

Well Name: HARRIER FEDERAL COM	Well Location: T25S / R32E / SEC 35 / NWNW /	County or Parish/State:
Well Number: 704H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM108973	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549890	Well Status: Approved Application for Permit to Drill	Operator: COG OPERATING LLC

Notice of Intent

Sundry ID: 2774648

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 02/12/2024	Time Sundry Submitted: 12:34
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 & 330' FWL SWSW 2-26S-32E Change BHL TO: 50' FSL & 880' FWL SWSW 2-26S-32E

NOI Attachments

Procedure Description

- HARRIER_FED_COM_704H_PWP0_PPLOT_20240212123337.pdf
- Harrier_Fed_Com_704H_APD_drill_plan_20240212123337.pdf
- HARRIER_FED_COM_704H_C102_NAD83_signed_1_23_24_20240212123337.pdf
- HARRIER_FED_COM_704H_C102_A_NAD83_signed_1_23_24_20240212123337.pdf
- HARRIER_FED_COM_704H_PWP0_AC_RPT_20240212123337.pdf
- HARRIER_FED_COM_704H_PWP0_DIR_RPT_20240212123337.pdf

Well Name: HARRIER FEDERAL COM	Well Location: T25S / R32E / SEC 35 / NWNW /	County or Parish/State:
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Lease Number: NMNM108973	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549890	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 12:34 PM

Name: COG OPERATING LLC

Title: Regulatory Advisor

Street Address: 600 WEST ILLINOIS AVE

City: MIDLANDState: TX

Phone: (432) 253-9685

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

Field

Representative Name:

Street Address:

City:State:Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: KEITH P IMMATTY

BLM POC Title: ENGINEER

BLM POC Phone: 5759884722

BLM POC Email Address: KIMMATTY@BLM.GOV

Disposition: Approved

Disposition Date: 02/28/2024

Signature: Keith Immatty

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

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

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

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

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

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

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

THE SPACE FOR FEDERAL OR STATE OFFICE USE

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

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Location of Well

0. SHL: NWNW / 890 FNL / 925 FWL / TWSP: 25S / RANGE: 32E / SECTION: 35 / LAT: 32.091804 / LONG: -103.651264 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 100 FNL / 330 FWL / TWSP: 25S / RANGE: 32E / SECTION: 35 / LAT: 32.093975 / LONG: -103.653171 (TVD: 12017 feet, MD: 12056 feet)

BHL: SWSW / 50 FSL / 330 FWL / TWSP: 26S / RANGE: 32E / SECTION: 2 / LAT: 32.065143 / LONG: -103.653176 (TVD: 12262 feet, MD: 22047 feet)

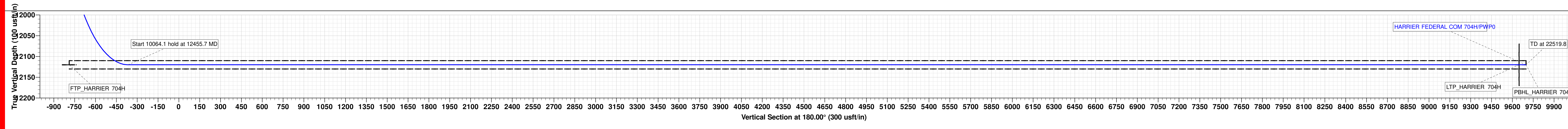
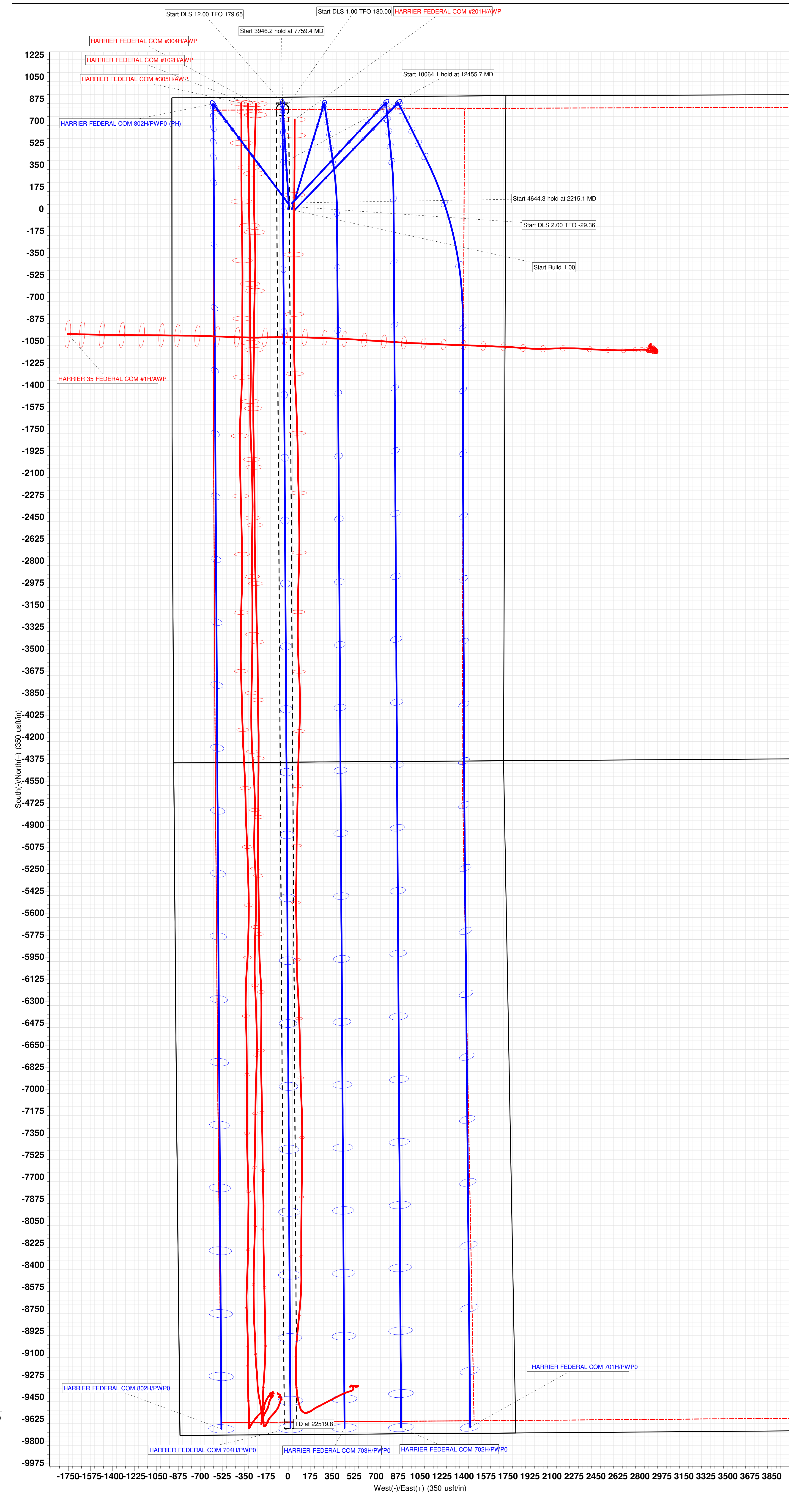
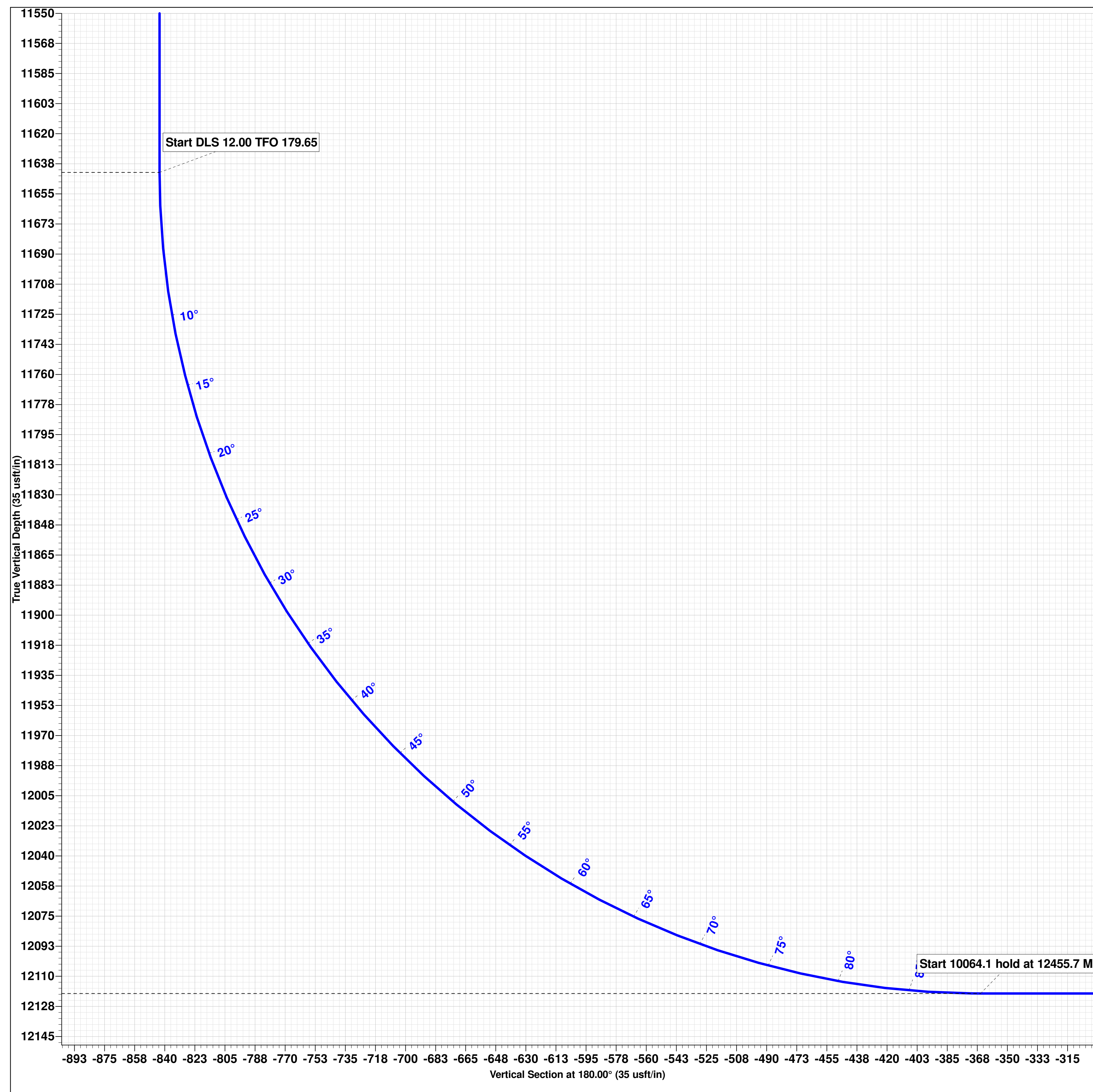
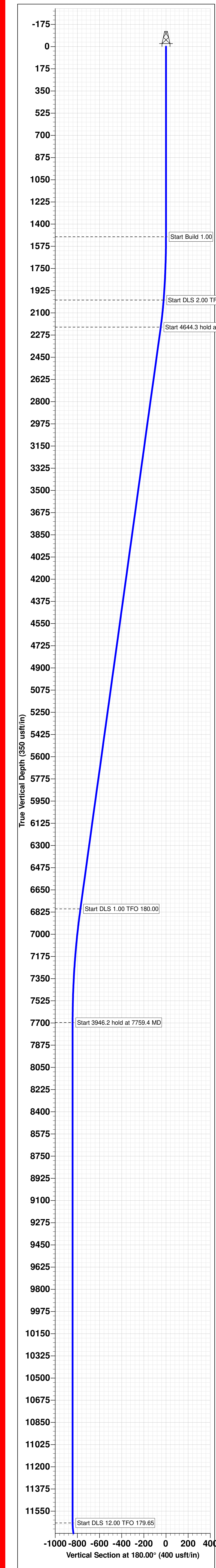
CONFIDENTIAL



Project: LEA COUNT SOUTH WEST (NM-E)
Site: HARRIER FEDERAL PROJECT
Well: HARRIER FEDERAL COM 704H
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
2000.0	5.00	10.00	1999.4	21.5	3.8	1.00	10.00	-21.5
2215.1	9.00	356.40	2212.9	47.5	4.4	2.00	-29.36	-47.5
6859.4	9.00	356.40	6800.0	772.6	-41.3	0.00	0.00	-772.7
7759.4	0.00	0.00	7696.3	843.0	-45.7	1.00	180.00	-843.1
11705.7	0.00	0.00	11642.5	843.0	-45.7	0.00	0.00	-843.1
12455.7	90.00	179.65	12120.0	365.6	-42.8	12.00	179.65	-365.6
22519.8	90.00	179.65	12120.0	-9698.4	18.8	0.00	0.00	9698.4



COG Operating, LLC - Harrier Federal Com 704H

1. Geologic Formations

TVD of target	12,120' EOL	Pilot hole depth	NA
MD at TD:	22,520'	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	4504	Salt	
Lamar	4699	Salt Water	
Bell Canyon	4734	Salt Water	
Cherry Canyon	5726	Oil/Gas	
Brushy Canyon	7292	Oil/Gas	
Bone Spring Lime	8854	Oil/Gas	
1st Bone Spring Sand	9818	Oil/Gas	
2nd Bone Spring Sand	10437	Oil/Gas	
3rd Bone Spring Sand	11602	Oil/Gas	
Wolfcamp A	12224	Target	
Wolfcamp B	0	Not Penetrated	
Wolfcamp D	0	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	1050	10.75"	45.5	N80	BTC	5.14	1.71	21.77	22.96
9.875"	0	8300	7.625"	29.7	HCL80	BTC	1.60	1.08	2.95	2.97
8.750"	8300	11800	7.625"	29.7	HCP110	FJM	1.21	1.40	2.68	1.59
6.75"	0	11300	5.5"	23	P110	BTC	1.98	2.34	2.80	2.79
6.75"	11300	22,520	5.5"	23	P110	Talon	1.82	2.15	2.58	2.50
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and
All casing strings will be tested in accordance with 43 CFR part 3170 Subpart 3172

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

COG Operating, LLC - Harrier Federal Com 704H

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

COG Operating, LLC - Harrier Federal Com 704H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	501	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	840	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	524	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	1018	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

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

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

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

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

COG Operating, LLC - Harrier Federal Com 704H

4. Pressure Control Equipment

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

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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

Y	Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per 43 CFR part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

COG Operating, LLC - Harrier Federal Com 704H

5. Mud Program

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

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

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

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

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

COG Operating, LLC - Harrier Federal Com 704H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7990 psi at 12292' TVD
Abnormal Temperature	NO 180 Deg. F.

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

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

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

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

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

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

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

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

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

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

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-49890	Pool Code 98180	Pool Name WC-025 G-09 S253309P; Upper Wolfcamp
Property Code 325390	Property Name HARRIER FEDERAL COM	Well Number 704H
OGRID No. 229137	Operator Name COG OPERATING LLC	Elevation 3366.3'

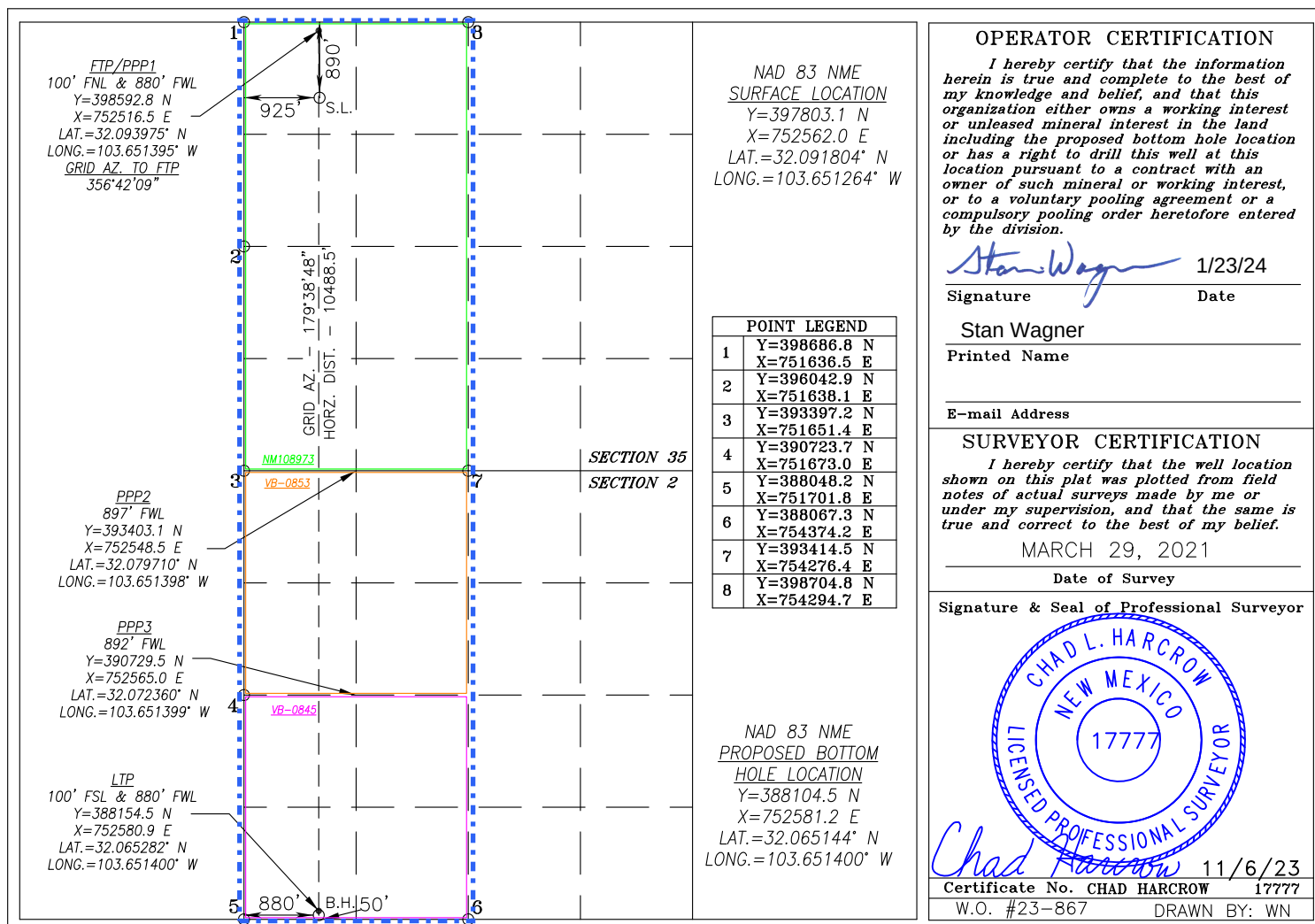
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	35	25-S	32-E		890	NORTH	925	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	880	WEST	LEA
Dedicated Acres 640	Joint or Infill	Consolidation Code Com	Order No.						

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



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

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State of New Mexico
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1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-49890	Pool Code 98158	Pool Name WC-025 G-09 S253236A; Upper Wolfcamp
Property Code 325390	Property Name HARRIER FEDERAL COM	Well Number 704H
OGRID No. 229137	Operator Name COG OPERATING LLC	Elevation 3366.3'

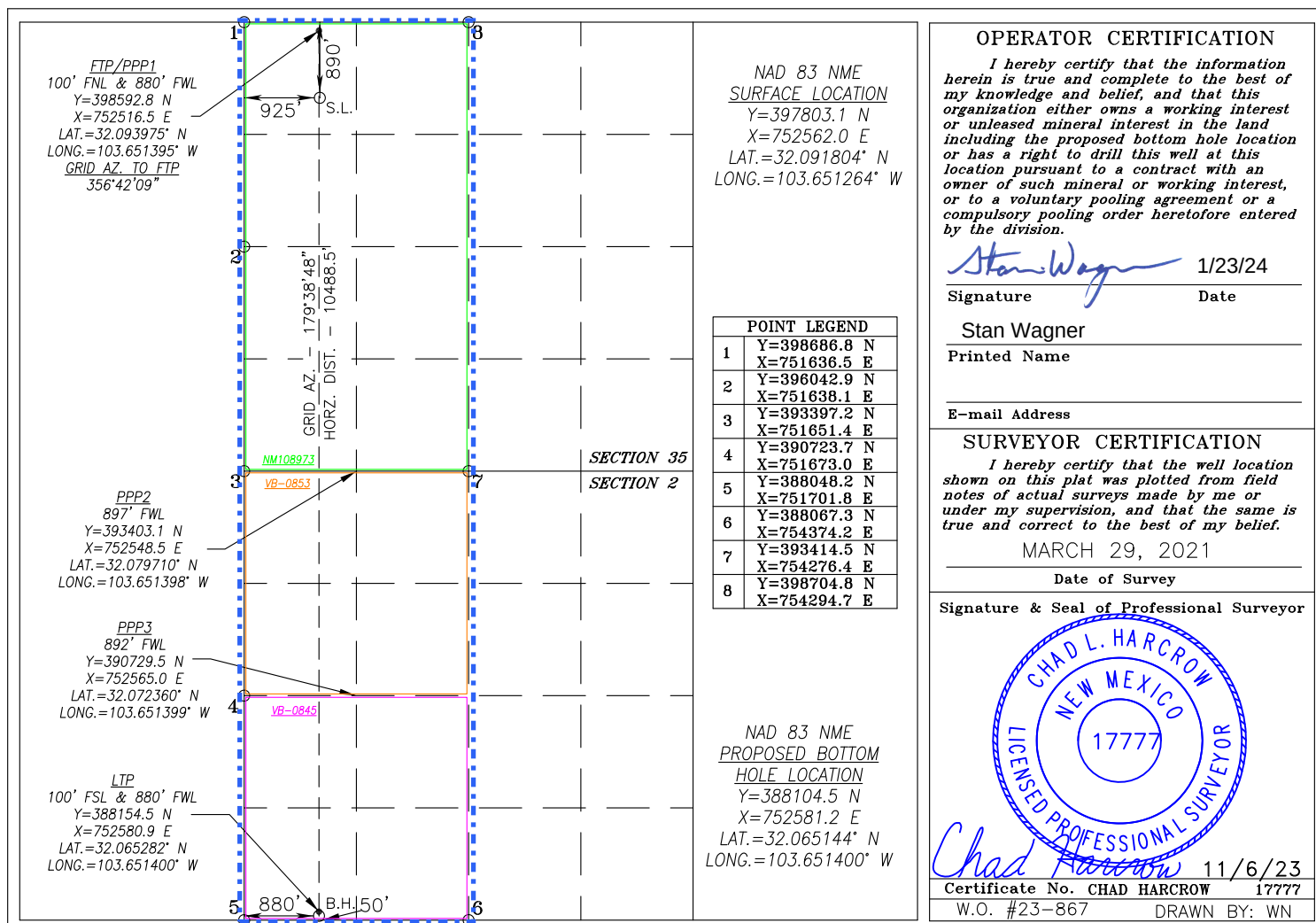
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D	35	25-S	32-E		890	NORTH	925	WEST	LEA

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M	2	26-S	32-E		50	SOUTH	880	WEST	LEA
Dedicated Acres 640	Joint or Infill	Consolidation Code Com	Order No.						

