.0	7,508.2	7,620.9	7,508.2	24.7	29.2	89.27	847.4	748.2	491.1	452.0	39.13	12.551	
7,700.0	7,608.2	7,720.9	7,608.2	24.7	29.2	89.27	847.4	748.2	491.1	451.9	39.24	12.516	
7,800.0	7,708.2	7,820.9	7,708.2	24.8	29.3	89.27	847.4	748.2	491.1	451.8	39.35	12.481	
7,900.0	7,808.2	7,920.9	7,808.2	24.8	29.3	89.27	847.4	748.2	491.1	451.7	39.46	12.446	
8,000.0	7,908.2	8,020.9	7,908.2	24.9	29.4	89.27	847.4	748.2	491.1	451.6	39.57	12.412	
8,100.0	8,008.2	8,120.9	8,008.2	24.9	29.4	89.27	847.4	748.2	491.1	451.5	39.68	12.377	
8,200.0	8,108.2	8,220.9	8,108.2	25.0	29.5	89.27	847.4	748.2	491.1	451.3	39.79	12.342	
8,300.0	8,208.2	8,320.9	8,208.2	25.0	29.5	89.27	847.4	748.2	491.1	451.2	39.90	12.308	
8,400.0	8,308.2	8,420.9	8,308.2	25.1	29.6	89.27	847.4	748.2	491.1	451.1	40.02	12.273	
8,500.0	8,408.2	8,520.9	8,408.2	25.1	29.6	89.27	847.4	748.2	491.1	451.0	40.13	12.239	
8,600.0	8,508.2	8,620.9	8,508.2	25.2	29.6	89.27	847.4	748.2	491.1	450.9	40.24	12.205	
8,700.0	8,608.2	8,720.9	8,608.2	25.2	29.7	89.27	847.4	748.2	491.1	450.8	40.36	12.170	
8,800.0	8,708.2	8,820.9	8,708.2	25.3	29.7	89.27	847.4	748.2	491.1	450.7	40.47	12.136	
8,900.0	8,808.2	8,920.9	8,808.2	25.3	29.8	89.27	847.4	748.2	491.1	450.6	40.58	12.102	
9,000.0	8,908.2	9,020.9	8,908.2	25.4	29.8	89.27	847.4	748.2	491.1	450.4	40.70	12.068	
9,100.0	9,008.2	9,120.9	9,008.2	25.4	29.9	89.27	847.4	748.2	491.1	450.3	40.81	12.035	
9,200.0	9,108.2	9,220.9	9,108.2	25.5	29.9	89.27	847.4	748.2	491.1	450.2	40.93	12.001	
9,300.0	9,208.2	9,320.9	9,208.2	25.5	30.0	89.27	847.4	748.2	491.1	450.1	41.04	11.967	
9,400.0	9,308.2	9,420.9	9,308.2	25.6	30.0	89.27	847.4	748.2	491.1	450.0	41.16	11.934	
9,500.0	9,408.2	9,520.9	9,408.2	25.6	30.1	89.27	847.4	748.2	491.1	449.9	41.27	11.900	
9,600.0	9,508.2	9,620.9	9,508.2	25.7	30.1	89.27	847.4	748.2	491.1	449.7	41.39	11.867	
9,700.0	9,608.2	9,720.9	9,608.2	25.7	30.2	89.27	847.4	748.2	491.1	449.6	41.50	11.834	
9,800.0	9,708.2	9,820.9	9,708.2	25.8	30.2	89.27	847.4	748.2	491.1	449.5	41.62	11.801	
9,900.0	9,808.2	9,920.9	9,808.2	25.8	30.2	89.27	847.4	748.2	491.1	449.4	41.74	11.768	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 702H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.0	9,908.2	10,020.9	9,908.2	25.9	30.3	89.27	847.4	748.2	491.1	449.3	41.85	11.735	
10,100.0	10,008.2	10,120.9	10,008.2	25.9	30.3	89.27	847.4	748.2	491.1	449.2	41.97	11.702	
10,200.0	10,108.2	10,220.9	10,108.2	26.0	30.4	89.27	847.4	748.2	491.1	449.0	42.09	11.669	
10,300.0	10,208.2	10,320.9	10,208.2	26.1	30.4	89.27	847.4	748.2	491.1	448.9	42.21	11.636	
10,400.0	10,308.2	10,420.9	10,308.2	26.1	30.5	89.27	847.4	748.2	491.1	448.8	42.33	11.604	
10,500.0	10,408.2	10,520.9	10,408.2	26.2	30.5	89.27	847.4	748.2	491.1	448.7	42.44	11.571	
10,600.0	10,508.2	10,620.9	10,508.2	26.2	30.6	89.27	847.4	748.2	491.1	448.6	42.56	11.539	
10,700.0	10,608.2	10,720.9	10,608.2	26.3	30.6	89.27	847.4	748.2	491.1	448.5	42.68	11.507	
10,800.0	10,708.2	10,820.9	10,708.2	26.3	30.7	89.27	847.4	748.2	491.1	448.3	42.80	11.475	
10,900.0	10,808.2	10,920.9	10,808.2	26.4	30.7	89.27	847.4	748.2	491.1	448.2	42.92	11.443	
11,000.0	10,908.2	11,020.9	10,908.2	26.4	30.8	89.27	847.4	748.2	491.1	448.1	43.04	11.411	
11,100.0	11,008.2	11,120.9	11,008.2	26.5	30.8	89.27	847.4	748.2	491.1	448.0	43.16	11.379	
11,200.0	11,108.2	11,220.9	11,108.2	26.5	30.9	89.27	847.4	748.2	491.1	447.9	43.28	11.348	
11,300.0	11,208.2	11,320.9	11,208.2	26.6	30.9	89.27	847.4	748.2	491.1	447.7	43.40	11.316	
11,400.0	11,308.2	11,420.9	11,308.2	26.6	31.0	89.27	847.4	748.2	491.1	447.6	43.52	11.285	
11,500.0	11,408.2	11,520.9	11,408.2	26.7	31.0	89.27	847.4	748.2	491.1	447.5	43.64	11.253	
11,600.0	11,508.2	11,620.9	11,508.2	26.8	31.1	89.27	847.4	748.2	491.1	447.4	43.77	11.222	
11,700.0	11,608.2	11,720.9	11,608.2	26.8	31.1	89.27	847.4	748.2	491.1	447.3	43.88	11.192	
11,704.4	11,612.6	11,725.3	11,612.6	26.8	31.1	89.27	847.4	748.2	491.1	447.2	43.89	11.191	
11,800.0	11,708.2	11,815.3	11,702.5	26.9	31.0	89.70	843.6	748.6	491.5	447.6	43.89	11.200	
11,900.0	11,808.2	11,902.7	11,787.7	26.9	30.8	91.88	824.9	750.5	494.0	450.6	43.38	11.388	
12,000.0	11,908.2	11,981.1	11,860.1	27.0	30.5	95.28	795.2	753.4	500.6	458.0	42.68	11.729	
12,014.3	11,922.5	11,991.4	11,869.2	27.0	30.5	95.82	790.4	753.8	502.1	459.5	42.59	11.789	
12,025.0	11,933.2	12,000.0	11,876.7	27.0	30.5	-75.09	786.3	754.2	503.2	460.8	42.49	11.843	
12,050.0	11,958.2	12,016.6	11,891.1	26.9	30.4	-73.91	778.0	755.1	506.0	463.6	42.39	11.936	
12,075.0	11,983.0	12,034.0	11,905.8	26.8	30.4	-72.72	768.7	756.0	508.9	466.5	42.31	12.026	
12,100.0	12,007.7	12,050.0	11,918.9	26.8	30.3	-71.62	759.7	756.8	511.8	469.5	42.31	12.095	
12,125.0	12,032.2	12,068.4	11,933.7	26.7	30.3	-70.44	748.8	757.9	514.7	472.4	42.28	12.174	
12,150.0	12,056.4	12,085.3	11,947.0	26.6	30.2	-69.37	738.3	758.9	517.7	475.3	42.33	12.229	
12,175.0	12,080.2	12,100.0	11,958.1	26.5	30.2	-68.43	728.8	759.9	520.6	478.1	42.49	12.253	
12,200.0	12,103.6	12,118.8	11,972.0	26.4	30.2	-67.36	716.1	761.1	523.5	481.0	42.55	12.304	
12,225.0	12,126.4	12,135.4	11,983.8	26.3	30.1	-66.42	704.5	762.3	526.3	483.6	42.71	12.323	
12,250.0	12,148.7	12,150.0	11,993.8	26.2	30.1	-65.60	694.0	763.3	529.1	486.1	42.98	12.311	
12,275.0	12,170.4	12,168.3	12,006.0	26.1	30.0	-64.70	680.4	764.6	531.7	488.6	43.15	12.324	
12,300.0	12,191.5	12,184.6	12,016.3	26.0	30.0	-63.91	667.9	765.8	534.3	490.9	43.41	12.307	
12,325.0	12,211.7	12,200.0	12,025.7	26.0	30.0	-63.20	655.7	767.0	536.7	492.9	43.73	12.271	
12,350.0	12,231.2	12,216.9	12,035.6	25.9	29.9	-62.49	642.0	768.4	538.9	494.9	44.03	12.240	
12,375.0	12,249.9	12,233.0	12,044.5	25.8	29.9	-61.86	628.7	769.7	540.9	496.6	44.37	12.191	
12,400.0	12,267.6	12,250.0	12,053.4	25.7	29.9	-61.25	614.3	771.1	542.8	498.1	44.70	12.143	
12,425.0	12,284.4	12,264.9	12,060.8	25.6	29.8	-60.75	601.4	772.4	544.5	499.4	45.13	12.065	
12,450.0	12,300.2	12,280.8	12,068.2	25.6	29.8	-60.27	587.4	773.7	546.0	500.4	45.54	11.990	
12,475.0	12,315.0	12,300.0	12,076.6	25.5	29.8	-59.79	570.2	775.4	547.2	501.4	45.84	11.939	
12,500.0	12,328.7	12,312.5	12,081.6	25.4	29.8	-59.48	558.8	776.5	548.2	501.8	46.39	11.817	
12,525.0	12,341.3	12,325.0	12,086.4	25.4	29.8	-59.21	547.3	777.7	549.0	502.1	46.96	11.691	
12,550.0	12,352.7	12,344.1	12,093.1	25.3	29.8	-58.90	529.6	779.4	549.5	502.2	47.30	11.619	
12,575.0	12,362.9	12,359.8	12,098.0	25.3	29.7	-58.69	514.7	780.9	549.8	502.1	47.76	11.512	
12,600.0	12,372.0	12,375.0	12,102.4	25.3	29.7	-58.53	500.2	782.3	549.9	501.6	48.25	11.397	
12,625.0	12,379.8	12,391.2	12,106.5	25.2	29.7	-58.42	484.6	783.8	549.6	500.9	48.70	11.287	
12,650.0	12,386.4	12,406.9	12,109.9	25.2	29.7	-58.37	469.4	785.3	549.1	500.0	49.17	11.169	
12,675.0	12,391.7	12,425.0	12,113.3	25.2	29.7	-58.36	451.7	787.0	548.4	498.8	49.55	11.068	
12,700.0	12,395.7	12,438.3	12,115.3	25.2	29.7	-58.43	438.6	788.3	547.4	497.3	50.09	10.927	
12,725.0	12,398.4	12,450.0	12,116.8	25.2	29.7	-58.53	427.0	789.5	546.1	495.4	50.68	10.776	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 702H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,750.0	12,399.8	12,469.6	12,118.7	25.2	29.7	-58.70	407.6	791.4	544.6	493.6	51.00	10.679	
12,764.3	12,400.0	12,475.0	12,119.0	25.2	29.7	-58.80	402.3	791.9	543.6	492.2	51.36	10.584	
12,800.0	12,400.0	12,501.0	12,120.0	25.2	29.7	-58.85	376.4	794.4	541.6	489.8	51.87	10.441	
12,900.0	12,400.0	12,616.4	12,120.0	25.3	29.9	-58.63	261.4	803.5	538.3	486.2	52.11	10.330	
13,000.0	12,400.0	12,735.3	12,120.0	25.3	30.0	-58.37	142.6	808.1	534.4	482.2	52.27	10.224	
13,100.0	12,400.0	12,840.3	12,120.0	25.4	30.1	-58.16	37.5	808.9	530.9	478.0	52.92	10.033	
13,171.6	12,400.0	12,912.0	12,120.0	25.4	30.2	-58.12	-34.1	809.3	530.2	476.7	53.50	9.910	
13,200.0	12,400.0	12,940.3	12,120.0	25.5	30.3	-58.12	-62.5	809.5	530.2	476.5	53.73	9.867	
13,300.0	12,400.0	13,040.3	12,120.0	25.5	30.4	-58.12	-162.5	810.1	530.2	475.6	54.59	9.713	
13,400.0	12,400.0	13,140.3	12,120.0	25.6	30.6	-58.12	-262.5	810.8	530.2	474.7	55.48	9.555	
13,500.0	12,400.0	13,240.3	12,120.0	25.7	30.8	-58.12	-362.4	811.4	530.2	473.8	56.43	9.396	
13,600.0	12,400.0	13,340.3	12,120.0	25.9	31.1	-58.12	-462.4	812.0	530.2	472.8	57.41	9.234	
13,700.0	12,400.0	13,440.3	12,120.0	26.0	31.3	-58.12	-562.4	812.6	530.2	471.7	58.44	9.072	
13,800.0	12,400.0	13,540.3	12,120.0	26.2	31.6	-58.12	-662.4	813.2	530.2	470.7	59.50	8.910	
13,900.0	12,400.0	13,640.3	12,120.0	26.4	31.8	-58.12	-762.4	813.8	530.2	469.6	60.60	8.748	
14,000.0	12,400.0	13,740.3	12,120.0	26.6	32.2	-58.12	-862.4	814.4	530.2	468.4	61.74	8.588	
14,100.0	12,400.0	13,840.3	12,120.0	26.9	32.5	-58.12	-962.4	815.1	530.2	467.3	62.90	8.429	
14,200.0	12,400.0	13,940.3	12,120.0	27.2	32.8	-58.12	-1,062.4	815.7	530.2	466.1	64.10	8.271	
14,300.0	12,400.0	14,040.3	12,120.0	27.6	33.2	-58.12	-1,162.4	816.3	530.2	464.8	65.32	8.116	
14,400.0	12,400.0	14,140.3	12,120.0	28.0	33.6	-58.12	-1,262.4	816.9	530.2	463.6	66.57	7.964	
14,500.0	12,400.0	14,240.3	12,120.0	28.5	34.1	-58.12	-1,362.4	817.5	530.2	462.3	67.85	7.814	
14,600.0	12,400.0	14,340.3	12,120.0	29.0	34.5	-58.12	-1,462.4	818.1	530.2	461.0	69.15	7.667	
14,700.0	12,400.0	14,440.3	12,120.0	29.5	35.0	-58.12	-1,562.4	818.8	530.2	459.7	70.47	7.523	
14,800.0	12,400.0	14,540.3	12,120.0	30.1	35.5	-58.12	-1,662.4	819.4	530.2	458.3	71.81	7.382	
14,900.0	12,400.0	14,640.3	12,120.0	30.7	36.0	-58.12	-1,762.4	820.0	530.2	457.0	73.18	7.245	
15,000.0	12,400.0	14,740.3	12,120.0	31.4	36.5	-58.12	-1,862.4	820.6	530.2	455.6	74.56	7.110	
15,100.0	12,400.0	14,840.3	12,120.0	32.1	37.1	-58.12	-1,962.4	821.2	530.2	454.2	75.97	6.979	
15,200.0	12,400.0	14,940.3	12,120.0	32.8	37.7	-58.12	-2,062.4	821.8	530.1	452.8	77.39	6.851	
15,300.0	12,400.0	15,040.3	12,120.0	33.5	38.3	-58.12	-2,162.4	822.4	530.1	451.3	78.82	6.726	
15,400.0	12,400.0	15,140.3	12,120.0	34.2	38.9	-58.12	-2,262.4	823.1	530.1	449.9	80.27	6.604	
15,500.0	12,400.0	15,240.3	12,120.0	35.0	39.5	-58.12	-2,362.4	823.7	530.1	448.4	81.74	6.486	
15,600.0	12,400.0	15,340.3	12,120.0	35.8	40.1	-58.12	-2,462.4	824.3	530.1	446.9	83.22	6.371	
15,700.0	12,400.0	15,440.3	12,120.0	36.6	40.8	-58.12	-2,562.4	824.9	530.1	445.4	84.71	6.259	
15,800.0	12,400.0	15,540.3	12,120.0	37.3	41.5	-58.12	-2,662.4	825.5	530.1	443.9	86.21	6.149	
15,900.0	12,400.0	15,640.3	12,120.0	38.2	42.2	-58.12	-2,762.4	826.1	530.1	442.4	87.73	6.043	
16,000.0	12,400.0	15,740.3	12,120.0	39.0	42.9	-58.12	-2,862.4	826.8	530.1	440.9	89.25	5.940	
16,100.0	12,400.0	15,840.3	12,120.0	39.8	43.6	-58.12	-2,962.4	827.4	530.1	439.3	90.79	5.839	
16,200.0	12,400.0	15,940.3	12,120.0	40.6	44.3	-58.12	-3,062.4	828.0	530.1	437.8	92.34	5.741	
16,300.0	12,400.0	16,040.3	12,120.0	41.5	45.1	-58.12	-3,162.4	828.6	530.1	436.2	93.90	5.646	
16,400.0	12,400.0	16,140.3	12,120.0	42.3	45.8	-58.12	-3,262.4	829.2	530.1	434.7	95.46	5.553	
16,500.0	12,400.0	16,240.3	12,120.0	43.2	46.6	-58.12	-3,362.4	829.8	530.1	433.1	97.04	5.463	
16,600.0	12,400.0	16,340.3	12,120.0	44.0	47.3	-58.12	-3,462.4	830.4	530.1	431.5	98.62	5.375	
16,700.0	12,400.0	16,440.3	12,120.0	44.9	48.1	-58.12	-3,562.4	831.1	530.1	429.9	100.21	5.290	
16,800.0	12,400.0	16,540.3	12,120.0	45.7	48.9	-58.12	-3,662.4	831.7	530.1	428.3	101.81	5.207	
16,900.0	12,400.0	16,640.3	12,120.0	46.6	49.7	-58.12	-3,762.4	832.3	530.1	426.7	103.41	5.126	
17,000.0	12,400.0	16,740.3	12,120.0	47.5	50.5	-58.12	-3,862.4	832.9	530.1	425.1	105.02	5.048	
17,100.0	12,400.0	16,840.3	12,120.0	48.4	51.3	-58.12	-3,962.4	833.5	530.1	423.5	106.64	4.971	
17,200.0	12,400.0	16,940.3	12,120.0	49.2	52.1	-58.12	-4,062.4	834.1	530.1	421.8	108.27	4.896	
17,300.0	12,400.0	17,040.3	12,120.0	50.1	52.9	-58.12	-4,162.4	834.8	530.1	420.2	109.90	4.824	
17,400.0	12,400.0	17,140.3	12,120.0	51.0	53.7	-58.12	-4,262.4	835.4	530.1	418.6	111.53	4.753	
17,500.0	12,400.0	17,240.3	12,120.0	51.9	54.6	-58.12	-4,362.4	836.0	530.1	416.9	113.17	4.684	
17,600.0	12,400.0	17,340.3	12,120.0	52.8	55.4	-58.12	-4,462.4	836.6	530.1	415.3	114.82	4.617	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 702H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,700.0	12,400.0	17,440.3	12,120.0	53.7	56.2	-58.12	-4,562.4	837.2	530.1	413.6	116.47	4.551	
17,800.0	12,400.0	17,540.3	12,120.0	54.6	57.1	-58.12	-4,662.4	837.8	530.1	412.0	118.13	4.488	
17,900.0	12,400.0	17,640.3	12,120.0	55.5	57.9	-58.12	-4,762.4	838.5	530.1	410.3	119.79	4.425	
18,000.0	12,400.0	17,740.3	12,120.0	56.4	58.8	-58.12	-4,862.4	839.1	530.1	408.6	121.45	4.365	
18,100.0	12,400.0	17,840.3	12,120.0	57.3	59.6	-58.12	-4,962.4	839.7	530.1	407.0	123.12	4.306	
18,200.0	12,400.0	17,940.3	12,120.0	58.2	60.5	-58.12	-5,062.4	840.3	530.1	405.3	124.79	4.248	
18,300.0	12,400.0	18,040.3	12,120.0	59.1	61.4	-58.12	-5,162.4	840.9	530.1	403.6	126.47	4.191	
18,400.0	12,400.0	18,140.3	12,120.0	60.0	62.2	-58.12	-5,262.4	841.5	530.1	401.9	128.15	4.136	
18,500.0	12,400.0	18,240.3	12,120.0	61.0	63.1	-58.12	-5,362.4	842.1	530.1	400.3	129.83	4.083	
18,600.0	12,400.0	18,340.3	12,120.0	61.9	64.0	-58.11	-5,462.4	842.8	530.1	398.6	131.52	4.030	
18,700.0	12,400.0	18,440.3	12,120.0	62.8	64.8	-58.11	-5,562.4	843.4	530.1	396.9	133.21	3.979	
18,800.0	12,400.0	18,540.3	12,120.0	63.7	65.7	-58.11	-5,662.3	844.0	530.1	395.2	134.90	3.929	
18,900.0	12,400.0	18,640.3	12,120.0	64.6	66.6	-58.11	-5,762.3	844.6	530.1	393.5	136.60	3.880	
19,000.0	12,400.0	18,740.3	12,120.0	65.6	67.5	-58.11	-5,862.3	845.2	530.1	391.8	138.30	3.833	
19,100.0	12,400.0	18,840.3	12,120.0	66.5	68.4	-58.11	-5,962.3	845.8	530.1	390.1	140.00	3.786	
19,200.0	12,400.0	18,940.3	12,120.0	67.4	69.3	-58.11	-6,062.3	846.5	530.1	388.4	141.71	3.741	
19,300.0	12,400.0	19,040.3	12,120.0	68.3	70.1	-58.11	-6,162.3	847.1	530.1	386.7	143.42	3.696	
19,400.0	12,400.0	19,140.3	12,120.0	69.3	71.0	-58.11	-6,262.3	847.7	530.1	384.9	145.13	3.652	
19,500.0	12,400.0	19,240.3	12,120.0	70.2	71.9	-58.11	-6,362.3	848.3	530.1	383.2	146.84	3.610	
19,600.0	12,400.0	19,340.3	12,120.0	71.1	72.8	-58.11	-6,462.3	848.9	530.1	381.5	148.55	3.568	
19,700.0	12,400.0	19,440.3	12,120.0	72.0	73.7	-58.11	-6,562.3	849.5	530.1	379.8	150.27	3.527	
19,800.0	12,400.0	19,540.3	12,120.0	73.0	74.6	-58.11	-6,662.3	850.1	530.1	378.1	151.99	3.487	
19,900.0	12,400.0	19,640.3	12,120.0	73.9	75.5	-58.11	-6,762.3	850.8	530.1	376.4	153.71	3.448	
20,000.0	12,400.0	19,740.3	12,120.0	74.8	76.4	-58.11	-6,862.3	851.4	530.1	374.6	155.44	3.410	
20,100.0	12,400.0	19,840.3	12,120.0	75.8	77.3	-58.11	-6,962.3	852.0	530.1	372.9	157.16	3.373	
20,200.0	12,400.0	19,940.3	12,120.0	76.7	78.2	-58.11	-7,062.3	852.6	530.1	371.2	158.89	3.336	
20,300.0	12,400.0	20,040.3	12,120.0	77.6	79.1	-58.11	-7,162.3	853.2	530.1	369.4	160.62	3.300	
20,400.0	12,400.0	20,140.3	12,120.0	78.6	80.1	-58.11	-7,262.3	853.8	530.1	367.7	162.35	3.265	
20,500.0	12,400.0	20,240.3	12,120.0	79.5	81.0	-58.11	-7,362.3	854.5	530.1	366.0	164.08	3.230	
20,600.0	12,400.0	20,340.3	12,120.0	80.4	81.9	-58.11	-7,462.3	855.1	530.0	364.2	165.82	3.197	
20,700.0	12,400.0	20,440.3	12,120.0	81.4	82.8	-58.11	-7,562.3	855.7	530.0	362.5	167.55	3.163	
20,800.0	12,400.0	20,540.3	12,120.0	82.3	83.7	-58.11	-7,662.3	856.3	530.0	360.8	169.29	3.131	
20,900.0	12,400.0	20,640.3	12,120.0	83.2	84.6	-58.11	-7,762.3	856.9	530.0	359.0	171.03	3.099	
21,000.0	12,400.0	20,740.3	12,120.0	84.2	85.5	-58.11	-7,862.3	857.5	530.0	357.3	172.77	3.068	
21,100.0	12,400.0	20,840.3	12,120.0	85.1	86.5	-58.11	-7,962.3	858.2	530.0	355.5	174.51	3.037	
21,200.0	12,400.0	20,940.3	12,120.0	86.1	87.4	-58.11	-8,062.3	858.8	530.0	353.8	176.26	3.007	
21,300.0	12,400.0	21,040.3	12,120.0	87.0	88.3	-58.11	-8,162.3	859.4	530.0	352.0	178.00	2.978	Normal Operations
21,400.0	12,400.0	21,140.3	12,120.0	87.9	89.2	-58.11	-8,262.3	860.0	530.0	350.3	179.75	2.949	Normal Operations
21,500.0	12,400.0	21,240.3	12,120.0	88.9	90.1	-58.11	-8,362.3	860.6	530.0	348.5	181.50	2.920	Normal Operations
21,600.0	12,400.0	21,340.3	12,120.0	89.8	91.1	-58.11	-8,462.3	861.2	530.0	346.8	183.24	2.892	Normal Operations
21,700.0	12,400.0	21,440.3	12,120.0	90.8	92.0	-58.11	-8,562.3	861.8	530.0	345.0	184.99	2.865	Normal Operations
21,800.0	12,400.0	21,540.3	12,120.0	91.7	92.9	-58.11	-8,662.3	862.5	530.0	343.3	186.75	2.838	Normal Operations
21,900.0	12,400.0	21,640.3	12,120.0	92.7	93.8	-58.11	-8,762.3	863.1	530.0	341.5	188.50	2.812	Normal Operations
22,000.0	12,400.0	21,740.3	12,120.0	93.6	94.8	-58.11	-8,862.3	863.7	530.0	339.8	190.25	2.786	Normal Operations
22,100.0	12,400.0	21,840.3	12,120.0	94.5	95.7	-58.11	-8,962.3	864.3	530.0	338.0	192.01	2.760	Normal Operations
22,200.0	12,400.0	21,940.3	12,120.0	95.5	96.6	-58.11	-9,062.3	864.9	530.0	336.3	193.76	2.735	Normal Operations
22,300.0	12,400.0	22,040.3	12,120.0	96.4	97.5	-58.11	-9,162.3	865.5	530.0	334.5	195.52	2.711	Normal Operations
22,400.0	12,400.0	22,140.3	12,120.0	97.4	98.5	-58.11	-9,262.3	866.2	530.0	332.7	197.27	2.687	Normal Operations
22,500.0	12,400.0	22,240.3	12,120.0	98.3	99.4	-58.11	-9,362.3	866.8	530.0	331.0	199.03	2.663	Normal Operations
22,600.0	12,400.0	22,340.3	12,120.0	99.3	100.3	-58.11	-9,462.3	867.4	530.0	329.2	200.79	2.640	Normal Operations
22,700.0	12,400.0	22,440.3	12,120.0	100.2	101.3	-58.11	-9,562.3	868.0	530.0	327.5	202.55	2.617	Normal Operations
22,800.0	12,400.0	22,540.3	12,120.0	101.2	102.2	-58.11	-9,662.3	868.6	530.0	325.7	204.31	2.594	Normal Operations