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



DELAWARE BASIN EAST

LEA COUNT SOUTH WEST (NM-E)

HARRIER FEDERAL PROJECT

HARRIER FEDERAL COM 704H

300254989000

OWB

PWP0

Anticollision Report

12 January, 2024

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	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	22,519.8	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
HARRIER FEDERAL PROJECT						
_HARRIER FEDERAL COM 701H - OWB - PWP0	1,500.0	1,499.7	60.0	48.4	5.186	CC, ES
_HARRIER FEDERAL COM 701H - OWB - PWP0	1,600.0	1,598.2	61.0	49.1	5.132	SF
HARRIER 35 FEDERAL COM #1H - OWB - AWP	13,840.6	14,668.8	136.3	70.8	2.082	Caution - Monitor Closely, C
HARRIER 35 FEDERAL COM #1H - OWB - AWP	13,900.0	14,668.0	148.7	70.8	1.908	Caution - Monitor Closely, E
HARRIER FEDERAL COM #102H - OWB - AWP	9,194.5	19,312.0	273.3	145.1	2.131	Caution - Monitor Closely, C
HARRIER FEDERAL COM #201H - OWB - AWP	9,429.4	19,405.0	163.5	78.4	1.921	Caution - Monitor Closely, C
HARRIER FEDERAL COM #304H - OWB - AWP	10,171.1	20,380.0	211.0	82.2	1.639	Caution - Monitor Closely, C
HARRIER FEDERAL COM #305H - OWB - AWP	9,659.8	19,869.4	327.7	198.7	2.541	Normal Operations, CC, ES,
HARRIER FEDERAL COM 702H - OWB - PWP0	1,466.6	1,466.8	54.2	42.8	4.729	CC
HARRIER FEDERAL COM 702H - OWB - PWP0	1,500.0	1,500.0	54.3	42.7	4.689	ES
HARRIER FEDERAL COM 702H - OWB - PWP0	22,519.8	22,570.4	880.0	678.8	4.374	SF
HARRIER FEDERAL COM 703H - OWB - PWP0	1,466.6	1,466.8	30.0	18.5	2.615	Normal Operations, CC
HARRIER FEDERAL COM 703H - OWB - PWP0	1,500.0	1,500.2	30.0	18.4	2.593	Normal Operations, ES
HARRIER FEDERAL COM 703H - OWB - PWP0	1,600.0	1,600.0	30.4	18.5	2.560	Normal Operations, SF
HARRIER FEDERAL COM 802H - OWB - PWP0	966.5	967.0	44.9	35.0	4.522	CC
HARRIER FEDERAL COM 802H - OWB - PWP0	1,000.0	1,000.0	44.9	34.9	4.473	ES
HARRIER FEDERAL COM 802H - OWB - PWP0	22,519.8	22,815.9	617.0	425.7	3.227	SF
HARRIER FEDERAL COM 802H - PILOT - PWP0 (PH)	966.5	967.0	44.9	35.6	4.828	CC
HARRIER FEDERAL COM 802H - PILOT - PWP0 (PH)	1,000.0	1,000.0	44.9	35.5	4.779	ES
HARRIER FEDERAL COM 802H - PILOT - PWP0 (PH)	1,100.0	1,099.2	46.3	36.6	4.760	SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
HARRIER FEDERAL PROJECT						
_HARRIER FEDERAL COM 701H - OWB - PWP0	22,519.8	22,943.6				Out of Range @TD
HARRIER 35 FEDERAL COM #1H - OWB - AWP	22,519.8	14,205.9				Out of Range @TD
HARRIER FEDERAL COM #102H - OWB - AWP	22,519.8	9,357.0				Out of Range @TD
HARRIER FEDERAL COM #201H - OWB - AWP	22,519.8	9,553.0				Out of Range @TD
HARRIER FEDERAL COM #304H - OWB - AWP	22,519.8	10,223.0				Out of Range @TD
HARRIER FEDERAL COM #305H - OWB - AWP	22,519.8	9,852.0				Out of Range @TD
HARRIER FEDERAL COM 702H - OWB - PWP0	22,519.8	22,570.4	880.0	678.8	4.374	SF
HARRIER FEDERAL COM 703H - OWB - PWP0	22,519.8	22,830.4	513.0	321.2	2.674	Normal Operations
HARRIER FEDERAL COM 802H - OWB - PWP0	22,519.8	22,815.9	617.0	425.7	3.227	SF
HARRIER FEDERAL COM 802H - PILOT - PWP0 (PH)	22,519.8	12,203.3				Out of Range @TD

Offset Design: HARRIER FEDERAL PROJECT - _HARRIER FEDERAL COM 701H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres		Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
0.0	0.0	0.0	0.0	3.0	3.0	89.62	0.4	60.0	60.0				
100.0	100.0	99.7	99.7	3.1	3.1	89.62	0.4	60.0	60.0	53.4	6.62	9.066	
200.0	200.0	199.7	199.7	3.3	3.3	89.62	0.4	60.0	60.0	52.9	7.07	8.486	
300.0	300.0	299.7	299.7	3.5	3.5	89.62	0.4	60.0	60.0	52.5	7.50	8.002	
400.0	400.0	399.7	399.7	3.7	3.7	89.62	0.4	60.0	60.0	52.1	7.90	7.591	
500.0	500.0	499.7	499.7	3.9	3.9	89.62	0.4	60.0	60.0	51.7	8.29	7.236	
600.0	600.0	599.7	599.7	4.1	4.1	89.62	0.4	60.0	60.0	51.3	8.67	6.924	
700.0	700.0	699.7	699.7	4.3	4.3	89.62	0.4	60.0	60.0	51.0	9.03	6.648	
800.0	800.0	799.7	799.7	4.5	4.5	89.62	0.4	60.0	60.0	50.6	9.37	6.402	
900.0	900.0	899.7	899.7	4.7	4.7	89.62	0.4	60.0	60.0	50.3	9.71	6.179	
1,000.0	1,000.0	999.7	999.7	4.8	4.8	89.62	0.4	60.0	60.0	50.0	10.04	5.977	
1,100.0	1,100.0	1,099.7	1,099.7	5.0	5.0	89.62	0.4	60.0	60.0	49.6	10.36	5.792	
1,200.0	1,200.0	1,199.7	1,199.7	5.2	5.2	89.62	0.4	60.0	60.0	49.3	10.67	5.623	
1,300.0	1,300.0	1,299.7	1,299.7	5.3	5.3	89.62	0.4	60.0	60.0	49.0	10.98	5.466	
1,400.0	1,400.0	1,399.7	1,399.7	5.5	5.5	89.62	0.4	60.0	60.0	48.7	11.28	5.321	
1,500.0	1,500.0	1,499.7	1,499.7	5.6	5.6	89.62	0.4	60.0	60.0	48.4	11.57	5.186	CC, ES
1,600.0	1,600.0	1,598.2	1,598.2	5.8	5.8	79.27	1.6	61.2	61.0	49.1	11.89	5.132	SF
1,700.0	1,700.0	1,696.7	1,696.5	5.9	6.1	78.29	5.3	64.7	64.2	52.0	12.21	5.256	
1,800.0	1,799.9	1,794.9	1,794.3	6.1	6.3	76.84	11.3	70.5	69.5	56.9	12.53	5.542	
1,900.0	1,899.7	1,892.7	1,891.5	6.3	6.6	75.15	19.7	78.7	76.9	64.0	12.86	5.978	
2,000.0	1,999.4	1,990.1	1,987.7	6.5	6.9	73.39	30.5	89.1	86.5	73.3	13.20	6.550	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	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		Reference Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
2,100.0	2,098.8	2,086.9	2,082.8	6.8	7.2	80.33	43.5	101.6	98.9	85.3	13.55	7.294			
2,200.0	2,197.9	2,184.6	2,178.3	7.1	7.4	84.79	58.5	116.1	114.1	100.2	13.85	8.235			
2,215.1	2,212.9	2,199.6	2,192.9	7.1	7.4	85.43	60.9	118.4	116.5	102.6	13.89	8.387			
2,300.0	2,296.7	2,283.4	2,274.7	7.3	7.7	86.22	73.9	131.0	130.0	115.8	14.19	9.158			
2,400.0	2,395.5	2,382.1	2,371.0	7.6	8.0	86.97	89.3	145.8	145.9	131.3	14.55	10.025			
2,500.0	2,494.2	2,480.8	2,467.4	7.9	8.3	87.58	104.6	160.7	161.8	146.9	14.92	10.843			
2,600.0	2,593.0	2,579.5	2,563.8	8.2	8.6	88.07	120.0	175.5	177.7	162.4	15.30	11.615			
2,700.0	2,691.8	2,678.2	2,660.1	8.5	8.9	88.48	135.4	190.3	193.7	178.0	15.69	12.341			
2,800.0	2,790.5	2,776.9	2,756.5	8.9	9.3	88.83	150.7	205.2	209.6	193.6	16.09	13.026			
2,900.0	2,889.3	2,875.6	2,852.9	9.2	9.6	89.13	166.1	220.0	225.6	209.1	16.50	13.671			
3,000.0	2,988.1	2,974.3	2,949.3	9.6	10.0	89.39	181.5	234.9	241.6	224.7	16.92	14.279			
3,100.0	3,086.8	3,073.0	3,045.6	9.9	10.4	89.62	196.9	249.7	257.6	240.2	17.34	14.852			
3,200.0	3,185.6	3,171.8	3,142.0	10.3	10.8	89.82	212.2	264.6	273.5	255.8	17.77	15.393			
3,300.0	3,284.4	3,270.5	3,238.4	10.7	11.2	90.00	227.6	279.4	289.5	271.3	18.21	15.902			
3,400.0	3,383.1	3,369.2	3,334.7	11.0	11.6	90.16	243.0	294.2	305.5	286.9	18.65	16.383			
3,500.0	3,481.9	3,467.9	3,431.1	11.4	12.0	90.31	258.3	309.1	321.5	302.4	19.09	16.838			
3,600.0	3,580.7	3,566.6	3,527.5	11.8	12.4	90.44	273.7	323.9	337.5	317.9	19.54	17.267			
3,700.0	3,679.5	3,665.3	3,623.9	12.2	12.8	90.56	289.1	338.8	353.5	333.5	20.00	17.674			
3,800.0	3,778.2	3,764.0	3,720.2	12.6	13.2	90.67	304.4	353.6	369.5	349.0	20.46	18.058			
3,900.0	3,877.0	3,862.7	3,816.6	13.0	13.6	90.77	319.8	368.4	385.5	364.5	20.92	18.423			
4,000.0	3,975.8	3,961.4	3,913.0	13.4	14.1	90.86	335.2	383.3	401.5	380.1	21.39	18.768			
4,100.0	4,074.5	4,060.2	4,009.3	13.8	14.5	90.94	350.5	398.1	417.4	395.6	21.86	19.096			
4,200.0	4,173.3	4,158.9	4,105.7	14.2	14.9	91.02	365.9	413.0	433.4	411.1	22.33	19.407			
4,300.0	4,272.1	4,257.6	4,202.1	14.6	15.4	91.10	381.3	427.8	449.4	426.6	22.81	19.703			
4,400.0	4,370.8	4,356.3	4,298.5	15.0	15.8	91.16	396.6	442.6	465.4	442.1	23.29	19.984			
4,500.0	4,469.6	4,455.0	4,394.8	15.4	16.2	91.23	412.0	457.5	481.4	457.7	23.77	20.252			
4,600.0	4,568.4	4,553.7	4,491.2	15.8	16.7	91.29	427.4	472.3	497.4	473.2	24.26	20.507			
4,700.0	4,667.1	4,652.4	4,587.6	16.2	17.1	91.34	442.8	487.2	513.4	488.7	24.74	20.750			
4,800.0	4,765.9	4,751.1	4,683.9	16.7	17.6	91.39	458.1	502.0	529.4	504.2	25.23	20.982			
4,900.0	4,864.7	4,849.8	4,780.3	17.1	18.0	91.44	473.5	516.9	545.4	519.7	25.72	21.204			
5,000.0	4,963.4	4,948.6	4,876.7	17.5	18.4	91.49	488.9	531.7	561.4	535.2	26.22	21.415			
5,100.0	5,062.2	5,047.3	4,973.0	17.9	18.9	91.53	504.2	546.5	577.4	550.7	26.71	21.618			
5,200.0	5,161.0	5,146.0	5,069.4	18.3	19.3	91.58	519.6	561.4	593.4	566.2	27.21	21.811			
5,300.0	5,259.8	5,244.7	5,165.8	18.8	19.8	91.61	535.0	576.2	609.4	581.7	27.71	21.997			
5,400.0	5,358.5	5,343.4	5,262.2	19.2	20.2	91.65	550.3	591.1	625.4	597.2	28.21	22.174			
5,500.0	5,457.3	5,442.1	5,358.5	19.6	20.7	91.69	565.7	605.9	641.4	612.7	28.71	22.345			
5,600.0	5,556.1	5,540.8	5,454.9	20.0	21.1	91.72	581.1	620.7	657.4	628.2	29.21	22.508			
5,700.0	5,654.8	5,639.5	5,551.3	20.5	21.6	91.75	596.4	635.6	673.4	643.7	29.71	22.665			
5,800.0	5,753.6	5,738.2	5,647.6	20.9	22.1	91.78	611.8	650.4	689.4	659.2	30.22	22.816			
5,900.0	5,852.4	5,836.9	5,744.0	21.3	22.5	91.81	627.2	665.3	705.4	674.7	30.72	22.960			
6,000.0	5,951.1	5,935.7	5,840.4	21.8	23.0	91.84	642.5	680.1	721.4	690.2	31.23	23.100			
6,100.0	6,049.9	6,034.4	5,936.8	22.2	23.4	91.87	657.9	695.0	737.4	705.7	31.74	23.234			
6,200.0	6,148.7	6,133.1	6,033.1	22.6	23.9	91.89	673.3	709.8	753.5	721.2	32.25	23.363			
6,300.0	6,247.4	6,231.8	6,129.5	23.1	24.3	91.92	688.6	724.6	769.5	736.7	32.76	23.487			
6,400.0	6,346.2	6,330.5	6,225.9	23.5	24.8	91.94	704.0	739.5	785.5	752.2	33.27	23.607			
6,500.0	6,445.0	6,429.2	6,322.2	23.9	25.3	91.96	719.4	754.3	801.5	767.7	33.78	23.723			
6,600.0	6,543.7	6,527.9	6,418.6	24.4	25.7	91.99	734.8	769.2	817.5	783.2	34.30	23.834			
6,700.0	6,642.5	6,628.4	6,516.7	24.8	26.2	92.01	750.4	784.2	833.5	798.6	34.82	23.937			
6,800.0	6,741.3	6,738.6	6,624.6	25.2	26.7	92.10	766.6	799.9	848.6	813.2	35.38	23.988			
6,859.4	6,800.0	6,804.4	6,689.2	25.5	27.0	92.20	775.5	808.5	856.9	821.3	35.67	24.023			
6,900.0	6,840.1	6,849.3	6,733.3	25.6	27.2	92.33	781.3	814.1	862.4	826.5	35.86	24.047			
7,000.0	6,939.1	6,960.3	6,842.8	26.1	27.7	92.62	794.6	826.9	874.7	838.4	36.35	24.065			

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 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,100.0	7,038.3	7,071.6	6,953.0	26.5	28.2	92.87	806.4	838.3	885.7	848.9	36.82	24.056	
7,200.0	7,137.7	7,183.3	7,063.7	26.9	28.6	93.07	816.6	848.2	895.2	858.0	37.27	24.022	
7,300.0	7,237.3	7,295.2	7,174.9	27.3	29.1	93.23	825.3	856.6	903.3	865.6	37.69	23.965	
7,400.0	7,337.1	7,407.3	7,286.6	27.6	29.5	93.35	832.5	863.6	909.9	871.8	38.09	23.886	
7,500.0	7,436.9	7,519.7	7,398.7	28.0	29.9	93.43	838.1	869.0	915.1	876.6	38.47	23.789	
7,600.0	7,536.9	7,632.1	7,511.0	28.3	30.3	93.47	842.1	872.9	918.8	880.0	38.80	23.677	
7,700.0	7,636.9	7,744.7	7,623.5	28.6	30.6	93.47	844.6	875.2	921.0	881.9	39.10	23.554	
7,759.4	7,696.3	7,811.6	7,690.4	28.6	30.8	89.86	845.3	875.9	921.6	882.4	39.23	23.489	
7,800.0	7,736.9	7,857.3	7,736.1	28.7	30.9	89.85	845.4	876.0	921.7	882.5	39.27	23.469	
7,900.0	7,836.9	7,957.7	7,836.6	28.7	30.9	89.85	845.4	876.0	921.7	882.4	39.38	23.409	
8,000.0	7,936.9	8,057.7	7,936.6	28.8	30.9	89.85	845.4	876.0	921.7	882.2	39.49	23.343	
8,100.0	8,036.9	8,157.7	8,036.6	28.8	31.0	89.85	845.4	876.0	921.7	882.1	39.60	23.277	
8,200.0	8,136.9	8,257.7	8,136.6	28.9	31.0	89.85	845.4	876.0	921.7	882.0	39.71	23.212	
8,300.0	8,236.9	8,357.7	8,236.6	28.9	31.0	89.85	845.4	876.0	921.7	881.9	39.82	23.147	
8,400.0	8,336.9	8,457.7	8,336.6	29.0	31.1	89.85	845.4	876.0	921.7	881.8	39.93	23.082	
8,500.0	8,436.9	8,557.7	8,436.6	29.0	31.1	89.85	845.4	876.0	921.7	881.7	40.05	23.017	
8,600.0	8,536.9	8,657.7	8,536.6	29.1	31.2	89.85	845.4	876.0	921.7	881.6	40.16	22.952	
8,700.0	8,636.9	8,757.7	8,636.6	29.1	31.2	89.85	845.4	876.0	921.7	881.5	40.27	22.888	
8,800.0	8,736.9	8,857.7	8,736.6	29.2	31.2	89.85	845.4	876.0	921.7	881.3	40.39	22.823	
8,900.0	8,836.9	8,957.7	8,836.6	29.2	31.3	89.85	845.4	876.0	921.7	881.2	40.50	22.759	
9,000.0	8,936.9	9,057.7	8,936.6	29.3	31.3	89.85	845.4	876.0	921.7	881.1	40.61	22.695	
9,100.0	9,036.9	9,157.7	9,036.6	29.3	31.4	89.85	845.4	876.0	921.7	881.0	40.73	22.631	
9,200.0	9,136.9	9,257.7	9,136.6	29.4	31.4	89.85	845.4	876.0	921.7	880.9	40.84	22.568	
9,300.0	9,236.9	9,357.7	9,236.6	29.4	31.4	89.85	845.4	876.0	921.7	880.8	40.96	22.504	
9,400.0	9,336.9	9,457.7	9,336.6	29.5	31.5	89.85	845.4	876.0	921.7	880.7	41.07	22.441	
9,500.0	9,436.9	9,557.7	9,436.6	29.5	31.5	89.85	845.4	876.0	921.7	880.5	41.19	22.378	
9,600.0	9,536.9	9,657.7	9,536.6	29.6	31.5	89.85	845.4	876.0	921.7	880.4	41.31	22.315	
9,700.0	9,636.9	9,757.7	9,636.6	29.6	31.6	89.85	845.4	876.0	921.7	880.3	41.42	22.252	
9,800.0	9,736.9	9,857.7	9,736.6	29.7	31.6	89.85	845.4	876.0	921.7	880.2	41.54	22.190	
9,900.0	9,836.9	9,957.7	9,836.6	29.7	31.7	89.85	845.4	876.0	921.7	880.1	41.66	22.127	
10,000.0	9,936.9	10,057.7	9,936.6	29.8	31.7	89.85	845.4	876.0	921.7	880.0	41.77	22.065	
10,100.0	10,036.9	10,157.7	10,036.6	29.9	31.7	89.85	845.4	876.0	921.7	879.8	41.89	22.003	
10,200.0	10,136.9	10,257.7	10,136.6	29.9	31.8	89.85	845.4	876.0	921.7	879.7	42.01	21.942	
10,300.0	10,236.9	10,357.7	10,236.6	30.0	31.8	89.85	845.4	876.0	921.7	879.6	42.13	21.880	
10,400.0	10,336.9	10,457.7	10,336.6	30.0	31.9	89.85	845.4	876.0	921.7	879.5	42.24	21.819	
10,500.0	10,436.9	10,557.7	10,436.6	30.1	31.9	89.85	845.4	876.0	921.7	879.4	42.36	21.758	
10,600.0	10,536.9	10,657.7	10,536.6	30.1	31.9	89.85	845.4	876.0	921.7	879.2	42.48	21.697	
10,700.0	10,636.9	10,757.7	10,636.6	30.2	32.0	89.85	845.4	876.0	921.7	879.1	42.60	21.636	
10,800.0	10,736.9	10,857.7	10,736.6	30.2	32.0	89.85	845.4	876.0	921.7	879.0	42.72	21.575	
10,900.0	10,836.9	10,957.7	10,836.6	30.3	32.1	89.85	845.4	876.0	921.7	878.9	42.84	21.515	
11,000.0	10,936.9	11,057.7	10,936.6	30.3	32.1	89.85	845.4	876.0	921.7	878.8	42.96	21.455	
11,100.0	11,036.9	11,157.7	11,036.6	30.4	32.2	89.85	845.4	876.0	921.7	878.6	43.08	21.395	
11,200.0	11,136.9	11,257.7	11,136.6	30.5	32.2	89.85	845.4	876.0	921.7	878.5	43.20	21.335	
11,300.0	11,236.9	11,357.7	11,236.6	30.5	32.2	89.85	845.4	876.0	921.7	878.4	43.32	21.276	
11,400.0	11,336.9	11,457.7	11,336.6	30.6	32.3	89.85	845.4	876.0	921.7	878.3	43.44	21.216	
11,500.0	11,436.9	11,557.7	11,436.6	30.6	32.3	89.85	845.4	876.0	921.7	878.2	43.57	21.157	
11,600.0	11,536.9	11,657.7	11,536.6	30.7	32.4	89.85	845.4	876.0	921.7	878.0	43.69	21.098	
11,700.0	11,636.9	11,757.7	11,636.6	30.7	32.4	89.85	845.4	876.0	921.7	877.9	43.81	21.038	
11,705.7	11,642.5	11,763.4	11,642.2	30.7	32.4	89.85	845.4	876.0	921.7	877.9	43.82	21.035	
11,725.0	11,661.9	11,782.7	11,661.6	30.7	32.4	-89.82	845.4	876.0	921.7	877.9	43.85	21.018	
11,750.0	11,686.8	11,807.7	11,686.5	30.6	32.4	-89.93	845.4	876.0	921.7	877.8	43.89	21.001	
11,761.2	11,698.0	11,818.9	11,697.7	30.6	32.4	-90.00	845.4	876.0	921.7	877.8	43.91	20.991	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,775.0	11,711.6	11,832.5	11,711.3	30.5	32.4	-90.11	845.4	876.0	921.7	877.8	43.94	20.975	
11,800.0	11,736.2	11,857.1	11,735.9	30.5	32.5	-90.37	845.4	876.0	921.7	877.7	44.02	20.939	
11,825.0	11,760.6	11,881.5	11,760.3	30.4	32.5	-90.70	845.4	876.0	921.8	877.7	44.12	20.894	
11,850.0	11,784.7	11,905.6	11,784.4	30.2	32.5	-91.09	845.4	876.0	921.9	877.7	44.24	20.840	
11,875.0	11,808.3	11,929.2	11,808.0	30.1	32.5	-91.54	845.4	876.0	922.1	877.7	44.38	20.778	
11,900.0	11,831.5	11,952.4	11,831.2	30.0	32.5	-92.04	845.4	876.0	922.4	877.9	44.54	20.709	
11,925.0	11,854.2	11,975.1	11,853.9	29.9	32.5	-92.58	845.4	876.0	922.9	878.2	44.73	20.633	
11,950.0	11,876.3	11,997.2	11,876.0	29.8	32.5	-93.14	845.4	876.0	923.5	878.6	44.94	20.552	
11,975.0	11,897.8	12,018.7	11,897.5	29.7	32.5	-93.71	845.4	876.0	924.4	879.3	45.16	20.469	
12,000.0	11,918.6	12,039.4	11,918.3	29.6	32.5	-94.29	845.4	876.0	925.6	880.2	45.41	20.382	
12,025.0	11,938.6	12,050.0	11,928.8	29.5	32.5	-94.48	845.4	876.1	927.2	881.4	45.73	20.276	
12,050.0	11,957.8	12,065.1	11,943.9	29.4	32.5	-94.81	845.0	876.3	929.2	883.2	46.04	20.183	
12,075.0	11,976.1	12,075.0	11,953.8	29.3	32.5	-94.89	844.5	876.5	931.8	885.4	46.39	20.087	
12,100.0	11,993.5	12,088.7	11,967.4	29.2	32.5	-95.07	843.5	877.0	934.9	888.2	46.73	20.008	
12,125.0	12,010.0	12,100.0	11,978.7	29.1	32.5	-95.10	842.5	877.5	938.6	891.5	47.09	19.932	
12,150.0	12,025.4	12,111.9	11,990.5	29.0	32.5	-95.10	841.1	878.2	942.8	895.3	47.45	19.869	
12,175.0	12,039.8	12,125.0	12,003.4	28.9	32.4	-95.11	839.2	879.1	947.5	899.7	47.80	19.821	
12,200.0	12,053.2	12,134.6	12,012.9	28.9	32.4	-94.90	837.7	879.9	952.8	904.6	48.19	19.774	
12,225.0	12,065.4	12,145.8	12,023.8	28.8	32.4	-94.70	835.7	880.9	958.7	910.1	48.55	19.745	
12,250.0	12,076.4	12,156.7	12,034.5	28.7	32.4	-94.44	833.5	882.0	965.0	916.1	48.92	19.729	
12,275.0	12,086.2	12,167.5	12,045.0	28.7	32.4	-94.11	831.1	883.2	971.9	922.7	49.27	19.726	
12,300.0	12,094.8	12,178.1	12,055.2	28.6	32.4	-93.70	828.6	884.4	979.4	929.7	49.62	19.737	
12,325.0	12,102.2	12,188.5	12,065.1	28.6	32.3	-93.23	825.9	885.8	987.3	937.3	49.96	19.763	
12,350.0	12,108.4	12,200.0	12,076.0	28.6	32.3	-92.75	822.7	887.3	995.7	945.5	50.27	19.809	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER 35 FEDERAL COM #1H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-r.5 GYRO-NS, 4800-r.5 MWD						Rule Assigned:						Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,900.0	12,120.0	14,677.2	11,966.2	28.5	71.2	1.95	-1,019.3	-38.9	950.4	844.5	105.96	8.970	
13,000.0	12,120.0	14,676.6	11,966.2	28.5	71.2	1.70	-1,019.3	-38.4	851.6	745.9	105.64	8.061	
13,100.0	12,120.0	14,676.0	11,966.2	28.5	71.2	1.43	-1,019.3	-37.7	753.0	647.8	105.22	7.157	
13,200.0	12,120.0	14,675.3	11,966.3	28.5	71.2	1.14	-1,019.3	-37.0	654.9	550.3	104.63	6.259	
13,300.0	12,120.0	14,674.5	11,966.3	28.5	71.2	0.82	-1,019.3	-36.2	557.5	453.8	103.77	5.373	
13,400.0	12,120.0	14,673.7	11,966.3	28.6	71.1	0.47	-1,019.3	-35.4	461.2	358.8	102.41	4.504	
13,500.0	12,120.0	14,672.7	11,966.3	28.6	71.1	0.09	-1,019.3	-34.5	366.9	266.8	100.04	3.667	
13,600.0	12,120.0	14,671.7	11,966.3	28.6	71.1	-0.34	-1,019.3	-33.5	276.6	181.2	95.38	2.900	Normal Operations
13,700.0	12,120.0	14,670.6	11,966.4	28.6	71.1	-0.81	-1,019.4	-32.4	195.9	111.0	84.92	2.307	Caution - Monitor Closely
13,800.0	12,120.0	14,669.4	11,966.4	28.6	71.0	-1.34	-1,019.4	-31.1	142.3	75.8	66.50	2.139	Caution - Monitor Closely
13,840.6	12,120.0	14,668.8	11,966.4	28.7	71.0	-1.57	-1,019.4	-30.6	136.3	70.8	65.49	2.082	Caution - Monitor Closely, CC
13,900.0	12,120.0	14,668.0	11,966.4	28.7	71.0	-1.93	-1,019.4	-29.7	148.7	70.8	77.92	1.908	Caution - Monitor Closely, ES, SF
14,000.0	12,120.0	14,666.4	11,966.5	28.7	71.0	-2.60	-1,019.4	-28.1	209.7	113.1	96.60	2.171	Caution - Monitor Closely
14,100.0	12,120.0	14,664.6	11,966.5	28.7	70.9	-3.33	-1,019.4	-26.4	293.0	189.6	103.38	2.834	Normal Operations
14,200.0	12,120.0	14,663.0	11,966.6	28.8	70.9	-4.02	-1,019.4	-24.7	384.3	278.5	105.86	3.631	
14,300.0	12,120.0	14,661.2	11,966.6	28.8	70.8	-4.76	-1,019.4	-23.0	479.1	372.2	106.89	4.482	
14,400.0	12,120.0	14,659.3	11,966.7	28.9	70.8	-5.54	-1,019.4	-21.1	575.7	468.3	107.36	5.362	
14,500.0	12,120.0	14,657.3	11,966.8	29.0	70.8	-6.38	-1,019.5	-19.1	673.2	565.7	107.58	6.258	
14,600.0	12,120.0	14,655.2	11,966.8	29.2	70.7	-7.27	-1,019.5	-17.0	771.4	663.7	107.67	7.164	
14,700.0	12,120.0	14,652.9	11,966.9	29.8	70.6	-8.22	-1,019.5	-14.7	870.0	762.3	107.70	8.078	
14,800.0	12,120.0	14,650.5	11,967.0	30.5	70.6	-9.23	-1,019.5	-12.2	968.9	861.2	107.69	8.997	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	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 #102H - OWB - AWP											Offset Site Error:		0.0 usft
Survey Program:		100-Standard Keeper 104, 8457-MWD+IFR1+FDIR							Rule Assigned:				Offset Well Error:		3.0 usft
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Semi Major Axis Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
8,300.0	8,236.9	19,312.0	9,011.4	28.9	90.3	-91.30	836.8	-318.9	935.3	816.8	118.53	7.891			
8,400.0	8,336.9	19,312.0	9,011.4	29.0	90.3	-91.30	836.8	-318.9	840.2	721.4	118.80	7.072			
8,500.0	8,436.9	19,312.0	9,011.4	29.0	90.3	-91.30	836.8	-318.9	746.4	627.2	119.16	6.264			
8,600.0	8,536.9	19,312.0	9,011.4	29.1	90.3	-91.30	836.8	-318.9	654.3	534.7	119.64	5.469			
8,700.0	8,636.9	19,312.0	9,011.4	29.1	90.3	-91.30	836.8	-318.9	565.0	444.7	120.31	4.696			
8,800.0	8,736.9	19,312.0	9,011.4	29.2	90.3	-91.30	836.8	-318.9	479.9	358.6	121.30	3.957			
8,900.0	8,836.9	19,312.0	9,011.4	29.2	90.3	-91.30	836.8	-318.9	401.8	279.0	122.76	3.273			
9,000.0	8,936.9	19,312.0	9,011.4	29.3	90.3	-91.30	836.8	-318.9	335.4	210.6	124.83	2.687	Normal Operations		
9,100.0	9,036.9	19,312.0	9,011.4	29.3	90.3	-91.30	836.8	-318.9	289.2	162.0	127.13	2.275	Caution - Monitor Closely		
9,194.5	9,131.4	19,312.0	9,011.4	29.4	90.3	-91.30	836.8	-318.9	273.3	145.1	128.22	2.131	Caution - Monitor Closely, CC, ES, SF		
9,200.0	9,136.9	19,312.0	9,011.4	29.4	90.3	-91.30	836.8	-318.9	273.3	145.1	128.22	2.132	Caution - Monitor Closely		
9,300.0	9,236.9	19,312.0	9,011.4	29.4	90.3	-91.30	836.8	-318.9	292.9	165.9	127.05	2.306	Caution - Monitor Closely		
9,400.0	9,336.9	19,307.2	9,011.6	29.5	90.2	-92.29	832.1	-318.9	341.9	217.1	124.80	2.740	Normal Operations		
9,500.0	9,436.9	19,301.6	9,012.0	29.5	90.2	-93.46	826.5	-318.9	409.7	286.9	122.87	3.335			
9,600.0	9,536.9	19,296.1	9,012.3	29.6	90.1	-94.62	820.9	-318.9	488.7	367.2	121.55	4.021			
9,700.0	9,636.9	19,290.5	9,012.6	29.6	90.1	-95.78	815.3	-318.9	574.2	453.5	120.70	4.757			
9,800.0	9,736.9	19,284.9	9,012.9	29.7	90.0	-96.94	809.8	-319.0	663.7	543.6	120.14	5.525			
9,900.0	9,836.9	19,279.3	9,013.2	29.7	90.0	-98.08	804.2	-319.0	755.9	636.1	119.77	6.311			
10,000.0	9,936.9	19,273.7	9,013.5	29.8	89.9	-99.23	798.6	-319.0	849.7	730.2	119.53	7.109			
10,100.0	10,036.9	19,268.1	9,013.8	29.9	89.9	-100.36	793.0	-319.0	944.8	825.4	119.36	7.916			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM #201H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8552-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Minimum Separation (usft)	Separation Factor
8,500.0	8,436.9	19,405.0	9,242.2	29.0	88.4	143.45	711.6	51.7	943.7	828.8		114.91	8.212
8,600.0	8,536.9	19,405.0	9,242.2	29.1	88.4	143.45	711.6	51.7	845.3	730.6		114.76	7.366
8,700.0	8,636.9	19,405.0	9,242.2	29.1	88.4	143.45	711.6	51.7	747.5	633.0		114.52	6.527
8,800.0	8,736.9	19,405.0	9,242.2	29.2	88.4	143.45	711.6	51.7	650.3	536.1		114.15	5.697
8,900.0	8,836.9	19,405.0	9,242.2	29.2	88.4	143.45	711.6	51.7	554.1	440.5		113.53	4.880
9,000.0	8,936.9	19,405.0	9,242.2	29.3	88.4	143.45	711.6	51.7	459.5	347.0		112.47	4.085
9,100.0	9,036.9	19,405.0	9,242.2	29.3	88.4	143.45	711.6	51.7	367.7	257.3		110.48	3.328
9,200.0	9,136.9	19,405.0	9,242.2	29.4	88.4	143.45	711.6	51.7	281.7	175.2		106.45	2.646 Normal Operations
9,300.0	9,236.9	19,405.0	9,242.2	29.4	88.4	143.45	711.6	51.7	208.5	110.6		97.92	2.129 Caution - Monitor Closely
9,400.0	9,336.9	19,405.0	9,242.2	29.5	88.4	143.45	711.6	51.7	166.1	80.0		86.11	1.929 Caution - Monitor Closely
9,429.4	9,366.2	19,405.0	9,242.2	29.5	88.4	143.45	711.6	51.7	163.5	78.4		85.14	1.921 Caution - Monitor Closely, CC, ES, SF
9,500.0	9,436.9	19,405.0	9,242.2	29.5	88.4	143.45	711.6	51.7	178.1	86.9		91.18	1.953 Caution - Monitor Closely
9,600.0	9,536.9	19,405.0	9,242.2	29.6	88.4	143.45	711.6	51.7	236.3	133.1		103.25	2.289 Caution - Monitor Closely
9,700.0	9,636.9	19,405.0	9,242.2	29.6	88.4	143.45	711.6	51.7	316.2	206.6		109.59	2.885 Normal Operations
9,800.0	9,736.9	19,405.0	9,242.2	29.7	88.4	143.45	711.6	51.7	405.1	292.5		112.61	3.597
9,900.0	9,836.9	19,405.0	9,242.2	29.7	88.4	143.45	711.6	51.7	498.2	384.0		114.21	4.362
10,000.0	9,936.9	19,405.0	9,242.2	29.8	88.4	143.45	711.6	51.7	593.6	478.4		115.16	5.155
10,100.0	10,036.9	19,405.0	9,242.2	29.9	88.4	143.45	711.6	51.7	690.3	574.5		115.78	5.962
10,200.0	10,136.9	19,405.0	9,242.2	29.9	88.4	143.45	711.6	51.7	787.8	671.6		116.22	6.779
10,300.0	10,236.9	19,405.0	9,242.2	30.0	88.4	143.45	711.6	51.7	885.8	769.3		116.55	7.600
10,400.0	10,336.9	19,405.0	9,242.2	30.0	88.4	143.45	711.6	51.7	984.3	867.5		116.82	8.426

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM #304H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 9409-MWD+IFR1+FDIR							Rule Assigned:						Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,200.0	9,136.9	20,380.0	9,987.7	29.4	90.5	-91.62	837.0	-256.6	993.7	873.7	120.02	8.279		
9,300.0	9,236.9	20,380.0	9,987.7	29.4	90.5	-91.62	837.0	-256.6	896.2	776.0	120.20	7.456		
9,400.0	9,336.9	20,380.0	9,987.7	29.5	90.5	-91.62	837.0	-256.6	799.4	679.0	120.41	6.639		
9,500.0	9,436.9	20,380.0	9,987.7	29.5	90.5	-91.62	837.0	-256.6	703.4	582.8	120.68	5.829		
9,600.0	9,536.9	20,380.0	9,987.7	29.6	90.5	-91.62	837.0	-256.6	608.8	487.7	121.04	5.030		
9,700.0	9,636.9	20,380.0	9,987.7	29.6	90.5	-91.62	837.0	-256.6	516.1	394.6	121.54	4.247		
9,800.0	9,736.9	20,380.0	9,987.7	29.7	90.5	-91.62	837.0	-256.6	426.8	304.5	122.31	3.490		
9,900.0	9,836.9	20,380.0	9,987.7	29.7	90.5	-91.62	837.0	-256.6	343.5	219.9	123.54	2.780	Normal Operations	
10,000.0	9,936.9	20,380.0	9,987.7	29.8	90.5	-91.62	837.0	-256.6	271.6	146.1	125.52	2.164	Caution - Monitor Closely	
10,100.0	10,036.9	20,380.0	9,987.7	29.9	90.5	-91.62	837.0	-256.6	222.6	94.6	127.96	1.740	Caution - Monitor Closely	
10,171.1	10,107.9	20,380.0	9,987.7	29.9	90.5	-91.62	837.0	-256.6	211.0	82.2	128.75	1.639	Caution - Monitor Closely, CC, ES, SF	
10,200.0	10,136.9	20,380.0	9,987.7	29.9	90.5	-91.62	837.0	-256.6	212.9	84.4	128.58	1.656	Caution - Monitor Closely	
10,300.0	10,236.9	20,380.0	9,987.7	30.0	90.5	-91.62	837.0	-256.6	247.2	120.7	126.50	1.955	Caution - Monitor Closely	
10,400.0	10,336.9	20,375.1	9,988.1	30.0	90.5	-92.95	832.1	-256.7	311.3	187.0	124.30	2.504	Normal Operations	
10,500.0	10,436.9	20,367.8	9,988.6	30.1	90.4	-94.90	824.9	-256.9	390.6	267.7	122.93	3.177		
10,600.0	10,536.9	20,360.6	9,989.1	30.1	90.4	-96.83	817.7	-257.1	477.6	355.5	122.16	3.910		
10,700.0	10,636.9	20,353.4	9,989.6	30.2	90.3	-98.74	810.5	-257.3	568.8	447.1	121.72	4.673		
10,800.0	10,736.9	20,346.1	9,990.2	30.2	90.2	-100.63	803.3	-257.5	662.5	541.1	121.46	5.455		
10,900.0	10,836.9	20,338.9	9,990.7	30.3	90.2	-102.49	796.1	-257.7	757.7	636.4	121.31	6.247		
11,000.0	10,936.9	20,331.6	9,991.2	30.3	90.1	-104.32	788.8	-257.9	854.0	732.8	121.22	7.045		
11,100.0	11,036.9	20,324.4	9,991.7	30.4	90.0	-106.12	781.6	-258.1	951.0	829.8	121.17	7.848		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design:		HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM #305H - OWB - AWP											Offset Site Error:		0.0 usft	
Survey Program:		100-Standard Keeper 104, 8955-MWD+IFR1+FDIR											Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
8,800.0	8,736.9	19,869.5	9,476.9	29.2	90.7	-90.40	840.7	-373.4	920.1	799.7	120.44	7.640				
8,900.0	8,836.9	19,869.5	9,476.9	29.2	90.7	-90.41	840.7	-373.4	827.4	706.6	120.80	6.849				
9,000.0	8,936.9	19,869.5	9,476.9	29.3	90.7	-90.41	840.7	-373.4	736.7	615.4	121.27	6.074				
9,100.0	9,036.9	19,869.5	9,476.9	29.3	90.7	-90.41	840.6	-373.4	648.6	526.7	121.90	5.321				
9,200.0	9,136.9	19,869.5	9,476.9	29.4	90.7	-90.42	840.6	-373.4	564.6	441.8	122.75	4.599				
9,300.0	9,236.9	19,869.4	9,476.9	29.4	90.7	-90.42	840.6	-373.4	486.6	362.7	123.92	3.927				
9,400.0	9,336.9	19,869.4	9,476.9	29.5	90.7	-90.42	840.6	-373.4	418.1	292.7	125.47	3.333				
9,500.0	9,436.9	19,869.4	9,476.9	29.5	90.7	-90.43	840.6	-373.4	364.5	237.3	127.27	2.864	Normal Operations			
9,600.0	9,536.9	19,869.4	9,476.9	29.6	90.7	-90.43	840.6	-373.4	333.1	204.4	128.70	2.588	Normal Operations			
9,659.8	9,596.6	19,869.4	9,476.9	29.6	90.7	-90.43	840.5	-373.4	327.7	198.7	128.98	2.541	Normal Operations, CC, ES, SF			
9,700.0	9,636.9	19,869.4	9,476.9	29.6	90.7	-90.43	840.5	-373.4	330.1	201.3	128.83	2.562	Normal Operations			
9,800.0	9,736.9	19,869.4	9,476.9	29.7	90.7	-90.43	840.5	-373.4	356.4	228.8	127.58	2.794	Normal Operations			
9,900.0	9,836.9	19,869.3	9,476.9	29.7	90.7	-90.44	840.5	-373.4	406.3	280.4	125.86	3.228				
10,000.0	9,936.9	19,869.3	9,476.9	29.8	90.7	-90.44	840.5	-373.4	472.4	348.0	124.39	3.797				
10,100.0	10,036.9	19,869.3	9,476.9	29.9	90.7	-90.44	840.5	-373.4	548.8	425.5	123.34	4.449				
10,200.0	10,136.9	19,869.3	9,476.9	29.9	90.7	-90.45	840.5	-373.4	631.8	509.2	122.63	5.152				
10,300.0	10,236.9	19,869.3	9,476.9	30.0	90.7	-90.45	840.4	-373.4	719.2	597.0	122.17	5.887				
10,400.0	10,336.9	19,869.2	9,476.9	30.0	90.7	-90.45	840.4	-373.4	809.5	687.6	121.88	6.642				
10,500.0	10,436.9	19,869.2	9,476.9	30.1	90.7	-90.46	840.4	-373.4	901.9	780.2	121.69	7.411				
10,600.0	10,536.9	19,869.2	9,476.9	30.1	90.7	-90.46	840.4	-373.4	995.7	874.1	121.59	8.189				

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	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	
Measured Depth	Reference	Offset	Semi Major Axis		Highside Toolface	Offset Wellbore Centre		Distance				Separation Factor	Warning				
Depth (usft)	Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)		Offset (usft)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)						
0.0	0.0	0.2	0.2	3.0	3.0	33.57	45.2	30.0	54.2								
100.0	100.0	100.2	100.2	3.1	3.1	33.57	45.2	30.0	54.2	47.6	6.62	8.196					
200.0	200.0	200.2	200.2	3.3	3.3	33.57	45.2	30.0	54.2	47.2	7.07	7.671					
300.0	300.0	300.2	300.2	3.5	3.5	33.57	45.2	30.0	54.2	46.8	7.50	7.234					
400.0	400.0	400.2	400.2	3.7	3.7	33.57	45.2	30.0	54.2	46.3	7.91	6.862					
500.0	500.0	500.2	500.2	3.9	3.9	33.57	45.2	30.0	54.2	46.0	8.29	6.541					
600.0	600.0	600.2	600.2	4.1	4.1	33.57	45.2	30.0	54.2	45.6	8.67	6.260					
700.0	700.0	700.2	700.2	4.3	4.3	33.57	45.2	30.0	54.2	45.2	9.03	6.010					
800.0	800.0	800.2	800.2	4.5	4.5	33.57	45.2	30.0	54.2	44.9	9.37	5.787					
900.0	900.0	900.2	900.2	4.7	4.7	33.57	45.2	30.0	54.2	44.5	9.71	5.586					
1,000.0	1,000.0	1,000.2	1,000.2	4.8	4.8	33.57	45.2	30.0	54.2	44.2	10.04	5.403					
1,100.0	1,100.0	1,100.2	1,100.2	5.0	5.0	33.57	45.2	30.0	54.2	43.9	10.36	5.237					
1,200.0	1,200.0	1,200.2	1,200.2	5.2	5.2	33.57	45.2	30.0	54.2	43.6	10.67	5.083					
1,300.0	1,300.0	1,300.2	1,300.2	5.3	5.3	33.57	45.2	30.0	54.2	43.3	10.98	4.942					
1,400.0	1,400.0	1,400.2	1,400.2	5.5	5.5	33.57	45.2	30.0	54.2	43.0	11.28	4.810					
1,466.6	1,466.6	1,466.8	1,466.8	5.6	5.6	33.57	45.2	30.0	54.2	42.8	11.47	4.729 CC					
1,500.0	1,500.0	1,500.0	1,500.0	5.6	5.6	33.57	45.2	30.0	54.3	42.7	11.57	4.689 ES					
1,600.0	1,600.0	1,598.3	1,598.3	5.8	5.8	24.21	46.4	31.2	55.2	43.2	11.93	4.622					
1,700.0	1,700.0	1,696.4	1,696.2	5.9	6.1	26.01	50.1	34.6	57.9	45.6	12.30	4.706					
1,800.0	1,799.9	1,794.2	1,793.7	6.1	6.3	28.64	56.2	40.3	62.5	49.8	12.68	4.932					
1,900.0	1,899.7	1,891.7	1,890.4	6.3	6.6	31.70	64.8	48.2	69.2	56.1	13.07	5.294					
2,000.0	1,999.4	1,988.7	1,986.3	6.5	6.9	34.84	75.6	58.4	78.0	64.5	13.48	5.786					
2,100.0	2,098.8	2,085.1	2,081.1	6.8	7.2	46.58	88.8	70.6	89.0	75.1	13.92	6.394					
2,200.0	2,197.9	2,182.7	2,176.4	7.1	7.4	55.59	104.0	84.8	101.9	87.6	14.29	7.134					
2,215.1	2,212.9	2,197.7	2,191.0	7.1	7.4	56.84	106.4	87.0	103.9	89.5	14.33	7.250					
2,300.0	2,296.7	2,281.5	2,272.8	7.3	7.7	60.67	119.6	99.4	115.1	100.4	14.67	7.845					
2,400.0	2,395.5	2,380.3	2,369.3	7.6	8.0	64.31	135.3	114.0	128.8	113.7	15.07	8.549					
2,500.0	2,494.2	2,479.0	2,465.7	7.9	8.3	67.25	150.9	128.6	142.9	127.5	15.47	9.239					
2,600.0	2,593.0	2,577.8	2,562.1	8.2	8.6	69.66	166.5	143.1	157.4	141.5	15.88	9.908					
2,700.0	2,691.8	2,676.5	2,658.5	8.5	8.9	71.66	182.2	157.7	172.0	155.7	16.30	10.553					
2,800.0	2,790.5	2,775.3	2,754.9	8.9	9.3	73.34	197.8	172.3	186.9	170.2	16.73	11.172					
2,900.0	2,889.3	2,874.0	2,851.3	9.2	9.6	74.78	213.4	186.9	201.9	184.7	17.16	11.762					
3,000.0	2,988.1	2,972.8	2,947.7	9.6	10.0	76.02	229.1	201.5	217.0	199.4	17.60	12.326					
3,100.0	3,086.8	3,071.5	3,044.1	9.9	10.4	77.10	244.7	216.0	232.1	214.1	18.05	12.862					
3,200.0	3,185.6	3,170.3	3,140.6	10.3	10.8	78.04	260.3	230.6	247.4	228.9	18.50	13.373					
3,300.0	3,284.4	3,269.0	3,237.0	10.7	11.2	78.88	276.0	245.2	262.7	243.7	18.95	13.858					
3,400.0	3,383.1	3,367.8	3,333.4	11.0	11.6	79.62	291.6	259.8	278.0	258.6	19.42	14.320					
3,500.0	3,481.9	3,466.5	3,429.8	11.4	12.0	80.28	307.2	274.3	293.4	273.5	19.88	14.758					
3,600.0	3,580.7	3,565.3	3,526.2	11.8	12.4	80.88	322.9	288.9	308.8	288.5	20.35	15.175					
3,700.0	3,679.5	3,664.1	3,622.6	12.2	12.8	81.43	338.5	303.5	324.3	303.5	20.83	15.572					
3,800.0	3,778.2	3,762.8	3,719.0	12.6	13.2	81.92	354.1	318.1	339.8	318.5	21.30	15.949					
3,900.0	3,877.0	3,861.6	3,815.5	13.0	13.6	82.37	369.8	332.6	355.3	333.5	21.79	16.308					
4,000.0	3,975.8	3,960.3	3,911.9	13.4	14.1	82.78	385.4	347.2	370.8	348.5	22.27	16.650					
4,100.0	4,074.5	4,059.1	4,008.3	13.8	14.5	83.16	401.0	361.8	386.4	363.6	22.76	16.976					
4,200.0	4,173.3	4,157.8	4,104.7	14.2	14.9	83.51	416.6	376.4	401.9	378.7	23.25	17.287					
4,300.0	4,272.1	4,256.6	4,201.1	14.6	15.4	83.83	432.3	391.0	417.5	393.7	23.74	17.583					
4,400.0	4,370.8	4,355.3	4,297.5	15.0	15.8	84.13	447.9	405.5	433.1	408.8	24.24	17.866					
4,500.0	4,469.6	4,454.1	4,393.9	15.4	16.2	84.41	463.5	420.1	448.7	423.9	24.74	18.136					
4,600.0	4,568.4	4,552.8	4,490.3	15.8	16.7	84.67	479.2	434.7	464.3	439.0	25.24	18.395					
4,700.0	4,667.1	4,651.6	4,586.8	16.2	17.1	84.92	494.8	449.3	479.9	454.1	25.74	18.642					
4,800.0	4,765.9	4,750.3	4,683.2	16.7	17.5	85.14	510.4	463.8	495.5	469.2	26.25	18.878					
4,900.0	4,864.7	4,849.1	4,779.6	17.1	18.0	85.36	526.1	478.4	511.1	484.4	26.75	19.104					