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 702H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
22,829.7	12,400.0	22,570.0	12,120.0	101.4	102.5	-58.11	-9,691.9	868.8	530.0	325.2	204.83	2.587	Normal Operations
22,830.4	12,400.0	22,570.4	12,120.0	101.5	102.5	-58.11	-9,692.3	868.8	530.0	325.1	204.86	2.587	Normal Operations, SF

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-90.38	-0.2	-30.0	30.0				
100.0	100.0	99.8	99.8	3.1	3.1	-90.38	-0.2	-30.0	30.0	23.4	6.62	4.533	
200.0	200.0	199.8	199.8	3.3	3.3	-90.38	-0.2	-30.0	30.0	22.9	7.07	4.243	
300.0	300.0	299.8	299.8	3.5	3.5	-90.38	-0.2	-30.0	30.0	22.5	7.50	4.001	
400.0	400.0	399.8	399.8	3.7	3.7	-90.38	-0.2	-30.0	30.0	22.1	7.90	3.795	
500.0	500.0	499.8	499.8	3.9	3.9	-90.38	-0.2	-30.0	30.0	21.7	8.29	3.618	
600.0	600.0	599.8	599.8	4.1	4.1	-90.38	-0.2	-30.0	30.0	21.3	8.67	3.462	
700.0	700.0	699.8	699.8	4.3	4.3	-90.38	-0.2	-30.0	30.0	21.0	9.03	3.324	
800.0	800.0	799.8	799.8	4.5	4.5	-90.38	-0.2	-30.0	30.0	20.6	9.37	3.201	
900.0	900.0	899.8	899.8	4.7	4.7	-90.38	-0.2	-30.0	30.0	20.3	9.71	3.089	
1,000.0	1,000.0	999.8	999.8	4.8	4.8	-90.38	-0.2	-30.0	30.0	20.0	10.04	2.988	Normal Operations
1,100.0	1,100.0	1,099.8	1,099.8	5.0	5.0	-90.38	-0.2	-30.0	30.0	19.6	10.36	2.896	Normal Operations
1,200.0	1,200.0	1,199.8	1,199.8	5.2	5.2	-90.38	-0.2	-30.0	30.0	19.3	10.67	2.811	Normal Operations
1,300.0	1,300.0	1,299.8	1,299.8	5.3	5.3	-90.38	-0.2	-30.0	30.0	19.0	10.98	2.733	Normal Operations
1,400.0	1,400.0	1,399.8	1,399.8	5.5	5.5	-90.38	-0.2	-30.0	30.0	18.7	11.28	2.660	Normal Operations
1,500.0	1,500.0	1,499.8	1,499.8	5.6	5.6	-90.38	-0.2	-30.0	30.0	18.4	11.57	2.593	Normal Operations, CC, ES
1,600.0	1,600.0	1,599.9	1,599.9	5.8	5.8	-108.90	0.7	-29.8	30.4	18.5	11.87	2.560	Normal Operations, SF
1,700.0	1,699.8	1,700.0	1,699.9	6.1	5.9	-113.22	3.2	-29.4	31.6	19.5	12.17	2.599	Normal Operations
1,800.0	1,799.5	1,800.1	1,799.9	6.3	6.1	-119.64	7.5	-28.6	34.1	21.6	12.49	2.727	Normal Operations
1,900.0	1,898.7	1,900.2	1,899.8	6.6	6.3	-127.10	13.6	-27.6	38.1	25.2	12.86	2.960	Normal Operations
2,000.0	1,997.5	2,000.2	1,999.6	6.9	6.5	-134.51	21.3	-26.2	44.0	30.7	13.30	3.307	
2,100.0	2,095.6	2,100.1	2,099.0	7.2	6.8	-139.95	31.5	-25.3	52.1	38.3	13.80	3.777	
2,150.0	2,144.4	2,150.1	2,148.5	7.3	6.9	-141.61	37.8	-25.2	57.0	43.0	14.01	4.070	
2,200.0	2,193.2	2,200.1	2,198.0	7.4	7.1	-142.52	45.0	-25.5	62.0	47.8	14.20	4.366	
2,300.0	2,290.6	2,299.8	2,296.5	7.7	7.3	-142.93	60.5	-26.5	71.7	57.1	14.63	4.900	
2,400.0	2,388.0	2,399.3	2,394.8	8.0	7.6	-143.21	76.1	-27.5	81.3	66.3	15.08	5.393	
2,500.0	2,485.5	2,498.8	2,493.1	8.3	7.9	-143.43	91.6	-28.4	91.0	75.5	15.56	5.850	
2,600.0	2,582.9	2,598.4	2,591.4	8.7	8.2	-143.61	107.1	-29.4	100.7	84.6	16.05	6.273	
2,700.0	2,680.3	2,697.9	2,689.7	9.0	8.5	-143.76	122.7	-30.4	110.3	93.8	16.56	6.665	
2,800.0	2,777.8	2,797.4	2,788.0	9.4	8.9	-143.89	138.2	-31.4	120.0	102.9	17.08	7.027	
2,900.0	2,875.2	2,896.9	2,886.3	9.8	9.2	-143.99	153.8	-32.3	129.7	112.1	17.62	7.362	
3,000.0	2,972.7	2,996.5	2,984.6	10.2	9.5	-144.08	169.3	-33.3	139.3	121.2	18.16	7.672	
3,100.0	3,070.1	3,096.0	3,082.9	10.5	9.9	-144.16	184.8	-34.3	149.0	130.3	18.72	7.959	
3,200.0	3,167.5	3,195.5	3,181.2	10.9	10.3	-144.23	200.4	-35.3	158.7	139.4	19.29	8.225	
3,300.0	3,265.0	3,295.1	3,279.5	11.3	10.6	-144.29	215.9	-36.3	168.3	148.5	19.87	8.472	
3,400.0	3,362.4	3,394.6	3,377.8	11.8	11.0	-144.35	231.5	-37.2	178.0	157.6	20.46	8.701	
3,500.0	3,459.8	3,494.1	3,476.1	12.2	11.4	-144.40	247.0	-38.2	187.7	166.6	21.05	8.914	
3,600.0	3,557.3	3,593.7	3,574.4	12.6	11.8	-144.44	262.5	-39.2	197.4	175.7	21.66	9.113	
3,700.0	3,654.7	3,693.2	3,672.7	13.0	12.2	-144.48	278.1	-40.2	207.0	184.8	22.26	9.298	
3,800.0	3,752.1	3,792.7	3,771.0	13.4	12.6	-144.52	293.6	-41.1	216.7	193.8	22.88	9.471	
3,900.0	3,849.6	3,892.3	3,869.3	13.9	13.0	-144.55	309.2	-42.1	226.4	202.9	23.50	9.632	
4,000.0	3,947.0	3,991.8	3,967.7	14.3	13.3	-144.58	324.7	-43.1	236.0	211.9	24.13	9.783	
4,100.0	4,044.5	4,091.3	4,066.0	14.8	13.7	-144.61	340.2	-44.1	245.7	220.9	24.76	9.925	
4,200.0	4,141.9	4,190.9	4,164.3	15.2	14.2	-144.64	355.8	-45.0	255.4	230.0	25.39	10.058	
4,300.0	4,239.3	4,290.4	4,262.6	15.6	14.6	-144.66	371.3	-46.0	265.0	239.0	26.03	10.183	
4,400.0	4,336.8	4,389.9	4,360.9	16.1	15.0	-144.68	386.9	-47.0	274.7	248.0	26.67	10.300	
4,500.0	4,434.2	4,489.5	4,459.2	16.5	15.4	-144.71	402.4	-48.0	284.4	257.1	27.32	10.411	
4,600.0	4,531.6	4,589.0	4,557.5	17.0	15.8	-144.73	417.9	-49.0	294.0	266.1	27.96	10.515	
4,700.0	4,629.1	4,688.5	4,655.8	17.4	16.2	-144.74	433.5	-49.9	303.7	275.1	28.62	10.613	
4,800.0	4,726.5	4,788.0	4,754.1	17.9	16.6	-144.76	449.0	-50.9	313.4	284.1	29.27	10.706	
4,900.0	4,824.0	4,887.6	4,852.4	18.3	17.0	-144.78	464.5	-51.9	323.0	293.1	29.93	10.794	
5,000.0	4,921.4	4,987.1	4,950.7	18.8	17.5	-144.79	480.1	-52.9	332.7	302.1	30.59	10.877	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,080.7	5,000.0	5,067.4	5,030.0	19.2	17.8	-144.80	492.6	-53.7	340.5	309.4	31.11	10.945	
5,100.0	5,018.8	5,086.6	5,049.0	19.2	17.9	-144.81	495.6	-53.8	342.4	311.1	31.23	10.962	
5,200.0	5,116.5	5,186.3	5,147.4	19.7	18.3	-144.76	511.2	-54.8	351.0	319.2	31.87	11.015	
5,300.0	5,214.6	5,286.0	5,245.9	20.2	18.7	-144.55	526.7	-55.8	358.3	325.9	32.45	11.041	
5,400.0	5,313.0	5,385.8	5,344.5	20.6	19.1	-144.18	542.3	-56.8	364.2	331.2	32.98	11.042	
5,500.0	5,411.7	5,485.6	5,443.1	21.0	19.6	-143.65	557.9	-57.8	368.7	335.2	33.45	11.020	
5,600.0	5,510.6	5,585.5	5,541.7	21.5	20.0	-142.96	573.5	-58.7	371.8	337.9	33.86	10.980	
5,700.0	5,609.8	5,685.3	5,640.3	21.9	20.4	-142.12	589.1	-59.7	373.6	339.4	34.20	10.923	
5,800.0	5,709.2	5,785.1	5,738.8	22.3	20.8	-141.11	604.7	-60.7	374.1	339.6	34.46	10.856	
5,900.0	5,808.8	5,884.8	5,837.3	22.7	21.3	-139.93	620.2	-61.7	373.4	338.7	34.63	10.781	
6,000.0	5,908.5	5,984.4	5,935.7	23.0	21.7	-138.56	635.8	-62.7	371.5	336.8	34.71	10.704	
6,100.0	6,008.3	6,083.8	6,033.9	23.4	22.1	-136.99	651.3	-63.6	368.6	333.9	34.67	10.630	
6,200.0	6,108.2	6,183.1	6,132.0	23.7	22.6	-135.20	666.8	-64.6	364.7	330.2	34.52	10.566	
6,300.0	6,208.2	6,282.2	6,229.8	24.0	23.0	-133.17	682.3	-65.6	360.0	325.8	34.22	10.520	
6,380.7	6,288.9	6,361.9	6,308.6	24.1	23.3	-114.34	694.7	-66.4	355.7	321.8	33.82	10.517	
6,400.0	6,308.2	6,381.0	6,327.4	24.1	23.4	-113.89	697.7	-66.6	354.6	320.9	33.69	10.524	
6,500.0	6,408.2	6,479.8	6,425.0	24.1	23.8	-111.51	713.1	-67.5	349.4	316.3	33.08	10.561	
6,600.0	6,508.2	6,578.5	6,522.6	24.2	24.3	-109.07	728.6	-68.5	344.9	312.4	32.45	10.627	
6,700.0	6,608.2	6,677.3	6,620.1	24.2	24.7	-106.56	744.0	-69.5	341.0	309.2	31.82	10.715	
6,800.0	6,708.2	6,776.1	6,717.7	24.3	25.1	-104.01	759.4	-70.4	337.8	306.6	31.21	10.821	
6,900.0	6,808.2	6,874.7	6,815.1	24.3	25.5	-101.41	774.8	-71.4	335.3	304.6	30.63	10.947	
7,000.0	6,908.2	6,973.0	6,912.3	24.4	25.9	-98.98	789.0	-72.3	333.6	303.4	30.15	11.062	
7,100.0	7,008.2	7,071.7	7,010.2	24.4	26.4	-96.81	801.7	-73.1	332.6	302.8	29.82	11.152	
7,200.0	7,108.2	7,170.9	7,108.8	24.5	26.8	-94.91	812.7	-73.8	332.2	302.6	29.61	11.216	
7,279.9	7,188.1	7,250.3	7,187.9	24.5	27.1	-93.60	820.2	-74.3	332.1	302.6	29.52	11.248	
7,300.0	7,208.2	7,270.4	7,207.8	24.5	27.1	-93.30	822.0	-74.4	332.1	302.6	29.51	11.254	
7,400.0	7,308.2	7,370.2	7,307.4	24.6	27.5	-91.98	829.6	-74.9	332.2	302.7	29.49	11.267	
7,500.0	7,408.2	7,470.2	7,407.2	24.6	27.9	-90.96	835.5	-75.2	332.4	302.9	29.53	11.258	
7,600.0	7,508.2	7,570.5	7,507.4	24.7	28.2	-90.24	839.7	-75.5	332.6	303.0	29.62	11.232	
7,700.0	7,608.2	7,670.8	7,607.7	24.7	28.5	-89.82	842.1	-75.6	332.8	303.1	29.74	11.191	
7,800.0	7,708.2	7,771.1	7,708.0	24.8	28.6	-89.71	842.8	-75.7	332.8	303.0	29.87	11.145	
7,900.0	7,808.2	7,871.1	7,808.0	24.8	28.7	-89.71	842.8	-75.7	332.8	302.8	30.01	11.092	
8,000.0	7,908.2	7,971.1	7,908.0	24.9	28.7	-89.71	842.8	-75.7	332.8	302.7	30.16	11.037	
8,100.0	8,008.2	8,071.1	8,008.0	24.9	28.8	-89.71	842.8	-75.7	332.8	302.5	30.31	10.982	
8,200.0	8,108.2	8,171.1	8,108.0	25.0	28.8	-89.71	842.8	-75.7	332.8	302.4	30.46	10.927	
8,300.0	8,208.2	8,271.1	8,208.0	25.0	28.9	-89.71	842.8	-75.7	332.8	302.2	30.61	10.873	
8,400.0	8,308.2	8,371.1	8,308.0	25.1	28.9	-89.71	842.8	-75.7	332.8	302.1	30.76	10.819	
8,500.0	8,408.2	8,471.1	8,408.0	25.1	29.0	-89.71	842.8	-75.7	332.8	301.9	30.92	10.766	
8,600.0	8,508.2	8,571.1	8,508.0	25.2	29.0	-89.71	842.8	-75.7	332.8	301.8	31.07	10.714	
8,700.0	8,608.2	8,671.1	8,608.0	25.2	29.1	-89.71	842.8	-75.7	332.8	301.6	31.22	10.662	
8,800.0	8,708.2	8,771.1	8,708.0	25.3	29.1	-89.71	842.8	-75.7	332.8	301.5	31.37	10.610	
8,900.0	8,808.2	8,871.1	8,808.0	25.3	29.2	-89.71	842.8	-75.7	332.8	301.3	31.52	10.559	
9,000.0	8,908.2	8,971.1	8,908.0	25.4	29.3	-89.71	842.8	-75.7	332.8	301.2	31.68	10.508	
9,100.0	9,008.2	9,071.1	9,008.0	25.4	29.3	-89.71	842.8	-75.7	332.8	301.0	31.83	10.458	
9,200.0	9,108.2	9,171.1	9,108.0	25.5	29.4	-89.71	842.8	-75.7	332.8	300.9	31.98	10.408	
9,300.0	9,208.2	9,271.1	9,208.0	25.5	29.4	-89.71	842.8	-75.7	332.8	300.7	32.13	10.359	
9,400.0	9,308.2	9,371.1	9,308.0	25.6	29.5	-89.71	842.8	-75.7	332.8	300.6	32.28	10.310	
9,500.0	9,408.2	9,471.1	9,408.0	25.6	29.5	-89.71	842.8	-75.7	332.8	300.4	32.44	10.261	
9,600.0	9,508.2	9,571.1	9,508.0	25.7	29.6	-89.71	842.8	-75.7	332.8	300.3	32.59	10.213	
9,700.0	9,608.2	9,671.1	9,608.0	25.7	29.6	-89.71	842.8	-75.7	332.8	300.1	32.74	10.166	
9,800.0	9,708.2	9,771.1	9,708.0	25.8	29.7	-89.71	842.8	-75.7	332.8	300.0	32.89	10.118	
9,900.0	9,808.2	9,871.1	9,808.0	25.8	29.7	-89.71	842.8	-75.7	332.8	299.8	33.05	10.072	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.0	9,908.2	9,971.1	9,908.0	25.9	29.8	-89.71	842.8	-75.7	332.8	299.6	33.20	10.025	
10,100.0	10,008.2	10,071.1	10,008.0	25.9	29.8	-89.71	842.8	-75.7	332.8	299.5	33.35	9.979	
10,200.0	10,108.2	10,171.1	10,108.0	26.0	29.9	-89.71	842.8	-75.7	332.8	299.3	33.51	9.934	
10,300.0	10,208.2	10,271.1	10,208.0	26.1	29.9	-89.71	842.8	-75.7	332.8	299.2	33.66	9.888	
10,400.0	10,308.2	10,371.1	10,308.0	26.1	30.0	-89.71	842.8	-75.7	332.8	299.0	33.81	9.844	
10,500.0	10,408.2	10,471.1	10,408.0	26.2	30.1	-89.71	842.8	-75.7	332.8	298.9	33.97	9.799	
10,600.0	10,508.2	10,571.1	10,508.0	26.2	30.1	-89.71	842.8	-75.7	332.8	298.7	34.12	9.755	
10,700.0	10,608.2	10,671.1	10,608.0	26.3	30.2	-89.71	842.8	-75.7	332.8	298.6	34.27	9.712	
10,800.0	10,708.2	10,771.1	10,708.0	26.3	30.2	-89.71	842.8	-75.7	332.8	298.4	34.43	9.668	
10,900.0	10,808.2	10,871.1	10,808.0	26.4	30.3	-89.71	842.8	-75.7	332.8	298.3	34.58	9.625	
11,000.0	10,908.2	10,971.1	10,908.0	26.4	30.3	-89.71	842.8	-75.7	332.8	298.1	34.73	9.583	
11,100.0	11,008.2	11,071.1	11,008.0	26.5	30.4	-89.71	842.8	-75.7	332.8	298.0	34.89	9.540	
11,200.0	11,108.2	11,171.1	11,108.0	26.5	30.4	-89.71	842.8	-75.7	332.8	297.8	35.04	9.499	
11,300.0	11,208.2	11,271.1	11,208.0	26.6	30.5	-89.71	842.8	-75.7	332.8	297.7	35.20	9.457	
11,400.0	11,308.2	11,371.1	11,308.0	26.6	30.5	-89.71	842.8	-75.7	332.8	297.5	35.35	9.416	
11,500.0	11,408.2	11,471.1	11,408.0	26.7	30.6	-89.71	842.8	-75.7	332.8	297.3	35.50	9.375	
11,600.0	11,508.2	11,571.1	11,508.0	26.8	30.7	-89.71	842.8	-75.7	332.8	297.2	35.66	9.335	
11,700.0	11,608.2	11,671.1	11,608.0	26.8	30.7	-89.71	842.8	-75.7	332.8	297.0	35.81	9.294	
11,794.9	11,703.1	11,766.2	11,702.9	26.9	30.6	-90.37	839.0	-75.7	332.8	296.9	35.97	9.252	
11,800.0	11,708.2	11,771.2	11,707.9	26.9	30.6	-90.48	838.3	-75.7	332.8	296.8	35.98	9.249	
11,900.0	11,808.2	11,866.1	11,800.0	26.9	30.2	-94.30	816.1	-75.5	333.7	297.3	36.44	9.158	
12,000.0	11,908.2	11,950.0	11,876.3	27.0	29.8	-100.14	781.7	-75.3	339.2	301.7	37.50	9.045	
12,014.3	11,922.5	11,960.4	11,885.4	27.0	29.8	-101.00	776.5	-75.3	340.7	303.0	37.70	9.037	
12,025.0	11,933.2	11,968.4	11,892.2	27.0	29.7	86.68	772.4	-75.3	341.9	304.0	37.85	9.032	
12,050.0	11,958.2	11,986.8	11,907.7	26.9	29.7	84.79	762.4	-75.2	345.1	306.9	38.19	9.036	
12,075.0	11,983.0	12,004.9	11,922.6	26.8	29.6	82.92	752.1	-75.1	348.8	310.3	38.52	9.055	
12,100.0	12,007.7	12,025.0	11,938.6	26.8	29.5	80.92	740.0	-75.1	353.0	314.2	38.86	9.084	
12,125.0	12,032.2	12,040.6	11,950.6	26.7	29.4	79.27	730.1	-75.0	357.6	318.5	39.12	9.142	
12,150.0	12,056.4	12,058.1	11,963.8	26.6	29.4	77.51	718.6	-74.9	362.5	323.2	39.38	9.206	
12,175.0	12,080.2	12,075.0	11,976.1	26.5	29.3	75.83	707.0	-74.9	367.8	328.2	39.62	9.283	
12,200.0	12,103.6	12,092.6	11,988.5	26.4	29.2	74.15	694.5	-74.8	373.2	333.4	39.84	9.368	
12,225.0	12,126.4	12,109.6	11,999.9	26.3	29.2	72.55	681.9	-74.7	378.9	338.9	40.04	9.464	
12,250.0	12,148.7	12,125.0	12,010.0	26.2	29.1	71.08	670.2	-74.6	384.8	344.6	40.21	9.570	
12,275.0	12,170.4	12,143.1	12,021.3	26.1	29.0	69.55	656.1	-74.5	390.7	350.3	40.38	9.676	
12,300.0	12,191.5	12,159.7	12,031.2	26.0	29.0	68.15	642.7	-74.5	396.8	356.2	40.53	9.790	
12,325.0	12,211.7	12,175.0	12,039.8	26.0	28.9	66.87	630.1	-74.4	402.8	362.2	40.66	9.907	
12,350.0	12,231.2	12,192.6	12,049.3	25.9	28.9	65.57	615.3	-74.3	408.9	368.1	40.80	10.023	
12,375.0	12,249.9	12,208.9	12,057.6	25.8	28.8	64.39	601.3	-74.2	414.9	374.0	40.92	10.141	
12,400.0	12,267.6	12,225.0	12,065.4	25.7	28.8	63.28	587.2	-74.1	420.9	379.9	41.04	10.257	
12,425.0	12,284.4	12,241.2	12,072.6	25.6	28.8	62.24	572.7	-74.0	426.8	385.7	41.15	10.372	
12,450.0	12,300.2	12,257.2	12,079.3	25.6	28.7	61.27	558.2	-73.9	432.6	391.3	41.26	10.484	
12,475.0	12,315.0	12,275.0	12,086.2	25.5	28.7	60.35	541.7	-73.8	438.3	396.9	41.37	10.594	
12,500.0	12,328.7	12,289.1	12,091.2	25.4	28.7	59.55	528.6	-73.8	443.7	402.3	41.48	10.697	
12,525.0	12,341.3	12,304.9	12,096.4	25.4	28.6	58.79	513.6	-73.7	449.1	407.5	41.59	10.797	
12,550.0	12,352.7	12,325.0	12,102.2	25.3	28.6	58.07	494.4	-73.6	454.2	412.6	41.68	10.899	
12,575.0	12,362.9	12,336.5	12,105.2	25.3	28.6	57.48	483.3	-73.5	459.1	417.3	41.81	10.981	
12,600.0	12,372.0	12,350.0	12,108.4	25.3	28.6	56.93	470.2	-73.4	463.8	421.9	41.93	11.061	
12,625.0	12,379.8	12,367.9	12,112.0	25.2	28.5	56.43	452.6	-73.3	468.3	426.3	42.02	11.144	
12,650.0	12,386.4	12,383.6	12,114.6	25.2	28.5	56.00	437.2	-73.2	472.5	430.4	42.12	11.218	
12,675.0	12,391.7	12,400.0	12,116.8	25.2	28.5	55.63	420.9	-73.1	476.5	434.3	42.21	11.288	
12,700.0	12,395.7	12,414.8	12,118.3	25.2	28.5	55.32	406.1	-73.0	480.2	437.9	42.31	11.349	
12,725.0	12,398.4	12,430.4	12,119.3	25.2	28.5	55.07	390.6	-72.9	483.7	441.3	42.40	11.408	