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	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	
Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,963.4	4,947.9	4,876.0	17.5	18.4	85.56	541.7	493.0	526.7	499.5	27.26	19.321		
5,100.0	5,062.2	5,046.6	4,972.4	17.9	18.9	85.75	557.3	507.6	542.4	514.6	27.77	19.530		
5,200.0	5,161.0	5,145.4	5,068.8	18.3	19.3	85.93	573.0	522.2	558.0	529.7	28.28	19.729		
5,300.0	5,259.8	5,244.1	5,165.2	18.8	19.8	86.10	588.6	536.7	573.7	544.9	28.80	19.921		
5,400.0	5,358.5	5,342.9	5,261.7	19.2	20.2	86.26	604.2	551.3	589.3	560.0	29.31	20.105		
5,500.0	5,457.3	5,441.6	5,358.1	19.6	20.7	86.41	619.9	565.9	605.0	575.2	29.83	20.282		
5,600.0	5,556.1	5,540.4	5,454.5	20.0	21.1	86.56	635.5	580.5	620.7	590.3	30.35	20.452		
5,700.0	5,654.8	5,639.1	5,550.9	20.5	21.6	86.70	651.1	595.0	636.3	605.5	30.87	20.616		
5,800.0	5,753.6	5,737.9	5,647.3	20.9	22.1	86.83	666.8	609.6	652.0	620.6	31.39	20.774		
5,900.0	5,852.4	5,836.6	5,743.7	21.3	22.5	86.95	682.4	624.2	667.7	635.8	31.91	20.925		
6,000.0	5,951.1	5,935.4	5,840.1	21.8	23.0	87.07	698.0	638.8	683.3	650.9	32.43	21.072		
6,100.0	6,049.9	6,034.2	5,936.5	22.2	23.4	87.18	713.7	653.3	699.0	666.1	32.95	21.213		
6,200.0	6,148.7	6,132.9	6,033.0	22.6	23.9	87.29	729.3	667.9	714.7	681.2	33.48	21.349		
6,300.0	6,247.4	6,231.7	6,129.4	23.1	24.3	87.40	744.9	682.5	730.4	696.4	33.99	21.486		
6,400.0	6,346.2	6,338.8	6,234.1	23.5	24.8	87.54	761.4	697.9	745.6	711.1	34.54	21.589		
6,500.0	6,445.0	6,448.5	6,341.8	23.9	25.3	87.78	776.9	712.3	759.5	724.4	35.07	21.657		
6,600.0	6,543.7	6,558.6	6,450.1	24.4	25.8	88.12	790.8	725.3	772.0	736.4	35.56	21.710		
6,700.0	6,642.5	6,668.9	6,559.1	24.8	26.3	88.55	803.3	736.9	783.1	747.1	36.00	21.751		
6,800.0	6,741.3	6,779.3	6,668.6	25.2	26.8	89.08	814.2	747.1	792.8	756.4	36.40	21.783		
6,859.4	6,800.0	6,845.0	6,733.8	25.5	27.0	89.43	820.0	752.5	798.0	761.4	36.59	21.806		
6,900.0	6,840.1	6,889.9	6,778.3	25.6	27.2	89.71	823.6	755.9	801.2	764.5	36.72	21.820		
7,000.0	6,939.1	7,000.5	6,888.5	26.1	27.6	90.37	831.5	763.2	808.3	771.3	37.04	21.824		
7,100.0	7,038.3	7,111.3	6,999.0	26.5	28.1	90.97	837.8	769.1	814.1	776.7	37.33	21.809		
7,200.0	7,137.7	7,222.2	7,109.7	26.9	28.4	91.52	842.6	773.6	818.5	780.9	37.59	21.776		
7,300.0	7,237.3	7,333.2	7,220.5	27.3	28.8	92.02	845.8	776.5	821.5	783.7	37.81	21.729		
7,400.0	7,337.1	7,444.1	7,331.4	27.6	29.1	92.48	847.4	778.0	823.2	785.2	37.96	21.689		
7,500.0	7,436.9	7,549.8	7,437.1	28.0	29.2	92.87	847.6	778.2	823.6	785.6	38.01	21.667		
7,600.0	7,536.9	7,649.8	7,537.1	28.3	29.2	93.13	847.6	778.2	823.8	785.8	38.07	21.639		
7,700.0	7,636.9	7,749.7	7,637.1	28.6	29.3	93.26	847.6	778.2	823.9	785.8	38.16	21.593		
7,759.4	7,696.3	7,809.2	7,696.5	28.6	29.3	89.68	847.6	778.2	824.0	785.7	38.21	21.564		
7,800.0	7,736.9	7,849.7	7,737.1	28.7	29.3	89.68	847.6	778.2	824.0	785.7	38.25	21.543		
7,900.0	7,836.9	7,949.7	7,837.1	28.7	29.3	89.68	847.6	778.2	824.0	785.6	38.36	21.479		
8,000.0	7,936.9	8,049.7	7,937.1	28.8	29.4	89.68	847.6	778.2	824.0	785.5	38.48	21.415		
8,100.0	8,036.9	8,149.7	8,037.1	28.8	29.4	89.68	847.6	778.2	824.0	785.4	38.59	21.351		
8,200.0	8,136.9	8,249.7	8,137.1	28.9	29.5	89.68	847.6	778.2	824.0	785.2	38.71	21.288		
8,300.0	8,236.9	8,349.7	8,237.1	28.9	29.5	89.68	847.6	778.2	824.0	785.1	38.82	21.224		
8,400.0	8,336.9	8,449.7	8,337.1	29.0	29.6	89.68	847.6	778.2	824.0	785.0	38.94	21.161		
8,500.0	8,436.9	8,549.7	8,437.1	29.0	29.6	89.68	847.6	778.2	824.0	784.9	39.05	21.098		
8,600.0	8,536.9	8,649.7	8,537.1	29.1	29.7	89.68	847.6	778.2	824.0	784.8	39.17	21.035		
8,700.0	8,636.9	8,749.7	8,637.1	29.1	29.7	89.68	847.6	778.2	824.0	784.7	39.29	20.973		
8,800.0	8,736.9	8,849.7	8,737.1	29.2	29.8	89.68	847.6	778.2	824.0	784.5	39.40	20.910		
8,900.0	8,836.9	8,949.7	8,837.1	29.2	29.8	89.68	847.6	778.2	824.0	784.4	39.52	20.848		
9,000.0	8,936.9	9,049.7	8,937.1	29.3	29.8	89.68	847.6	778.2	824.0	784.3	39.64	20.786		
9,100.0	9,036.9	9,149.7	9,037.1	29.3	29.9	89.68	847.6	778.2	824.0	784.2	39.76	20.724		
9,200.0	9,136.9	9,249.7	9,137.1	29.4	29.9	89.68	847.6	778.2	824.0	784.1	39.88	20.663		
9,300.0	9,236.9	9,349.7	9,237.1	29.4	30.0	89.68	847.6	778.2	824.0	784.0	39.99	20.602		
9,400.0	9,336.9	9,449.7	9,337.1	29.5	30.0	89.68	847.6	778.2	824.0	783.8	40.11	20.540		
9,500.0	9,436.9	9,549.7	9,437.1	29.5	30.1	89.68	847.6	778.2	824.0	783.7	40.23	20.479		
9,600.0	9,536.9	9,649.7	9,537.1	29.6	30.1	89.68	847.6	778.2	824.0	783.6	40.35	20.419		
9,700.0	9,636.9	9,749.7	9,637.1	29.6	30.2	89.68	847.6	778.2	824.0	783.5	40.47	20.358		
9,800.0	9,736.9	9,849.7	9,737.1	29.7	30.2	89.68	847.6	778.2	824.0	783.4	40.59	20.298		
9,900.0	9,836.9	9,949.7	9,837.1	29.7	30.3	89.68	847.6	778.2	824.0	783.2	40.71	20.238		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,000.0	9,936.9	10,049.7	9,937.1	29.8	30.3	89.68	847.6	778.2	824.0	783.1	40.83	20.178	
10,100.0	10,036.9	10,149.7	10,037.1	29.9	30.4	89.68	847.6	778.2	824.0	783.0	40.96	20.118	
10,200.0	10,136.9	10,249.7	10,137.1	29.9	30.4	89.68	847.6	778.2	824.0	782.9	41.08	20.059	
10,300.0	10,236.9	10,349.7	10,237.1	30.0	30.4	89.68	847.6	778.2	824.0	782.8	41.20	20.000	
10,400.0	10,336.9	10,449.7	10,337.1	30.0	30.5	89.68	847.6	778.2	824.0	782.6	41.32	19.941	
10,500.0	10,436.9	10,549.7	10,437.1	30.1	30.5	89.68	847.6	778.2	824.0	782.5	41.44	19.882	
10,600.0	10,536.9	10,649.7	10,537.1	30.1	30.6	89.68	847.6	778.2	824.0	782.4	41.56	19.823	
10,700.0	10,636.9	10,749.7	10,637.1	30.2	30.6	89.68	847.6	778.2	824.0	782.3	41.69	19.765	
10,800.0	10,736.9	10,849.7	10,737.1	30.2	30.7	89.68	847.6	778.2	824.0	782.1	41.81	19.707	
10,900.0	10,836.9	10,949.7	10,837.1	30.3	30.7	89.68	847.6	778.2	824.0	782.0	41.93	19.649	
11,000.0	10,936.9	11,049.7	10,937.1	30.3	30.8	89.68	847.6	778.2	824.0	781.9	42.06	19.591	
11,100.0	11,036.9	11,149.7	11,037.1	30.4	30.8	89.68	847.6	778.2	824.0	781.8	42.18	19.534	
11,200.0	11,136.9	11,249.7	11,137.1	30.5	30.9	89.68	847.6	778.2	824.0	781.6	42.30	19.477	
11,300.0	11,236.9	11,349.7	11,237.1	30.5	30.9	89.68	847.6	778.2	824.0	781.5	42.43	19.420	
11,400.0	11,336.9	11,449.7	11,337.1	30.6	31.0	89.68	847.6	778.2	824.0	781.4	42.55	19.363	
11,500.0	11,436.9	11,549.7	11,437.1	30.6	31.0	89.68	847.6	778.2	824.0	781.3	42.68	19.306	
11,600.0	11,536.9	11,649.7	11,537.1	30.7	31.1	89.68	847.6	778.2	824.0	781.1	42.80	19.250	
11,700.0	11,636.9	11,749.7	11,637.1	30.7	31.1	89.68	847.6	778.2	824.0	781.0	42.92	19.197	
11,705.0	11,641.9	11,754.7	11,642.1	30.7	31.1	89.68	847.6	778.2	824.0	781.0	42.93	19.194	
11,705.7	11,642.5	11,755.2	11,642.5	30.7	31.1	89.68	847.6	778.2	824.0	781.0	42.93	19.193	
11,725.0	11,661.9	11,772.1	11,659.4	30.7	31.1	-89.97	847.3	778.3	824.0	781.0	42.97	19.175	
11,750.0	11,686.8	11,793.6	11,680.9	30.6	31.1	-89.97	846.1	778.4	824.1	781.1	42.99	19.170	
11,775.0	11,711.6	11,815.2	11,702.4	30.5	31.0	-89.96	843.8	778.6	824.3	781.3	43.01	19.168	
11,800.0	11,736.2	11,836.8	11,723.7	30.5	31.0	-89.96	840.7	778.9	824.7	781.7	43.03	19.166	
11,825.0	11,760.6	11,858.4	11,745.0	30.4	30.9	-89.95	836.5	779.3	825.1	782.1	43.05	19.166	
11,850.0	11,784.7	11,880.1	11,766.0	30.2	30.9	-89.94	831.4	779.8	825.7	782.6	43.08	19.166	
11,875.0	11,808.3	11,901.8	11,786.8	30.1	30.8	-89.93	825.4	780.4	826.3	783.2	43.11	19.168	
11,900.0	11,831.5	11,925.0	11,808.8	30.0	30.7	-89.93	817.9	781.2	827.0	783.9	43.13	19.177	
11,925.0	11,854.2	11,945.2	11,827.6	29.9	30.7	-89.91	810.5	781.9	827.9	784.7	43.18	19.175	
11,950.0	11,876.3	11,967.0	11,847.5	29.8	30.6	-89.90	801.6	782.8	828.8	785.6	43.21	19.180	
11,975.0	11,897.8	11,988.9	11,867.0	29.7	30.5	-89.89	791.8	783.7	829.8	786.6	43.25	19.186	
12,000.0	11,918.6	12,010.8	11,886.1	29.6	30.5	-89.87	781.1	784.8	831.0	787.7	43.29	19.195	
12,025.0	11,938.6	12,032.8	11,904.7	29.5	30.4	-89.86	769.5	785.9	832.2	788.8	43.33	19.204	
12,050.0	11,957.8	12,054.8	11,922.9	29.4	30.3	-89.84	757.1	787.1	833.5	790.1	43.38	19.215	
12,075.0	11,976.1	12,076.9	11,940.5	29.3	30.3	-89.83	743.7	788.4	834.9	791.4	43.42	19.228	
12,100.0	11,993.5	12,100.0	11,958.1	29.2	30.2	-89.82	729.0	789.9	836.3	792.9	43.45	19.248	
12,125.0	12,010.0	12,121.4	11,973.9	29.1	30.1	-89.79	714.5	791.3	837.9	794.4	43.51	19.259	
12,150.0	12,025.4	12,143.8	11,989.6	29.0	30.1	-89.77	698.7	792.8	839.5	796.0	43.55	19.277	
12,175.0	12,039.8	12,166.3	12,004.7	28.9	30.0	-89.76	682.1	794.5	841.2	797.6	43.59	19.297	
12,200.0	12,053.2	12,188.9	12,019.0	28.9	30.0	-89.74	664.7	796.2	843.0	799.3	43.64	19.319	
12,225.0	12,065.4	12,211.6	12,032.6	28.8	29.9	-89.72	646.5	798.0	844.8	801.1	43.68	19.342	
12,250.0	12,076.4	12,234.5	12,045.3	28.7	29.9	-89.70	627.6	799.8	846.7	803.0	43.72	19.368	
12,275.0	12,086.2	12,257.5	12,057.2	28.7	29.9	-89.68	608.1	801.7	848.7	804.9	43.76	19.396	
12,300.0	12,094.8	12,280.6	12,068.1	28.6	29.8	-89.67	587.8	803.7	850.7	806.9	43.79	19.425	
12,325.0	12,102.2	12,303.8	12,078.2	28.6	29.8	-89.65	566.9	805.8	852.7	808.9	43.83	19.457	
12,350.0	12,108.4	12,327.3	12,087.2	28.6	29.8	-89.63	545.5	807.9	854.9	811.0	43.86	19.490	
12,375.0	12,113.2	12,350.8	12,095.3	28.5	29.7	-89.62	523.4	810.0	857.0	813.1	43.89	19.525	
12,400.0	12,116.8	12,374.6	12,102.2	28.5	29.7	-89.60	500.8	812.2	859.2	815.3	43.92	19.562	
12,425.0	12,119.0	12,398.5	12,108.1	28.5	29.7	-89.59	477.8	814.5	861.4	817.5	43.95	19.601	
12,450.0	12,120.0	12,422.6	12,112.9	28.5	29.7	-89.58	454.2	816.8	863.6	819.7	43.97	19.641	
12,455.7	12,120.0	12,428.1	12,113.8	28.5	29.7	-89.57	448.8	817.3	864.2	820.2	43.98	19.650	
12,500.0	12,120.0	12,471.6	12,118.8	28.5	29.7	-89.91	405.9	821.6	868.2	824.2	44.03	19.718	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	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		Semi Major Axis			Offset Wellbore Centre		Distance				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
12,600.0	12,120.0	12,600.1	12,120.0	28.5	29.8	-89.99	277.8	832.5	876.3	832.3	43.91	19.957		
12,700.0	12,120.0	12,744.3	12,120.0	28.5	30.0	-89.99	133.8	838.2	879.6	835.8	43.75	20.103		
12,800.0	12,120.0	12,851.4	12,120.0	28.5	30.2	-89.99	26.7	839.0	879.7	835.5	44.13	19.934		
12,900.0	12,120.0	12,951.4	12,120.0	28.5	30.3	-89.99	-73.3	839.6	879.7	835.0	44.66	19.696		
13,000.0	12,120.0	13,051.4	12,120.0	28.5	30.5	-89.99	-173.3	840.2	879.7	834.4	45.27	19.431		
13,100.0	12,120.0	13,151.4	12,120.0	28.5	30.7	-89.99	-273.3	840.8	879.7	833.7	45.95	19.143		
13,200.0	12,120.0	13,251.4	12,120.0	28.5	30.9	-89.99	-373.3	841.4	879.7	833.0	46.70	18.836		
13,300.0	12,120.0	13,351.4	12,120.0	28.5	31.1	-89.99	-473.3	842.1	879.7	832.2	47.52	18.513		
13,400.0	12,120.0	13,451.4	12,120.0	28.6	31.3	-89.99	-573.3	842.7	879.7	831.3	48.39	18.178		
13,500.0	12,120.0	13,551.4	12,120.0	28.6	31.6	-89.99	-673.3	843.3	879.7	830.4	49.33	17.834		
13,600.0	12,120.0	13,651.4	12,120.0	28.6	31.9	-89.99	-773.3	843.9	879.7	829.4	50.32	17.483		
13,700.0	12,120.0	13,751.4	12,120.0	28.6	32.2	-89.99	-873.3	844.5	879.7	828.3	51.36	17.129		
13,800.0	12,120.0	13,851.4	12,120.0	28.6	32.5	-89.99	-973.3	845.1	879.7	827.2	52.45	16.773		
13,900.0	12,120.0	13,951.4	12,120.0	28.7	32.9	-89.99	-1,073.3	845.7	879.7	826.1	53.58	16.417		
14,000.0	12,120.0	14,051.4	12,120.0	28.7	33.3	-89.99	-1,173.3	846.4	879.7	824.9	54.76	16.064		
14,100.0	12,120.0	14,151.4	12,120.0	28.7	33.7	-89.99	-1,273.3	847.0	879.7	823.7	55.98	15.714		
14,200.0	12,120.0	14,251.4	12,120.0	28.8	34.1	-89.99	-1,373.3	847.6	879.7	822.5	57.24	15.369		
14,300.0	12,120.0	14,351.4	12,120.0	28.8	34.6	-89.99	-1,473.3	848.2	879.7	821.2	58.53	15.030		
14,400.0	12,120.0	14,451.4	12,120.0	28.9	35.0	-89.99	-1,573.3	848.8	879.7	819.9	59.85	14.698		
14,500.0	12,120.0	14,551.4	12,120.0	29.0	35.5	-89.99	-1,673.3	849.4	879.7	818.5	61.21	14.372		
14,600.0	12,120.0	14,651.4	12,120.0	29.2	36.0	-89.99	-1,773.3	850.1	879.7	817.1	62.59	14.055		
14,700.0	12,120.0	14,751.4	12,120.0	29.8	36.6	-89.99	-1,873.3	850.7	879.7	815.7	64.00	13.745		
14,800.0	12,120.0	14,851.4	12,120.0	30.5	37.1	-89.99	-1,973.3	851.3	879.7	814.3	65.44	13.443		
14,900.0	12,120.0	14,951.4	12,120.0	31.3	37.7	-89.99	-2,073.3	851.9	879.7	812.8	66.90	13.150		
15,000.0	12,120.0	15,051.4	12,120.0	32.1	38.3	-89.99	-2,173.3	852.5	879.7	811.4	68.38	12.866		
15,100.0	12,120.0	15,151.4	12,120.0	32.9	38.9	-89.99	-2,273.3	853.1	879.7	809.9	69.88	12.589		
15,200.0	12,120.0	15,251.4	12,120.0	33.8	39.6	-89.99	-2,373.3	853.7	879.7	808.3	71.40	12.321		
15,300.0	12,120.0	15,351.4	12,120.0	34.6	40.2	-89.99	-2,473.3	854.4	879.7	806.8	72.94	12.061		
15,400.0	12,120.0	15,451.4	12,120.0	35.4	40.9	-89.99	-2,573.3	855.0	879.8	805.3	74.50	11.809		
15,500.0	12,120.0	15,551.4	12,120.0	36.3	41.6	-89.99	-2,673.3	855.6	879.8	803.7	76.07	11.565		
15,600.0	12,120.0	15,651.4	12,120.0	37.1	42.3	-89.99	-2,773.3	856.2	879.8	802.1	77.65	11.329		
15,700.0	12,120.0	15,751.4	12,120.0	38.0	43.0	-89.99	-2,873.3	856.8	879.8	800.5	79.25	11.101		
15,800.0	12,120.0	15,851.4	12,120.0	38.8	43.7	-89.99	-2,973.3	857.4	879.8	798.9	80.87	10.879		
15,900.0	12,120.0	15,951.4	12,120.0	39.7	44.4	-89.99	-3,073.3	858.1	879.8	797.3	82.49	10.665		
16,000.0	12,120.0	16,051.4	12,120.0	40.6	45.1	-89.99	-3,173.3	858.7	879.8	795.6	84.13	10.457		
16,100.0	12,120.0	16,151.4	12,120.0	41.5	45.9	-89.99	-3,273.3	859.3	879.8	794.0	85.78	10.256		
16,200.0	12,120.0	16,251.4	12,120.0	42.3	46.7	-89.99	-3,373.3	859.9	879.8	792.3	87.44	10.062		
16,300.0	12,120.0	16,351.4	12,120.0	43.2	47.4	-89.99	-3,473.3	860.5	879.8	790.7	89.11	9.873		
16,400.0	12,120.0	16,451.4	12,120.0	44.1	48.2	-89.99	-3,573.3	861.1	879.8	789.0	90.78	9.691		
16,500.0	12,120.0	16,551.4	12,120.0	45.0	49.0	-89.99	-3,673.3	861.7	879.8	787.3	92.47	9.514		
16,600.0	12,120.0	16,651.4	12,120.0	45.9	49.8	-89.99	-3,773.3	862.4	879.8	785.6	94.16	9.343		
16,700.0	12,120.0	16,751.4	12,120.0	46.8	50.6	-89.99	-3,873.3	863.0	879.8	783.9	95.87	9.177		
16,800.0	12,120.0	16,851.4	12,120.0	47.7	51.4	-89.99	-3,973.3	863.6	879.8	782.2	97.58	9.016		
16,900.0	12,120.0	16,951.4	12,120.0	48.6	52.2	-89.99	-4,073.3	864.2	879.8	780.5	99.29	8.861		
17,000.0	12,120.0	17,051.4	12,120.0	49.5	53.0	-89.99	-4,173.3	864.8	879.8	778.8	101.02	8.709		
17,100.0	12,120.0	17,151.4	12,120.0	50.4	53.8	-89.99	-4,273.3	865.4	879.8	777.1	102.75	8.563		
17,200.0	12,120.0	17,251.4	12,120.0	51.3	54.7	-89.99	-4,373.3	866.1	879.8	775.3	104.48	8.421		
17,300.0	12,120.0	17,351.4	12,120.0	52.2	55.5	-89.99	-4,473.3	866.7	879.8	773.6	106.22	8.283		
17,400.0	12,120.0	17,451.4	12,120.0	53.1	56.3	-89.99	-4,573.3	867.3	879.8	771.9	107.97	8.149		
17,500.0	12,120.0	17,551.4	12,120.0	54.0	57.2	-89.99	-4,673.3	867.9	879.8	770.1	109.72	8.019		
17,600.0	12,120.0	17,651.4	12,120.0	54.9	58.0	-89.99	-4,773.3	868.5	879.8	768.4	111.48	7.892		
17,700.0	12,120.0	17,751.4	12,120.0	55.9	58.9	-89.99	-4,873.3	869.1	879.8	766.6	113.24	7.769		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	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		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
17,800.0	12,120.0	17,851.4	12,120.0	56.8	59.7	-89.99	-4,973.3	869.8	879.8	764.8	115.01	7.650		
17,900.0	12,120.0	17,951.4	12,120.0	57.7	60.6	-89.99	-5,073.3	870.4	879.8	763.1	116.78	7.534		
18,000.0	12,120.0	18,051.4	12,120.0	58.6	61.4	-89.99	-5,173.2	871.0	879.9	761.3	118.55	7.422		
18,100.0	12,120.0	18,151.4	12,120.0	59.5	62.3	-89.99	-5,273.2	871.6	879.9	759.5	120.33	7.312		
18,200.0	12,120.0	18,251.4	12,120.0	60.5	63.2	-89.99	-5,373.2	872.2	879.9	757.7	122.11	7.205		
18,300.0	12,120.0	18,351.4	12,120.0	61.4	64.1	-89.99	-5,473.2	872.8	879.9	756.0	123.90	7.101		
18,400.0	12,120.0	18,451.4	12,120.0	62.3	64.9	-89.99	-5,573.2	873.4	879.9	754.2	125.69	7.000		
18,500.0	12,120.0	18,551.4	12,120.0	63.2	65.8	-89.99	-5,673.2	874.1	879.9	752.4	127.48	6.902		
18,600.0	12,120.0	18,651.4	12,120.0	64.2	66.7	-89.99	-5,773.2	874.7	879.9	750.6	129.28	6.806		
18,700.0	12,120.0	18,751.4	12,120.0	65.1	67.6	-89.99	-5,873.2	875.3	879.9	748.8	131.08	6.713		
18,800.0	12,120.0	18,851.4	12,120.0	66.0	68.5	-89.99	-5,973.2	875.9	879.9	747.0	132.88	6.622		
18,900.0	12,120.0	18,951.4	12,120.0	67.0	69.3	-89.99	-6,073.2	876.5	879.9	745.2	134.68	6.533		
19,000.0	12,120.0	19,051.4	12,120.0	67.9	70.2	-89.99	-6,173.2	877.1	879.9	743.4	136.49	6.447		
19,100.0	12,120.0	19,151.4	12,120.0	68.8	71.1	-89.99	-6,273.2	877.8	879.9	741.6	138.30	6.362		
19,200.0	12,120.0	19,251.4	12,120.0	69.8	72.0	-89.99	-6,373.2	878.4	879.9	739.8	140.11	6.280		
19,300.0	12,120.0	19,351.4	12,120.0	70.7	72.9	-89.99	-6,473.2	879.0	879.9	738.0	141.92	6.200		
19,400.0	12,120.0	19,451.4	12,120.0	71.6	73.8	-89.99	-6,573.2	879.6	879.9	736.2	143.74	6.121		
19,500.0	12,120.0	19,551.4	12,120.0	72.6	74.7	-89.99	-6,673.2	880.2	879.9	734.3	145.56	6.045		
19,600.0	12,120.0	19,651.4	12,120.0	73.5	75.6	-89.99	-6,773.2	880.8	879.9	732.5	147.38	5.970		
19,700.0	12,120.0	19,751.4	12,120.0	74.4	76.5	-89.99	-6,873.2	881.4	879.9	730.7	149.20	5.897		
19,800.0	12,120.0	19,851.4	12,120.0	75.4	77.4	-89.99	-6,973.2	882.1	879.9	728.9	151.03	5.826		
19,900.0	12,120.0	19,951.4	12,120.0	76.3	78.3	-89.99	-7,073.2	882.7	879.9	727.1	152.85	5.757		
20,000.0	12,120.0	20,051.4	12,120.0	77.3	79.2	-89.99	-7,173.2	883.3	879.9	725.2	154.68	5.689		
20,100.0	12,120.0	20,151.4	12,120.0	78.2	80.2	-89.99	-7,273.2	883.9	879.9	723.4	156.51	5.622		
20,200.0	12,120.0	20,251.4	12,120.0	79.1	81.1	-89.99	-7,373.2	884.5	879.9	721.6	158.34	5.557		
20,300.0	12,120.0	20,351.4	12,120.0	80.1	82.0	-89.99	-7,473.2	885.1	879.9	719.8	160.18	5.493		
20,400.0	12,120.0	20,451.4	12,120.0	81.0	82.9	-89.99	-7,573.2	885.8	879.9	717.9	162.01	5.431		
20,500.0	12,120.0	20,551.4	12,120.0	82.0	83.8	-89.99	-7,673.2	886.4	879.9	716.1	163.85	5.370		
20,600.0	12,120.0	20,651.4	12,120.0	82.9	84.7	-89.99	-7,773.2	887.0	879.9	714.3	165.69	5.311		
20,700.0	12,120.0	20,751.4	12,120.0	83.9	85.6	-89.99	-7,873.2	887.6	880.0	712.4	167.53	5.253		
20,800.0	12,120.0	20,851.4	12,120.0	84.8	86.6	-89.99	-7,973.2	888.2	880.0	710.6	169.37	5.196		
20,900.0	12,120.0	20,951.4	12,120.0	85.7	87.5	-89.99	-8,073.2	888.8	880.0	708.7	171.21	5.140		
21,000.0	12,120.0	21,051.4	12,120.0	86.7	88.4	-89.99	-8,173.2	889.4	880.0	706.9	173.05	5.085		
21,100.0	12,120.0	21,151.4	12,120.0	87.6	89.3	-89.99	-8,273.2	890.1	880.0	705.1	174.90	5.031		
21,200.0	12,120.0	21,251.4	12,120.0	88.6	90.2	-89.99	-8,373.2	890.7	880.0	703.2	176.74	4.979		
21,300.0	12,120.0	21,351.4	12,120.0	89.5	91.2	-89.99	-8,473.2	891.3	880.0	701.4	178.59	4.927		
21,400.0	12,120.0	21,451.4	12,120.0	90.5	92.1	-89.99	-8,573.2	891.9	880.0	699.5	180.44	4.877		
21,500.0	12,120.0	21,551.4	12,120.0	91.4	93.0	-89.99	-8,673.2	892.5	880.0	697.7	182.29	4.827		
21,600.0	12,120.0	21,651.4	12,120.0	92.4	93.9	-89.99	-8,773.2	893.1	880.0	695.8	184.14	4.779		
21,700.0	12,120.0	21,751.4	12,120.0	93.3	94.9	-89.99	-8,873.2	893.8	880.0	694.0	185.99	4.731		
21,800.0	12,120.0	21,851.4	12,120.0	94.3	95.8	-89.99	-8,973.2	894.4	880.0	692.2	187.84	4.685		
21,900.0	12,120.0	21,951.4	12,120.0	95.2	96.7	-89.99	-9,073.2	895.0	880.0	690.3	189.70	4.639		
22,000.0	12,120.0	22,051.4	12,120.0	96.2	97.6	-89.99	-9,173.2	895.6	880.0	688.5	191.55	4.594		
22,100.0	12,120.0	22,151.4	12,120.0	97.1	98.6	-89.99	-9,273.2	896.2	880.0	686.6	193.41	4.550		
22,200.0	12,120.0	22,251.4	12,120.0	98.1	99.5	-89.99	-9,373.2	896.8	880.0	684.7	195.26	4.507		
22,300.0	12,120.0	22,351.4	12,120.0	99.0	100.4	-89.99	-9,473.2	897.5	880.0	682.9	197.12	4.464		
22,400.0	12,120.0	22,451.4	12,120.0	100.0	101.4	-89.99	-9,573.2	898.1	880.0	681.0	198.98	4.423		
22,500.0	12,120.0	22,551.4	12,120.0	100.9	102.3	-89.99	-9,673.2	898.7	880.0	679.2	200.84	4.382		
22,501.5	12,120.0	22,552.9	12,120.0	100.9	102.3	-89.99	-9,674.7	898.7	880.0	679.2	200.86	4.381		
22,519.8	12,120.0	22,570.4	12,120.0	101.1	102.5	-89.99	-9,692.1	898.8	880.0	678.8	201.20	4.374 SF		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 703H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.2	0.2	3.0	3.0	89.62	0.2	30.0	30.0				
100.0	100.0	100.2	100.2	3.1	3.1	89.62	0.2	30.0	30.0	23.4	6.62	4.532	
200.0	200.0	200.2	200.2	3.3	3.3	89.62	0.2	30.0	30.0	22.9	7.07	4.242	
300.0	300.0	300.2	300.2	3.5	3.5	89.62	0.2	30.0	30.0	22.5	7.50	4.000	
400.0	400.0	400.2	400.2	3.7	3.7	89.62	0.2	30.0	30.0	22.1	7.91	3.795	
500.0	500.0	500.2	500.2	3.9	3.9	89.62	0.2	30.0	30.0	21.7	8.29	3.617	
600.0	600.0	600.2	600.2	4.1	4.1	89.62	0.2	30.0	30.0	21.3	8.67	3.462	
700.0	700.0	700.2	700.2	4.3	4.3	89.62	0.2	30.0	30.0	21.0	9.03	3.324	
800.0	800.0	800.2	800.2	4.5	4.5	89.62	0.2	30.0	30.0	20.6	9.37	3.200	
900.0	900.0	900.2	900.2	4.7	4.7	89.62	0.2	30.0	30.0	20.3	9.71	3.089	
1,000.0	1,000.0	1,000.2	1,000.2	4.8	4.8	89.62	0.2	30.0	30.0	20.0	10.04	2.988	Normal Operations
1,100.0	1,100.0	1,100.2	1,100.2	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	1,200.2	1,200.2	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	1,300.2	1,300.2	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	1,400.2	1,400.2	5.5	5.5	89.62	0.2	30.0	30.0	18.7	11.28	2.660	Normal Operations
1,466.6	1,466.6	1,466.8	1,466.8	5.6	5.6	89.62	0.2	30.0	30.0	18.5	11.47	2.615	Normal Operations, CC
1,500.0	1,500.0	1,500.2	1,500.2	5.6	5.6	89.62	0.2	30.0	30.0	18.4	11.57	2.593	Normal Operations, ES
1,600.0	1,600.0	1,600.0	1,600.0	5.8	5.8	78.09	1.9	30.5	30.4	18.5	11.87	2.560	Normal Operations, SF
1,700.0	1,700.0	1,699.5	1,699.3	5.9	6.1	73.78	6.8	32.0	31.6	19.5	12.16	2.599	Normal Operations
1,800.0	1,799.9	1,798.9	1,798.3	6.1	6.3	67.38	15.1	34.6	34.0	21.6	12.48	2.728	Normal Operations
1,900.0	1,899.7	1,898.0	1,896.7	6.3	6.6	59.95	26.6	38.1	38.0	25.2	12.83	2.963	Normal Operations
2,000.0	1,999.4	1,996.7	1,994.3	6.5	6.9	52.56	41.3	42.6	43.9	30.6	13.23	3.315	
2,100.0	2,098.8	2,095.1	2,090.8	6.8	7.2	55.25	59.1	48.0	51.9	38.2	13.68	3.791	
2,200.0	2,197.9	2,193.8	2,187.1	7.1	7.4	57.22	79.8	54.3	61.7	47.6	14.06	4.387	
2,215.1	2,212.9	2,208.8	2,201.8	7.1	7.5	57.63	83.1	55.3	63.2	49.1	14.11	4.477	
2,300.0	2,296.7	2,293.3	2,284.1	7.3	7.7	57.32	101.2	60.9	71.4	56.9	14.49	4.926	
2,400.0	2,395.5	2,392.8	2,381.1	7.6	8.0	57.04	122.7	67.4	81.0	66.1	14.94	5.423	
2,500.0	2,494.2	2,492.4	2,478.0	7.9	8.3	56.82	144.1	74.0	90.7	75.3	15.42	5.882	
2,600.0	2,593.0	2,591.9	2,575.0	8.2	8.7	56.63	165.5	80.5	100.4	84.5	15.91	6.307	
2,700.0	2,691.8	2,691.4	2,672.0	8.5	9.0	56.48	186.9	87.1	110.0	93.6	16.42	6.700	
2,800.0	2,790.5	2,791.0	2,769.0	8.9	9.4	56.36	208.3	93.6	119.7	102.8	16.95	7.063	
2,900.0	2,889.3	2,890.5	2,866.0	9.2	9.7	56.25	229.7	100.2	129.4	111.9	17.48	7.399	
3,000.0	2,988.1	2,990.0	2,962.9	9.6	10.1	56.16	251.1	106.7	139.0	121.0	18.03	7.709	
3,100.0	3,086.8	3,089.6	3,059.9	9.9	10.5	56.08	272.5	113.3	148.7	130.1	18.60	7.996	
3,200.0	3,185.6	3,189.1	3,156.9	10.3	10.9	56.01	293.9	119.8	158.4	139.2	19.17	8.262	
3,300.0	3,284.4	3,288.6	3,253.9	10.7	11.3	55.95	315.4	126.4	168.0	148.3	19.75	8.509	
3,400.0	3,383.1	3,388.2	3,350.9	11.0	11.7	55.90	336.8	132.9	177.7	157.4	20.34	8.738	
3,500.0	3,481.9	3,487.7	3,447.8	11.4	12.1	55.85	358.2	139.4	187.4	166.4	20.93	8.951	
3,600.0	3,580.7	3,587.2	3,544.8	11.8	12.5	55.80	379.6	146.0	197.0	175.5	21.54	9.149	
3,700.0	3,679.5	3,686.8	3,641.8	12.2	13.0	55.76	401.0	152.5	206.7	184.6	22.15	9.333	
3,800.0	3,778.2	3,786.3	3,738.8	12.6	13.4	55.72	422.4	159.1	216.4	193.6	22.76	9.505	
3,900.0	3,877.0	3,885.8	3,835.8	13.0	13.8	55.69	443.8	165.6	226.0	202.7	23.39	9.666	
4,000.0	3,975.8	3,985.3	3,932.7	13.4	14.3	55.66	465.2	172.2	235.7	211.7	24.01	9.816	
4,100.0	4,074.5	4,084.9	4,029.7	13.8	14.7	55.63	486.7	178.7	245.4	220.7	24.64	9.957	
4,200.0	4,173.3	4,184.4	4,126.7	14.2	15.1	55.60	508.1	185.3	255.1	229.8	25.28	10.089	
4,300.0	4,272.1	4,283.9	4,223.7	14.6	15.6	55.58	529.5	191.8	264.7	238.8	25.92	10.213	
4,400.0	4,370.8	4,383.5	4,320.7	15.0	16.0	55.56	550.9	198.4	274.4	247.8	26.56	10.329	
4,500.0	4,469.6	4,483.0	4,417.6	15.4	16.5	55.54	572.3	204.9	284.1	256.8	27.21	10.439	
4,600.0	4,568.4	4,582.5	4,514.6	15.8	16.9	55.52	593.7	211.5	293.7	265.9	27.86	10.543	
4,700.0	4,667.1	4,682.1	4,611.6	16.2	17.4	55.50	615.1	218.0	303.4	274.9	28.51	10.640	
4,800.0	4,765.9	4,781.6	4,708.6	16.7	17.8	55.48	636.5	224.5	313.1	283.9	29.17	10.733	
4,900.0	4,864.7	4,881.1	4,805.6	17.1	18.3	55.46	657.9	231.1	322.7	292.9	29.83	10.820	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 703H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,963.4	4,980.7	4,902.5	17.5	18.7	55.45	679.4	237.6	332.4	301.9	30.49	10.903	
5,100.0	5,062.2	5,080.2	4,999.5	17.9	19.2	55.43	700.8	244.2	342.1	310.9	31.14	10.984	
5,200.0	5,161.0	5,184.9	5,101.8	18.3	19.6	55.51	722.4	250.8	351.0	319.2	31.82	11.030	
5,300.0	5,259.8	5,290.0	5,204.7	18.8	20.1	55.76	742.3	256.9	358.5	326.0	32.45	11.047	
5,400.0	5,358.5	5,395.1	5,308.2	19.2	20.6	56.18	760.4	262.4	364.4	331.4	33.01	11.040	
5,500.0	5,457.3	5,500.4	5,412.1	19.6	21.0	56.76	776.8	267.4	368.9	335.4	33.50	11.013	
5,600.0	5,556.1	5,605.7	5,516.3	20.0	21.5	57.50	791.3	271.9	372.0	338.1	33.91	10.969	
5,700.0	5,654.8	5,711.0	5,620.7	20.5	21.9	58.42	803.9	275.7	373.7	339.4	34.25	10.912	
5,800.0	5,753.6	5,816.1	5,725.2	20.9	22.3	59.50	814.7	279.0	374.0	339.6	34.49	10.846	
5,900.0	5,852.4	5,921.1	5,829.8	21.3	22.7	60.78	823.7	281.8	373.1	338.5	34.63	10.775	
6,000.0	5,951.1	6,025.8	5,934.2	21.8	23.1	62.25	830.8	283.9	371.0	336.3	34.66	10.705	
6,100.0	6,049.9	6,130.1	6,038.4	22.2	23.5	63.94	836.1	285.5	367.8	333.2	34.56	10.641	
6,200.0	6,148.7	6,234.1	6,142.3	22.6	23.8	65.86	839.5	286.6	363.6	329.2	34.33	10.590	
6,300.0	6,247.4	6,337.6	6,245.8	23.1	24.0	68.03	841.1	287.1	358.5	324.6	33.93	10.567	
6,400.0	6,346.2	6,438.2	6,346.4	23.5	24.1	70.39	841.3	287.2	353.0	319.7	33.36	10.583	
6,500.0	6,445.0	6,537.0	6,445.2	23.9	24.2	72.79	841.3	287.2	348.0	315.3	32.77	10.622	
6,600.0	6,543.7	6,635.7	6,543.9	24.4	24.2	75.25	841.3	287.2	343.7	311.5	32.16	10.687	
6,700.0	6,642.5	6,734.5	6,642.7	24.8	24.3	77.77	841.3	287.2	340.0	308.4	31.56	10.773	
6,800.0	6,741.3	6,833.3	6,741.5	25.2	24.3	80.34	841.3	287.2	337.0	306.0	30.98	10.877	
6,859.4	6,800.0	6,892.0	6,800.2	25.5	24.3	81.89	841.3	287.2	335.5	304.9	30.64	10.949	
6,900.0	6,840.1	6,932.1	6,840.3	25.6	24.3	82.92	841.3	287.2	334.7	304.3	30.43	10.999	
7,000.0	6,939.1	7,031.1	6,939.3	26.1	24.4	85.28	841.3	287.2	333.2	303.2	30.02	11.100	
7,100.0	7,038.3	7,130.3	7,038.5	26.5	24.4	87.38	841.3	287.2	332.4	302.7	29.74	11.178	
7,200.0	7,137.7	7,229.7	7,137.9	26.9	24.5	89.20	841.3	287.2	332.1	302.5	29.57	11.231	
7,250.3	7,187.9	7,279.9	7,188.1	27.1	24.5	90.00	841.3	287.2	332.1	302.6	29.52	11.248	
7,300.0	7,237.3	7,329.3	7,237.5	27.3	24.5	90.72	841.3	287.2	332.1	302.6	29.50	11.259	
7,400.0	7,337.1	7,429.1	7,337.3	27.6	24.6	91.95	841.3	287.2	332.3	302.8	29.50	11.265	
7,500.0	7,436.9	7,528.9	7,437.1	28.0	24.6	92.88	841.3	287.2	332.5	302.9	29.55	11.250	
7,600.0	7,536.9	7,628.9	7,537.1	28.3	24.7	93.51	841.3	287.2	332.7	303.0	29.65	11.220	
7,700.0	7,636.9	7,728.9	7,637.1	28.6	24.7	93.84	841.3	287.2	332.8	303.0	29.78	11.176	
7,759.4	7,696.3	7,788.3	7,696.5	28.6	24.8	90.29	841.3	287.2	332.8	303.0	29.85	11.150	
7,800.0	7,736.9	7,828.9	7,737.1	28.7	24.8	90.29	841.3	287.2	332.8	302.9	29.90	11.132	
7,900.0	7,836.9	7,928.9	7,837.1	28.7	24.8	90.29	841.3	287.2	332.8	302.8	30.05	11.076	
8,000.0	7,936.9	8,028.9	7,937.1	28.8	24.9	90.29	841.3	287.2	332.8	302.6	30.20	11.021	
8,100.0	8,036.9	8,128.9	8,037.1	28.8	24.9	90.29	841.3	287.2	332.8	302.5	30.35	10.966	
8,200.0	8,136.9	8,228.9	8,137.1	28.9	25.0	90.29	841.3	287.2	332.8	302.3	30.50	10.911	
8,300.0	8,236.9	8,328.9	8,237.1	28.9	25.0	90.29	841.3	287.2	332.8	302.2	30.66	10.857	
8,400.0	8,336.9	8,428.9	8,337.1	29.0	25.1	90.29	841.3	287.2	332.8	302.0	30.81	10.804	
8,500.0	8,436.9	8,528.9	8,437.1	29.0	25.1	90.29	841.3	287.2	332.8	301.9	30.96	10.751	
8,600.0	8,536.9	8,628.9	8,537.1	29.1	25.2	90.29	841.3	287.2	332.8	301.7	31.11	10.699	
8,700.0	8,636.9	8,728.9	8,637.1	29.1	25.2	90.29	841.3	287.2	332.8	301.6	31.26	10.647	
8,800.0	8,736.9	8,828.9	8,737.1	29.2	25.3	90.29	841.3	287.2	332.8	301.4	31.41	10.595	
8,900.0	8,836.9	8,928.9	8,837.1	29.2	25.3	90.29	841.3	287.2	332.8	301.3	31.57	10.544	
9,000.0	8,936.9	9,028.9	8,937.1	29.3	25.4	90.29	841.3	287.2	332.8	301.1	31.72	10.494	
9,100.0	9,036.9	9,128.9	9,037.1	29.3	25.4	90.29	841.3	287.2	332.8	301.0	31.87	10.443	
9,200.0	9,136.9	9,228.9	9,137.1	29.4	25.5	90.29	841.3	287.2	332.8	300.8	32.02	10.394	
9,300.0	9,236.9	9,328.9	9,237.1	29.4	25.5	90.29	841.3	287.2	332.8	300.7	32.18	10.345	
9,400.0	9,336.9	9,428.9	9,337.1	29.5	25.6	90.29	841.3	287.2	332.8	300.5	32.33	10.296	
9,500.0	9,436.9	9,528.9	9,437.1	29.5	25.6	90.29	841.3	287.2	332.8	300.4	32.48	10.247	
9,600.0	9,536.9	9,628.9	9,537.1	29.6	25.7	90.29	841.3	287.2	332.8	300.2	32.63	10.199	
9,700.0	9,636.9	9,728.9	9,637.1	29.6	25.8	90.29	841.3	287.2	332.8	300.1	32.79	10.152	
9,800.0	9,736.9	9,828.9	9,737.1	29.7	25.8	90.29	841.3	287.2	332.8	299.9	32.94	10.105	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 703H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,900.0	9,836.9	9,928.9	9,837.1	29.7	25.9	90.29	841.3	287.2	332.8	299.8	33.09	10.058		
10,000.0	9,936.9	10,028.9	9,937.1	29.8	25.9	90.29	841.3	287.2	332.8	299.6	33.24	10.012		
10,100.0	10,036.9	10,128.9	10,037.1	29.9	26.0	90.29	841.3	287.2	332.8	299.4	33.40	9.966		
10,200.0	10,136.9	10,228.9	10,137.1	29.9	26.0	90.29	841.3	287.2	332.8	299.3	33.55	9.921		
10,300.0	10,236.9	10,328.9	10,237.1	30.0	26.1	90.29	841.3	287.2	332.8	299.1	33.70	9.876		
10,400.0	10,336.9	10,428.9	10,337.1	30.0	26.1	90.29	841.3	287.2	332.8	299.0	33.86	9.831		
10,500.0	10,436.9	10,528.9	10,437.1	30.1	26.2	90.29	841.3	287.2	332.8	298.8	34.01	9.786		
10,600.0	10,536.9	10,628.9	10,537.1	30.1	26.2	90.29	841.3	287.2	332.8	298.7	34.16	9.743		
10,700.0	10,636.9	10,728.9	10,637.1	30.2	26.3	90.29	841.3	287.2	332.8	298.5	34.32	9.699		
10,800.0	10,736.9	10,828.9	10,737.1	30.2	26.3	90.29	841.3	287.2	332.8	298.4	34.47	9.656		
10,900.0	10,836.9	10,928.9	10,837.1	30.3	26.4	90.29	841.3	287.2	332.8	298.2	34.62	9.613		
11,000.0	10,936.9	11,028.9	10,937.1	30.3	26.4	90.29	841.3	287.2	332.8	298.1	34.78	9.570		
11,100.0	11,036.9	11,128.9	11,037.1	30.4	26.5	90.29	841.3	287.2	332.8	297.9	34.93	9.528		
11,200.0	11,136.9	11,228.9	11,137.1	30.5	26.6	90.29	841.3	287.2	332.8	297.8	35.09	9.487		
11,300.0	11,236.9	11,328.9	11,237.1	30.5	26.6	90.29	841.3	287.2	332.8	297.6	35.24	9.445		
11,400.0	11,336.9	11,428.9	11,337.1	30.6	26.7	90.29	841.3	287.2	332.8	297.5	35.39	9.404		
11,500.0	11,436.9	11,528.9	11,437.1	30.6	26.7	90.29	841.3	287.2	332.8	297.3	35.55	9.363		
11,600.0	11,536.9	11,628.9	11,537.1	30.7	26.8	90.29	841.3	287.2	332.8	297.1	35.70	9.323		
11,700.0	11,636.9	11,728.9	11,637.1	30.7	26.8	90.29	841.3	287.2	332.8	297.0	35.86	9.282		
11,705.7	11,642.5	11,734.5	11,642.7	30.7	26.8	90.29	841.3	287.2	332.8	297.0	35.87	9.280		
11,725.0	11,661.9	11,753.9	11,662.1	30.7	26.8	-89.42	841.3	287.2	332.8	296.9	35.91	9.269		
11,750.0	11,686.8	11,778.8	11,687.0	30.6	26.9	-89.71	841.3	287.2	332.8	296.9	35.94	9.260		
11,765.5	11,702.2	11,794.2	11,702.4	30.6	26.9	-90.00	841.3	287.2	332.8	296.9	35.97	9.253		
11,775.0	11,711.6	11,803.6	11,711.8	30.5	26.9	-90.22	841.3	287.2	332.8	296.8	35.99	9.247		
11,800.0	11,736.2	11,828.2	11,736.4	30.5	26.9	-90.94	841.3	287.2	332.9	296.8	36.07	9.228		
11,825.0	11,760.6	11,852.6	11,760.8	30.4	26.9	-91.85	841.3	287.2	333.0	296.8	36.18	9.203		
11,850.0	11,784.7	11,876.7	11,784.9	30.2	26.9	-92.94	841.3	287.2	333.3	297.0	36.34	9.173		
11,875.0	11,808.3	11,900.3	11,808.5	30.1	26.9	-94.18	841.3	287.2	333.8	297.3	36.54	9.136		
11,900.0	11,831.5	11,923.5	11,831.7	30.0	26.9	-95.56	841.3	287.2	334.7	297.9	36.80	9.094		
11,925.0	11,854.2	11,946.2	11,854.4	29.9	26.9	-97.02	841.3	287.2	336.0	298.8	37.14	9.046		
11,950.0	11,876.3	11,968.3	11,876.5	29.8	27.0	-98.55	841.3	287.2	337.7	300.2	37.55	8.994		
11,975.0	11,897.8	11,989.8	11,898.0	29.7	27.0	-100.11	841.3	287.2	340.2	302.1	38.05	8.940		
12,000.0	11,918.6	12,010.6	11,918.8	29.6	27.0	-101.65	841.3	287.2	343.3	304.7	38.62	8.889		
12,025.0	11,938.6	12,032.5	11,940.7	29.5	27.0	-103.30	841.0	287.2	347.2	308.0	39.23	8.852		
12,050.0	11,957.8	12,055.4	11,963.6	29.4	26.9	-104.94	839.6	287.4	351.9	312.1	39.82	8.836		
12,075.0	11,976.1	12,079.1	11,987.1	29.3	26.8	-106.53	837.0	287.8	357.2	316.9	40.39	8.844		
12,100.0	11,993.5	12,103.7	12,011.3	29.2	26.8	-108.08	833.1	288.4	363.3	322.4	40.92	8.878		
12,125.0	12,010.0	12,129.1	12,036.2	29.1	26.7	-109.60	827.7	289.2	369.9	328.5	41.39	8.937		
12,150.0	12,025.4	12,155.7	12,061.8	29.0	26.6	-111.07	820.8	290.2	377.2	335.4	41.79	9.025		
12,175.0	12,039.8	12,183.4	12,088.1	28.9	26.5	-112.50	812.0	291.5	384.9	342.8	42.12	9.139		
12,200.0	12,053.2	12,212.5	12,115.1	28.9	26.4	-113.90	801.2	293.1	393.1	350.7	42.35	9.281		
12,225.0	12,065.4	12,243.1	12,142.7	28.8	26.3	-115.25	788.1	295.1	401.7	359.1	42.51	9.449		
12,250.0	12,076.4	12,275.4	12,170.8	28.7	26.1	-116.57	772.4	297.4	410.5	367.9	42.58	9.641		
12,275.0	12,086.2	12,309.6	12,199.3	28.7	26.0	-117.85	753.8	300.2	419.6	377.0	42.58	9.854		
12,300.0	12,094.8	12,345.9	12,228.1	28.6	25.9	-119.07	731.9	303.5	428.7	386.2	42.51	10.086		
12,325.0	12,102.2	12,384.7	12,256.8	28.6	25.8	-120.24	706.3	307.3	437.9	395.5	42.39	10.330		
12,350.0	12,108.4	12,426.0	12,285.0	28.6	25.6	-121.32	676.4	311.8	447.0	404.7	42.25	10.580		
12,375.0	12,113.2	12,470.1	12,312.2	28.5	25.5	-122.31	642.0	316.9	455.8	413.7	42.10	10.826		
12,400.0	12,116.8	12,517.2	12,337.5	28.5	25.4	-123.17	602.7	322.8	464.2	422.2	41.98	11.059		
12,425.0	12,119.0	12,567.4	12,360.0	28.5	25.3	-123.86	558.4	329.4	472.2	430.2	41.91	11.267		
12,450.0	12,120.0	12,620.7	12,378.5	28.5	25.2	-124.35	509.0	336.8	479.4	437.5	41.91	11.440		
12,455.7	12,120.0	12,633.2	12,382.1	28.5	25.2	-124.42	497.2	338.6	481.0	439.1	41.92	11.474		