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

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Reference Well:	HARRIER FEDERAL COM 703H	**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

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,750.0	12,399.8	12,450.0	12,120.0	25.2	28.5	54.91	371.0	-72.8	486.9	444.4	42.44	11.472	
12,764.3	12,400.0	12,455.7	12,120.0	25.2	28.5	54.80	365.4	-72.8	488.6	446.1	42.51	11.493	
12,800.0	12,400.0	12,489.9	12,120.0	25.2	28.5	55.16	331.1	-72.6	492.5	450.0	42.50	11.588	
12,900.0	12,400.0	12,589.3	12,120.0	25.3	28.5	55.99	231.7	-72.0	501.8	459.2	42.61	11.778	
13,000.0	12,400.0	12,689.0	12,120.0	25.3	28.5	56.55	132.0	-71.3	508.2	465.4	42.86	11.859	
13,100.0	12,400.0	12,788.9	12,120.0	25.4	28.5	56.85	32.1	-70.7	511.8	468.5	43.25	11.834	
13,171.6	12,400.0	12,860.5	12,120.0	25.4	28.5	56.91	-39.5	-70.3	512.5	468.9	43.60	11.756	
13,200.0	12,400.0	12,888.9	12,120.0	25.5	28.5	56.91	-67.9	-70.1	512.5	468.8	43.75	11.716	
13,300.0	12,400.0	12,988.9	12,120.0	25.5	28.5	56.91	-167.9	-69.5	512.6	468.2	44.34	11.561	
13,400.0	12,400.0	13,088.9	12,120.0	25.6	28.5	56.91	-267.8	-68.9	512.6	467.6	44.99	11.393	
13,500.0	12,400.0	13,188.9	12,120.0	25.7	28.5	56.91	-367.8	-68.3	512.6	466.9	45.70	11.215	
13,600.0	12,400.0	13,288.9	12,120.0	25.9	28.5	56.92	-467.8	-67.7	512.6	466.1	46.48	11.028	
13,700.0	12,400.0	13,388.9	12,120.0	26.0	28.6	56.92	-567.8	-67.1	512.6	465.3	47.31	10.835	
13,800.0	12,400.0	13,488.9	12,120.0	26.2	28.6	56.92	-667.8	-66.4	512.6	464.4	48.19	10.636	
13,900.0	12,400.0	13,588.9	12,120.0	26.4	28.6	56.92	-767.8	-65.8	512.6	463.5	49.13	10.433	
14,000.0	12,400.0	13,688.9	12,120.0	26.6	28.6	56.92	-867.8	-65.2	512.6	462.5	50.11	10.228	
14,100.0	12,400.0	13,788.9	12,120.0	26.9	28.6	56.92	-967.8	-64.6	512.6	461.5	51.14	10.023	
14,200.0	12,400.0	13,888.9	12,120.0	27.2	28.7	56.92	-1,067.8	-64.0	512.6	460.4	52.21	9.817	
14,300.0	12,400.0	13,988.9	12,120.0	27.6	28.7	56.92	-1,167.8	-63.4	512.6	459.3	53.32	9.613	
14,400.0	12,400.0	14,088.9	12,120.0	28.0	28.7	56.92	-1,267.8	-62.8	512.6	458.1	54.47	9.410	
14,500.0	12,400.0	14,188.9	12,120.0	28.5	28.8	56.92	-1,367.8	-62.2	512.6	457.0	55.66	9.210	
14,600.0	12,400.0	14,288.9	12,120.0	29.0	28.8	56.92	-1,467.8	-61.6	512.6	455.7	56.87	9.014	
14,700.0	12,400.0	14,388.9	12,120.0	29.5	28.9	56.92	-1,567.8	-60.9	512.6	454.5	58.12	8.820	
14,800.0	12,400.0	14,488.9	12,120.0	30.1	28.9	56.92	-1,667.8	-60.3	512.6	453.2	59.39	8.631	
14,900.0	12,400.0	14,588.9	12,120.0	30.7	29.2	56.92	-1,767.8	-59.7	512.6	451.9	60.70	8.446	
15,000.0	12,400.0	14,688.9	12,120.0	31.4	29.7	56.92	-1,867.8	-59.1	512.6	450.6	62.03	8.265	
15,100.0	12,400.0	14,788.9	12,120.0	32.1	30.5	56.92	-1,967.8	-58.5	512.6	449.3	63.38	8.089	
15,200.0	12,400.0	14,888.9	12,120.0	32.8	31.2	56.92	-2,067.8	-57.9	512.6	447.9	64.75	7.917	
15,300.0	12,400.0	14,988.9	12,120.0	33.5	32.0	56.92	-2,167.8	-57.3	512.7	446.5	66.14	7.751	
15,400.0	12,400.0	15,088.9	12,120.0	34.2	32.8	56.92	-2,267.8	-56.7	512.7	445.1	67.56	7.588	
15,500.0	12,400.0	15,188.9	12,120.0	35.0	33.7	56.92	-2,367.8	-56.0	512.7	443.7	68.99	7.431	
15,600.0	12,400.0	15,288.9	12,120.0	35.8	34.5	56.92	-2,467.8	-55.4	512.7	442.2	70.44	7.278	
15,700.0	12,400.0	15,388.9	12,120.0	36.6	35.3	56.92	-2,567.8	-54.8	512.7	440.8	71.90	7.130	
15,800.0	12,400.0	15,488.9	12,120.0	37.3	36.2	56.92	-2,667.8	-54.2	512.7	439.3	73.39	6.986	
15,900.0	12,400.0	15,588.9	12,120.0	38.2	37.0	56.92	-2,767.8	-53.6	512.7	437.8	74.88	6.847	
16,000.0	12,400.0	15,688.9	12,120.0	39.0	37.9	56.92	-2,867.8	-53.0	512.7	436.3	76.39	6.712	
16,100.0	12,400.0	15,788.9	12,120.0	39.8	38.7	56.92	-2,967.8	-52.4	512.7	434.8	77.91	6.581	
16,200.0	12,400.0	15,888.9	12,120.0	40.6	39.6	56.92	-3,067.8	-51.8	512.7	433.3	79.44	6.454	
16,300.0	12,400.0	15,988.9	12,120.0	41.5	40.5	56.93	-3,167.8	-51.2	512.7	431.7	80.98	6.331	
16,400.0	12,400.0	16,088.9	12,120.0	42.3	41.4	56.93	-3,267.8	-50.5	512.7	430.2	82.54	6.212	
16,500.0	12,400.0	16,188.9	12,120.0	43.2	42.2	56.93	-3,367.8	-49.9	512.7	428.6	84.10	6.096	
16,600.0	12,400.0	16,288.9	12,120.0	44.0	43.1	56.93	-3,467.8	-49.3	512.7	427.0	85.68	5.984	
16,700.0	12,400.0	16,388.9	12,120.0	44.9	44.0	56.93	-3,567.8	-48.7	512.7	425.5	87.26	5.876	
16,800.0	12,400.0	16,488.9	12,120.0	45.7	44.9	56.93	-3,667.8	-48.1	512.7	423.9	88.85	5.771	
16,900.0	12,400.0	16,588.9	12,120.0	46.6	45.8	56.93	-3,767.8	-47.5	512.7	422.3	90.45	5.669	
17,000.0	12,400.0	16,688.9	12,120.0	47.5	46.7	56.93	-3,867.8	-46.9	512.7	420.7	92.06	5.570	
17,100.0	12,400.0	16,788.9	12,120.0	48.4	47.6	56.93	-3,967.8	-46.3	512.7	419.1	93.67	5.474	
17,200.0	12,400.0	16,888.9	12,120.0	49.2	48.5	56.93	-4,067.8	-45.6	512.7	417.5	95.29	5.381	
17,300.0	12,400.0	16,988.9	12,120.0	50.1	49.4	56.93	-4,167.8	-45.0	512.8	415.8	96.92	5.291	
17,400.0	12,400.0	17,088.9	12,120.0	51.0	50.3	56.93	-4,267.8	-44.4	512.8	414.2	98.55	5.203	
17,500.0	12,400.0	17,188.9	12,120.0	51.9	51.2	56.93	-4,367.8	-43.8	512.8	412.6	100.19	5.118	
17,600.0	12,400.0	17,288.9	12,120.0	52.8	52.1	56.93	-4,467.8	-43.2	512.8	410.9	101.83	5.035	

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

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Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
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Reference Design:	PWP0	**Offset TVD Reference:**	Offset Datum