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

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Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 703H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
12,500.0	12,120.0	12,735.8	12,399.1	28.5	25.2	-125.13	397.3	353.5	490.3	448.3	42.07	11.655		
12,600.0	12,120.0	12,866.3	12,400.0	28.5	25.2	-124.11	268.0	371.0	500.9	458.8	42.18	11.877		
12,700.0	12,120.0	12,983.0	12,400.0	28.5	25.3	-123.47	151.8	381.8	508.1	465.6	42.51	11.952		
12,800.0	12,120.0	13,100.4	12,400.0	28.5	25.4	-123.14	34.5	387.8	511.9	468.8	43.12	11.873		
12,900.0	12,120.0	13,211.1	12,400.0	28.5	25.5	-123.09	-76.1	389.4	512.5	468.7	43.81	11.700		
13,000.0	12,120.0	13,311.1	12,400.0	28.5	25.5	-123.09	-176.1	390.0	512.6	468.2	44.40	11.543		
13,100.0	12,120.0	13,411.1	12,400.0	28.5	25.6	-123.09	-276.1	390.6	512.6	467.5	45.06	11.374		
13,200.0	12,120.0	13,511.1	12,400.0	28.5	25.7	-123.09	-376.1	391.2	512.6	466.8	45.79	11.195		
13,300.0	12,120.0	13,611.1	12,400.0	28.5	25.9	-123.08	-476.1	391.9	512.6	466.0	46.57	11.007		
13,400.0	12,120.0	13,711.1	12,400.0	28.6	26.0	-123.08	-576.1	392.5	512.6	465.2	47.40	10.813		
13,500.0	12,120.0	13,811.1	12,400.0	28.6	26.2	-123.08	-676.1	393.1	512.6	464.3	48.30	10.613		
13,600.0	12,120.0	13,911.1	12,400.0	28.6	26.4	-123.08	-776.1	393.7	512.6	463.3	49.24	10.411		
13,700.0	12,120.0	14,011.1	12,400.0	28.6	26.6	-123.08	-876.1	394.3	512.6	462.4	50.23	10.206		
13,800.0	12,120.0	14,111.1	12,400.0	28.6	26.9	-123.08	-976.1	394.9	512.6	461.3	51.26	10.000		
13,900.0	12,120.0	14,211.1	12,400.0	28.7	27.2	-123.08	-1,076.1	395.6	512.6	460.3	52.33	9.795		
14,000.0	12,120.0	14,311.1	12,400.0	28.7	27.6	-123.08	-1,176.1	396.2	512.6	459.2	53.45	9.590		
14,100.0	12,120.0	14,411.1	12,400.0	28.7	28.0	-123.08	-1,276.1	396.8	512.6	458.0	54.60	9.388		
14,200.0	12,120.0	14,511.1	12,400.0	28.8	28.5	-123.08	-1,376.1	397.4	512.6	456.8	55.79	9.188		
14,300.0	12,120.0	14,611.1	12,400.0	28.8	29.0	-123.08	-1,476.1	398.0	512.6	455.6	57.01	8.992		
14,400.0	12,120.0	14,711.1	12,400.0	28.9	29.6	-123.08	-1,576.1	398.6	512.6	454.4	58.26	8.799		
14,500.0	12,120.0	14,811.1	12,400.0	29.0	30.2	-123.08	-1,676.1	399.3	512.6	453.1	59.54	8.610		
14,600.0	12,120.0	14,911.1	12,400.0	29.2	30.8	-123.08	-1,776.1	399.9	512.6	451.8	60.84	8.426		
14,700.0	12,120.0	15,011.1	12,400.0	29.8	31.5	-123.08	-1,876.1	400.5	512.6	450.5	62.17	8.245		
14,800.0	12,120.0	15,111.1	12,400.0	30.5	32.1	-123.08	-1,976.1	401.1	512.6	449.1	63.53	8.070		
14,900.0	12,120.0	15,211.1	12,400.0	31.3	32.8	-123.08	-2,076.1	401.7	512.6	447.7	64.90	7.899		
15,000.0	12,120.0	15,311.1	12,400.0	32.1	33.6	-123.08	-2,176.1	402.4	512.7	446.4	66.30	7.732		
15,100.0	12,120.0	15,411.1	12,400.0	32.9	34.3	-123.08	-2,276.1	403.0	512.7	444.9	67.72	7.571		
15,200.0	12,120.0	15,511.1	12,400.0	33.8	35.1	-123.08	-2,376.1	403.6	512.7	443.5	69.15	7.414		
15,300.0	12,120.0	15,611.1	12,400.0	34.6	35.9	-123.08	-2,476.1	404.2	512.7	442.1	70.60	7.262		
15,400.0	12,120.0	15,711.1	12,400.0	35.4	36.6	-123.08	-2,576.1	404.8	512.7	440.6	72.07	7.114		
15,500.0	12,120.0	15,811.1	12,400.0	36.3	37.4	-123.08	-2,676.1	405.4	512.7	439.1	73.55	6.971		
15,600.0	12,120.0	15,911.1	12,400.0	37.1	38.2	-123.08	-2,776.1	406.1	512.7	437.6	75.05	6.832		
15,700.0	12,120.0	16,011.1	12,400.0	38.0	39.1	-123.08	-2,876.1	406.7	512.7	436.1	76.55	6.697		
15,800.0	12,120.0	16,111.1	12,400.0	38.8	39.9	-123.08	-2,976.1	407.3	512.7	434.6	78.08	6.567		
15,900.0	12,120.0	16,211.1	12,400.0	39.7	40.7	-123.08	-3,076.1	407.9	512.7	433.1	79.61	6.440		
16,000.0	12,120.0	16,311.1	12,400.0	40.6	41.6	-123.07	-3,176.0	408.5	512.7	431.5	81.16	6.318		
16,100.0	12,120.0	16,411.1	12,400.0	41.5	42.4	-123.07	-3,276.0	409.1	512.7	430.0	82.71	6.199		
16,200.0	12,120.0	16,511.1	12,400.0	42.3	43.3	-123.07	-3,376.0	409.8	512.7	428.4	84.28	6.084		
16,300.0	12,120.0	16,611.1	12,400.0	43.2	44.1	-123.07	-3,476.0	410.4	512.7	426.9	85.85	5.972		
16,400.0	12,120.0	16,711.1	12,400.0	44.1	45.0	-123.07	-3,576.0	411.0	512.7	425.3	87.43	5.864		
16,500.0	12,120.0	16,811.1	12,400.0	45.0	45.8	-123.07	-3,676.0	411.6	512.7	423.7	89.03	5.759		
16,600.0	12,120.0	16,911.1	12,400.0	45.9	46.7	-123.07	-3,776.0	412.2	512.7	422.1	90.63	5.658		
16,700.0	12,120.0	17,011.1	12,400.0	46.8	47.6	-123.07	-3,876.0	412.9	512.7	420.5	92.23	5.559		
16,800.0	12,120.0	17,111.1	12,400.0	47.7	48.5	-123.07	-3,976.0	413.5	512.7	418.9	93.85	5.464		
16,900.0	12,120.0	17,211.1	12,400.0	48.6	49.3	-123.07	-4,076.0	414.1	512.7	417.3	95.47	5.371		
17,000.0	12,120.0	17,311.1	12,400.0	49.5	50.2	-123.07	-4,176.0	414.7	512.8	415.7	97.10	5.281		
17,100.0	12,120.0	17,411.1	12,400.0	50.4	51.1	-123.07	-4,276.0	415.3	512.8	414.0	98.73	5.194		
17,200.0	12,120.0	17,511.1	12,400.0	51.3	52.0	-123.07	-4,376.0	415.9	512.8	412.4	100.37	5.109		
17,300.0	12,120.0	17,611.1	12,400.0	52.2	52.9	-123.07	-4,476.0	416.6	512.8	410.8	102.01	5.026		
17,400.0	12,120.0	17,711.1	12,400.0	53.1	53.8	-123.07	-4,576.0	417.2	512.8	409.1	103.67	4.946		
17,500.0	12,120.0	17,811.1	12,400.0	54.0	54.7	-123.07	-4,676.0	417.8	512.8	407.5	105.32	4.869		
17,600.0	12,120.0	17,911.1	12,400.0	54.9	55.6	-123.07	-4,776.0	418.4	512.8	405.8	106.98	4.793		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,700.0	12,120.0	18,011.1	12,400.0	55.9	56.5	-123.07	-4,876.0	419.0	512.8	404.1	108.65	4.720	
17,800.0	12,120.0	18,111.1	12,400.0	56.8	57.4	-123.07	-4,976.0	419.6	512.8	402.5	110.31	4.648	
17,900.0	12,120.0	18,211.1	12,400.0	57.7	58.3	-123.07	-5,076.0	420.3	512.8	400.8	111.99	4.579	
18,000.0	12,120.0	18,311.1	12,400.0	58.6	59.2	-123.07	-5,176.0	420.9	512.8	399.1	113.66	4.512	
18,100.0	12,120.0	18,411.1	12,400.0	59.5	60.2	-123.07	-5,276.0	421.5	512.8	397.5	115.35	4.446	
18,200.0	12,120.0	18,511.1	12,400.0	60.5	61.1	-123.07	-5,376.0	422.1	512.8	395.8	117.03	4.382	
18,300.0	12,120.0	18,611.1	12,400.0	61.4	62.0	-123.07	-5,476.0	422.7	512.8	394.1	118.72	4.320	
18,400.0	12,120.0	18,711.1	12,400.0	62.3	62.9	-123.07	-5,576.0	423.4	512.8	392.4	120.41	4.259	
18,500.0	12,120.0	18,811.1	12,400.0	63.2	63.8	-123.07	-5,676.0	424.0	512.8	390.7	122.10	4.200	
18,600.0	12,120.0	18,911.1	12,400.0	64.2	64.7	-123.07	-5,776.0	424.6	512.8	389.0	123.80	4.142	
18,700.0	12,120.0	19,011.1	12,400.0	65.1	65.7	-123.07	-5,876.0	425.2	512.8	387.3	125.50	4.086	
18,800.0	12,120.0	19,111.1	12,400.0	66.0	66.6	-123.06	-5,976.0	425.8	512.8	385.6	127.21	4.032	
18,900.0	12,120.0	19,211.1	12,400.0	67.0	67.5	-123.06	-6,076.0	426.4	512.8	383.9	128.91	3.978	
19,000.0	12,120.0	19,311.1	12,400.0	67.9	68.4	-123.06	-6,176.0	427.1	512.9	382.2	130.62	3.926	
19,100.0	12,120.0	19,411.1	12,400.0	68.8	69.4	-123.06	-6,276.0	427.7	512.9	380.5	132.33	3.876	
19,200.0	12,120.0	19,511.1	12,400.0	69.8	70.3	-123.06	-6,376.0	428.3	512.9	378.8	134.05	3.826	
19,300.0	12,120.0	19,611.1	12,400.0	70.7	71.2	-123.06	-6,476.0	428.9	512.9	377.1	135.76	3.778	
19,400.0	12,120.0	19,711.1	12,400.0	71.6	72.1	-123.06	-6,576.0	429.5	512.9	375.4	137.48	3.731	
19,500.0	12,120.0	19,811.1	12,400.0	72.6	73.1	-123.06	-6,676.0	430.1	512.9	373.7	139.20	3.684	
19,600.0	12,120.0	19,911.1	12,400.0	73.5	74.0	-123.06	-6,776.0	430.8	512.9	372.0	140.92	3.639	
19,700.0	12,120.0	20,011.1	12,400.0	74.4	74.9	-123.06	-6,876.0	431.4	512.9	370.2	142.65	3.595	
19,800.0	12,120.0	20,111.1	12,400.0	75.4	75.9	-123.06	-6,976.0	432.0	512.9	368.5	144.37	3.553	
19,900.0	12,120.0	20,211.1	12,400.0	76.3	76.8	-123.06	-7,076.0	432.6	512.9	366.8	146.10	3.511	
20,000.0	12,120.0	20,311.1	12,400.0	77.3	77.7	-123.06	-7,176.0	433.2	512.9	365.1	147.83	3.469	
20,100.0	12,120.0	20,411.1	12,400.0	78.2	78.7	-123.06	-7,276.0	433.9	512.9	363.3	149.56	3.429	
20,200.0	12,120.0	20,511.1	12,400.0	79.1	79.6	-123.06	-7,376.0	434.5	512.9	361.6	151.30	3.390	
20,300.0	12,120.0	20,611.1	12,400.0	80.1	80.5	-123.06	-7,476.0	435.1	512.9	359.9	153.03	3.352	
20,400.0	12,120.0	20,711.1	12,400.0	81.0	81.5	-123.06	-7,576.0	435.7	512.9	358.2	154.77	3.314	
20,500.0	12,120.0	20,811.1	12,400.0	82.0	82.4	-123.06	-7,676.0	436.3	512.9	356.4	156.51	3.277	
20,600.0	12,120.0	20,911.1	12,400.0	82.9	83.3	-123.06	-7,776.0	436.9	512.9	354.7	158.25	3.241	
20,700.0	12,120.0	21,011.1	12,400.0	83.9	84.3	-123.06	-7,876.0	437.6	512.9	352.9	159.99	3.206	
20,800.0	12,120.0	21,111.1	12,400.0	84.8	85.2	-123.06	-7,976.0	438.2	512.9	351.2	161.73	3.172	
20,900.0	12,120.0	21,211.1	12,400.0	85.7	86.2	-123.06	-8,076.0	438.8	512.9	349.5	163.47	3.138	
21,000.0	12,120.0	21,311.1	12,400.0	86.7	87.1	-123.06	-8,176.0	439.4	513.0	347.7	165.22	3.105	
21,100.0	12,120.0	21,411.1	12,400.0	87.6	88.0	-123.06	-8,276.0	440.0	513.0	346.0	166.96	3.072	
21,200.0	12,120.0	21,511.1	12,400.0	88.6	89.0	-123.06	-8,375.9	440.7	513.0	344.3	168.71	3.040	
21,300.0	12,120.0	21,611.1	12,400.0	89.5	89.9	-123.06	-8,475.9	441.3	513.0	342.5	170.46	3.009	
21,400.0	12,120.0	21,711.1	12,400.0	90.5	90.9	-123.06	-8,575.9	441.9	513.0	340.8	172.21	2.979 Normal Operations	
21,500.0	12,120.0	21,811.1	12,400.0	91.4	91.8	-123.05	-8,675.9	442.5	513.0	339.0	173.96	2.949 Normal Operations	
21,600.0	12,120.0	21,911.1	12,400.0	92.4	92.8	-123.05	-8,775.9	443.1	513.0	337.3	175.71	2.919 Normal Operations	
21,700.0	12,120.0	22,011.1	12,400.0	93.3	93.7	-123.05	-8,875.9	443.7	513.0	335.5	177.46	2.891 Normal Operations	
21,800.0	12,120.0	22,111.1	12,400.0	94.3	94.6	-123.05	-8,975.9	444.4	513.0	333.8	179.22	2.862 Normal Operations	
21,900.0	12,120.0	22,211.1	12,400.0	95.2	95.6	-123.05	-9,075.9	445.0	513.0	332.0	180.97	2.835 Normal Operations	
22,000.0	12,120.0	22,311.1	12,400.0	96.2	96.5	-123.05	-9,175.9	445.6	513.0	330.3	182.73	2.807 Normal Operations	
22,100.0	12,120.0	22,411.1	12,400.0	97.1	97.5	-123.05	-9,275.9	446.2	513.0	328.5	184.49	2.781 Normal Operations	
22,200.0	12,120.0	22,511.1	12,400.0	98.1	98.4	-123.05	-9,375.9	446.8	513.0	326.8	186.24	2.755 Normal Operations	
22,300.0	12,120.0	22,611.1	12,400.0	99.0	99.4	-123.05	-9,475.9	447.4	513.0	325.0	188.00	2.729 Normal Operations	
22,400.0	12,120.0	22,711.1	12,400.0	100.0	100.3	-123.05	-9,575.9	448.1	513.0	323.3	189.76	2.704 Normal Operations	
22,500.0	12,120.0	22,811.1	12,400.0	100.9	101.3	-123.05	-9,675.9	448.7	513.0	321.5	191.52	2.679 Normal Operations	
22,501.5	12,120.0	22,812.6	12,400.0	100.9	101.3	-123.05	-9,677.4	448.7	513.0	321.5	191.55	2.678 Normal Operations	
22,519.8	12,120.0	22,830.4	12,400.0	101.1	101.5	-123.05	-9,695.2	448.8	513.0	321.2	191.84	2.674 Normal Operations	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 802H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.5	0.5	3.0	3.0	0.00	44.9	0.0	44.9				
100.0	100.0	100.5	100.5	3.1	3.1	0.00	44.9	0.0	44.9	38.3	6.62	6.783	
200.0	200.0	200.5	200.5	3.3	3.3	0.00	44.9	0.0	44.9	37.8	7.07	6.348	
300.0	300.0	300.5	300.5	3.5	3.5	0.00	44.9	0.0	44.9	37.4	7.50	5.987	
400.0	400.0	400.5	400.5	3.7	3.7	0.00	44.9	0.0	44.9	37.0	7.91	5.679	
500.0	500.0	500.5	500.5	3.9	3.9	0.00	44.9	0.0	44.9	36.6	8.29	5.414	
600.0	600.0	600.5	600.5	4.1	4.1	0.00	44.9	0.0	44.9	36.2	8.67	5.181	
700.0	700.0	700.5	700.5	4.3	4.3	0.00	44.9	0.0	44.9	35.9	9.03	4.974	
800.0	800.0	800.5	800.5	4.5	4.5	0.00	44.9	0.0	44.9	35.5	9.37	4.790	
900.0	900.0	900.5	900.5	4.7	4.7	0.00	44.9	0.0	44.9	35.2	9.71	4.623	
966.5	966.5	967.0	967.0	4.8	4.8	0.00	44.9	0.0	44.9	35.0	9.93	4.522 CC	
1,000.0	1,000.0	1,000.0	1,000.0	4.8	4.8	0.00	44.9	0.0	44.9	34.9	10.04	4.473 ES	
1,100.0	1,100.0	1,099.2	1,099.2	5.0	5.1	-1.28	46.3	-1.0	46.3	35.9	10.42	4.444	
1,200.0	1,200.0	1,197.7	1,197.5	5.2	5.4	-4.66	50.3	-4.1	50.6	39.8	10.80	4.684	
1,300.0	1,300.0	1,295.7	1,295.2	5.3	5.6	-9.13	57.1	-9.2	58.1	46.9	11.20	5.185	
1,400.0	1,400.0	1,393.1	1,391.8	5.5	5.9	-13.71	66.4	-16.2	68.9	57.3	11.61	5.936	
1,500.0	1,500.0	1,489.5	1,487.1	5.6	6.2	-17.80	78.2	-25.1	83.2	71.2	12.03	6.919	
1,600.0	1,600.0	1,587.8	1,583.9	5.8	6.5	-31.24	91.8	-35.4	99.1	86.6	12.45	7.958	
1,700.0	1,700.0	1,686.5	1,681.2	5.9	6.8	-34.21	105.5	-45.7	113.7	100.9	12.89	8.825	
1,800.0	1,799.9	1,785.4	1,778.6	6.1	7.0	-36.96	119.2	-56.0	127.3	113.9	13.36	9.530	
1,900.0	1,899.7	1,884.5	1,876.1	6.3	7.4	-39.61	133.0	-66.4	139.7	125.9	13.85	10.089	
2,000.0	1,999.4	1,983.6	1,973.7	6.5	7.7	-42.25	146.7	-76.7	151.2	136.8	14.36	10.525	
2,100.0	2,098.8	2,082.8	2,071.5	6.8	8.0	-36.67	160.5	-87.1	160.6	145.7	14.93	10.759	
2,200.0	2,197.9	2,182.3	2,169.4	7.1	8.4	-34.69	174.3	-97.5	167.1	151.5	15.51	10.770	
2,215.1	2,212.9	2,197.4	2,184.2	7.1	8.4	-34.58	176.4	-99.1	167.8	152.2	15.58	10.767	
2,300.0	2,296.7	2,281.8	2,267.4	7.3	8.7	-36.98	188.1	-107.9	171.8	155.7	16.06	10.699	
2,400.0	2,395.5	2,381.4	2,365.5	7.6	9.1	-39.65	201.9	-118.3	176.9	160.3	16.61	10.650	
2,500.0	2,494.2	2,480.9	2,463.5	7.9	9.5	-42.18	215.7	-128.7	182.3	165.2	17.16	10.628	
2,600.0	2,593.0	2,580.5	2,561.5	8.2	9.8	-44.55	229.5	-139.1	188.1	170.4	17.70	10.630	
2,700.0	2,691.8	2,680.0	2,659.5	8.5	10.2	-46.78	243.3	-149.5	194.2	176.0	18.23	10.653	
2,800.0	2,790.5	2,779.5	2,757.6	8.9	10.6	-48.87	257.1	-159.9	200.6	181.8	18.76	10.694	
2,900.0	2,889.3	2,879.1	2,855.6	9.2	11.0	-50.83	270.9	-170.3	207.2	187.9	19.27	10.752	
3,000.0	2,988.1	2,978.6	2,953.6	9.6	11.4	-52.67	284.7	-180.7	214.1	194.3	19.78	10.823	
3,100.0	3,086.8	3,078.1	3,051.6	9.9	11.8	-54.39	298.5	-191.1	221.1	200.9	20.28	10.905	
3,200.0	3,185.6	3,177.7	3,149.6	10.3	12.2	-56.01	312.3	-201.5	228.4	207.6	20.77	10.997	
3,300.0	3,284.4	3,277.2	3,247.7	10.7	12.6	-57.52	326.1	-211.9	235.8	214.5	21.25	11.097	
3,400.0	3,383.1	3,376.7	3,345.7	11.0	13.0	-58.95	339.9	-222.3	243.4	221.6	21.72	11.204	
3,500.0	3,481.9	3,476.3	3,443.7	11.4	13.5	-60.28	353.7	-232.7	251.1	228.9	22.19	11.316	
3,600.0	3,580.7	3,575.8	3,541.7	11.8	13.9	-61.54	367.5	-243.1	258.9	236.3	22.65	11.432	
3,700.0	3,679.5	3,675.4	3,639.8	12.2	14.3	-62.72	381.3	-253.5	266.9	243.8	23.10	11.552	
3,800.0	3,778.2	3,774.9	3,737.8	12.6	14.7	-63.83	395.1	-263.9	274.9	251.4	23.55	11.674	
3,900.0	3,877.0	3,874.4	3,835.8	13.0	15.2	-64.88	408.9	-274.3	283.1	259.1	23.99	11.798	
4,000.0	3,975.8	3,974.0	3,933.8	13.4	15.6	-65.87	422.8	-284.7	291.3	266.9	24.43	11.924	
4,100.0	4,074.5	4,073.5	4,031.9	13.8	16.0	-66.81	436.6	-295.1	299.7	274.8	24.87	12.050	
4,200.0	4,173.3	4,173.0	4,129.9	14.2	16.4	-67.69	450.4	-305.5	308.1	282.8	25.30	12.176	
4,300.0	4,272.1	4,272.6	4,227.9	14.6	16.9	-68.53	464.2	-315.9	316.5	290.8	25.73	12.302	
4,400.0	4,370.8	4,372.1	4,325.9	15.0	17.3	-69.33	478.0	-326.3	325.1	298.9	26.16	12.428	
4,500.0	4,469.6	4,471.6	4,424.0	15.4	17.7	-70.08	491.8	-336.7	333.7	307.1	26.58	12.553	
4,600.0	4,568.4	4,571.2	4,522.0	15.8	18.2	-70.79	505.6	-347.1	342.3	315.3	27.00	12.677	
4,700.0	4,667.1	4,670.7	4,620.0	16.2	18.6	-71.47	519.4	-357.5	351.0	323.6	27.42	12.800	
4,800.0	4,765.9	4,770.2	4,718.0	16.7	19.0	-72.12	533.2	-367.9	359.8	331.9	27.84	12.922	
4,900.0	4,864.7	4,869.8	4,816.1	17.1	19.5	-72.74	547.0	-378.3	368.6	340.3	28.26	13.043	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 802H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,963.4	4,969.3	4,914.1	17.5	19.9	-73.33	560.8	-388.8	377.4	348.7	28.67	13.162	
5,100.0	5,062.2	5,068.9	5,012.1	17.9	20.4	-73.89	574.6	-399.2	386.3	357.2	29.09	13.279	
5,200.0	5,161.0	5,168.4	5,110.1	18.3	20.8	-74.42	588.4	-409.6	395.2	365.7	29.50	13.395	
5,300.0	5,259.8	5,267.9	5,208.2	18.8	21.2	-74.94	602.2	-420.0	404.1	374.2	29.91	13.510	
5,400.0	5,358.5	5,367.5	5,306.2	19.2	21.7	-75.43	616.0	-430.4	413.1	382.7	30.32	13.622	
5,500.0	5,457.3	5,467.0	5,404.2	19.6	22.1	-75.89	629.8	-440.8	422.1	391.3	30.73	13.733	
5,600.0	5,556.1	5,566.5	5,502.2	20.0	22.6	-76.34	643.6	-451.2	431.1	399.9	31.14	13.842	
5,700.0	5,654.8	5,666.1	5,600.2	20.5	23.0	-76.78	657.4	-461.6	440.1	408.6	31.55	13.949	
5,800.0	5,753.6	5,765.6	5,698.3	20.9	23.4	-77.19	671.2	-472.0	449.2	417.3	31.96	14.054	
5,900.0	5,852.4	5,865.1	5,796.3	21.3	23.9	-77.59	685.0	-482.4	458.3	425.9	32.37	14.158	
6,000.0	5,951.1	5,964.7	5,894.3	21.8	24.3	-77.97	698.8	-492.8	467.4	434.6	32.78	14.259	
6,100.0	6,049.9	6,064.2	5,992.3	22.2	24.8	-78.34	712.6	-503.2	476.6	443.4	33.19	14.359	
6,200.0	6,148.7	6,163.8	6,090.4	22.6	25.2	-78.69	726.4	-513.6	485.7	452.1	33.60	14.458	
6,300.0	6,247.4	6,263.3	6,188.4	23.1	25.7	-79.03	740.2	-524.0	494.9	460.9	34.00	14.554	
6,400.0	6,346.2	6,362.8	6,286.4	23.5	26.1	-79.36	754.0	-534.4	504.1	469.7	34.41	14.649	
6,500.0	6,445.0	6,463.0	6,385.1	23.9	26.5	-79.68	767.9	-544.8	513.3	478.5	34.81	14.747	
6,600.0	6,543.7	6,569.1	6,489.8	24.4	27.0	-80.10	781.7	-555.2	521.8	486.6	35.20	14.824	
6,700.0	6,642.5	6,675.3	6,594.9	24.8	27.5	-80.66	794.0	-564.5	529.0	493.5	35.52	14.892	
6,800.0	6,741.3	6,781.5	6,700.2	25.2	27.9	-81.36	804.7	-572.5	535.1	499.3	35.78	14.955	
6,859.4	6,800.0	6,844.7	6,763.0	25.5	28.2	-81.85	810.3	-576.8	538.1	502.3	35.88	14.997	
6,900.0	6,840.1	6,887.7	6,805.8	25.6	28.3	-82.21	813.8	-579.4	540.0	504.1	35.94	15.025	
7,000.0	6,939.1	6,993.9	6,911.5	26.1	28.7	-83.06	821.4	-585.1	544.0	507.9	36.10	15.071	
7,100.0	7,038.3	7,100.1	7,017.5	26.5	29.1	-83.86	827.4	-589.6	547.2	511.0	36.23	15.101	
7,200.0	7,137.7	7,206.2	7,123.5	26.9	29.5	-84.60	831.8	-593.0	549.4	513.1	36.35	15.117	
7,300.0	7,237.3	7,312.4	7,229.5	27.3	29.8	-85.30	834.7	-595.1	550.7	514.3	36.43	15.120	
7,400.0	7,337.1	7,418.4	7,335.6	27.6	30.1	-85.96	836.0	-596.1	551.1	514.7	36.45	15.118	
7,500.0	7,436.9	7,520.3	7,437.4	28.0	30.1	-86.52	836.0	-596.2	550.8	514.4	36.40	15.135	
7,600.0	7,536.9	7,620.2	7,537.4	28.3	30.2	-86.90	836.0	-596.2	550.6	514.2	36.40	15.126	
7,700.0	7,636.9	7,720.2	7,637.4	28.6	30.2	-87.09	836.0	-596.2	550.5	514.1	36.47	15.097	
7,759.4	7,696.3	7,779.7	7,696.8	28.6	30.2	-90.73	836.0	-596.2	550.5	514.0	36.52	15.076	
7,800.0	7,736.9	7,820.2	7,737.4	28.7	30.3	-90.73	836.0	-596.2	550.5	514.0	36.55	15.060	
7,900.0	7,836.9	7,920.2	7,837.4	28.7	30.3	-90.73	836.0	-596.2	550.5	513.8	36.68	15.011	
8,000.0	7,936.9	8,020.2	7,937.4	28.8	30.3	-90.73	836.0	-596.2	550.5	513.7	36.80	14.961	
8,100.0	8,036.9	8,120.2	8,037.4	28.8	30.4	-90.73	836.0	-596.2	550.5	513.6	36.92	14.912	
8,200.0	8,136.9	8,220.2	8,137.4	28.9	30.4	-90.73	836.0	-596.2	550.5	513.5	37.04	14.863	
8,300.0	8,236.9	8,320.2	8,237.4	28.9	30.5	-90.73	836.0	-596.2	550.5	513.4	37.16	14.814	
8,400.0	8,336.9	8,420.2	8,337.4	29.0	30.5	-90.73	836.0	-596.2	550.5	513.2	37.28	14.765	
8,500.0	8,436.9	8,520.2	8,437.4	29.0	30.5	-90.73	836.0	-596.2	550.5	513.1	37.41	14.717	
8,600.0	8,536.9	8,620.2	8,537.4	29.1	30.6	-90.73	836.0	-596.2	550.5	513.0	37.53	14.669	
8,700.0	8,636.9	8,720.2	8,637.4	29.1	30.6	-90.73	836.0	-596.2	550.5	512.9	37.65	14.620	
8,800.0	8,736.9	8,820.2	8,737.4	29.2	30.6	-90.73	836.0	-596.2	550.5	512.7	37.78	14.573	
8,900.0	8,836.9	8,920.2	8,837.4	29.2	30.7	-90.73	836.0	-596.2	550.5	512.6	37.90	14.525	
9,000.0	8,936.9	9,020.2	8,937.4	29.3	30.7	-90.73	836.0	-596.2	550.5	512.5	38.03	14.477	
9,100.0	9,036.9	9,120.2	9,037.4	29.3	30.8	-90.73	836.0	-596.2	550.5	512.4	38.15	14.430	
9,200.0	9,136.9	9,220.2	9,137.4	29.4	30.8	-90.73	836.0	-596.2	550.5	512.2	38.28	14.383	
9,300.0	9,236.9	9,320.2	9,237.4	29.4	30.8	-90.73	836.0	-596.2	550.5	512.1	38.40	14.336	
9,400.0	9,336.9	9,420.2	9,337.4	29.5	30.9	-90.73	836.0	-596.2	550.5	512.0	38.53	14.290	
9,500.0	9,436.9	9,520.2	9,437.4	29.5	30.9	-90.73	836.0	-596.2	550.5	511.9	38.65	14.243	
9,600.0	9,536.9	9,620.2	9,537.4	29.6	31.0	-90.73	836.0	-596.2	550.5	511.7	38.78	14.197	
9,700.0	9,636.9	9,720.2	9,637.4	29.6	31.0	-90.73	836.0	-596.2	550.5	511.6	38.90	14.151	
9,800.0	9,736.9	9,820.2	9,737.4	29.7	31.1	-90.73	836.0	-596.2	550.5	511.5	39.03	14.105	
9,900.0	9,836.9	9,920.2	9,837.4	29.7	31.1	-90.73	836.0	-596.2	550.5	511.4	39.16	14.060	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 802H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,000.0	9,936.9	10,020.2	9,937.4	29.8	31.1	-90.73	836.0	-596.2	550.5	511.2	39.28	14.014	
10,100.0	10,036.9	10,120.2	10,037.4	29.9	31.2	-90.73	836.0	-596.2	550.5	511.1	39.41	13.969	
10,200.0	10,136.9	10,220.2	10,137.4	29.9	31.2	-90.73	836.0	-596.2	550.5	511.0	39.54	13.924	
10,300.0	10,236.9	10,320.2	10,237.4	30.0	31.3	-90.73	836.0	-596.2	550.5	510.9	39.67	13.879	
10,400.0	10,336.9	10,420.2	10,337.4	30.0	31.3	-90.73	836.0	-596.2	550.5	510.7	39.79	13.834	
10,500.0	10,436.9	10,520.2	10,437.4	30.1	31.3	-90.73	836.0	-596.2	550.5	510.6	39.92	13.790	
10,600.0	10,536.9	10,620.2	10,537.4	30.1	31.4	-90.73	836.0	-596.2	550.5	510.5	40.05	13.746	
10,700.0	10,636.9	10,720.2	10,637.4	30.2	31.4	-90.73	836.0	-596.2	550.5	510.3	40.18	13.702	
10,800.0	10,736.9	10,820.2	10,737.4	30.2	31.5	-90.73	836.0	-596.2	550.5	510.2	40.31	13.658	
10,900.0	10,836.9	10,920.2	10,837.4	30.3	31.5	-90.73	836.0	-596.2	550.5	510.1	40.44	13.614	
11,000.0	10,936.9	11,020.2	10,937.4	30.3	31.6	-90.73	836.0	-596.2	550.5	510.0	40.57	13.571	
11,100.0	11,036.9	11,120.2	11,037.4	30.4	31.6	-90.73	836.0	-596.2	550.5	509.8	40.70	13.528	
11,200.0	11,136.9	11,220.2	11,137.4	30.5	31.6	-90.73	836.0	-596.2	550.5	509.7	40.82	13.485	
11,300.0	11,236.9	11,320.2	11,237.4	30.5	31.7	-90.73	836.0	-596.2	550.5	509.6	40.95	13.442	
11,400.0	11,336.9	11,420.2	11,337.4	30.6	31.7	-90.73	836.0	-596.2	550.5	509.4	41.08	13.399	
11,500.0	11,436.9	11,520.2	11,437.4	30.6	31.8	-90.73	836.0	-596.2	550.5	509.3	41.22	13.357	
11,600.0	11,536.9	11,620.2	11,537.4	30.7	31.8	-90.73	836.0	-596.2	550.5	509.2	41.35	13.315	
11,700.0	11,636.9	11,720.2	11,637.4	30.7	31.9	-90.73	836.0	-596.2	550.5	509.0	41.48	13.272	
11,705.7	11,642.5	11,725.9	11,643.0	30.7	31.9	-90.73	836.0	-596.2	550.5	509.0	41.49	13.269	
11,725.0	11,661.9	11,745.2	11,662.4	30.7	31.9	89.67	836.0	-596.2	550.5	509.0	41.53	13.256	
11,750.0	11,686.8	11,770.1	11,687.3	30.6	31.9	89.84	836.0	-596.2	550.5	508.9	41.59	13.238	
11,764.4	11,701.1	11,784.5	11,701.6	30.6	31.9	90.00	836.0	-596.2	550.5	508.9	41.64	13.222	
11,775.0	11,711.6	11,795.0	11,712.1	30.5	31.9	90.15	836.0	-596.2	550.5	508.8	41.68	13.207	
11,800.0	11,736.2	11,819.6	11,736.7	30.5	31.9	90.58	836.0	-596.2	550.5	508.7	41.82	13.165	
11,825.0	11,760.6	11,844.0	11,761.1	30.4	31.9	91.13	836.0	-596.2	550.6	508.6	41.99	13.113	
11,850.0	11,784.7	11,868.0	11,785.2	30.2	31.9	91.79	836.0	-596.2	550.8	508.6	42.21	13.050	
11,875.0	11,808.3	11,891.7	11,808.8	30.1	31.9	92.55	836.0	-596.2	551.1	508.7	42.47	12.978	
11,900.0	11,831.5	11,914.9	11,832.0	30.0	32.0	93.38	836.0	-596.2	551.6	508.9	42.77	12.897	
11,925.0	11,854.2	11,937.6	11,854.7	29.9	32.0	94.27	836.0	-596.2	552.4	509.3	43.12	12.810	
11,950.0	11,876.3	11,959.7	11,876.8	29.8	32.0	95.21	836.0	-596.2	553.5	510.0	43.52	12.719	
11,975.0	11,897.8	11,981.1	11,898.3	29.7	32.0	96.16	836.0	-596.2	555.0	511.0	43.96	12.625	
12,000.0	11,918.6	12,001.9	11,919.1	29.6	32.0	97.12	836.0	-596.2	556.9	512.5	44.44	12.531	
12,025.0	11,938.6	12,026.3	11,943.4	29.5	32.0	98.29	835.6	-596.2	559.3	514.4	44.91	12.454	
12,050.0	11,957.8	12,052.4	11,969.4	29.4	31.9	99.51	833.7	-596.1	562.1	516.8	45.32	12.402	
12,075.0	11,976.1	12,079.6	11,996.4	29.3	31.8	100.73	830.3	-596.1	565.2	519.5	45.69	12.371	
12,100.0	11,993.5	12,108.1	12,024.4	29.2	31.7	101.97	825.0	-596.1	568.6	522.6	46.00	12.362	
12,125.0	12,010.0	12,138.0	12,053.5	29.1	31.6	103.22	817.7	-596.1	572.4	526.1	46.24	12.379	
12,150.0	12,025.4	12,169.6	12,083.5	29.0	31.5	104.48	808.1	-596.0	576.4	530.0	46.40	12.421	
12,175.0	12,039.8	12,202.9	12,114.5	28.9	31.4	105.75	795.8	-595.9	580.5	534.1	46.48	12.491	
12,200.0	12,053.2	12,238.2	12,146.3	28.9	31.3	107.04	780.4	-595.8	584.9	538.4	46.46	12.589	
12,225.0	12,065.4	12,275.8	12,178.7	28.8	31.1	108.33	761.5	-595.7	589.3	543.0	46.34	12.717	
12,250.0	12,076.4	12,315.8	12,211.6	28.7	31.0	109.63	738.6	-595.6	593.8	547.6	46.13	12.872	
12,275.0	12,086.2	12,358.5	12,244.3	28.7	30.9	110.90	711.3	-595.4	598.1	552.3	45.82	13.054	
12,300.0	12,094.8	12,404.0	12,276.4	28.6	30.7	112.15	679.1	-595.2	602.3	556.8	45.43	13.257	
12,325.0	12,102.2	12,452.4	12,307.1	28.6	30.6	113.33	641.6	-595.0	606.1	561.2	44.98	13.477	
12,350.0	12,108.4	12,503.8	12,335.2	28.6	30.4	114.40	598.7	-594.7	609.6	565.1	44.49	13.704	
12,375.0	12,113.2	12,558.0	12,359.8	28.5	30.3	115.34	550.4	-594.4	612.6	568.6	43.99	13.925	
12,400.0	12,116.8	12,614.6	12,379.4	28.5	30.3	116.09	497.3	-594.1	614.9	571.4	43.52	14.130	
12,425.0	12,119.0	12,673.2	12,392.9	28.5	30.2	116.62	440.3	-593.7	616.5	573.4	43.09	14.308	
12,450.0	12,120.0	12,733.1	12,399.5	28.5	30.2	116.89	380.9	-593.4	617.3	574.6	42.72	14.450	
12,455.7	12,120.0	12,746.7	12,399.9	28.5	30.2	116.91	367.2	-593.3	617.4	574.7	42.64	14.477	
12,500.0	12,120.0	12,796.1	12,400.0	28.5	30.2	116.92	317.8	-593.0	617.4	574.8	42.62	14.486	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 802H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,600.0	12,120.0	12,896.1	12,400.0	28.5	30.3	116.92	217.8	-592.4	617.4	574.6	42.75	14.442	