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Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,700.0	12,400.0	17,388.9	12,120.0	53.7	53.0	56.93	-4,567.8	-42.6	512.8	409.3	103.48	4.955	
17,800.0	12,400.0	17,488.9	12,120.0	54.6	53.9	56.93	-4,667.8	-42.0	512.8	407.6	105.14	4.877	
17,900.0	12,400.0	17,588.9	12,120.0	55.5	54.8	56.93	-4,767.8	-41.4	512.8	406.0	106.80	4.801	
18,000.0	12,400.0	17,688.9	12,120.0	56.4	55.8	56.93	-4,867.8	-40.8	512.8	404.3	108.46	4.728	
18,100.0	12,400.0	17,788.9	12,120.0	57.3	56.7	56.93	-4,967.8	-40.1	512.8	402.7	110.13	4.656	
18,200.0	12,400.0	17,888.9	12,120.0	58.2	57.6	56.93	-5,067.8	-39.5	512.8	401.0	111.80	4.587	
18,300.0	12,400.0	17,988.9	12,120.0	59.1	58.5	56.93	-5,167.8	-38.9	512.8	399.3	113.48	4.519	
18,400.0	12,400.0	18,088.9	12,120.0	60.0	59.4	56.93	-5,267.8	-38.3	512.8	397.6	115.16	4.453	
18,500.0	12,400.0	18,188.9	12,120.0	61.0	60.4	56.93	-5,367.8	-37.7	512.8	396.0	116.84	4.389	
18,600.0	12,400.0	18,288.9	12,120.0	61.9	61.3	56.93	-5,467.8	-37.1	512.8	394.3	118.53	4.326	
18,700.0	12,400.0	18,388.9	12,120.0	62.8	62.2	56.93	-5,567.8	-36.5	512.8	392.6	120.22	4.266	
18,800.0	12,400.0	18,488.9	12,120.0	63.7	63.1	56.93	-5,667.7	-35.9	512.8	390.9	121.92	4.206	
18,900.0	12,400.0	18,588.9	12,120.0	64.6	64.1	56.93	-5,767.7	-35.2	512.8	389.2	123.62	4.149	
19,000.0	12,400.0	18,688.9	12,120.0	65.6	65.0	56.93	-5,867.7	-34.6	512.8	387.5	125.32	4.092	
19,100.0	12,400.0	18,788.9	12,120.0	66.5	65.9	56.94	-5,967.7	-34.0	512.8	385.8	127.02	4.038	
19,200.0	12,400.0	18,888.9	12,120.0	67.4	66.9	56.94	-6,067.7	-33.4	512.8	384.1	128.72	3.984	
19,300.0	12,400.0	18,988.9	12,120.0	68.3	67.8	56.94	-6,167.7	-32.8	512.9	382.4	130.43	3.932	
19,400.0	12,400.0	19,088.9	12,120.0	69.3	68.7	56.94	-6,267.7	-32.2	512.9	380.7	132.14	3.881	
19,500.0	12,400.0	19,188.9	12,120.0	70.2	69.7	56.94	-6,367.7	-31.6	512.9	379.0	133.86	3.831	
19,600.0	12,400.0	19,288.9	12,120.0	71.1	70.6	56.94	-6,467.7	-31.0	512.9	377.3	135.57	3.783	
19,700.0	12,400.0	19,388.9	12,120.0	72.0	71.5	56.94	-6,567.7	-30.4	512.9	375.6	137.29	3.736	
19,800.0	12,400.0	19,488.9	12,120.0	73.0	72.5	56.94	-6,667.7	-29.7	512.9	373.9	139.01	3.689	
19,900.0	12,400.0	19,588.9	12,120.0	73.9	73.4	56.94	-6,767.7	-29.1	512.9	372.1	140.73	3.644	
20,000.0	12,400.0	19,688.9	12,120.0	74.8	74.3	56.94	-6,867.7	-28.5	512.9	370.4	142.46	3.600	
20,100.0	12,400.0	19,788.9	12,120.0	75.8	75.3	56.94	-6,967.7	-27.9	512.9	368.7	144.18	3.557	
20,200.0	12,400.0	19,888.9	12,120.0	76.7	76.2	56.94	-7,067.7	-27.3	512.9	367.0	145.91	3.515	
20,300.0	12,400.0	19,988.9	12,120.0	77.6	77.2	56.94	-7,167.7	-26.7	512.9	365.3	147.64	3.474	
20,400.0	12,400.0	20,088.9	12,120.0	78.6	78.1	56.94	-7,267.7	-26.1	512.9	363.5	149.37	3.434	
20,500.0	12,400.0	20,188.9	12,120.0	79.5	79.0	56.94	-7,367.7	-25.5	512.9	361.8	151.11	3.394	
20,600.0	12,400.0	20,288.9	12,120.0	80.4	80.0	56.94	-7,467.7	-24.8	512.9	360.1	152.84	3.356	
20,700.0	12,400.0	20,388.9	12,120.0	81.4	80.9	56.94	-7,567.7	-24.2	512.9	358.3	154.58	3.318	
20,800.0	12,400.0	20,488.9	12,120.0	82.3	81.9	56.94	-7,667.7	-23.6	512.9	356.6	156.32	3.281	
20,900.0	12,400.0	20,588.9	12,120.0	83.2	82.8	56.94	-7,767.7	-23.0	512.9	354.9	158.05	3.245	
21,000.0	12,400.0	20,688.9	12,120.0	84.2	83.8	56.94	-7,867.7	-22.4	512.9	353.1	159.80	3.210	
21,100.0	12,400.0	20,788.9	12,120.0	85.1	84.7	56.94	-7,967.7	-21.8	512.9	351.4	161.54	3.175	
21,200.0	12,400.0	20,888.9	12,120.0	86.1	85.6	56.94	-8,067.7	-21.2	512.9	349.7	163.28	3.141	
21,300.0	12,400.0	20,988.9	12,120.0	87.0	86.6	56.94	-8,167.7	-20.6	513.0	347.9	165.03	3.108	
21,400.0	12,400.0	21,088.9	12,120.0	87.9	87.5	56.94	-8,267.7	-20.0	513.0	346.2	166.77	3.076	
21,500.0	12,400.0	21,188.9	12,120.0	88.9	88.5	56.94	-8,367.7	-19.3	513.0	344.4	168.52	3.044	
21,600.0	12,400.0	21,288.9	12,120.0	89.8	89.4	56.94	-8,467.7	-18.7	513.0	342.7	170.27	3.013	
21,700.0	12,400.0	21,388.9	12,120.0	90.8	90.4	56.94	-8,567.7	-18.1	513.0	341.0	172.02	2.982	Normal Operations
21,800.0	12,400.0	21,488.9	12,120.0	91.7	91.3	56.95	-8,667.7	-17.5	513.0	339.2	173.77	2.952	Normal Operations
21,900.0	12,400.0	21,588.9	12,120.0	92.7	92.3	56.95	-8,767.7	-16.9	513.0	337.5	175.52	2.923	Normal Operations
22,000.0	12,400.0	21,688.9	12,120.0	93.6	93.2	56.95	-8,867.7	-16.3	513.0	335.7	177.27	2.894	Normal Operations
22,100.0	12,400.0	21,788.9	12,120.0	94.5	94.2	56.95	-8,967.7	-15.7	513.0	334.0	179.03	2.865	Normal Operations
22,200.0	12,400.0	21,888.9	12,120.0	95.5	95.1	56.95	-9,067.7	-15.1	513.0	332.2	180.78	2.838	Normal Operations
22,300.0	12,400.0	21,988.9	12,120.0	96.4	96.1	56.95	-9,167.7	-14.4	513.0	330.5	182.54	2.810	Normal Operations
22,400.0	12,400.0	22,088.9	12,120.0	97.4	97.0	56.95	-9,267.7	-13.8	513.0	328.7	184.29	2.784	Normal Operations
22,500.0	12,400.0	22,188.9	12,120.0	98.3	98.0	56.95	-9,367.7	-13.2	513.0	327.0	186.05	2.757	Normal Operations
22,600.0	12,400.0	22,288.9	12,120.0	99.3	98.9	56.95	-9,467.7	-12.6	513.0	325.2	187.81	2.732	Normal Operations
22,700.0	12,400.0	22,388.9	12,120.0	100.2	99.9	56.95	-9,567.7	-12.0	513.0	323.5	189.57	2.706	Normal Operations
22,800.0	12,400.0	22,488.9	12,120.0	101.2	100.8	56.95	-9,667.7	-11.4	513.0	321.7	191.33	2.681	Normal Operations

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
22,830.4	12,400.0	22,519.3	12,120.0	101.5	101.1	56.95	-9,698.0	-11.2	513.0	321.2	191.86	2.674	Normal Operations

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.3	0.3	3.0	3.0	-33.87	44.7	-30.0	53.8				
100.0	100.0	100.3	100.3	3.1	3.1	-33.87	44.7	-30.0	53.8	47.2	6.62	8.133	
200.0	200.0	200.3	200.3	3.3	3.3	-33.87	44.7	-30.0	53.8	46.8	7.07	7.612	
300.0	300.0	300.3	300.3	3.5	3.5	-33.87	44.7	-30.0	53.8	46.3	7.50	7.178	
400.0	400.0	400.3	400.3	3.7	3.7	-33.87	44.7	-30.0	53.8	45.9	7.91	6.810	
500.0	500.0	500.3	500.3	3.9	3.9	-33.87	44.7	-30.0	53.8	45.5	8.29	6.491	
600.0	600.0	600.3	600.3	4.1	4.1	-33.87	44.7	-30.0	53.8	45.2	8.67	6.212	
700.0	700.0	700.3	700.3	4.3	4.3	-33.87	44.7	-30.0	53.8	44.8	9.03	5.964	
800.0	800.0	800.3	800.3	4.5	4.5	-33.87	44.7	-30.0	53.8	44.5	9.37	5.743	
900.0	900.0	900.3	900.3	4.7	4.7	-33.87	44.7	-30.0	53.8	44.1	9.71	5.543	
966.6	966.6	966.9	966.9	4.8	4.8	-33.87	44.7	-30.0	53.8	43.9	9.93	5.422 CC	
1,000.0	1,000.0	1,000.0	1,000.0	4.8	4.8	-33.87	44.7	-30.0	53.8	43.8	10.04	5.362 ES	
1,100.0	1,100.0	1,098.4	1,098.4	5.0	5.1	-33.96	46.0	-31.0	55.6	45.1	10.45	5.317	
1,200.0	1,200.0	1,196.3	1,196.1	5.2	5.3	-34.21	50.1	-34.0	60.7	49.8	10.85	5.593	
1,300.0	1,300.0	1,293.7	1,293.2	5.3	5.6	-34.55	56.7	-39.1	69.2	58.0	11.25	6.152	
1,400.0	1,400.0	1,390.5	1,389.3	5.5	5.9	-34.90	65.9	-46.0	81.1	69.5	11.66	6.959	
1,500.0	1,500.0	1,486.4	1,484.0	5.6	6.2	-35.23	77.6	-54.8	96.4	84.3	12.07	7.983	
1,600.0	1,600.0	1,584.5	1,580.7	5.8	6.5	-52.95	91.2	-65.0	112.7	100.1	12.51	9.007	
1,700.0	1,699.8	1,683.4	1,678.1	6.1	6.7	-54.73	104.9	-75.4	127.0	114.0	12.96	9.801	
1,800.0	1,799.5	1,782.4	1,775.6	6.3	7.0	-57.32	118.6	-85.7	139.5	126.1	13.41	10.402	
1,900.0	1,898.7	1,881.4	1,873.1	6.6	7.3	-60.61	132.4	-96.0	150.7	136.8	13.87	10.860	
2,000.0	1,997.5	1,980.2	1,970.4	6.9	7.7	-64.53	146.1	-106.4	160.8	146.4	14.32	11.227	
2,100.0	2,095.6	2,078.9	2,067.5	7.2	8.0	-69.01	159.7	-116.7	170.3	155.6	14.73	11.558	
2,150.0	2,144.4	2,128.0	2,116.0	7.3	8.2	-71.45	166.6	-121.8	175.0	160.2	14.89	11.753	
2,200.0	2,193.2	2,177.2	2,164.3	7.4	8.3	-73.98	173.4	-127.0	180.0	165.0	15.05	11.961	
2,300.0	2,290.6	2,275.4	2,261.1	7.7	8.7	-78.62	187.0	-137.2	190.9	175.5	15.40	12.392	
2,400.0	2,388.0	2,373.7	2,357.9	8.0	9.1	-82.74	200.6	-147.5	202.9	187.2	15.75	12.882	
2,500.0	2,485.5	2,471.9	2,454.6	8.3	9.4	-86.40	214.2	-157.8	215.9	199.8	16.09	13.413	
2,600.0	2,582.9	2,570.2	2,551.4	8.7	9.8	-89.64	227.9	-168.0	229.6	213.2	16.44	13.970	
2,700.0	2,680.3	2,668.4	2,648.1	9.0	10.2	-92.51	241.5	-178.3	244.0	227.2	16.78	14.541	
2,800.0	2,777.8	2,766.7	2,744.9	9.4	10.6	-95.05	255.1	-188.6	258.9	241.8	17.13	15.115	
2,900.0	2,875.2	2,864.9	2,841.7	9.8	11.0	-97.32	268.8	-198.8	274.3	256.8	17.48	15.687	
3,000.0	2,972.7	2,963.2	2,938.4	10.2	11.3	-99.35	282.4	-209.1	290.0	272.2	17.85	16.250	
3,100.0	3,070.1	3,061.4	3,035.2	10.5	11.7	-101.17	296.0	-219.4	306.1	287.9	18.22	16.801	
3,200.0	3,167.5	3,159.7	3,131.9	10.9	12.1	-102.81	309.6	-229.6	322.5	303.9	18.60	17.337	
3,300.0	3,265.0	3,257.9	3,228.7	11.3	12.6	-104.29	323.3	-239.9	339.0	320.0	18.99	17.856	
3,400.0	3,362.4	3,356.2	3,325.5	11.8	13.0	-105.63	336.9	-250.2	355.8	336.4	19.38	18.357	
3,500.0	3,459.8	3,454.5	3,422.2	12.2	13.4	-106.86	350.5	-260.4	372.8	353.0	19.79	18.839	
3,600.0	3,557.3	3,552.7	3,519.0	12.6	13.8	-107.97	364.1	-270.7	389.9	369.7	20.20	19.302	
3,700.0	3,654.7	3,651.0	3,615.7	13.0	14.2	-108.99	377.8	-281.0	407.1	386.5	20.62	19.746	
3,800.0	3,752.1	3,749.2	3,712.5	13.4	14.6	-109.93	391.4	-291.2	424.5	403.4	21.04	20.171	
3,900.0	3,849.6	3,847.5	3,809.3	13.9	15.0	-110.80	405.0	-301.5	441.9	420.4	21.48	20.578	
4,000.0	3,947.0	3,945.7	3,906.0	14.3	15.5	-111.60	418.6	-311.8	459.5	437.6	21.91	20.967	
4,100.0	4,044.5	4,044.0	4,002.8	14.8	15.9	-112.34	432.3	-322.0	477.1	454.7	22.36	21.338	
4,200.0	4,141.9	4,142.2	4,099.5	15.2	16.3	-113.03	445.9	-332.3	494.8	472.0	22.81	21.693	
4,300.0	4,239.3	4,240.5	4,196.3	15.6	16.7	-113.67	459.5	-342.6	512.6	489.3	23.26	22.032	
4,400.0	4,336.8	4,338.7	4,293.1	16.1	17.2	-114.26	473.1	-352.9	530.4	506.7	23.72	22.356	
4,500.0	4,434.2	4,437.0	4,389.8	16.5	17.6	-114.82	486.8	-363.1	548.3	524.1	24.19	22.666	
4,600.0	4,531.6	4,535.2	4,486.6	17.0	18.0	-115.35	500.4	-373.4	566.2	541.5	24.66	22.962	
4,700.0	4,629.1	4,633.5	4,583.3	17.4	18.4	-115.84	514.0	-383.7	584.2	559.0	25.13	23.244	
4,800.0	4,726.5	4,731.7	4,680.1	17.9	18.9	-116.30	527.6	-393.9	602.2	576.5	25.61	23.514	
4,900.0	4,824.0	4,830.0	4,776.9	18.3	19.3	-116.74	541.3	-404.2	620.2	594.1	26.09	23.773	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,921.4	4,928.2	4,873.6	18.8	19.7	-117.15	554.9	-414.5	638.3	611.7	26.57	24.020	
5,080.7	5,000.0	5,007.5	4,951.7	19.2	20.1	-117.46	565.9	-422.7	652.9	625.9	26.95	24.221	
5,100.0	5,018.8	5,026.5	4,970.4	19.2	20.2	-117.57	568.5	-424.7	656.4	629.3	27.04	24.272	
5,200.0	5,116.5	5,124.9	5,067.3	19.7	20.6	-118.00	582.2	-435.0	673.9	646.4	27.54	24.473	
5,300.0	5,214.6	5,223.5	5,164.4	20.2	21.0	-118.28	595.8	-445.3	690.7	662.7	28.02	24.650	
5,400.0	5,313.0	5,322.2	5,261.6	20.6	21.5	-118.42	609.5	-455.6	706.7	678.2	28.50	24.797	
5,500.0	5,411.7	5,421.0	5,358.9	21.0	21.9	-118.43	623.2	-466.0	721.8	692.8	28.97	24.916	
5,600.0	5,510.6	5,519.9	5,456.3	21.5	22.3	-118.32	636.9	-476.3	736.1	706.7	29.44	25.008	
5,700.0	5,609.8	5,618.9	5,553.8	21.9	22.8	-118.09	650.7	-486.6	749.7	719.8	29.90	25.076	
5,800.0	5,709.2	5,717.9	5,651.3	22.3	23.2	-117.75	664.4	-497.0	762.4	732.1	30.35	25.121	
5,900.0	5,808.8	5,816.9	5,748.8	22.7	23.7	-117.31	678.1	-507.3	774.4	743.6	30.80	25.144	
6,000.0	5,908.5	5,915.9	5,846.3	23.0	24.1	-116.76	691.9	-517.7	785.7	754.5	31.25	25.146	
6,100.0	6,008.3	6,014.8	5,943.7	23.4	24.5	-116.12	705.6	-528.0	796.3	764.7	31.69	25.129	
6,200.0	6,108.2	6,113.6	6,041.0	23.7	25.0	-115.38	719.3	-538.3	806.4	774.2	32.14	25.093	
6,300.0	6,208.2	6,212.3	6,138.2	24.0	25.4	-114.54	733.0	-548.6	815.8	783.2	32.58	25.039	
6,380.7	6,288.9	6,291.8	6,216.5	24.1	25.8	-96.80	744.0	-557.0	823.1	790.2	32.92	25.002	
6,400.0	6,308.2	6,310.8	6,235.2	24.1	25.9	-96.60	746.6	-558.9	824.8	791.8	32.99	24.998	
6,500.0	6,408.2	6,409.3	6,332.2	24.1	26.3	-95.59	760.3	-569.2	833.8	800.4	33.44	24.938	
6,600.0	6,508.2	6,512.5	6,433.9	24.2	26.8	-94.56	774.4	-579.8	843.0	809.1	33.89	24.871	
6,700.0	6,608.2	6,620.1	6,540.1	24.2	27.2	-93.61	787.6	-589.8	851.4	817.0	34.39	24.757	
6,800.0	6,708.2	6,728.2	6,647.3	24.3	27.7	-92.80	799.3	-598.6	859.0	824.1	34.88	24.629	
6,900.0	6,808.2	6,836.8	6,755.2	24.3	28.1	-92.10	809.4	-606.3	865.6	830.3	35.35	24.491	
7,000.0	6,908.2	6,945.9	6,863.7	24.4	28.6	-91.53	817.9	-612.7	871.3	835.5	35.79	24.345	
7,100.0	7,008.2	7,055.3	6,972.8	24.4	29.0	-91.07	824.8	-617.9	875.9	839.7	36.20	24.194	
7,200.0	7,108.2	7,165.1	7,082.4	24.5	29.4	-90.72	830.1	-621.8	879.4	842.8	36.58	24.040	
7,300.0	7,208.2	7,275.0	7,192.2	24.5	29.7	-90.49	833.6	-624.5	881.8	844.9	36.91	23.889	
7,400.0	7,308.2	7,385.1	7,302.3	24.6	30.0	-90.36	835.5	-625.9	883.1	845.9	37.19	23.745	
7,500.0	7,408.2	7,491.3	7,408.5	24.6	30.1	-90.34	835.8	-626.2	883.3	846.0	37.33	23.664	
7,600.0	7,508.2	7,591.3	7,508.5	24.7	30.2	-90.34	835.8	-626.2	883.3	845.9	37.44	23.593	
7,700.0	7,608.2	7,691.3	7,608.5	24.7	30.2	-90.34	835.8	-626.2	883.3	845.8	37.56	23.520	
7,800.0	7,708.2	7,791.3	7,708.5	24.8	30.2	-90.34	835.8	-626.2	883.3	845.7	37.67	23.447	
7,900.0	7,808.2	7,891.3	7,808.5	24.8	30.3	-90.34	835.8	-626.2	883.3	845.5	37.79	23.375	
8,000.0	7,908.2	7,991.3	7,908.5	24.9	30.3	-90.34	835.8	-626.2	883.3	845.4	37.91	23.303	
8,100.0	8,008.2	8,091.3	8,008.5	24.9	30.4	-90.34	835.8	-626.2	883.3	845.3	38.02	23.231	
8,200.0	8,108.2	8,191.3	8,108.5	25.0	30.4	-90.34	835.8	-626.2	883.3	845.2	38.14	23.160	
8,300.0	8,208.2	8,291.3	8,208.5	25.0	30.4	-90.34	835.8	-626.2	883.3	845.1	38.26	23.088	
8,400.0	8,308.2	8,391.3	8,308.5	25.1	30.5	-90.34	835.8	-626.2	883.3	845.0	38.38	23.017	
8,500.0	8,408.2	8,491.3	8,408.5	25.1	30.5	-90.34	835.8	-626.2	883.3	844.8	38.50	22.946	
8,600.0	8,508.2	8,591.3	8,508.5	25.2	30.6	-90.34	835.8	-626.2	883.3	844.7	38.61	22.876	
8,700.0	8,608.2	8,691.3	8,608.5	25.2	30.6	-90.34	835.8	-626.2	883.3	844.6	38.73	22.805	
8,800.0	8,708.2	8,791.3	8,708.5	25.3	30.6	-90.34	835.8	-626.2	883.3	844.5	38.85	22.735	
8,900.0	8,808.2	8,891.3	8,808.5	25.3	30.7	-90.34	835.8	-626.2	883.3	844.4	38.97	22.665	
9,000.0	8,908.2	8,991.3	8,908.5	25.4	30.7	-90.34	835.8	-626.2	883.3	844.2	39.09	22.596	
9,100.0	9,008.2	9,091.3	9,008.5	25.4	30.8	-90.34	835.8	-626.2	883.3	844.1	39.21	22.527	
9,200.0	9,108.2	9,191.3	9,108.5	25.5	30.8	-90.34	835.8	-626.2	883.3	844.0	39.33	22.457	
9,300.0	9,208.2	9,291.3	9,208.5	25.5	30.8	-90.34	835.8	-626.2	883.3	843.9	39.45	22.389	
9,400.0	9,308.2	9,391.3	9,308.5	25.6	30.9	-90.34	835.8	-626.2	883.3	843.8	39.58	22.320	
9,500.0	9,408.2	9,491.3	9,408.5	25.6	30.9	-90.34	835.8	-626.2	883.3	843.6	39.70	22.252	
9,600.0	9,508.2	9,591.3	9,508.5	25.7	31.0	-90.34	835.8	-626.2	883.3	843.5	39.82	22.184	
9,700.0	9,608.2	9,691.3	9,608.5	25.7	31.0	-90.34	835.8	-626.2	883.3	843.4	39.94	22.116	
9,800.0	9,708.2	9,791.3	9,708.5	25.8	31.0	-90.34	835.8	-626.2	883.3	843.3	40.06	22.048	
9,900.0	9,808.2	9,891.3	9,808.5	25.8	31.1	-90.34	835.8	-626.2	883.3	843.1	40.19	21.981	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.0	9,908.2	9,991.3	9,908.5	25.9	31.1	-90.34	835.8	-626.2	883.3	843.0	40.31	21.914	
10,100.0	10,008.2	10,091.3	10,008.5	25.9	31.2	-90.34	835.8	-626.2	883.3	842.9	40.43	21.848	
10,200.0	10,108.2	10,191.3	10,108.5	26.0	31.2	-90.34	835.8	-626.2	883.3	842.8	40.55	21.781	
10,300.0	10,208.2	10,291.3	10,208.5	26.1	31.3	-90.34	835.8	-626.2	883.3	842.7	40.68	21.715	
10,400.0	10,308.2	10,391.3	10,308.5	26.1	31.3	-90.34	835.8	-626.2	883.3	842.5	40.80	21.649	
10,500.0	10,408.2	10,491.3	10,408.5	26.2	31.3	-90.34	835.8	-626.2	883.3	842.4	40.93	21.583	
10,600.0	10,508.2	10,591.3	10,508.5	26.2	31.4	-90.34	835.8	-626.2	883.3	842.3	41.05	21.518	
10,700.0	10,608.2	10,691.3	10,608.5	26.3	31.4	-90.34	835.8	-626.2	883.3	842.2	41.18	21.453	
10,800.0	10,708.2	10,791.3	10,708.5	26.3	31.5	-90.34	835.8	-626.2	883.3	842.0	41.30	21.388	
10,900.0	10,808.2	10,891.3	10,808.5	26.4	31.5	-90.34	835.8	-626.2	883.3	841.9	41.43	21.323	
11,000.0	10,908.2	10,991.3	10,908.5	26.4	31.6	-90.34	835.8	-626.2	883.3	841.8	41.55	21.259	
11,100.0	11,008.2	11,091.3	11,008.5	26.5	31.6	-90.34	835.8	-626.2	883.3	841.7	41.68	21.195	
11,200.0	11,108.2	11,191.3	11,108.5	26.5	31.6	-90.34	835.8	-626.2	883.3	841.5	41.80	21.131	
11,300.0	11,208.2	11,291.3	11,208.5	26.6	31.7	-90.34	835.8	-626.2	883.3	841.4	41.93	21.067	
11,400.0	11,308.2	11,391.3	11,308.5	26.6	31.7	-90.34	835.8	-626.2	883.3	841.3	42.06	21.004	
11,500.0	11,408.2	11,491.3	11,408.5	26.7	31.8	-90.34	835.8	-626.2	883.3	841.1	42.18	20.941	
11,600.0	11,508.2	11,591.3	11,508.5	26.8	31.8	-90.34	835.8	-626.2	883.3	841.0	42.31	20.878	
11,700.0	11,608.2	11,691.3	11,608.5	26.8	31.9	-90.34	835.8	-626.2	883.3	840.9	42.44	20.815	
11,800.0	11,708.2	11,791.3	11,708.5	26.9	31.9	-90.34	835.8	-626.2	883.3	840.8	42.56	20.753	
11,900.0	11,808.2	11,891.3	11,808.5	26.9	31.9	-90.34	835.8	-626.2	883.3	840.6	42.69	20.691	
12,000.0	11,908.2	11,991.3	11,908.5	27.0	32.0	-90.34	835.8	-626.2	883.3	840.5	42.82	20.628	
12,014.3	11,922.5	12,005.7	11,922.8	27.0	32.0	-90.34	835.8	-626.2	883.3	840.5	42.84	20.621	
12,014.8	11,923.0	12,006.2	11,923.3	27.0	32.0	98.16	835.8	-626.2	883.3	840.5	42.84	20.621	
12,025.0	11,933.2	12,016.4	11,933.5	27.0	32.0	98.16	835.7	-626.2	883.3	840.5	42.84	20.621	
12,050.0	11,958.2	12,041.4	11,958.5	26.9	31.9	98.13	834.5	-626.2	883.5	840.7	42.83	20.628	
12,075.0	11,983.0	12,066.4	11,983.3	26.8	31.9	98.09	831.9	-626.1	883.9	841.1	42.82	20.643	
12,100.0	12,007.7	12,091.4	12,008.0	26.8	31.8	98.02	828.1	-626.1	884.4	841.6	42.80	20.663	
12,125.0	12,032.2	12,116.4	12,032.5	26.7	31.7	97.93	823.0	-626.1	885.1	842.4	42.79	20.688	
12,150.0	12,056.4	12,141.3	12,056.7	26.6	31.6	97.82	816.6	-626.0	886.0	843.3	42.77	20.718	
12,175.0	12,080.2	12,166.3	12,080.4	26.5	31.5	97.68	809.0	-626.0	887.1	844.4	42.74	20.754	
12,200.0	12,103.6	12,191.3	12,103.7	26.4	31.4	97.53	800.1	-625.9	888.4	845.7	42.72	20.794	
12,225.0	12,126.4	12,216.2	12,126.6	26.3	31.4	97.35	790.0	-625.9	889.8	847.1	42.70	20.840	
12,250.0	12,148.7	12,241.1	12,148.8	26.2	31.3	97.15	778.8	-625.8	891.4	848.7	42.67	20.889	
12,275.0	12,170.4	12,266.0	12,170.4	26.1	31.2	96.94	766.4	-625.7	893.2	850.5	42.65	20.943	
12,300.0	12,191.5	12,290.9	12,191.4	26.0	31.1	96.70	753.0	-625.7	895.1	852.5	42.62	21.000	
12,325.0	12,211.7	12,315.8	12,211.5	26.0	31.0	96.45	738.4	-625.6	897.2	854.6	42.60	21.061	
12,350.0	12,231.2	12,340.7	12,230.9	25.9	30.9	96.17	722.9	-625.5	899.4	856.8	42.57	21.125	
12,375.0	12,249.9	12,365.5	12,249.5	25.8	30.8	95.88	706.4	-625.4	901.7	859.2	42.55	21.191	
12,400.0	12,267.6	12,390.3	12,267.1	25.7	30.8	95.58	688.9	-625.3	904.2	861.7	42.53	21.260	
12,425.0	12,284.4	12,415.1	12,283.8	25.6	30.7	95.26	670.6	-625.1	906.9	864.3	42.52	21.330	
12,450.0	12,300.2	12,439.9	12,299.5	25.6	30.6	94.92	651.4	-625.0	909.6	867.1	42.50	21.402	
12,475.0	12,315.0	12,464.7	12,314.2	25.5	30.5	94.58	631.5	-624.9	912.5	870.0	42.49	21.475	
12,500.0	12,328.7	12,489.4	12,327.8	25.4	30.5	94.22	610.8	-624.8	915.4	872.9	42.48	21.548	
12,525.0	12,341.3	12,514.2	12,340.3	25.4	30.4	93.85	589.5	-624.6	918.5	876.0	42.48	21.622	
12,550.0	12,352.7	12,538.9	12,351.8	25.3	30.4	93.47	567.5	-624.5	921.6	879.1	42.48	21.695	
12,575.0	12,362.9	12,563.6	12,362.0	25.3	30.3	93.08	545.0	-624.4	924.9	882.4	42.49	21.767	
12,600.0	12,372.0	12,588.3	12,371.1	25.3	30.3	92.68	522.1	-624.2	928.2	885.7	42.50	21.839	
12,625.0	12,379.8	12,613.0	12,378.9	25.2	30.3	92.28	498.6	-624.1	931.5	889.0	42.52	21.909	
12,650.0	12,386.4	12,637.7	12,385.6	25.2	30.2	91.87	474.8	-623.9	934.9	892.4	42.54	21.977	
12,675.0	12,391.7	12,662.4	12,391.0	25.2	30.2	91.46	450.7	-623.8	938.4	895.8	42.57	22.043	
12,700.0	12,395.7	12,687.1	12,395.1	25.2	30.2	91.05	426.4	-623.6	941.9	899.3	42.61	22.107	
12,725.0	12,398.4	12,711.8	12,398.0	25.2	30.2	90.63	401.9	-623.5	945.4	902.8	42.65	22.169	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,750.0	12,399.8	12,736.6	12,399.6	25.2	30.2	90.22	377.2	-623.3	949.0	906.3	42.69	22.227	
12,764.3	12,400.0	12,750.7	12,400.0	25.2	30.2	89.98	363.0	-623.2	951.0	908.3	42.72	22.260	
12,800.0	12,400.0	12,786.1	12,400.0	25.2	30.2	89.98	327.7	-623.0	955.8	913.0	42.80	22.330	
12,900.0	12,400.0	12,885.4	12,400.0	25.3	30.3	89.98	228.3	-622.4	967.0	923.9	43.14	22.416	
13,000.0	12,400.0	12,985.1	12,400.0	25.3	30.4	89.98	128.6	-621.8	974.8	931.2	43.56	22.379	
13,100.0	12,400.0	13,085.0	12,400.0	25.4	30.5	89.98	28.7	-621.2	979.0	935.0	44.05	22.225	
13,171.6	12,400.0	13,156.7	12,400.0	25.4	30.5	89.98	-42.9	-620.7	979.9	935.5	44.44	22.052	
13,200.0	12,400.0	13,185.0	12,400.0	25.5	30.6	89.98	-71.3	-620.6	979.9	935.3	44.59	21.975	
13,300.0	12,400.0	13,285.0	12,400.0	25.5	30.7	89.98	-171.3	-620.0	979.9	934.7	45.21	21.676	
13,400.0	12,400.0	13,385.0	12,400.0	25.6	30.8	89.98	-271.3	-619.3	979.9	934.0	45.89	21.351	
13,500.0	12,400.0	13,485.0	12,400.0	25.7	31.0	89.98	-371.3	-618.7	979.9	933.3	46.65	21.005	
13,600.0	12,400.0	13,585.0	12,400.0	25.9	31.2	89.98	-471.3	-618.1	979.9	932.4	47.47	20.642	
13,700.0	12,400.0	13,685.0	12,400.0	26.0	31.4	89.98	-571.3	-617.5	979.9	931.6	48.35	20.266	
13,800.0	12,400.0	13,785.0	12,400.0	26.2	31.6	89.98	-671.3	-616.9	979.9	930.6	49.29	19.879	
13,900.0	12,400.0	13,885.0	12,400.0	26.4	31.8	89.98	-771.3	-616.3	979.9	929.6	50.29	19.486	
14,000.0	12,400.0	13,985.0	12,400.0	26.6	32.1	89.98	-871.3	-615.6	979.9	928.6	51.34	19.088	
14,100.0	12,400.0	14,085.0	12,400.0	26.9	32.3	89.98	-971.2	-615.0	979.9	927.5	52.43	18.690	
14,200.0	12,400.0	14,185.0	12,400.0	27.2	32.7	89.98	-1,071.2	-614.4	979.9	926.3	53.57	18.292	
14,300.0	12,400.0	14,285.0	12,400.0	27.6	33.0	89.98	-1,171.2	-613.8	979.9	925.2	54.76	17.896	
14,400.0	12,400.0	14,385.0	12,400.0	28.0	33.3	89.98	-1,271.2	-613.2	979.9	923.9	55.98	17.505	
14,500.0	12,400.0	14,485.0	12,400.0	28.5	33.7	89.98	-1,371.2	-612.6	979.9	922.7	57.24	17.119	
14,600.0	12,400.0	14,585.0	12,400.0	29.0	34.1	89.98	-1,471.2	-611.9	979.9	921.4	58.54	16.740	
14,700.0	12,400.0	14,685.0	12,400.0	29.5	34.6	89.98	-1,571.2	-611.3	979.9	920.1	59.86	16.369	
14,800.0	12,400.0	14,785.0	12,400.0	30.1	35.0	89.98	-1,671.2	-610.7	979.9	918.7	61.22	16.006	
14,900.0	12,400.0	14,885.0	12,400.0	30.7	35.5	89.98	-1,771.2	-610.1	979.9	917.3	62.61	15.651	
15,000.0	12,400.0	14,985.0	12,400.0	31.4	36.0	89.98	-1,871.2	-609.5	979.9	915.9	64.03	15.305	
15,100.0	12,400.0	15,085.0	12,400.0	32.1	36.6	89.98	-1,971.2	-608.9	979.9	914.5	65.46	14.969	
15,200.0	12,400.0	15,185.0	12,400.0	32.8	37.1	89.98	-2,071.2	-608.2	979.9	913.0	66.93	14.642	
15,300.0	12,400.0	15,285.0	12,400.0	33.5	37.7	89.98	-2,171.2	-607.6	979.9	911.5	68.41	14.324	
15,400.0	12,400.0	15,385.0	12,400.0	34.2	38.3	89.98	-2,271.2	-607.0	979.9	910.0	69.92	14.016	
15,500.0	12,400.0	15,485.0	12,400.0	35.0	39.0	89.98	-2,371.2	-606.4	979.9	908.5	71.44	13.717	
15,600.0	12,400.0	15,585.0	12,400.0	35.8	39.6	89.98	-2,471.2	-605.8	979.9	907.0	72.98	13.427	
15,700.0	12,400.0	15,685.0	12,400.0	36.6	40.3	89.98	-2,571.2	-605.2	979.9	905.4	74.54	13.147	
15,800.0	12,400.0	15,785.0	12,400.0	37.3	40.9	89.98	-2,671.2	-604.5	979.9	903.8	76.11	12.875	
15,900.0	12,400.0	15,885.0	12,400.0	38.2	41.6	89.98	-2,771.2	-603.9	979.9	902.2	77.70	12.611	
16,000.0	12,400.0	15,985.0	12,400.0	39.0	42.3	89.98	-2,871.2	-603.3	979.9	900.6	79.30	12.357	
16,100.0	12,400.0	16,085.0	12,400.0	39.8	43.1	89.98	-2,971.2	-602.7	979.9	899.0	80.92	12.110	
16,200.0	12,400.0	16,185.0	12,400.0	40.6	43.8	89.98	-3,071.2	-602.1	979.9	897.4	82.55	11.871	
16,300.0	12,400.0	16,285.0	12,400.0	41.5	44.5	89.98	-3,171.2	-601.5	979.9	895.8	84.19	11.640	
16,400.0	12,400.0	16,385.0	12,400.0	42.3	45.3	89.98	-3,271.2	-600.8	979.9	894.1	85.84	11.416	
16,500.0	12,400.0	16,485.0	12,400.0	43.2	46.1	89.98	-3,371.2	-600.2	979.9	892.4	87.50	11.200	
16,600.0	12,400.0	16,585.0	12,400.0	44.0	46.8	89.98	-3,471.2	-599.6	979.9	890.8	89.17	10.990	
16,700.0	12,400.0	16,685.0	12,400.0	44.9	47.6	89.98	-3,571.2	-599.0	979.9	889.1	90.85	10.787	
16,800.0	12,400.0	16,785.0	12,400.0	45.7	48.4	89.98	-3,671.2	-598.4	979.9	887.4	92.54	10.590	
16,900.0	12,400.0	16,885.0	12,400.0	46.6	49.2	89.98	-3,771.2	-597.8	979.9	885.7	94.23	10.399	
17,000.0	12,400.0	16,985.0	12,400.0	47.5	50.0	89.98	-3,871.2	-597.1	980.0	884.0	95.94	10.215	
17,100.0	12,400.0	17,085.0	12,400.0	48.4	50.8	89.98	-3,971.2	-596.5	980.0	882.3	97.65	10.036	
17,200.0	12,400.0	17,185.0	12,400.0	49.2	51.7	89.98	-4,071.2	-595.9	980.0	880.6	99.37	9.862	
17,300.0	12,400.0	17,285.0	12,400.0	50.1	52.5	89.98	-4,171.2	-595.3	980.0	878.9	101.09	9.694	
17,400.0	12,400.0	17,385.0	12,400.0	51.0	53.3	89.98	-4,271.2	-594.7	980.0	877.1	102.82	9.531	
17,500.0	12,400.0	17,485.0	12,400.0	51.9	54.2	89.98	-4,371.2	-594.1	980.0	875.4	104.56	9.372	
17,600.0	12,400.0	17,585.0	12,400.0	52.8	55.0	89.98	-4,471.2	-593.4	980.0	873.7	106.30	9.219	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,700.0	12,400.0	17,685.0	12,400.0	53.7	55.9	89.98	-4,571.2	-592.8	980.0	871.9	108.05	9.070	
17,800.0	12,400.0	17,785.0	12,400.0	54.6	56.7	89.98	-4,671.2	-592.2	980.0	870.2	109.80	8.925	
17,900.0	12,400.0	17,885.0	12,400.0	55.5	57.6	89.98	-4,771.2	-591.6	980.0	868.4	111.56	8.784	
18,000.0	12,400.0	17,985.0	12,400.0	56.4	58.4	89.98	-4,871.2	-591.0	980.0	866.6	113.32	8.647	
18,100.0	12,400.0	18,085.0	12,400.0	57.3	59.3	89.98	-4,971.2	-590.4	980.0	864.9	115.09	8.515	
18,200.0	12,400.0	18,185.0	12,400.0	58.2	60.2	89.98	-5,071.2	-589.7	980.0	863.1	116.86	8.386	
18,300.0	12,400.0	18,285.0	12,400.0	59.1	61.0	89.98	-5,171.2	-589.1	980.0	861.3	118.64	8.260	
18,400.0	12,400.0	18,385.0	12,400.0	60.0	61.9	89.98	-5,271.2	-588.5	980.0	859.6	120.42	8.138	
18,500.0	12,400.0	18,485.0	12,400.0	61.0	62.8	89.98	-5,371.2	-587.9	980.0	857.8	122.20	8.019	
18,600.0	12,400.0	18,585.0	12,400.0	61.9	63.7	89.98	-5,471.2	-587.3	980.0	856.0	123.99	7.904	
18,700.0	12,400.0	18,685.0	12,400.0	62.8	64.5	89.98	-5,571.2	-586.7	980.0	854.2	125.78	7.791	
18,800.0	12,400.0	18,785.0	12,400.0	63.7	65.4	89.98	-5,671.2	-586.1	980.0	852.4	127.57	7.682	
18,900.0	12,400.0	18,885.0	12,400.0	64.6	66.3	89.98	-5,771.2	-585.4	980.0	850.6	129.37	7.575	
19,000.0	12,400.0	18,985.0	12,400.0	65.6	67.2	89.98	-5,871.2	-584.8	980.0	848.8	131.17	7.471	
19,100.0	12,400.0	19,085.0	12,400.0	66.5	68.1	89.98	-5,971.2	-584.2	980.0	847.0	132.97	7.370	
19,200.0	12,400.0	19,185.0	12,400.0	67.4	69.0	89.98	-6,071.2	-583.6	980.0	845.2	134.77	7.271	
19,300.0	12,400.0	19,285.0	12,400.0	68.3	69.9	89.98	-6,171.2	-583.0	980.0	843.4	136.58	7.175	
19,400.0	12,400.0	19,385.0	12,400.0	69.3	70.8	89.98	-6,271.1	-582.4	980.0	841.6	138.39	7.081	
19,500.0	12,400.0	19,485.0	12,400.0	70.2	71.7	89.98	-6,371.1	-581.7	980.0	839.8	140.20	6.990	
19,600.0	12,400.0	19,585.0	12,400.0	71.1	72.6	89.98	-6,471.1	-581.1	980.0	838.0	142.02	6.900	
19,700.0	12,400.0	19,685.0	12,400.0	72.0	73.5	89.98	-6,571.1	-580.5	980.0	836.2	143.83	6.813	
19,800.0	12,400.0	19,785.0	12,400.0	73.0	74.4	89.98	-6,671.1	-579.9	980.0	834.3	145.65	6.728	
19,900.0	12,400.0	19,885.0	12,400.0	73.9	75.3	89.98	-6,771.1	-579.3	980.0	832.5	147.48	6.645	
20,000.0	12,400.0	19,985.0	12,400.0	74.8	76.2	89.98	-6,871.1	-578.7	980.0	830.7	149.30	6.564	
20,100.0	12,400.0	20,085.0	12,400.0	75.8	77.1	89.98	-6,971.1	-578.0	980.0	828.9	151.12	6.485	
20,200.0	12,400.0	20,185.0	12,400.0	76.7	78.1	89.98	-7,071.1	-577.4	980.0	827.0	152.95	6.407	
20,300.0	12,400.0	20,285.0	12,400.0	77.6	79.0	89.98	-7,171.1	-576.8	980.0	825.2	154.78	6.332	
20,400.0	12,400.0	20,385.0	12,400.0	78.6	79.9	89.98	-7,271.1	-576.2	980.0	823.4	156.61	6.258	
20,500.0	12,400.0	20,485.0	12,400.0	79.5	80.8	89.98	-7,371.1	-575.6	980.0	821.6	158.44	6.185	
20,600.0	12,400.0	20,585.0	12,400.0	80.4	81.7	89.98	-7,471.1	-575.0	980.0	819.7	160.28	6.114	
20,700.0	12,400.0	20,685.0	12,400.0	81.4	82.6	89.98	-7,571.1	-574.3	980.0	817.9	162.11	6.045	
20,800.0	12,400.0	20,785.0	12,400.0	82.3	83.6	89.98	-7,671.1	-573.7	980.0	816.0	163.95	5.977	
20,900.0	12,400.0	20,885.0	12,400.0	83.2	84.5	89.98	-7,771.1	-573.1	980.0	814.2	165.79	5.911	
21,000.0	12,400.0	20,985.0	12,400.0	84.2	85.4	89.98	-7,871.1	-572.5	980.0	812.4	167.63	5.846	
21,100.0	12,400.0	21,085.0	12,400.0	85.1	86.3	89.98	-7,971.1	-571.9	980.0	810.5	169.47	5.783	
21,200.0	12,400.0	21,185.0	12,400.0	86.1	87.2	89.98	-8,071.1	-571.3	980.0	808.7	171.31	5.721	
21,300.0	12,400.0	21,285.0	12,400.0	87.0	88.2	89.98	-8,171.1	-570.6	980.0	806.8	173.16	5.660	
21,400.0	12,400.0	21,385.0	12,400.0	87.9	89.1	89.98	-8,271.1	-570.0	980.0	805.0	175.00	5.600	
21,500.0	12,400.0	21,485.0	12,400.0	88.9	90.0	89.98	-8,371.1	-569.4	980.0	803.2	176.85	5.542	
21,600.0	12,400.0	21,585.0	12,400.0	89.8	91.0	89.98	-8,471.1	-568.8	980.0	801.3	178.70	5.484	
21,700.0	12,400.0	21,685.0	12,400.0	90.8	91.9	89.98	-8,571.1	-568.2	980.0	799.5	180.54	5.428	
21,800.0	12,400.0	21,785.0	12,400.0	91.7	92.8	89.98	-8,671.1	-567.6	980.0	797.6	182.39	5.373	
21,900.0	12,400.0	21,885.0	12,400.0	92.7	93.7	89.98	-8,771.1	-566.9	980.0	795.8	184.24	5.319	
22,000.0	12,400.0	21,985.0	12,400.0	93.6	94.7	89.98	-8,871.1	-566.3	980.0	793.9	186.10	5.266	
22,100.0	12,400.0	22,085.0	12,400.0	94.5	95.6	89.98	-8,971.1	-565.7	980.0	792.1	187.95	5.214	
22,200.0	12,400.0	22,185.0	12,400.0	95.5	96.5	89.98	-9,071.1	-565.1	980.0	790.2	189.80	5.163	
22,300.0	12,400.0	22,285.0	12,400.0	96.4	97.5	89.98	-9,171.1	-564.5	980.0	788.4	191.66	5.113	
22,400.0	12,400.0	22,385.0	12,400.0	97.4	98.4	89.98	-9,271.1	-563.9	980.0	786.5	193.51	5.064	
22,500.0	12,400.0	22,485.0	12,400.0	98.3	99.3	89.98	-9,371.1	-563.2	980.0	784.7	195.37	5.016	
22,600.0	12,400.0	22,585.0	12,400.0	99.3	100.3	89.98	-9,471.1	-562.6	980.0	782.8	197.23	4.969	
22,700.0	12,400.0	22,685.0	12,400.0	100.2	101.2	89.98	-9,571.1	-562.0	980.0	780.9	199.09	4.923	
22,800.0	12,400.0	22,785.0	12,400.0	101.2	102.1	89.98	-9,671.1	-561.4	980.0	779.1	200.94	4.877	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
22,830.4	12,400.0	22,815.4	12,400.0	101.5	102.4	89.98	-9,701.4	-561.2	980.0	778.5	201.51	4.863 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 **Rule Assigned:** **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.3	0.3	3.0	3.0	-33.87	44.7	-30.0	53.8				
100.0	100.0	100.3	100.3	3.1	3.0	-33.87	44.7	-30.0	53.8	47.3	6.57	8.197	
200.0	200.0	200.3	200.3	3.3	3.2	-33.87	44.7	-30.0	53.8	46.9	6.92	7.781	
300.0	300.0	300.3	300.3	3.5	3.3	-33.87	44.7	-30.0	53.8	46.6	7.26	7.419	
400.0	400.0	400.3	400.3	3.7	3.4	-33.87	44.7	-30.0	53.8	46.3	7.58	7.100	
500.0	500.0	500.3	500.3	3.9	3.5	-33.87	44.7	-30.0	53.8	45.9	7.90	6.817	
600.0	600.0	600.3	600.3	4.1	3.7	-33.87	44.7	-30.0	53.8	45.6	8.20	6.562	
700.0	700.0	700.3	700.3	4.3	3.8	-33.87	44.7	-30.0	53.8	45.3	8.50	6.332	
800.0	800.0	800.3	800.3	4.5	3.9	-33.87	44.7	-30.0	53.8	45.0	8.79	6.123	
900.0	900.0	900.3	900.3	4.7	4.0	-33.87	44.7	-30.0	53.8	44.8	9.08	5.931	
966.6	966.6	966.9	966.9	4.8	4.1	-33.87	44.7	-30.0	53.8	44.6	9.26	5.812	CC
1,000.0	1,000.0	1,000.0	1,000.0	4.8	4.2	-33.87	44.7	-30.0	53.8	44.5	9.36	5.754	ES
1,100.0	1,100.0	1,098.4	1,098.4	5.0	4.3	-33.96	46.0	-31.0	55.6	45.8	9.72	5.717	SF
1,200.0	1,200.0	1,196.3	1,196.1	5.2	4.6	-34.21	50.1	-34.0	60.7	50.6	10.14	5.986	
1,300.0	1,300.0	1,293.7	1,293.2	5.3	4.9	-34.55	56.7	-39.1	69.2	58.7	10.56	6.554	
1,400.0	1,400.0	1,390.5	1,389.3	5.5	5.2	-34.90	65.9	-46.0	81.1	70.1	10.99	7.382	
1,500.0	1,500.0	1,486.4	1,484.0	5.6	5.6	-35.23	77.6	-54.8	96.4	84.9	11.43	8.434	
1,600.0	1,600.0	1,584.5	1,580.7	5.8	5.8	-52.95	91.2	-65.0	112.7	100.8	11.88	9.485	
1,700.0	1,699.8	1,683.4	1,678.1	6.1	6.1	-54.73	104.9	-75.4	127.0	114.6	12.34	10.293	
1,800.0	1,799.5	1,782.4	1,775.6	6.3	6.4	-57.32	118.6	-85.7	139.5	126.7	12.81	10.896	
1,900.0	1,898.7	1,881.4	1,873.1	6.6	6.8	-60.61	132.4	-96.0	150.7	137.4	13.28	11.350	
2,000.0	1,997.5	1,980.2	1,970.4	6.9	7.1	-64.53	146.1	-106.4	160.8	147.0	13.73	11.711	
2,100.0	2,095.6	2,078.9	2,067.5	7.2	7.5	-69.01	159.7	-116.7	170.3	156.2	14.14	12.040	
2,150.0	2,144.4	2,128.0	2,116.0	7.3	7.6	-71.45	166.6	-121.8	175.0	160.7	14.30	12.238	
2,200.0	2,193.2	2,177.2	2,164.3	7.4	7.8	-73.98	173.4	-127.0	180.0	165.5	14.46	12.452	
2,300.0	2,290.6	2,275.4	2,261.1	7.7	8.2	-78.62	187.0	-137.2	190.9	176.1	14.81	12.890	
2,400.0	2,388.0	2,373.7	2,357.9	8.0	8.6	-82.74	200.6	-147.5	202.9	187.8	15.15	13.390	
2,500.0	2,485.5	2,471.9	2,454.6	8.3	8.9	-86.40	214.2	-157.8	215.9	200.4	15.49	13.934	
2,600.0	2,582.9	2,570.2	2,551.4	8.7	9.3	-89.64	227.9	-168.0	229.6	213.8	15.83	14.505	
2,700.0	2,680.3	2,668.4	2,648.1	9.0	9.7	-92.51	241.5	-178.3	244.0	227.8	16.17	15.090	
2,800.0	2,777.8	2,766.7	2,744.9	9.4	10.1	-95.05	255.1	-188.6	258.9	242.4	16.51	15.679	
2,900.0	2,875.2	2,864.9	2,841.7	9.8	10.5	-97.32	268.8	-198.8	274.3	257.4	16.86	16.266	
3,000.0	2,972.7	2,963.2	2,938.4	10.2	10.9	-99.35	282.4	-209.1	290.0	272.8	17.22	16.844	
3,100.0	3,070.1	3,061.4	3,035.2	10.5	11.3	-101.17	296.0	-219.4	306.1	288.5	17.58	17.408	
3,200.0	3,167.5	3,159.7	3,131.9	10.9	11.8	-102.81	309.6	-229.6	322.5	304.5	17.96	17.958	
3,300.0	3,265.0	3,257.9	3,228.7	11.3	12.2	-104.29	323.3	-239.9	339.0	320.7	18.34	18.490	
3,400.0	3,362.4	3,356.2	3,325.5	11.8	12.6	-105.63	336.9	-250.2	355.8	337.1	18.72	19.003	
3,500.0	3,459.8	3,454.5	3,422.2	12.2	13.0	-106.86	350.5	-260.4	372.8	353.6	19.12	19.496	
3,600.0	3,557.3	3,552.7	3,519.0	12.6	13.4	-107.97	364.1	-270.7	389.9	370.4	19.52	19.970	
3,700.0	3,654.7	3,651.0	3,615.7	13.0	13.8	-108.99	377.8	-281.0	407.1	387.2	19.93	20.424	
3,800.0	3,752.1	3,749.2	3,712.5	13.4	14.3	-109.93	391.4	-291.2	424.5	404.1	20.35	20.858	
3,900.0	3,849.6	3,847.5	3,809.3	13.9	14.7	-110.80	405.0	-301.5	441.9	421.2	20.77	21.274	
4,000.0	3,947.0	3,945.7	3,906.0	14.3	15.1	-111.60	418.6	-311.8	459.5	438.3	21.20	21.671	
4,100.0	4,044.5	4,044.0	4,002.8	14.8	15.5	-112.34	432.3	-322.0	477.1	455.5	21.64	22.050	
4,200.0	4,141.9	4,142.2	4,099.5	15.2	16.0	-113.03	445.9	-332.3	494.8	472.7	22.08	22.413	
4,300.0	4,239.3	4,240.5	4,196.3	15.6	16.4	-113.67	459.5	-342.6	512.6	490.0	22.52	22.759	
4,400.0	4,336.8	4,338.7	4,293.1	16.1	16.8	-114.26	473.1	-352.9	530.4	507.4	22.97	23.089	
4,500.0	4,434.2	4,437.0	4,389.8	16.5	17.3	-114.82	486.8	-363.1	548.3	524.8	23.43	23.404	
4,600.0	4,531.6	4,535.2	4,486.6	17.0	17.7	-115.35	500.4	-373.4	566.2	542.3	23.88	23.706	
4,700.0	4,629.1	4,633.5	4,583.3	17.4	18.1	-115.84	514.0	-383.7	584.2	559.8	24.35	23.994	
4,800.0	4,726.5	4,731.7	4,680.1	17.9	18.6	-116.30	527.6	-393.9	602.2	577.3	24.81	24.269	
4,900.0	4,824.0	4,830.0	4,776.9	18.3	19.0	-116.74	541.3	-404.2	620.2	594.9	25.28	24.532	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 **Rule Assigned:** **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,921.4	4,928.2	4,873.6	18.8	19.4	-117.15	554.9	-414.5	638.3	612.5	25.75	24.783	
5,080.7	5,000.0	5,007.5	4,951.7	19.2	19.8	-117.46	565.9	-422.7	652.9	626.7	26.13	24.989	
5,100.0	5,018.8	5,026.5	4,970.4	19.2	19.9	-117.57	568.5	-424.7	656.4	630.1	26.21	25.042	
5,200.0	5,116.5	5,124.9	5,067.3	19.7	20.3	-118.00	582.2	-435.0	673.9	647.2	26.70	25.245	
5,300.0	5,214.6	5,223.5	5,164.4	20.2	20.8	-118.28	595.8	-445.3	690.7	663.5	27.17	25.423	
5,400.0	5,313.0	5,322.2	5,261.6	20.6	21.2	-118.42	609.5	-455.6	706.7	679.0	27.64	25.570	
5,500.0	5,411.7	5,421.0	5,358.9	21.0	21.6	-118.43	623.2	-466.0	721.8	693.7	28.10	25.688	
5,600.0	5,510.6	5,519.9	5,456.3	21.5	22.1	-118.32	636.9	-476.3	736.1	707.6	28.56	25.779	
5,700.0	5,609.8	5,618.9	5,553.8	21.9	22.5	-118.09	650.7	-486.6	749.7	720.7	29.01	25.844	
5,800.0	5,709.2	5,717.9	5,651.3	22.3	23.0	-117.75	664.4	-497.0	762.4	733.0	29.45	25.885	
5,900.0	5,808.8	5,816.9	5,748.8	22.7	23.4	-117.31	678.1	-507.3	774.4	744.5	29.90	25.903	
6,000.0	5,908.5	5,915.9	5,846.3	23.0	23.9	-116.76	691.9	-517.7	785.7	755.4	30.34	25.898	
6,100.0	6,008.3	6,014.8	5,943.7	23.4	24.3	-116.12	705.6	-528.0	796.3	765.6	30.78	25.873	
6,200.0	6,108.2	6,113.6	6,041.0	23.7	24.7	-115.38	719.3	-538.3	806.4	775.1	31.22	25.827	
6,300.0	6,208.2	6,212.3	6,138.2	24.0	25.2	-114.54	733.0	-548.6	815.8	784.2	31.67	25.763	
6,380.7	6,288.9	6,291.8	6,216.5	24.1	25.5	-96.80	744.0	-557.0	823.1	791.1	32.01	25.717	
6,400.0	6,308.2	6,310.8	6,235.2	24.1	25.6	-96.60	746.6	-558.9	824.8	792.7	32.08	25.711	
6,500.0	6,408.2	6,409.3	6,332.2	24.1	26.1	-95.59	760.3	-569.2	833.8	801.3	32.52	25.639	
6,600.0	6,508.2	6,512.5	6,433.9	24.2	26.5	-94.56	774.4	-579.8	843.0	810.0	32.98	25.560	
6,700.0	6,608.2	6,620.1	6,540.1	24.2	27.0	-93.61	787.6	-589.8	851.4	817.9	33.48	25.431	
6,800.0	6,708.2	6,728.2	6,647.3	24.3	27.4	-92.80	799.3	-598.6	859.0	825.0	33.97	25.287	
6,900.0	6,808.2	6,836.8	6,755.2	24.3	27.9	-92.10	809.4	-606.3	865.6	831.2	34.44	25.134	
7,000.0	6,908.2	6,945.9	6,863.7	24.4	28.3	-91.53	817.9	-612.7	871.3	836.4	34.89	24.973	
7,100.0	7,008.2	7,055.3	6,972.8	24.4	28.7	-91.07	824.8	-617.9	875.9	840.6	35.31	24.807	
7,200.0	7,108.2	7,165.1	7,082.4	24.5	29.1	-90.72	830.1	-621.8	879.4	843.7	35.69	24.641	
7,300.0	7,208.2	7,275.0	7,192.2	24.5	29.5	-90.49	833.6	-624.5	881.8	845.8	36.03	24.477	
7,400.0	7,308.2	7,385.1	7,302.3	24.6	29.8	-90.36	835.5	-625.9	883.1	846.8	36.31	24.324	
7,500.0	7,408.2	7,491.3	7,408.5	24.6	29.9	-90.34	835.8	-626.2	883.3	846.9	36.44	24.239	
7,600.0	7,508.2	7,591.3	7,508.5	24.7	29.9	-90.34	835.8	-626.2	883.3	846.8	36.55	24.165	
7,700.0	7,608.2	7,691.3	7,608.5	24.7	30.0	-90.34	835.8	-626.2	883.3	846.7	36.67	24.089	
7,800.0	7,708.2	7,791.3	7,708.5	24.8	30.0	-90.34	835.8	-626.2	883.3	846.5	36.79	24.013	
7,900.0	7,808.2	7,891.3	7,808.5	24.8	30.0	-90.34	835.8	-626.2	883.3	846.4	36.90	23.938	
8,000.0	7,908.2	7,991.3	7,908.5	24.9	30.1	-90.34	835.8	-626.2	883.3	846.3	37.02	23.863	
8,100.0	8,008.2	8,091.3	8,008.5	24.9	30.1	-90.34	835.8	-626.2	883.3	846.2	37.13	23.788	
8,200.0	8,108.2	8,191.3	8,108.5	25.0	30.2	-90.34	835.8	-626.2	883.3	846.1	37.25	23.713	
8,300.0	8,208.2	8,291.3	8,208.5	25.0	30.2	-90.34	835.8	-626.2	883.3	846.0	37.37	23.639	
8,400.0	8,308.2	8,391.3	8,308.5	25.1	30.2	-90.34	835.8	-626.2	883.3	845.8	37.48	23.565	
8,500.0	8,408.2	8,491.3	8,408.5	25.1	30.3	-90.34	835.8	-626.2	883.3	845.7	37.60	23.491	
8,600.0	8,508.2	8,591.3	8,508.5	25.2	30.3	-90.34	835.8	-626.2	883.3	845.6	37.72	23.418	
8,700.0	8,608.2	8,691.3	8,608.5	25.2	30.3	-90.34	835.8	-626.2	883.3	845.5	37.84	23.344	
8,800.0	8,708.2	8,791.3	8,708.5	25.3	30.4	-90.34	835.8	-626.2	883.3	845.4	37.96	23.271	
8,900.0	8,808.2	8,891.3	8,808.5	25.3	30.4	-90.34	835.8	-626.2	883.3	845.3	38.08	23.199	
9,000.0	8,908.2	8,991.3	8,908.5	25.4	30.5	-90.34	835.8	-626.2	883.3	845.1	38.20	23.126	
9,100.0	9,008.2	9,091.3	9,008.5	25.4	30.5	-90.34	835.8	-626.2	883.3	845.0	38.32	23.054	
9,200.0	9,108.2	9,191.3	9,108.5	25.5	30.5	-90.34	835.8	-626.2	883.3	844.9	38.44	22.982	
9,300.0	9,208.2	9,291.3	9,208.5	25.5	30.6	-90.34	835.8	-626.2	883.3	844.8	38.56	22.910	
9,400.0	9,308.2	9,391.3	9,308.5	25.6	30.6	-90.34	835.8	-626.2	883.3	844.7	38.68	22.839	
9,500.0	9,408.2	9,491.3	9,408.5	25.6	30.6	-90.34	835.8	-626.2	883.3	844.5	38.80	22.768	
9,600.0	9,508.2	9,591.3	9,508.5	25.7	30.7	-90.34	835.8	-626.2	883.3	844.4	38.92	22.697	
9,700.0	9,608.2	9,691.3	9,608.5	25.7	30.7	-90.34	835.8	-626.2	883.3	844.3	39.04	22.626	
9,800.0	9,708.2	9,791.3	9,708.5	25.8	30.8	-90.34	835.8	-626.2	883.3	844.2	39.16	22.556	
9,900.0	9,808.2	9,891.3	9,808.5	25.8	30.8	-90.34	835.8	-626.2	883.3	844.0	39.28	22.486	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.0	9,908.2	9,991.3	9,908.5	25.9	30.8	-90.34	835.8	-626.2	883.3	843.9	39.41	22.416	
10,100.0	10,008.2	10,091.3	10,008.5	25.9	30.9	-90.34	835.8	-626.2	883.3	843.8	39.53	22.346	
10,200.0	10,108.2	10,191.3	10,108.5	26.0	30.9	-90.34	835.8	-626.2	883.3	843.7	39.65	22.277	
10,300.0	10,208.2	10,291.3	10,208.5	26.1	31.0	-90.34	835.8	-626.2	883.3	843.6	39.77	22.208	
10,400.0	10,308.2	10,391.3	10,308.5	26.1	31.0	-90.34	835.8	-626.2	883.3	843.4	39.90	22.140	
10,500.0	10,408.2	10,491.3	10,408.5	26.2	31.0	-90.34	835.8	-626.2	883.3	843.3	40.02	22.071	
10,600.0	10,508.2	10,591.3	10,508.5	26.2	31.1	-90.34	835.8	-626.2	883.3	843.2	40.15	22.003	
10,700.0	10,608.2	10,691.3	10,608.5	26.3	31.1	-90.34	835.8	-626.2	883.3	843.1	40.27	21.935	
10,800.0	10,708.2	10,791.3	10,708.5	26.3	31.2	-90.34	835.8	-626.2	883.3	842.9	40.39	21.868	
10,900.0	10,808.2	10,891.3	10,808.5	26.4	31.2	-90.34	835.8	-626.2	883.3	842.8	40.52	21.800	
11,000.0	10,908.2	10,991.3	10,908.5	26.4	31.3	-90.34	835.8	-626.2	883.3	842.7	40.64	21.733	
11,100.0	11,008.2	11,091.3	11,008.5	26.5	31.3	-90.34	835.8	-626.2	883.3	842.6	40.77	21.666	
11,200.0	11,108.2	11,191.3	11,108.5	26.5	31.3	-90.34	835.8	-626.2	883.3	842.4	40.90	21.600	
11,300.0	11,208.2	11,291.3	11,208.5	26.6	31.4	-90.34	835.8	-626.2	883.3	842.3	41.02	21.534	
11,400.0	11,308.2	11,391.3	11,308.5	26.6	31.4	-90.34	835.8	-626.2	883.3	842.2	41.15	21.468	
11,500.0	11,408.2	11,491.3	11,408.5	26.7	31.5	-90.34	835.8	-626.2	883.3	842.1	41.27	21.402	
11,600.0	11,508.2	11,591.3	11,508.5	26.8	31.5	-90.34	835.8	-626.2	883.3	841.9	41.40	21.337	
11,700.0	11,608.2	11,691.3	11,608.5	26.8	31.5	-90.34	835.8	-626.2	883.3	841.8	41.53	21.272	
11,800.0	11,708.2	11,791.3	11,708.5	26.9	31.6	-90.34	835.8	-626.2	883.3	841.7	41.65	21.207	
11,900.0	11,808.2	11,891.3	11,808.5	26.9	31.6	-90.34	835.8	-626.2	883.3	841.5	41.78	21.142	
12,000.0	11,908.2	11,991.3	11,908.5	27.0	31.7	-90.34	835.8	-626.2	883.3	841.4	41.91	21.078	
12,014.3	11,922.5	12,005.7	11,922.8	27.0	31.7	-90.34	835.8	-626.2	883.3	841.4	41.92	21.071	
12,025.0	11,933.2	12,016.3	11,933.5	27.0	31.7	98.16	835.8	-626.2	883.3	841.4	41.93	21.066	
12,050.0	11,958.2	12,041.3	11,958.5	26.9	31.7	98.22	835.8	-626.2	883.5	841.6	41.96	21.057	
12,075.0	11,983.0	12,066.2	11,983.3	26.8	31.7	98.34	835.8	-626.2	883.9	841.9	42.00	21.045	
12,100.0	12,007.7	12,090.9	12,008.0	26.8	31.7	98.51	835.8	-626.2	884.4	842.4	42.06	21.030	
12,125.0	12,032.2	12,115.4	12,032.5	26.7	31.7	98.74	835.8	-626.2	885.2	843.1	42.13	21.013	
12,150.0	12,056.4	12,139.5	12,056.7	26.6	31.7	99.01	835.8	-626.2	886.2	844.0	42.21	20.994	
12,175.0	12,080.2	12,163.3	12,080.5	26.5	31.7	99.33	835.8	-626.2	887.5	845.2	42.32	20.973	
12,200.0	12,103.6	12,186.7	12,103.9	26.4	31.8	99.67	835.8	-626.2	889.1	846.7	42.44	20.951	
12,225.0	12,126.4	12,209.6	12,126.7	26.3	31.8	100.03	835.8	-626.2	891.0	848.4	42.57	20.929	
12,250.0	12,148.7	12,231.9	12,149.0	26.2	31.8	100.41	835.8	-626.2	893.2	850.5	42.72	20.906	
12,275.0	12,170.4	12,253.6	12,170.7	26.1	31.8	100.78	835.8	-626.2	895.8	852.9	42.89	20.885	
12,300.0	12,191.5	12,274.6	12,191.8	26.0	31.8	101.14	835.8	-626.2	898.9	855.8	43.08	20.865	
12,325.0	12,211.7	12,294.9	12,212.0	26.0	31.8	101.47	835.8	-626.2	902.4	859.1	43.28	20.848	
12,350.0	12,231.2	12,314.4	12,231.5	25.9	31.8	101.76	835.8	-626.2	906.3	862.8	43.50	20.835	
12,375.0	12,249.9	12,333.0	12,250.2	25.8	31.8	102.00	835.8	-626.2	910.9	867.1	43.73	20.827	
12,400.0	12,267.6	12,350.8	12,267.9	25.7	31.8	102.17	835.8	-626.2	916.0	872.0	43.98	20.825	
12,425.0	12,284.4	12,367.6	12,284.7	25.6	31.8	102.26	835.8	-626.2	921.6	877.4	44.25	20.830	
12,450.0	12,300.2	12,383.4	12,300.5	25.6	31.8	102.27	835.8	-626.2	928.0	883.4	44.52	20.843	
12,475.0	12,315.0	12,398.1	12,315.3	25.5	31.9	102.16	835.8	-626.2	934.9	890.1	44.81	20.866	
12,500.0	12,328.7	12,411.8	12,329.0	25.4	31.9	101.94	835.8	-626.2	942.5	897.4	45.10	20.898	
12,525.0	12,341.3	12,424.4	12,341.6	25.4	31.9	101.60	835.8	-626.2	950.8	905.4	45.40	20.942	
12,550.0	12,352.7	12,435.8	12,353.0	25.3	31.9	101.11	835.8	-626.2	959.7	914.0	45.71	20.998	
12,575.0	12,362.9	12,446.1	12,363.2	25.3	31.9	100.47	835.8	-626.2	969.3	923.3	46.02	21.066	
12,600.0	12,372.0	12,455.1	12,372.3	25.3	31.9	99.67	835.8	-626.2	979.6	933.3	46.33	21.147	
12,625.0	12,379.8	12,463.0	12,380.1	25.2	31.9	98.71	835.8	-626.2	990.6	943.9	46.64	21.241	