12,700.0	12,120.0	12,996.1	12,400.0	28.5	30.4	116.92	117.8	-591.7	617.4	574.4	42.96	14.372	
12,800.0	12,120.0	13,096.1	12,400.0	28.5	30.5	116.92	17.8	-591.1	617.4	574.1	43.24	14.276	
12,900.0	12,120.0	13,196.1	12,400.0	28.5	30.6	116.92	-82.2	-590.5	617.4	573.7	43.61	14.157	
13,000.0	12,120.0	13,296.1	12,400.0	28.5	30.7	116.92	-182.2	-589.9	617.4	573.3	44.05	14.016	
13,100.0	12,120.0	13,396.1	12,400.0	28.5	30.8	116.92	-282.1	-589.3	617.3	572.8	44.56	13.855	
13,200.0	12,120.0	13,496.1	12,400.0	28.5	31.0	116.92	-382.1	-588.7	617.3	572.2	45.14	13.677	
13,300.0	12,120.0	13,596.1	12,400.0	28.5	31.2	116.92	-482.1	-588.0	617.3	571.6	45.78	13.484	
13,400.0	12,120.0	13,696.1	12,400.0	28.6	31.4	116.92	-582.1	-587.4	617.3	570.8	46.49	13.278	
13,500.0	12,120.0	13,796.1	12,400.0	28.6	31.6	116.92	-682.1	-586.8	617.3	570.1	47.27	13.061	
13,600.0	12,120.0	13,896.1	12,400.0	28.6	31.8	116.92	-782.1	-586.2	617.3	569.2	48.10	12.835	
13,700.0	12,120.0	13,996.1	12,400.0	28.6	32.1	116.92	-882.1	-585.6	617.3	568.3	48.98	12.603	
13,800.0	12,120.0	14,096.1	12,400.0	28.6	32.4	116.92	-982.1	-585.0	617.3	567.4	49.92	12.366	
13,900.0	12,120.0	14,196.1	12,400.0	28.7	32.7	116.92	-1,082.1	-584.3	617.3	566.4	50.91	12.126	
14,000.0	12,120.0	14,296.1	12,400.0	28.7	33.0	116.92	-1,182.1	-583.7	617.3	565.4	51.94	11.884	
14,100.0	12,120.0	14,396.1	12,400.0	28.7	33.4	116.92	-1,282.1	-583.1	617.3	564.3	53.02	11.642	
14,200.0	12,120.0	14,496.1	12,400.0	28.8	33.8	116.92	-1,382.1	-582.5	617.3	563.2	54.14	11.401	
14,300.0	12,120.0	14,596.1	12,400.0	28.8	34.2	116.92	-1,482.1	-581.9	617.3	562.0	55.30	11.163	
14,400.0	12,120.0	14,696.1	12,400.0	28.9	34.6	116.92	-1,582.1	-581.3	617.3	560.8	56.49	10.927	
14,500.0	12,120.0	14,796.1	12,400.0	29.0	35.1	116.92	-1,682.1	-580.6	617.3	559.6	57.72	10.694	
14,600.0	12,120.0	14,896.1	12,400.0	29.2	35.6	116.92	-1,782.1	-580.0	617.3	558.3	58.98	10.465	
14,700.0	12,120.0	14,996.1	12,400.0	29.8	36.1	116.92	-1,882.1	-579.4	617.3	557.0	60.27	10.241	
14,800.0	12,120.0	15,096.1	12,400.0	30.5	36.6	116.92	-1,982.1	-578.8	617.3	555.7	61.59	10.022	
14,900.0	12,120.0	15,196.1	12,400.0	31.3	37.2	116.92	-2,082.1	-578.2	617.3	554.3	62.94	9.808	
15,000.0	12,120.0	15,296.1	12,400.0	32.1	37.8	116.92	-2,182.1	-577.6	617.3	553.0	64.30	9.599	
15,100.0	12,120.0	15,396.1	12,400.0	32.9	38.4	116.92	-2,282.1	-576.9	617.3	551.6	65.70	9.396	
15,200.0	12,120.0	15,496.1	12,400.0	33.8	39.0	116.92	-2,382.1	-576.3	617.3	550.2	67.11	9.198	
15,300.0	12,120.0	15,596.1	12,400.0	34.6	39.7	116.92	-2,482.1	-575.7	617.3	548.7	68.54	9.006	
15,400.0	12,120.0	15,696.1	12,400.0	35.4	40.3	116.92	-2,582.1	-575.1	617.3	547.3	69.99	8.819	
15,500.0	12,120.0	15,796.1	12,400.0	36.3	41.0	116.92	-2,682.1	-574.5	617.2	545.8	71.46	8.637	
15,600.0	12,120.0	15,896.1	12,400.0	37.1	41.7	116.92	-2,782.1	-573.9	617.2	544.3	72.95	8.461	
15,700.0	12,120.0	15,996.1	12,400.0	38.0	42.4	116.92	-2,882.1	-573.2	617.2	542.8	74.45	8.290	
15,800.0	12,120.0	16,096.1	12,400.0	38.8	43.1	116.93	-2,982.1	-572.6	617.2	541.3	75.97	8.125	
15,900.0	12,120.0	16,196.1	12,400.0	39.7	43.9	116.93	-3,082.1	-572.0	617.2	539.7	77.50	7.964	
16,000.0	12,120.0	16,296.1	12,400.0	40.6	44.6	116.93	-3,182.1	-571.4	617.2	538.2	79.05	7.809	
16,100.0	12,120.0	16,396.1	12,400.0	41.5	45.4	116.93	-3,282.1	-570.8	617.2	536.6	80.60	7.658	
16,200.0	12,120.0	16,496.1	12,400.0	42.3	46.2	116.93	-3,382.1	-570.2	617.2	535.0	82.17	7.512	
16,300.0	12,120.0	16,596.1	12,400.0	43.2	46.9	116.93	-3,482.1	-569.5	617.2	533.5	83.75	7.370	
16,400.0	12,120.0	16,696.1	12,400.0	44.1	47.7	116.93	-3,582.1	-568.9	617.2	531.9	85.34	7.233	
16,500.0	12,120.0	16,796.1	12,400.0	45.0	48.5	116.93	-3,682.1	-568.3	617.2	530.3	86.94	7.099	
16,600.0	12,120.0	16,896.1	12,400.0	45.9	49.3	116.93	-3,782.1	-567.7	617.2	528.7	88.54	6.970	
16,700.0	12,120.0	16,996.1	12,400.0	46.8	50.1	116.93	-3,882.1	-567.1	617.2	527.0	90.16	6.845	
16,800.0	12,120.0	17,096.1	12,400.0	47.7	50.9	116.93	-3,982.1	-566.5	617.2	525.4	91.79	6.724	
16,900.0	12,120.0	17,196.1	12,400.0	48.6	51.8	116.93	-4,082.1	-565.8	617.2	523.8	93.42	6.607	
17,000.0	12,120.0	17,296.1	12,400.0	49.5	52.6	116.93	-4,182.1	-565.2	617.2	522.1	95.06	6.493	
17,100.0	12,120.0	17,396.1	12,400.0	50.4	53.4	116.93	-4,282.1	-564.6	617.2	520.5	96.71	6.382	
17,200.0	12,120.0	17,496.1	12,400.0	51.3	54.3	116.93	-4,382.1	-564.0	617.2	518.8	98.36	6.275	
17,300.0	12,120.0	17,596.1	12,400.0	52.2	55.1	116.93	-4,482.1	-563.4	617.2	517.1	100.02	6.170	
17,400.0	12,120.0	17,696.1	12,400.0	53.1	56.0	116.93	-4,582.1	-562.8	617.2	515.5	101.69	6.069	
17,500.0	12,120.0	17,796.1	12,400.0	54.0	56.8	116.93	-4,682.1	-562.1	617.2	513.8	103.36	5.971	
17,600.0	12,120.0	17,896.1	12,400.0	54.9	57.7	116.93	-4,782.1	-561.5	617.2	512.1	105.04	5.875	
17,700.0	12,120.0	17,996.1	12,400.0	55.9	58.5	116.93	-4,882.1	-560.9	617.2	510.4	106.72	5.783	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 802H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,800.0	12,120.0	18,096.1	12,400.0	56.8	59.4	116.93	-4,982.1	-560.3	617.2	508.7	108.41	5.693	
17,900.0	12,120.0	18,196.1	12,400.0	57.7	60.3	116.93	-5,082.1	-559.7	617.1	507.0	110.10	5.605	
18,000.0	12,120.0	18,296.1	12,400.0	58.6	61.1	116.93	-5,182.1	-559.1	617.1	505.3	111.80	5.520	
18,100.0	12,120.0	18,396.1	12,400.0	59.5	62.0	116.93	-5,282.1	-558.4	617.1	503.6	113.50	5.437	
18,200.0	12,120.0	18,496.1	12,400.0	60.5	62.9	116.93	-5,382.1	-557.8	617.1	501.9	115.21	5.357	
18,300.0	12,120.0	18,596.1	12,400.0	61.4	63.8	116.93	-5,482.1	-557.2	617.1	500.2	116.92	5.278	
18,400.0	12,120.0	18,696.1	12,400.0	62.3	64.6	116.93	-5,582.0	-556.6	617.1	498.5	118.63	5.202	
18,500.0	12,120.0	18,796.1	12,400.0	63.2	65.5	116.93	-5,682.0	-556.0	617.1	496.8	120.35	5.128	
18,600.0	12,120.0	18,896.1	12,400.0	64.2	66.4	116.93	-5,782.0	-555.4	617.1	495.0	122.07	5.055	
18,700.0	12,120.0	18,996.1	12,400.0	65.1	67.3	116.93	-5,882.0	-554.7	617.1	493.3	123.79	4.985	
18,800.0	12,120.0	19,096.1	12,400.0	66.0	68.2	116.93	-5,982.0	-554.1	617.1	491.6	125.52	4.916	
18,900.0	12,120.0	19,196.1	12,400.0	67.0	69.1	116.93	-6,082.0	-553.5	617.1	489.9	127.25	4.850	
19,000.0	12,120.0	19,296.1	12,400.0	67.9	70.0	116.93	-6,182.0	-552.9	617.1	488.1	128.98	4.784	
19,100.0	12,120.0	19,396.1	12,400.0	68.8	70.9	116.93	-6,282.0	-552.3	617.1	486.4	130.72	4.721	
19,200.0	12,120.0	19,496.1	12,400.0	69.8	71.8	116.93	-6,382.0	-551.7	617.1	484.6	132.46	4.659	
19,300.0	12,120.0	19,596.1	12,400.0	70.7	72.7	116.93	-6,482.0	-551.1	617.1	482.9	134.20	4.598	
19,400.0	12,120.0	19,696.1	12,400.0	71.6	73.6	116.93	-6,582.0	-550.4	617.1	481.1	135.94	4.539	
19,500.0	12,120.0	19,796.1	12,400.0	72.6	74.5	116.93	-6,682.0	-549.8	617.1	479.4	137.69	4.482	
19,600.0	12,120.0	19,896.1	12,400.0	73.5	75.4	116.93	-6,782.0	-549.2	617.1	477.6	139.44	4.425	
19,700.0	12,120.0	19,996.1	12,400.0	74.4	76.3	116.93	-6,882.0	-548.6	617.1	475.9	141.19	4.371	
19,800.0	12,120.0	20,096.1	12,400.0	75.4	77.2	116.93	-6,982.0	-548.0	617.1	474.1	142.94	4.317	
19,900.0	12,120.0	20,196.1	12,400.0	76.3	78.2	116.93	-7,082.0	-547.4	617.1	472.4	144.70	4.265	
20,000.0	12,120.0	20,296.1	12,400.0	77.3	79.1	116.93	-7,182.0	-546.7	617.1	470.6	146.45	4.213	
20,100.0	12,120.0	20,396.1	12,400.0	78.2	80.0	116.93	-7,282.0	-546.1	617.1	468.8	148.21	4.163	
20,200.0	12,120.0	20,496.1	12,400.0	79.1	80.9	116.93	-7,382.0	-545.5	617.1	467.1	149.97	4.114	
20,300.0	12,120.0	20,596.1	12,400.0	80.1	81.8	116.93	-7,482.0	-544.9	617.0	465.3	151.73	4.067	
20,400.0	12,120.0	20,696.1	12,400.0	81.0	82.7	116.93	-7,582.0	-544.3	617.0	463.5	153.50	4.020	
20,500.0	12,120.0	20,796.1	12,400.0	82.0	83.7	116.93	-7,682.0	-543.7	617.0	461.8	155.26	3.974	
20,600.0	12,120.0	20,896.1	12,400.0	82.9	84.6	116.93	-7,782.0	-543.0	617.0	460.0	157.03	3.929	
20,700.0	12,120.0	20,996.1	12,400.0	83.9	85.5	116.93	-7,882.0	-542.4	617.0	458.2	158.80	3.886	
20,800.0	12,120.0	21,096.1	12,400.0	84.8	86.4	116.93	-7,982.0	-541.8	617.0	456.5	160.57	3.843	
20,900.0	12,120.0	21,196.1	12,400.0	85.7	87.4	116.94	-8,082.0	-541.2	617.0	454.7	162.34	3.801	
21,000.0	12,120.0	21,296.1	12,400.0	86.7	88.3	116.94	-8,182.0	-540.6	617.0	452.9	164.12	3.760	
21,100.0	12,120.0	21,396.1	12,400.0	87.6	89.2	116.94	-8,282.0	-540.0	617.0	451.1	165.89	3.719	
21,200.0	12,120.0	21,496.1	12,400.0	88.6	90.1	116.94	-8,382.0	-539.3	617.0	449.3	167.67	3.680	
21,300.0	12,120.0	21,596.1	12,400.0	89.5	91.1	116.94	-8,482.0	-538.7	617.0	447.6	169.44	3.641	
21,400.0	12,120.0	21,696.1	12,400.0	90.5	92.0	116.94	-8,582.0	-538.1	617.0	445.8	171.22	3.604	
21,500.0	12,120.0	21,796.1	12,400.0	91.4	92.9	116.94	-8,682.0	-537.5	617.0	444.0	173.00	3.566	
21,600.0	12,120.0	21,896.1	12,400.0	92.4	93.8	116.94	-8,782.0	-536.9	617.0	442.2	174.78	3.530	
21,700.0	12,120.0	21,996.1	12,400.0	93.3	94.8	116.94	-8,882.0	-536.3	617.0	440.4	176.56	3.494	
21,800.0	12,120.0	22,096.1	12,400.0	94.3	95.7	116.94	-8,982.0	-535.6	617.0	438.6	178.35	3.459	
21,900.0	12,120.0	22,196.1	12,400.0	95.2	96.6	116.94	-9,082.0	-535.0	617.0	436.9	180.13	3.425	
22,000.0	12,120.0	22,296.1	12,400.0	96.2	97.6	116.94	-9,182.0	-534.4	617.0	435.1	181.92	3.392	
22,100.0	12,120.0	22,396.1	12,400.0	97.1	98.5	116.94	-9,282.0	-533.8	617.0	433.3	183.70	3.359	
22,200.0	12,120.0	22,496.1	12,400.0	98.1	99.4	116.94	-9,382.0	-533.2	617.0	431.5	185.49	3.326	
22,300.0	12,120.0	22,596.1	12,400.0	99.0	100.4	116.94	-9,482.0	-532.6	617.0	429.7	187.28	3.294	
22,400.0	12,120.0	22,696.1	12,400.0	100.0	101.3	116.94	-9,582.0	-531.9	617.0	427.9	189.07	3.263	
22,500.0	12,120.0	22,796.1	12,400.0	100.9	102.2	116.94	-9,682.0	-531.3	617.0	426.1	190.86	3.233	
22,519.8	12,120.0	22,815.9	12,400.0	101.1	102.4	116.94	-9,701.8	-531.2	617.0	425.7	191.21	3.227 SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 802H - PILOT - PWP0 (PH)													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.5	0.5	3.0	3.0	0.00	44.9	0.0	44.9					
100.0	100.0	100.5	100.5	3.1	3.0	0.00	44.9	0.0	44.9	38.3	6.57	6.836		
200.0	200.0	200.5	200.5	3.3	3.2	0.00	44.9	0.0	44.9	38.0	6.92	6.488		
300.0	300.0	300.5	300.5	3.5	3.3	0.00	44.9	0.0	44.9	37.6	7.26	6.184		
400.0	400.0	400.5	400.5	3.7	3.4	0.00	44.9	0.0	44.9	37.3	7.59	5.916		
500.0	500.0	500.5	500.5	3.9	3.5	0.00	44.9	0.0	44.9	37.0	7.91	5.677		
600.0	600.0	600.5	600.5	4.1	3.7	0.00	44.9	0.0	44.9	36.7	8.22	5.463		
700.0	700.0	700.5	700.5	4.3	3.8	0.00	44.9	0.0	44.9	36.4	8.52	5.268		
800.0	800.0	800.5	800.5	4.5	3.9	0.00	44.9	0.0	44.9	36.1	8.82	5.091		
900.0	900.0	900.5	900.5	4.7	4.0	0.00	44.9	0.0	44.9	35.8	9.11	4.928		
966.5	966.5	967.0	967.0	4.8	4.1	0.00	44.9	0.0	44.9	35.6	9.30	4.828 CC		
1,000.0	1,000.0	1,000.0	1,000.0	4.8	4.2	0.00	44.9	0.0	44.9	35.5	9.40	4.779 ES		
1,100.0	1,100.0	1,099.2	1,099.2	5.0	4.3	-1.28	46.3	-1.0	46.3	36.6	9.73	4.760 SF		
1,200.0	1,200.0	1,197.7	1,197.5	5.2	4.6	-4.66	50.3	-4.1	50.6	40.5	10.13	4.997		
1,300.0	1,300.0	1,295.7	1,295.2	5.3	4.9	-9.13	57.1	-9.2	58.1	47.5	10.54	5.509		
1,400.0	1,400.0	1,393.1	1,391.8	5.5	5.2	-13.71	66.4	-16.2	68.9	57.9	10.96	6.284		
1,500.0	1,500.0	1,489.5	1,487.1	5.6	5.6	-17.80	78.2	-25.1	83.2	71.8	11.40	7.299		
1,600.0	1,600.0	1,587.8	1,583.9	5.8	5.9	-31.24	91.8	-35.4	99.1	87.2	11.83	8.372		
1,700.0	1,700.0	1,686.5	1,681.2	5.9	6.1	-34.21	105.5	-45.7	113.7	101.5	12.28	9.260		
1,800.0	1,799.9	1,785.4	1,778.6	6.1	6.5	-36.96	119.2	-56.0	127.3	114.5	12.76	9.973		
1,900.0	1,899.7	1,884.5	1,876.1	6.3	6.8	-39.61	133.0	-66.4	139.7	126.5	13.27	10.531		
2,000.0	1,999.4	1,983.6	1,973.7	6.5	7.1	-42.25	146.7	-76.7	151.2	137.4	13.79	10.959		
2,100.0	2,098.8	2,082.8	2,071.5	6.8	7.5	-36.67	160.5	-87.1	160.6	146.2	14.37	11.175		
2,200.0	2,197.9	2,182.3	2,169.4	7.1	7.8	-34.69	174.3	-97.5	167.1	152.1	14.97	11.161		
2,215.1	2,212.9	2,197.4	2,184.2	7.1	7.9	-34.58	176.4	-99.1	167.8	152.7	15.04	11.156		
2,300.0	2,296.7	2,281.8	2,267.4	7.3	8.2	-36.98	188.1	-107.9	171.8	156.3	15.52	11.067		
2,400.0	2,395.5	2,381.4	2,365.5	7.6	8.6	-39.65	201.9	-118.3	176.9	160.8	16.08	10.997		
2,500.0	2,494.2	2,480.9	2,463.5	7.9	9.0	-42.18	215.7	-128.7	182.3	165.7	16.64	10.958		
2,600.0	2,593.0	2,580.5	2,561.5	8.2	9.4	-44.55	229.5	-139.1	188.1	170.9	17.19	10.945		
2,700.0	2,691.8	2,680.0	2,659.5	8.5	9.8	-46.78	243.3	-149.5	194.2	176.5	17.73	10.955		
2,800.0	2,790.5	2,779.5	2,757.6	8.9	10.2	-48.87	257.1	-159.9	200.6	182.3	18.26	10.986		
2,900.0	2,889.3	2,879.1	2,855.6	9.2	10.6	-50.83	270.9	-170.3	207.2	188.4	18.78	11.034		
3,000.0	2,988.1	2,978.6	2,953.6	9.6	11.0	-52.67	284.7	-180.7	214.1	194.8	19.29	11.098		
3,100.0	3,086.8	3,078.1	3,051.6	9.9	11.4	-54.39	298.5	-191.1	221.1	201.3	19.79	11.174		
3,200.0	3,185.6	3,177.7	3,149.6	10.3	11.8	-56.01	312.3	-201.5	228.4	208.1	20.28	11.262		
3,300.0	3,284.4	3,277.2	3,247.7	10.7	12.2	-57.52	326.1	-211.9	235.8	215.0	20.76	11.358		
3,400.0	3,383.1	3,376.7	3,345.7	11.0	12.7	-58.95	339.9	-222.3	243.4	222.1	21.23	11.462		
3,500.0	3,481.9	3,476.3	3,443.7	11.4	13.1	-60.28	353.7	-232.7	251.1	229.4	21.70	11.572		
3,600.0	3,580.7	3,575.8	3,541.7	11.8	13.5	-61.54	367.5	-243.1	258.9	236.7	22.15	11.686		
3,700.0	3,679.5	3,675.4	3,639.8	12.2	13.9	-62.72	381.3	-253.5	266.9	244.3	22.61	11.805		
3,800.0	3,778.2	3,774.9	3,737.8	12.6	14.4	-63.83	395.1	-263.9	274.9	251.9	23.05	11.927		
3,900.0	3,877.0	3,874.4	3,835.8	13.0	14.8	-64.88	408.9	-274.3	283.1	259.6	23.49	12.051		
4,000.0	3,975.8	3,974.0	3,933.8	13.4	15.2	-65.87	422.8	-284.7	291.3	267.4	23.93	12.176		
4,100.0	4,074.5	4,073.5	4,031.9	13.8	15.7	-66.81	436.6	-295.1	299.7	275.3	24.36	12.303		
4,200.0	4,173.3	4,173.0	4,129.9	14.2	16.1	-67.69	450.4	-305.5	308.1	283.3	24.78	12.431		
4,300.0	4,272.1	4,272.6	4,227.9	14.6	16.5	-68.53	464.2	-315.9	316.5	291.3	25.21	12.558		
4,400.0	4,370.8	4,372.1	4,325.9	15.0	17.0	-69.33	478.0	-326.3	325.1	299.4	25.62	12.686		
4,500.0	4,469.6	4,471.6	4,424.0	15.4	17.4	-70.08	491.8	-336.7	333.7	307.6	26.04	12.813		
4,600.0	4,568.4	4,571.2	4,522.0	15.8	17.9	-70.79	505.6	-347.1	342.3	315.9	26.46	12.939		
4,700.0	4,667.1	4,670.7	4,620.0	16.2	18.3	-71.47	519.4	-357.5	351.0	324.1	26.87	13.064		
4,800.0	4,765.9	4,770.2	4,718.0	16.7	18.7	-72.12	533.2	-367.9	359.8	332.5	27.28	13.189		
4,900.0	4,864.7	4,869.8	4,816.1	17.1	19.2	-72.74	547.0	-378.3	368.6	340.9	27.69	13.312		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 802H - PILOT - PWP0 (PH)												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,963.4	4,969.3	4,914.1	17.5	19.6	-73.33	560.8	-388.8	377.4	349.3	28.09	13.434	
5,100.0	5,062.2	5,068.9	5,012.1	17.9	20.1	-73.89	574.6	-399.2	386.3	357.8	28.50	13.554	
5,200.0	5,161.0	5,168.4	5,110.1	18.3	20.5	-74.42	588.4	-409.6	395.2	366.3	28.90	13.673	
5,300.0	5,259.8	5,267.9	5,208.2	18.8	21.0	-74.94	602.2	-420.0	404.1	374.8	29.30	13.790	
5,400.0	5,358.5	5,367.5	5,306.2	19.2	21.4	-75.43	616.0	-430.4	413.1	383.4	29.70	13.906	
5,500.0	5,457.3	5,467.0	5,404.2	19.6	21.8	-75.89	629.8	-440.8	422.1	392.0	30.11	14.020	
5,600.0	5,556.1	5,566.5	5,502.2	20.0	22.3	-76.34	643.6	-451.2	431.1	400.6	30.50	14.132	
5,700.0	5,654.8	5,666.1	5,600.2	20.5	22.7	-76.78	657.4	-461.6	440.1	409.2	30.90	14.243	
5,800.0	5,753.6	5,765.6	5,698.3	20.9	23.2	-77.19	671.2	-472.0	449.2	417.9	31.30	14.351	
5,900.0	5,852.4	5,865.1	5,796.3	21.3	23.6	-77.59	685.0	-482.4	458.3	426.6	31.70	14.458	
6,000.0	5,951.1	5,964.7	5,894.3	21.8	24.1	-77.97	698.8	-492.8	467.4	435.3	32.10	14.564	
6,100.0	6,049.9	6,064.2	5,992.3	22.2	24.5	-78.34	712.6	-503.2	476.6	444.1	32.49	14.667	
6,200.0	6,148.7	6,163.8	6,090.4	22.6	25.0	-78.69	726.4	-513.6	485.7	452.8	32.89	14.769	
6,300.0	6,247.4	6,263.3	6,188.4	23.1	25.4	-79.03	740.2	-524.0	494.9	461.6	33.28	14.869	
6,400.0	6,346.2	6,362.8	6,286.4	23.5	25.9	-79.36	754.0	-534.4	504.1	470.4	33.68	14.967	
6,500.0	6,445.0	6,463.0	6,385.1	23.9	26.3	-79.68	767.9	-544.8	513.3	479.2	34.06	15.069	
6,600.0	6,543.7	6,569.1	6,489.8	24.4	26.8	-80.10	781.7	-555.2	521.8	487.3	34.44	15.151	
6,700.0	6,642.5	6,675.3	6,594.9	24.8	27.2	-80.66	794.0	-564.5	529.0	494.3	34.75	15.224	
6,800.0	6,741.3	6,781.5	6,700.2	25.2	27.7	-81.36	804.7	-572.5	535.1	500.1	34.98	15.294	
6,859.4	6,800.0	6,844.7	6,763.0	25.5	27.9	-81.85	810.3	-576.8	538.1	503.1	35.08	15.342	
6,900.0	6,840.1	6,887.7	6,805.8	25.6	28.1	-82.21	813.8	-579.4	540.0	504.9	35.13	15.373	
7,000.0	6,939.1	6,993.9	6,911.5	26.1	28.5	-83.06	821.4	-585.1	544.0	508.8	35.26	15.428	
7,100.0	7,038.3	7,100.1	7,017.5	26.5	28.9	-83.86	827.4	-589.6	547.2	511.8	35.38	15.465	
7,200.0	7,137.7	7,206.2	7,123.5	26.9	29.3	-84.60	831.8	-593.0	549.4	513.9	35.48	15.486	
7,300.0	7,237.3	7,312.4	7,229.5	27.3	29.6	-85.30	834.7	-595.1	550.7	515.2	35.55	15.494	
7,400.0	7,337.1	7,418.4	7,335.6	27.6	29.9	-85.96	836.0	-596.1	551.1	515.6	35.56	15.498	
7,500.0	7,436.9	7,520.3	7,437.4	28.0	29.9	-86.52	836.0	-596.2	550.8	515.4	35.49	15.522	
7,600.0	7,536.9	7,620.2	7,537.4	28.3	29.9	-86.90	836.0	-596.2	550.6	515.1	35.49	15.516	
7,700.0	7,636.9	7,720.2	7,637.4	28.6	30.0	-87.09	836.0	-596.2	550.5	515.0	35.54	15.489	
7,759.4	7,696.3	7,779.7	7,696.8	28.6	30.0	-90.73	836.0	-596.2	550.5	514.9	35.59	15.467	
7,800.0	7,736.9	7,820.2	7,737.4	28.7	30.0	-90.73	836.0	-596.2	550.5	514.9	35.63	15.450	
7,900.0	7,836.9	7,920.2	7,837.4	28.7	30.1	-90.73	836.0	-596.2	550.5	514.8	35.75	15.398	
8,000.0	7,936.9	8,020.2	7,937.4	28.8	30.1	-90.73	836.0	-596.2	550.5	514.6	35.87	15.346	
8,100.0	8,036.9	8,120.2	8,037.4	28.8	30.1	-90.73	836.0	-596.2	550.5	514.5	35.99	15.295	
8,200.0	8,136.9	8,220.2	8,137.4	28.9	30.2	-90.73	836.0	-596.2	550.5	514.4	36.12	15.243	
8,300.0	8,236.9	8,320.2	8,237.4	28.9	30.2	-90.73	836.0	-596.2	550.5	514.3	36.24	15.192	
8,400.0	8,336.9	8,420.2	8,337.4	29.0	30.2	-90.73	836.0	-596.2	550.5	514.2	36.36	15.141	
8,500.0	8,436.9	8,520.2	8,437.4	29.0	30.3	-90.73	836.0	-596.2	550.5	514.0	36.48	15.090	
8,600.0	8,536.9	8,620.2	8,537.4	29.1	30.3	-90.73	836.0	-596.2	550.5	513.9	36.60	15.040	
8,700.0	8,636.9	8,720.2	8,637.4	29.1	30.4	-90.73	836.0	-596.2	550.5	513.8	36.73	14.990	
8,800.0	8,736.9	8,820.2	8,737.4	29.2	30.4	-90.73	836.0	-596.2	550.5	513.7	36.85	14.939	
8,900.0	8,836.9	8,920.2	8,837.4	29.2	30.4	-90.73	836.0	-596.2	550.5	513.5	36.97	14.890	
9,000.0	8,936.9	9,020.2	8,937.4	29.3	30.5	-90.73	836.0	-596.2	550.5	513.4	37.10	14.840	
9,100.0	9,036.9	9,120.2	9,037.4	29.3	30.5	-90.73	836.0	-596.2	550.5	513.3	37.22	14.790	
9,200.0	9,136.9	9,220.2	9,137.4	29.4	30.5	-90.73	836.0	-596.2	550.5	513.2	37.35	14.741	
9,300.0	9,236.9	9,320.2	9,237.4	29.4	30.6	-90.73	836.0	-596.2	550.5	513.0	37.47	14.692	
9,400.0	9,336.9	9,420.2	9,337.4	29.5	30.6	-90.73	836.0	-596.2	550.5	512.9	37.60	14.643	
9,500.0	9,436.9	9,520.2	9,437.4	29.5	30.7	-90.73	836.0	-596.2	550.5	512.8	37.72	14.595	
9,600.0	9,536.9	9,620.2	9,537.4	29.6	30.7	-90.73	836.0	-596.2	550.5	512.7	37.85	14.546	
9,700.0	9,636.9	9,720.2	9,637.4	29.6	30.7	-90.73	836.0	-596.2	550.5	512.5	37.97	14.498	
9,800.0	9,736.9	9,820.2	9,737.4	29.7	30.8	-90.73	836.0	-596.2	550.5	512.4	38.10	14.450	
9,900.0	9,836.9	9,920.2	9,837.4	29.7	30.8	-90.73	836.0	-596.2	550.5	512.3	38.22	14.402	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 802H - PILOT - PWP0 (PH)												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,000.0	9,936.9	10,020.2	9,937.4	29.8	30.9	-90.73	836.0	-596.2	550.5	512.2	38.35	14.355	
10,100.0	10,036.9	10,120.2	10,037.4	29.9	30.9	-90.73	836.0	-596.2	550.5	512.0	38.48	14.308	
10,200.0	10,136.9	10,220.2	10,137.4	29.9	30.9	-90.73	836.0	-596.2	550.5	511.9	38.60	14.261	
10,300.0	10,236.9	10,320.2	10,237.4	30.0	31.0	-90.73	836.0	-596.2	550.5	511.8	38.73	14.214	
10,400.0	10,336.9	10,420.2	10,337.4	30.0	31.0	-90.73	836.0	-596.2	550.5	511.7	38.86	14.167	
10,500.0	10,436.9	10,520.2	10,437.4	30.1	31.1	-90.73	836.0	-596.2	550.5	511.5	38.99	14.121	
10,600.0	10,536.9	10,620.2	10,537.4	30.1	31.1	-90.73	836.0	-596.2	550.5	511.4	39.11	14.074	
10,700.0	10,636.9	10,720.2	10,637.4	30.2	31.1	-90.73	836.0	-596.2	550.5	511.3	39.24	14.028	
10,800.0	10,736.9	10,820.2	10,737.4	30.2	31.2	-90.73	836.0	-596.2	550.5	511.1	39.37	13.983	
10,900.0	10,836.9	10,920.2	10,837.4	30.3	31.2	-90.73	836.0	-596.2	550.5	511.0	39.50	13.937	
11,000.0	10,936.9	11,020.2	10,937.4	30.3	31.3	-90.73	836.0	-596.2	550.5	510.9	39.63	13.892	
11,100.0	11,036.9	11,120.2	11,037.4	30.4	31.3	-90.73	836.0	-596.2	550.5	510.8	39.76	13.846	
11,200.0	11,136.9	11,220.2	11,137.4	30.5	31.3	-90.73	836.0	-596.2	550.5	510.6	39.89	13.801	
11,300.0	11,236.9	11,320.2	11,237.4	30.5	31.4	-90.73	836.0	-596.2	550.5	510.5	40.02	13.757	
11,400.0	11,336.9	11,420.2	11,337.4	30.6	31.4	-90.73	836.0	-596.2	550.5	510.4	40.15	13.712	
11,500.0	11,436.9	11,520.2	11,437.4	30.6	31.5	-90.73	836.0	-596.2	550.5	510.2	40.28	13.668	
11,600.0	11,536.9	11,620.2	11,537.4	30.7	31.5	-90.73	836.0	-596.2	550.5	510.1	40.41	13.624	
11,700.0	11,636.9	11,720.2	11,637.4	30.7	31.6	-90.73	836.0	-596.2	550.5	510.0	40.54	13.579	
11,705.7	11,642.5	11,725.9	11,643.0	30.7	31.6	-90.73	836.0	-596.2	550.5	510.0	40.55	13.576	
11,725.0	11,661.9	11,745.2	11,662.4	30.7	31.6	-89.67	836.0	-596.2	550.5	509.9	40.59	13.562	
11,750.0	11,686.8	11,770.1	11,687.3	30.6	31.6	-89.84	836.0	-596.2	550.5	509.9	40.65	13.542	
11,764.4	11,701.1	11,784.5	11,701.6	30.6	31.6	-90.00	836.0	-596.2	550.5	509.8	40.71	13.524	
11,775.0	11,711.6	11,795.0	11,712.1	30.5	31.6	-90.15	836.0	-596.2	550.5	509.8	40.75	13.508	
11,800.0	11,736.2	11,819.6	11,736.7	30.5	31.6	-90.58	836.0	-596.2	550.5	509.6	40.90	13.462	
11,825.0	11,760.6	11,844.0	11,761.1	30.4	31.6	-91.13	836.0	-596.2	550.6	509.5	41.08	13.403	
11,850.0	11,784.7	11,868.0	11,785.2	30.2	31.6	-91.79	836.0	-596.2	550.8	509.5	41.31	13.333	
11,875.0	11,808.3	11,891.7	11,808.8	30.1	31.6	-92.55	836.0	-596.2	551.1	509.5	41.58	13.253	
11,900.0	11,831.5	11,914.9	11,832.0	30.0	31.6	-93.38	836.0	-596.2	551.6	509.7	41.91	13.164	
11,925.0	11,854.2	11,937.6	11,854.7	29.9	31.7	-94.27	836.0	-596.2	552.4	510.1	42.28	13.067	
11,950.0	11,876.3	11,959.7	11,876.8	29.8	31.7	-95.21	836.0	-596.2	553.5	510.8	42.69	12.965	
11,975.0	11,897.8	11,981.1	11,898.3	29.7	31.7	-96.16	836.0	-596.2	555.0	511.8	43.16	12.859	
12,000.0	11,918.6	12,001.9	11,919.1	29.6	31.7	-97.12	836.0	-596.2	556.9	513.3	43.67	12.754	
12,025.0	11,938.6	12,021.9	11,939.1	29.5	31.7	-98.05	836.0	-596.2	559.4	515.2	44.22	12.650	
12,050.0	11,957.8	12,041.1	11,958.3	29.4	31.7	-98.94	836.0	-596.2	562.4	517.6	44.81	12.551	
12,075.0	11,976.1	12,059.5	11,976.6	29.3	31.7	-99.75	836.0	-596.2	566.2	520.7	45.44	12.460	
12,100.0	11,993.5	12,076.9	11,994.0	29.2	31.7	-100.48	836.0	-596.2	570.6	524.5	46.09	12.380	
12,125.0	12,010.0	12,093.3	12,010.5	29.1	31.7	-101.09	836.0	-596.2	575.9	529.1	46.77	12.313	
12,150.0	12,025.4	12,108.8	12,025.9	29.0	31.7	-101.57	836.0	-596.2	581.9	534.5	47.46	12.262	
12,175.0	12,039.8	12,123.2	12,040.3	28.9	31.7	-101.89	836.0	-596.2	588.9	540.7	48.16	12.228	
12,200.0	12,053.2	12,136.5	12,053.7	28.9	31.7	-102.05	836.0	-596.2	596.7	547.9	48.85	12.215	
12,225.0	12,065.4	12,148.7	12,065.9	28.8	31.7	-102.01	836.0	-596.2	605.5	555.9	49.54	12.222	
12,250.0	12,076.4	12,159.7	12,076.9	28.7	31.7	-101.76	836.0	-596.2	615.1	564.9	50.21	12.251	
12,275.0	12,086.2	12,169.6	12,086.7	28.7	31.8	-101.29	836.0	-596.2	625.7	574.9	50.86	12.302	
12,300.0	12,094.8	12,178.2	12,095.3	28.6	31.8	-100.58	836.0	-596.2	637.2	585.7	51.49	12.375	
12,325.0	12,102.2	12,185.6	12,102.7	28.6	31.8	-99.61	836.0	-596.2	649.6	597.5	52.09	12.471	
12,350.0	12,108.4	12,191.7	12,108.9	28.6	31.8	-98.37	836.0	-596.2	662.8	610.1	52.65	12.587	
12,375.0	12,113.2	12,196.5	12,113.7	28.5	31.8	-96.86	836.0	-596.2	676.7	623.5	53.18	12.724	
12,400.0	12,116.8	12,200.1	12,117.3	28.5	31.8	-95.05	836.0	-596.2	691.4	637.7	53.68	12.880	
12,425.0	12,119.0	12,202.4	12,119.5	28.5	31.8	-92.96	836.0	-596.2	706.7	652.6	54.14	13.053	
12,450.0	12,120.0	12,203.3	12,120.5	28.5	31.8	-90.58	836.0	-596.2	722.7	668.1	54.57	13.243	
12,455.7	12,120.0	12,203.3	12,120.5	28.5	31.8	-90.00	836.0	-596.2	726.4	671.7	54.66	13.288	
12,500.0	12,120.0	12,203.3	12,120.5	28.5	31.8	-90.00	836.0	-596.2	756.0	700.7	55.33	13.664	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 802H - PILOT - PWP0 (PH)											Offset Site Error:	0.0 usft
Survey Program:	0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,600.0	12,120.0	12,203.3	12,120.5	28.5	31.8	90.00	836.0	-596.2	827.8	771.3	56.49	14.654	
12,700.0	12,120.0	12,203.3	12,120.5	28.5	31.8	90.00	836.0	-596.2	904.9	847.6	57.28	15.797	
12,800.0	12,120.0	12,203.3	12,120.5	28.5	31.8	90.00	836.0	-596.2	986.1	928.3	57.82	17.056	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	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 @ 3398.3usft