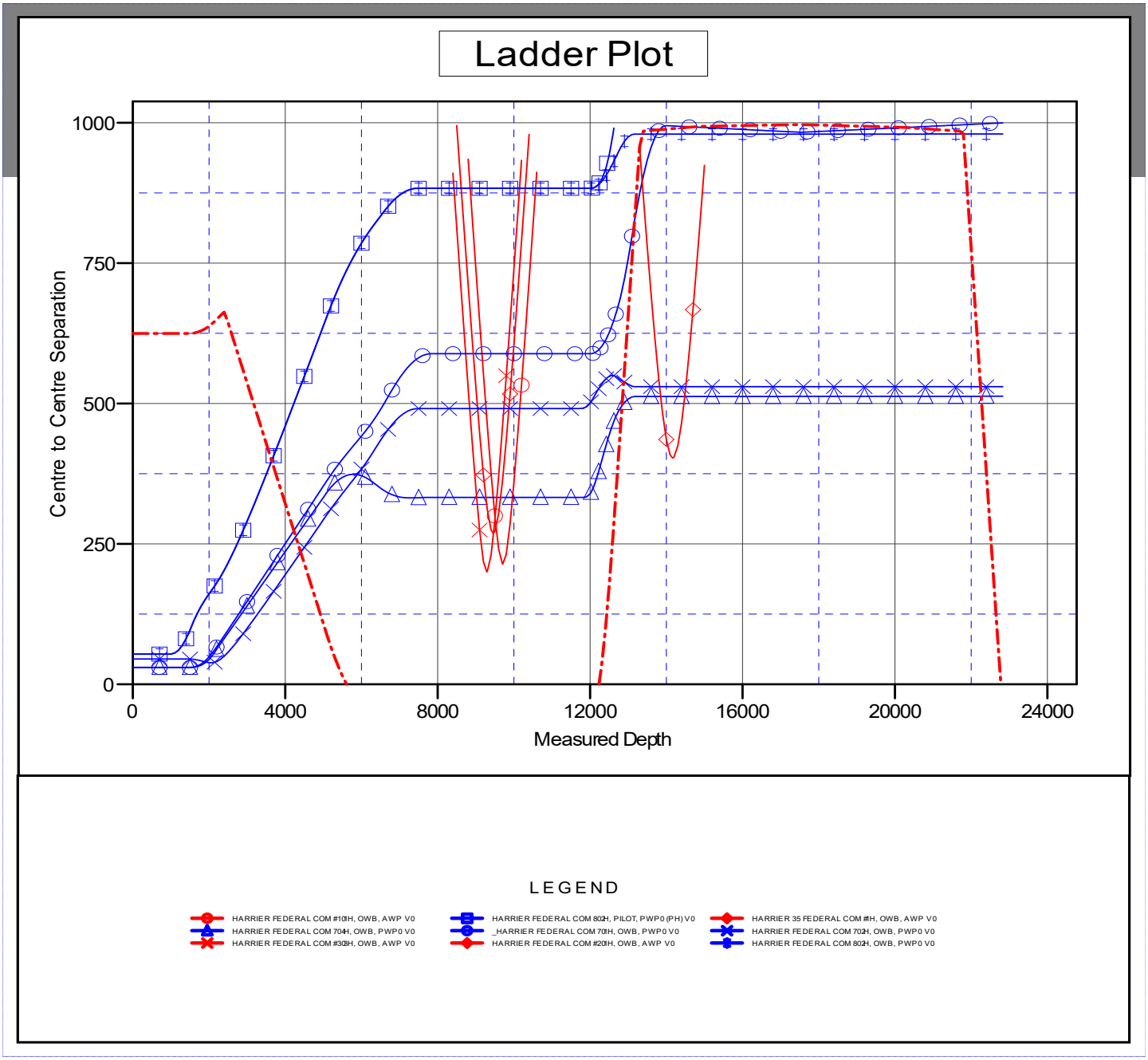
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 703H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.36°



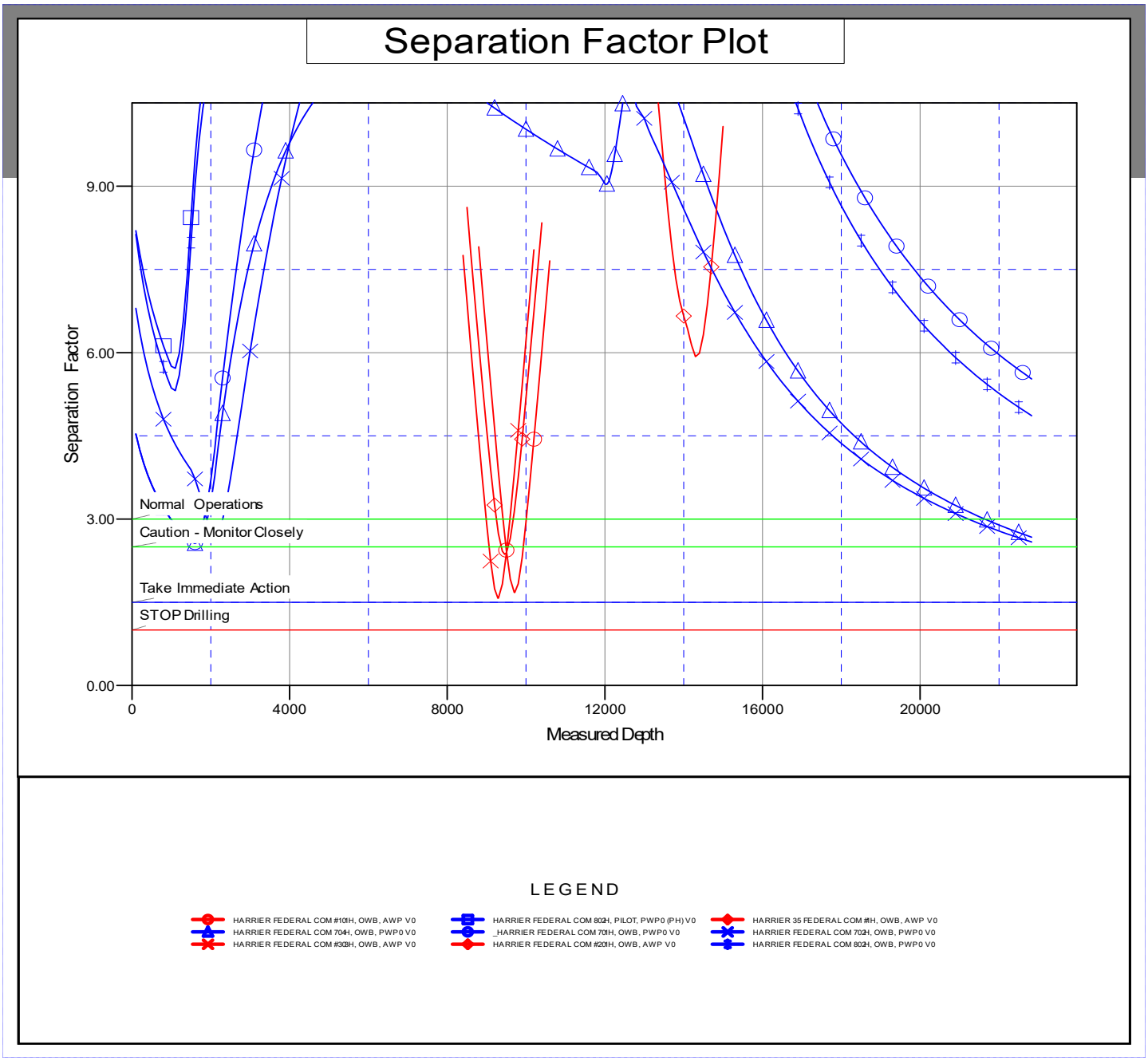
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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 703H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.36°



DELAWARE BASIN EAST

LEA COUNT SOUTH WEST (NM-E)
HARRIER FEDERAL PROJECT
HARRIER FEDERAL COM 703H
300254988900
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 703H
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 703H	**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	**Latitude:**	32° 5' 36.820 N
From:	Map	**Easting:**	741,887.40 usft	**Longitude:**	103° 33' 8.116 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well HARRIER FEDERAL COM 703H

Well Position	**+N/-S**	0.0 usft	**Northing:**	397,745.60 usft	**Latitude:**	32° 5' 30.045 N
	+E/-W	0.0 usft	**Easting:**	711,405.70 usft	**Longitude:**	103° 39' 2.501 W
Position Uncertainty		3.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,366.5 usft
Grid Convergence:		0.36 °				

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2023	4/1/2024	6.29	59.61	47,257.46123309

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	177.53	

Plan Survey Tool Program **Date** 1/12/2024

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,830.4	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 703H
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 703H	**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	
2,150.0	13.00	17.00	2,144.4	70.2	21.5	2.00	2.00	0.00	17.00	
5,080.7	13.00	17.00	5,000.0	700.7	214.2	0.00	0.00	0.00	0.00	
6,380.7	0.00	0.00	6,288.9	841.1	257.2	1.00	-1.00	0.00	180.00	
12,014.3	0.00	0.00	11,922.5	841.1	257.2	0.00	0.00	0.00	0.00	
12,764.3	90.00	171.50	12,400.0	368.9	327.7	12.00	12.00	0.00	171.50	
13,171.6	90.00	179.65	12,400.0	-36.9	359.1	2.00	0.00	2.00	90.00	
22,830.4	90.00	179.65	12,400.0	-9,695.4	418.8	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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	17.00	1,600.0	1.7	0.5	-1.6	2.00	2.00	0.00
1,700.0	4.00	17.00	1,699.8	6.7	2.0	-6.6	2.00	2.00	0.00
1,800.0	6.00	17.00	1,799.5	15.0	4.6	-14.8	2.00	2.00	0.00
1,900.0	8.00	17.00	1,898.7	26.7	8.2	-26.3	2.00	2.00	0.00
2,000.0	10.00	17.00	1,997.5	41.6	12.7	-41.0	2.00	2.00	0.00
2,100.0	12.00	17.00	2,095.6	59.9	18.3	-59.0	2.00	2.00	0.00
2,150.0	13.00	17.00	2,144.4	70.2	21.5	-69.2	2.00	2.00	0.00
Start 2930.7 hold at 2150.0 MD									
2,200.0	13.00	17.00	2,193.2	81.0	24.8	-79.8	0.00	0.00	0.00
2,300.0	13.00	17.00	2,290.6	102.5	31.3	-101.0	0.00	0.00	0.00
2,400.0	13.00	17.00	2,388.0	124.0	37.9	-122.2	0.00	0.00	0.00
2,500.0	13.00	17.00	2,485.5	145.5	44.5	-143.5	0.00	0.00	0.00
2,600.0	13.00	17.00	2,582.9	167.0	51.1	-164.7	0.00	0.00	0.00
2,700.0	13.00	17.00	2,680.3	188.5	57.6	-185.9	0.00	0.00	0.00
2,800.0	13.00	17.00	2,777.8	210.0	64.2	-207.1	0.00	0.00	0.00
2,900.0	13.00	17.00	2,875.2	231.6	70.8	-228.3	0.00	0.00	0.00
3,000.0	13.00	17.00	2,972.7	253.1	77.4	-249.5	0.00	0.00	0.00
3,100.0	13.00	17.00	3,070.1	274.6	83.9	-270.7	0.00	0.00	0.00
3,200.0	13.00	17.00	3,167.5	296.1	90.5	-291.9	0.00	0.00	0.00
3,300.0	13.00	17.00	3,265.0	317.6	97.1	-313.1	0.00	0.00	0.00
3,400.0	13.00	17.00	3,362.4	339.1	103.7	-334.3	0.00	0.00	0.00
3,500.0	13.00	17.00	3,459.8	360.6	110.3	-355.5	0.00	0.00	0.00
3,600.0	13.00	17.00	3,557.3	382.1	116.8	-376.7	0.00	0.00	0.00
3,700.0	13.00	17.00	3,654.7	403.7	123.4	-398.0	0.00	0.00	0.00
3,800.0	13.00	17.00	3,752.1	425.2	130.0	-419.2	0.00	0.00	0.00
3,900.0	13.00	17.00	3,849.6	446.7	136.6	-440.4	0.00	0.00	0.00
4,000.0	13.00	17.00	3,947.0	468.2	143.1	-461.6	0.00	0.00	0.00
4,100.0	13.00	17.00	4,044.5	489.7	149.7	-482.8	0.00	0.00	0.00
4,200.0	13.00	17.00	4,141.9	511.2	156.3	-504.0	0.00	0.00	0.00
4,300.0	13.00	17.00	4,239.3	532.7	162.9	-525.2	0.00	0.00	0.00
4,400.0	13.00	17.00	4,336.8	554.2	169.4	-546.4	0.00	0.00	0.00
4,500.0	13.00	17.00	4,434.2	575.8	176.0	-567.6	0.00	0.00	0.00
4,600.0	13.00	17.00	4,531.6	597.3	182.6	-588.8	0.00	0.00	0.00
4,700.0	13.00	17.00	4,629.1	618.8	189.2	-610.0	0.00	0.00	0.00
4,800.0	13.00	17.00	4,726.5	640.3	195.8	-631.2	0.00	0.00	0.00
4,900.0	13.00	17.00	4,824.0	661.8	202.3	-652.5	0.00	0.00	0.00
5,000.0	13.00	17.00	4,921.4	683.3	208.9	-673.7	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**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)
5,080.7	13.00	17.00	5,000.0	700.7	214.2	-690.8	0.00	0.00	0.00
Start Drop -1.00									
5,100.0	12.81	17.00	5,018.8	704.8	215.5	-694.8	1.00	-1.00	0.00
5,200.0	11.81	17.00	5,116.5	725.2	221.7	-714.9	1.00	-1.00	0.00
5,300.0	10.81	17.00	5,214.6	743.9	227.4	-733.4	1.00	-1.00	0.00
5,400.0	9.81	17.00	5,313.0	761.0	232.7	-750.3	1.00	-1.00	0.00
5,500.0	8.81	17.00	5,411.7	776.5	237.4	-765.5	1.00	-1.00	0.00
5,600.0	7.81	17.00	5,510.6	790.3	241.6	-779.2	1.00	-1.00	0.00
5,700.0	6.81	17.00	5,609.8	802.5	245.3	-791.1	1.00	-1.00	0.00
5,800.0	5.81	17.00	5,709.2	813.0	248.6	-801.5	1.00	-1.00	0.00
5,900.0	4.81	17.00	5,808.8	821.8	251.3	-810.2	1.00	-1.00	0.00
6,000.0	3.81	17.00	5,908.5	829.0	253.5	-817.3	1.00	-1.00	0.00
6,100.0	2.81	17.00	6,008.3	834.5	255.1	-822.7	1.00	-1.00	0.00
6,200.0	1.81	17.00	6,108.2	838.4	256.3	-826.5	1.00	-1.00	0.00
6,300.0	0.81	17.00	6,208.2	840.6	257.0	-828.7	1.00	-1.00	0.00
6,380.7	0.00	0.00	6,288.9	841.1	257.2	-829.2	1.00	-1.00	0.00
Start 5633.7 hold at 6380.7 MD									
6,400.0	0.00	0.00	6,308.2	841.1	257.2	-829.2	0.00	0.00	0.00
6,500.0	0.00	0.00	6,408.2	841.1	257.2	-829.2	0.00	0.00	0.00
6,600.0	0.00	0.00	6,508.2	841.1	257.2	-829.2	0.00	0.00	0.00
6,700.0	0.00	0.00	6,608.2	841.1	257.2	-829.2	0.00	0.00	0.00
6,800.0	0.00	0.00	6,708.2	841.1	257.2	-829.2	0.00	0.00	0.00
6,900.0	0.00	0.00	6,808.2	841.1	257.2	-829.2	0.00	0.00	0.00
7,000.0	0.00	0.00	6,908.2	841.1	257.2	-829.2	0.00	0.00	0.00
7,100.0	0.00	0.00	7,008.2	841.1	257.2	-829.2	0.00	0.00	0.00
7,200.0	0.00	0.00	7,108.2	841.1	257.2	-829.2	0.00	0.00	0.00
7,300.0	0.00	0.00	7,208.2	841.1	257.2	-829.2	0.00	0.00	0.00
7,400.0	0.00	0.00	7,308.2	841.1	257.2	-829.2	0.00	0.00	0.00
7,500.0	0.00	0.00	7,408.2	841.1	257.2	-829.2	0.00	0.00	0.00
7,600.0	0.00	0.00	7,508.2	841.1	257.2	-829.2	0.00	0.00	0.00
7,700.0	0.00	0.00	7,608.2	841.1	257.2	-829.2	0.00	0.00	0.00
7,800.0	0.00	0.00	7,708.2	841.1	257.2	-829.2	0.00	0.00	0.00
7,900.0	0.00	0.00	7,808.2	841.1	257.2	-829.2	0.00	0.00	0.00
8,000.0	0.00	0.00	7,908.2	841.1	257.2	-829.2	0.00	0.00	0.00
8,100.0	0.00	0.00	8,008.2	841.1	257.2	-829.2	0.00	0.00	0.00
8,200.0	0.00	0.00	8,108.2	841.1	257.2	-829.2	0.00	0.00	0.00
8,300.0	0.00	0.00	8,208.2	841.1	257.2	-829.2	0.00	0.00	0.00
8,400.0	0.00	0.00	8,308.2	841.1	257.2	-829.2	0.00	0.00	0.00
8,500.0	0.00	0.00	8,408.2	841.1	257.2	-829.2	0.00	0.00	0.00
8,600.0	0.00	0.00	8,508.2	841.1	257.2	-829.2	0.00	0.00	0.00
8,700.0	0.00	0.00	8,608.2	841.1	257.2	-829.2	0.00	0.00	0.00
8,800.0	0.00	0.00	8,708.2	841.1	257.2	-829.2	0.00	0.00	0.00
8,900.0	0.00	0.00	8,808.2	841.1	257.2	-829.2	0.00	0.00	0.00
9,000.0	0.00	0.00	8,908.2	841.1	257.2	-829.2	0.00	0.00	0.00
9,100.0	0.00	0.00	9,008.2	841.1	257.2	-829.2	0.00	0.00	0.00
9,200.0	0.00	0.00	9,108.2	841.1	257.2	-829.2	0.00	0.00	0.00
9,300.0	0.00	0.00	9,208.2	841.1	257.2	-829.2	0.00	0.00	0.00
9,400.0	0.00	0.00	9,308.2	841.1	257.2	-829.2	0.00	0.00	0.00
9,500.0	0.00	0.00	9,408.2	841.1	257.2	-829.2	0.00	0.00	0.00
9,600.0	0.00	0.00	9,508.2	841.1	257.2	-829.2	0.00	0.00	0.00
9,700.0	0.00	0.00	9,608.2	841.1	257.2	-829.2	0.00	0.00	0.00
9,800.0	0.00	0.00	9,708.2	841.1	257.2	-829.2	0.00	0.00	0.00
9,900.0	0.00	0.00	9,808.2	841.1	257.2	-829.2	0.00	0.00	0.00
10,000.0	0.00	0.00	9,908.2	841.1	257.2	-829.2	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,100.0	0.00	0.00	10,008.2	841.1	257.2	-829.2	0.00	0.00	0.00
10,200.0	0.00	0.00	10,108.2	841.1	257.2	-829.2	0.00	0.00	0.00
10,300.0	0.00	0.00	10,208.2	841.1	257.2	-829.2	0.00	0.00	0.00
10,400.0	0.00	0.00	10,308.2	841.1	257.2	-829.2	0.00	0.00	0.00
10,500.0	0.00	0.00	10,408.2	841.1	257.2	-829.2	0.00	0.00	0.00
10,600.0	0.00	0.00	10,508.2	841.1	257.2	-829.2	0.00	0.00	0.00
10,700.0	0.00	0.00	10,608.2	841.1	257.2	-829.2	0.00	0.00	0.00
10,800.0	0.00	0.00	10,708.2	841.1	257.2	-829.2	0.00	0.00	0.00
10,900.0	0.00	0.00	10,808.2	841.1	257.2	-829.2	0.00	0.00	0.00
11,000.0	0.00	0.00	10,908.2	841.1	257.2	-829.2	0.00	0.00	0.00
11,100.0	0.00	0.00	11,008.2	841.1	257.2	-829.2	0.00	0.00	0.00
11,200.0	0.00	0.00	11,108.2	841.1	257.2	-829.2	0.00	0.00	0.00
11,300.0	0.00	0.00	11,208.2	841.1	257.2	-829.2	0.00	0.00	0.00
11,400.0	0.00	0.00	11,308.2	841.1	257.2	-829.2	0.00	0.00	0.00
11,500.0	0.00	0.00	11,408.2	841.1	257.2	-829.2	0.00	0.00	0.00
11,600.0	0.00	0.00	11,508.2	841.1	257.2	-829.2	0.00	0.00	0.00
11,700.0	0.00	0.00	11,608.2	841.1	257.2	-829.2	0.00	0.00	0.00
11,800.0	0.00	0.00	11,708.2	841.1	257.2	-829.2	0.00	0.00	0.00
11,900.0	0.00	0.00	11,808.2	841.1	257.2	-829.2	0.00	0.00	0.00
12,000.0	0.00	0.00	11,908.2	841.1	257.2	-829.2	0.00	0.00	0.00
12,014.3	0.00	0.00	11,922.5	841.1	257.2	-829.2	0.00	0.00	0.00
Start Build 12.00									
12,025.0	1.28	171.50	11,933.2	841.0	257.2	-829.1	12.00	12.00	0.00
12,050.0	4.28	171.50	11,958.2	839.8	257.3	-827.9	12.00	12.00	0.00
12,075.0	7.28	171.50	11,983.0	837.3	257.7	-825.4	12.00	12.00	0.00
12,100.0	10.28	171.50	12,007.7	833.5	258.3	-821.6	12.00	12.00	0.00
12,125.0	13.28	171.50	12,032.2	828.5	259.0	-816.5	12.00	12.00	0.00
12,150.0	16.28	171.50	12,056.4	822.2	260.0	-810.2	12.00	12.00	0.00
12,175.0	19.28	171.50	12,080.2	814.6	261.1	-802.6	12.00	12.00	0.00
12,200.0	22.28	171.50	12,103.6	805.8	262.4	-793.8	12.00	12.00	0.00
12,225.0	25.28	171.50	12,126.4	795.9	263.9	-783.7	12.00	12.00	0.00
12,250.0	28.28	171.50	12,148.7	784.7	265.6	-772.5	12.00	12.00	0.00
12,275.0	31.28	171.50	12,170.4	772.5	267.4	-760.2	12.00	12.00	0.00
12,300.0	34.28	171.50	12,191.5	759.1	269.4	-746.7	12.00	12.00	0.00
12,325.0	37.28	171.50	12,211.7	744.6	271.6	-732.2	12.00	12.00	0.00
12,350.0	40.28	171.50	12,231.2	729.1	273.9	-716.6	12.00	12.00	0.00
12,375.0	43.28	171.50	12,249.9	712.7	276.3	-700.1	12.00	12.00	0.00
12,400.0	46.28	171.50	12,267.6	695.2	278.9	-682.6	12.00	12.00	0.00
12,425.0	49.28	171.50	12,284.4	676.9	281.7	-664.2	12.00	12.00	0.00
12,450.0	52.28	171.50	12,300.2	657.8	284.5	-644.9	12.00	12.00	0.00
12,475.0	55.28	171.50	12,315.0	637.8	287.5	-624.8	12.00	12.00	0.00
12,500.0	58.28	171.50	12,328.7	617.2	290.6	-604.0	12.00	12.00	0.00
12,525.0	61.28	171.50	12,341.3	595.8	293.8	-582.6	12.00	12.00	0.00
12,550.0	64.28	171.50	12,352.7	573.8	297.1	-560.5	12.00	12.00	0.00
12,575.0	67.28	171.50	12,362.9	551.3	300.5	-537.8	12.00	12.00	0.00
12,600.0	70.28	171.50	12,372.0	528.2	303.9	-514.6	12.00	12.00	0.00
12,625.0	73.28	171.50	12,379.8	504.7	307.4	-491.0	12.00	12.00	0.00
12,650.0	76.28	171.50	12,386.4	480.9	311.0	-467.0	12.00	12.00	0.00
12,675.0	79.28	171.50	12,391.7	456.7	314.6	-442.7	12.00	12.00	0.00
12,700.0	82.28	171.50	12,395.7	432.3	318.2	-418.2	12.00	12.00	0.00
12,725.0	85.28	171.50	12,398.4	407.7	321.9	-393.5	12.00	12.00	0.00
12,750.0	88.28	171.50	12,399.8	383.1	325.6	-368.6	12.00	12.00	0.00
12,764.3	90.00	171.50	12,400.0	368.9	327.7	-354.4	12.00	12.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Start DLS 2.00 TFO 90.00									
12,800.0	90.00	172.21	12,400.0	333.6	332.8	-318.9	2.00	0.00	2.00
12,900.0	90.00	174.21	12,400.0	234.3	344.6	-219.2	2.00	0.00	2.00
13,000.0	90.00	176.21	12,400.0	134.6	352.9	-119.3	2.00	0.00	2.00
13,100.0	90.00	178.21	12,400.0	34.8	357.8	-19.3	2.00	0.00	2.00
13,171.6	90.00	179.65	12,400.0	-36.9	359.1	52.3	2.00	0.00	2.00
Start 9658.7 hold at 13171.6 MD									
13,200.0	90.00	179.65	12,400.0	-65.2	359.3	80.7	0.00	0.00	0.00
13,300.0	90.00	179.65	12,400.0	-165.2	359.9	180.6	0.00	0.00	0.00
13,400.0	90.00	179.65	12,400.0	-265.2	360.5	280.5	0.00	0.00	0.00
13,500.0	90.00	179.65	12,400.0	-365.2	361.2	380.5	0.00	0.00	0.00
13,600.0	90.00	179.65	12,400.0	-465.2	361.8	480.4	0.00	0.00	0.00
13,700.0	90.00	179.65	12,400.0	-565.2	362.4	580.3	0.00	0.00	0.00
13,800.0	90.00	179.65	12,400.0	-665.2	363.0	680.3	0.00	0.00	0.00
13,900.0	90.00	179.65	12,400.0	-765.2	363.6	780.2	0.00	0.00	0.00
14,000.0	90.00	179.65	12,400.0	-865.2	364.3	880.1	0.00	0.00	0.00
14,100.0	90.00	179.65	12,400.0	-965.2	364.9	980.1	0.00	0.00	0.00
14,200.0	90.00	179.65	12,400.0	-1,065.2	365.5	1,080.0	0.00	0.00	0.00
14,300.0	90.00	179.65	12,400.0	-1,165.2	366.1	1,179.9	0.00	0.00	0.00
14,400.0	90.00	179.65	12,400.0	-1,265.2	366.7	1,279.9	0.00	0.00	0.00
14,500.0	90.00	179.65	12,400.0	-1,365.2	367.3	1,379.8	0.00	0.00	0.00
14,600.0	90.00	179.65	12,400.0	-1,465.2	368.0	1,479.7	0.00	0.00	0.00
14,700.0	90.00	179.65	12,400.0	-1,565.2	368.6	1,579.6	0.00	0.00	0.00
14,800.0	90.00	179.65	12,400.0	-1,665.2	369.2	1,679.6	0.00	0.00	0.00
14,900.0	90.00	179.65	12,400.0	-1,765.2	369.8	1,779.5	0.00	0.00	0.00
15,000.0	90.00	179.65	12,400.0	-1,865.2	370.4	1,879.4	0.00	0.00	0.00
15,100.0	90.00	179.65	12,400.0	-1,965.2	371.0	1,979.4	0.00	0.00	0.00
15,200.0	90.00	179.65	12,400.0	-2,065.2	371.7	2,079.3	0.00	0.00	0.00
15,300.0	90.00	179.65	12,400.0	-2,165.2	372.3	2,179.2	0.00	0.00	0.00
15,400.0	90.00	179.65	12,400.0	-2,265.2	372.9	2,279.2	0.00	0.00	0.00
15,500.0	90.00	179.65	12,400.0	-2,365.2	373.5	2,379.1	0.00	0.00	0.00
15,600.0	90.00	179.65	12,400.0	-2,465.2	374.1	2,479.0	0.00	0.00	0.00
15,700.0	90.00	179.65	12,400.0	-2,565.2	374.8	2,579.0	0.00	0.00	0.00
15,800.0	90.00	179.65	12,400.0	-2,665.2	375.4	2,678.9	0.00	0.00	0.00
15,900.0	90.00	179.65	12,400.0	-2,765.2	376.0	2,778.8	0.00	0.00	0.00
16,000.0	90.00	179.65	12,400.0	-2,865.2	376.6	2,878.8	0.00	0.00	0.00
16,100.0	90.00	179.65	12,400.0	-2,965.2	377.2	2,978.7	0.00	0.00	0.00
16,200.0	90.00	179.65	12,400.0	-3,065.2	377.8	3,078.6	0.00	0.00	0.00
16,300.0	90.00	179.65	12,400.0	-3,165.2	378.5	3,178.6	0.00	0.00	0.00
16,400.0	90.00	179.65	12,400.0	-3,265.2	379.1	3,278.5	0.00	0.00	0.00
16,500.0	90.00	179.65	12,400.0	-3,365.2	379.7	3,378.4	0.00	0.00	0.00
16,600.0	90.00	179.65	12,400.0	-3,465.2	380.3	3,478.3	0.00	0.00	0.00
16,700.0	90.00	179.65	12,400.0	-3,565.2	380.9	3,578.3	0.00	0.00	0.00
16,800.0	90.00	179.65	12,400.0	-3,665.2	381.5	3,678.2	0.00	0.00	0.00
16,900.0	90.00	179.65	12,400.0	-3,765.2	382.2	3,778.1	0.00	0.00	0.00
17,000.0	90.00	179.65	12,400.0	-3,865.2	382.8	3,878.1	0.00	0.00	0.00
17,100.0	90.00	179.65	12,400.0	-3,965.2	383.4	3,978.0	0.00	0.00	0.00
17,200.0	90.00	179.65	12,400.0	-4,065.1	384.0	4,077.9	0.00	0.00	0.00
17,300.0	90.00	179.65	12,400.0	-4,165.1	384.6	4,177.9	0.00	0.00	0.00
17,400.0	90.00	179.65	12,400.0	-4,265.1	385.3	4,277.8	0.00	0.00	0.00
17,500.0	90.00	179.65	12,400.0	-4,365.1	385.9	4,377.7	0.00	0.00	0.00
17,600.0	90.00	179.65	12,400.0	-4,465.1	386.5	4,477.7	0.00	0.00	0.00
17,700.0	90.00	179.65	12,400.0	-4,565.1	387.1	4,577.6	0.00	0.00	0.00
17,800.0	90.00	179.65	12,400.0	-4,665.1	387.7	4,677.5	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,900.0	90.00	179.65	12,400.0	-4,765.1	388.3	4,777.5	0.00	0.00	0.00
18,000.0	90.00	179.65	12,400.0	-4,865.1	389.0	4,877.4	0.00	0.00	0.00
18,100.0	90.00	179.65	12,400.0	-4,965.1	389.6	4,977.3	0.00	0.00	0.00
18,200.0	90.00	179.65	12,400.0	-5,065.1	390.2	5,077.3	0.00	0.00	0.00
18,300.0	90.00	179.65	12,400.0	-5,165.1	390.8	5,177.2	0.00	0.00	0.00
18,400.0	90.00	179.65	12,400.0	-5,265.1	391.4	5,277.1	0.00	0.00	0.00
18,500.0	90.00	179.65	12,400.0	-5,365.1	392.1	5,377.0	0.00	0.00	0.00
18,600.0	90.00	179.65	12,400.0	-5,465.1	392.7	5,477.0	0.00	0.00	0.00
18,700.0	90.00	179.65	12,400.0	-5,565.1	393.3	5,576.9	0.00	0.00	0.00
18,800.0	90.00	179.65	12,400.0	-5,665.1	393.9	5,676.8	0.00	0.00	0.00
18,900.0	90.00	179.65	12,400.0	-5,765.1	394.5	5,776.8	0.00	0.00	0.00
19,000.0	90.00	179.65	12,400.0	-5,865.1	395.1	5,876.7	0.00	0.00	0.00
19,100.0	90.00	179.65	12,400.0	-5,965.1	395.8	5,976.6	0.00	0.00	0.00
19,200.0	90.00	179.65	12,400.0	-6,065.1	396.4	6,076.6	0.00	0.00	0.00
19,300.0	90.00	179.65	12,400.0	-6,165.1	397.0	6,176.5	0.00	0.00	0.00
19,400.0	90.00	179.65	12,400.0	-6,265.1	397.6	6,276.4	0.00	0.00	0.00
19,500.0	90.00	179.65	12,400.0	-6,365.1	398.2	6,376.4	0.00	0.00	0.00
19,600.0	90.00	179.65	12,400.0	-6,465.1	398.8	6,476.3	0.00	0.00	0.00
19,700.0	90.00	179.65	12,400.0	-6,565.1	399.5	6,576.2	0.00	0.00	0.00
19,800.0	90.00	179.65	12,400.0	-6,665.1	400.1	6,676.2	0.00	0.00	0.00
19,900.0	90.00	179.65	12,400.0	-6,765.1	400.7	6,776.1	0.00	0.00	0.00
20,000.0	90.00	179.65	12,400.0	-6,865.1	401.3	6,876.0	0.00	0.00	0.00
20,100.0	90.00	179.65	12,400.0	-6,965.1	401.9	6,976.0	0.00	0.00	0.00
20,200.0	90.00	179.65	12,400.0	-7,065.1	402.6	7,075.9	0.00	0.00	0.00
20,300.0	90.00	179.65	12,400.0	-7,165.1	403.2	7,175.8	0.00	0.00	0.00
20,400.0	90.00	179.65	12,400.0	-7,265.1	403.8	7,275.7	0.00	0.00	0.00
20,500.0	90.00	179.65	12,400.0	-7,365.1	404.4	7,375.7	0.00	0.00	0.00
20,600.0	90.00	179.65	12,400.0	-7,465.1	405.0	7,475.6	0.00	0.00	0.00
20,700.0	90.00	179.65	12,400.0	-7,565.1	405.6	7,575.5	0.00	0.00	0.00
20,800.0	90.00	179.65	12,400.0	-7,665.1	406.3	7,675.5	0.00	0.00	0.00
20,900.0	90.00	179.65	12,400.0	-7,765.1	406.9	7,775.4	0.00	0.00	0.00
21,000.0	90.00	179.65	12,400.0	-7,865.1	407.5	7,875.3	0.00	0.00	0.00
21,100.0	90.00	179.65	12,400.0	-7,965.1	408.1	7,975.3	0.00	0.00	0.00
21,200.0	90.00	179.65	12,400.0	-8,065.1	408.7	8,075.2	0.00	0.00	0.00
21,300.0	90.00	179.65	12,400.0	-8,165.1	409.3	8,175.1	0.00	0.00	0.00
21,400.0	90.00	179.65	12,400.0	-8,265.1	410.0	8,275.1	0.00	0.00	0.00
21,500.0	90.00	179.65	12,400.0	-8,365.1	410.6	8,375.0	0.00	0.00	0.00
21,600.0	90.00	179.65	12,400.0	-8,465.1	411.2	8,474.9	0.00	0.00	0.00
21,700.0	90.00	179.65	12,400.0	-8,565.1	411.8	8,574.9	0.00	0.00	0.00
21,800.0	90.00	179.65	12,400.0	-8,665.1	412.4	8,674.8	0.00	0.00	0.00
21,900.0	90.00	179.65	12,400.0	-8,765.1	413.1	8,774.7	0.00	0.00	0.00
22,000.0	90.00	179.65	12,400.0	-8,865.1	413.7	8,874.7	0.00	0.00	0.00
22,100.0	90.00	179.65	12,400.0	-8,965.1	414.3	8,974.6	0.00	0.00	0.00
22,200.0	90.00	179.65	12,400.0	-9,065.1	414.9	9,074.5	0.00	0.00	0.00
22,300.0	90.00	179.65	12,400.0	-9,165.1	415.5	9,174.4	0.00	0.00	0.00
22,400.0	90.00	179.65	12,400.0	-9,265.1	416.1	9,274.4	0.00	0.00	0.00
22,500.0	90.00	179.65	12,400.0	-9,365.0	416.8	9,374.3	0.00	0.00	0.00
22,600.0	90.00	179.65	12,400.0	-9,465.0	417.4	9,474.2	0.00	0.00	0.00
22,700.0	90.00	179.65	12,400.0	-9,565.0	418.0	9,574.2	0.00	0.00	0.00
22,800.0	90.00	179.65	12,400.0	-9,665.0	418.6	9,674.1	0.00	0.00	0.00
22,830.4	90.00	179.65	12,400.0	-9,695.4	418.8	9,704.4	0.00	0.00	0.00
TD at 22830.4									

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well HARRIER FEDERAL COM 703H
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 703H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
703H_KOP BOX: 0'N & - plan hits target center - Rectangle (sides W50.0 H50.0 D5,633.6)	0.00	0.00	11,922.5	841.1	257.1	398,586.70	711,662.85	32° 5' 38.353 N	103° 38' 59.450 W
FTP_HARRIER 703H - plan misses target center by 178.9usft at 12425.0usft MD (12284.4 TVD, 676.9 N, 281.7 E) - Circle (radius 50.0)	0.00	0.00	12,400.0	792.4	354.6	398,538.00	711,760.30	32° 5' 37.864 N	103° 38' 58.321 W
LTP_HARRIER 703H - plan hits target center - Circle (radius 50.0)	90.00	179.65	12,400.0	-9,645.5	418.5	388,100.10	711,824.20	32° 3' 54.568 N	103° 38' 58.347 W
PBHL_HARRIER 703H - plan hits target center - Rectangle (sides W100.0 H10,487.9 D20.0)	0.00	359.65	12,400.0	-9,695.4	418.8	388,050.20	711,824.50	32° 3' 54.074 N	103° 38' 58.347 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,500.0	1,500.0	0.0	0.0	Start Build 2.00
2,150.0	2,144.4	70.2	21.5	Start 2930.7 hold at 2150.0 MD
5,080.7	5,000.0	700.7	214.2	Start Drop -1.00
6,380.7	6,288.9	841.1	257.2	Start 5633.7 hold at 6380.7 MD
12,014.3	11,922.5	841.1	257.2	Start Build 12.00
12,764.3	12,400.0	368.9	327.7	Start DLS 2.00 TFO 90.00
13,171.6	12,400.0	-36.9	359.1	Start 9658.7 hold at 13171.6 MD
22,830.4	12,400.0	-9,695.4	418.8	TD at 22830.4

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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 319201

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 319201
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	3/20/2024