Offset Depths are relative to Offset Datum

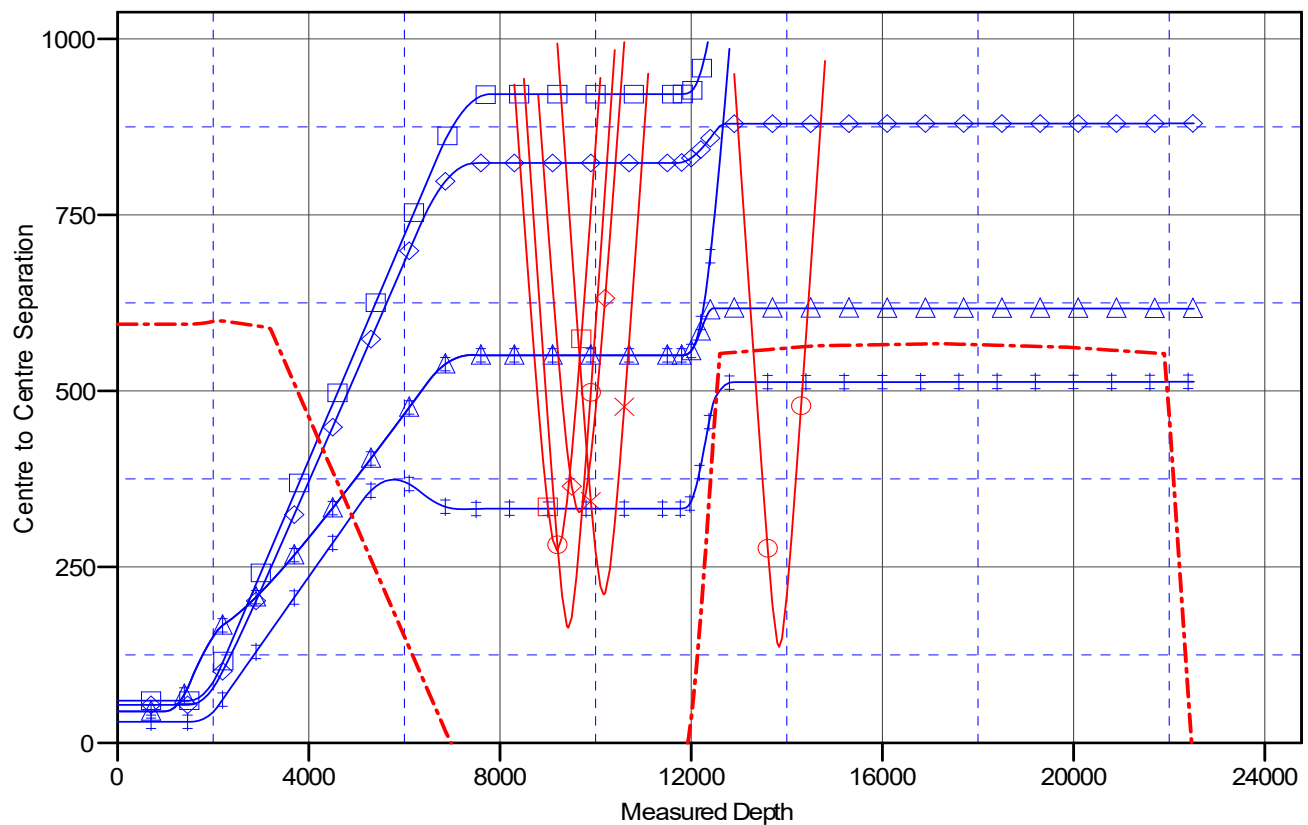
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: HARRIER FEDERAL COM 704H

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

Grid Convergence at Surface is: 0.36°

Ladder Plot



LEGEND

HARRIER FEDERAL COM 704H, OWB, PWP0 V0	HARRIER FEDERAL COM 802H, PILOT, PWP0 (PH) V0	HARRIER FEDERAL COM 704H, OWB, PWP0 V0
HARRIER FEDERAL COM #33H, OWB, AWP V0	HARRIER FEDERAL COM 704H, OWB, PWP0 V0	HARRIER FEDERAL COM 802H, OWB, PWP0 V0
HARRIER FEDERAL COM #33H, OWB, AWP V0	HARRIER FEDERAL COM #23H, OWB, AWP V0	
HARRIER FEDERAL COM #12H, OWB, AWP V0	HARRIER 35 FEDERAL COM #H, OWB, AWP V0	

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

ConocoPhillips

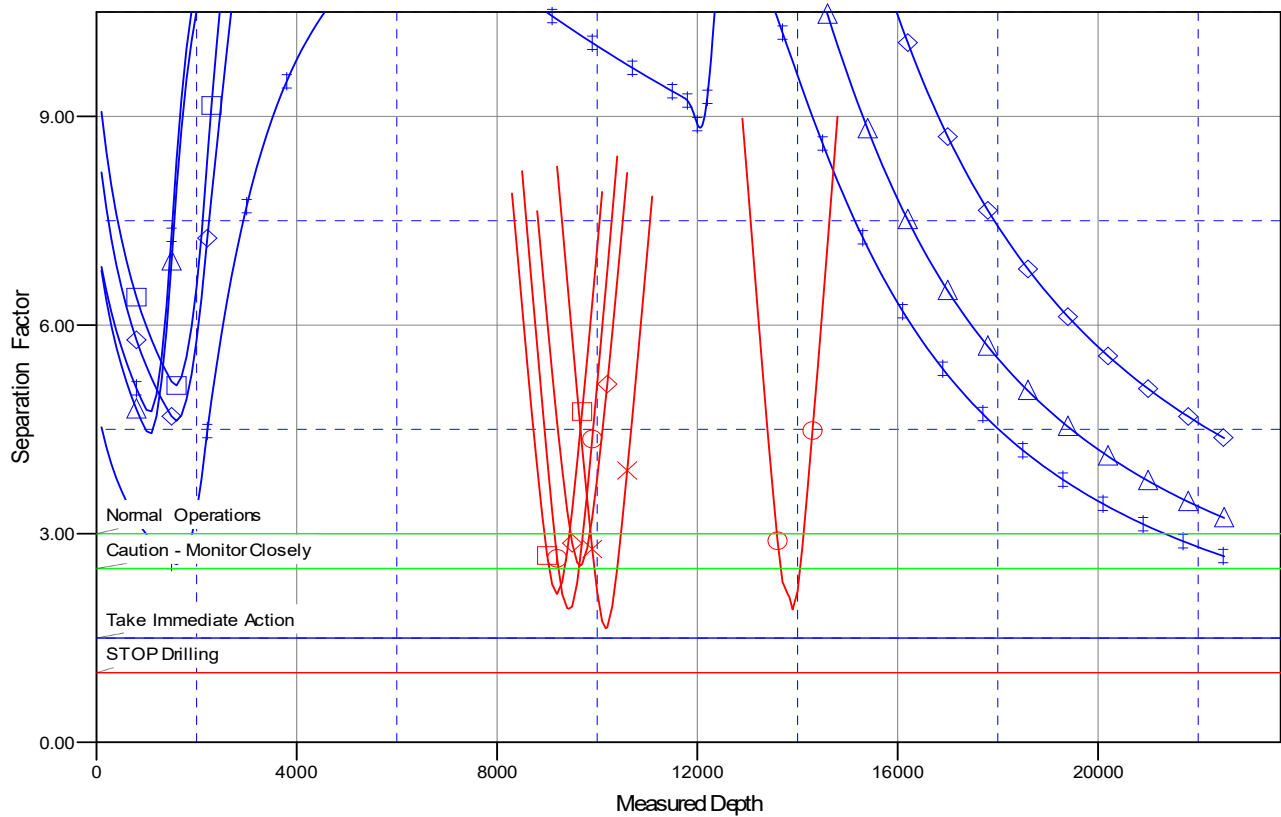
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.3usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 704H	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 @ 3398.3usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: HARRIER FEDERAL COM 704H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.36°

Separation Factor Plot



DELAWARE BASIN EAST

LEA COUNT SOUTH WEST (NM-E)

HARRIER FEDERAL PROJECT

HARRIER FEDERAL COM 704H

300254989000

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 704H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32ft @ 3398.3usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB=32ft @ 3398.3usft
Site:	HARRIER FEDERAL PROJECT	North Reference:	Grid
Well:	HARRIER FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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

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

Well	HARRIER FEDERAL COM 704H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	3.0 usft	Wellhead Elevation:	
Grid Convergence:	0.36 °		
		Latitude:	32° 5' 30.045 N
		Longitude:	103° 39' 2.850 W
		Ground Level:	3,366.3 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2023	4/1/2024	6.29	59.61	47,257.48442398

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	179.89	

Plan Survey Tool Program	Date	1/12/2024			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	22,519.8 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 704H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32ft @ 3398.3usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB=32ft @ 3398.3usft
Site:	HARRIER FEDERAL PROJECT	North Reference:	Grid
Well:	HARRIER FEDERAL COM 704H	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	
2,000.0	5.00	10.00	1,999.4	21.5	3.8	1.00	1.00	0.00	10.00	
2,215.1	9.00	356.40	2,212.9	47.5	4.4	2.00	1.86	-6.32	-29.36	
6,859.4	9.00	356.40	6,800.0	772.6	-41.3	0.00	0.00	0.00	0.00	
7,759.4	0.00	0.00	7,696.3	843.0	-45.7	1.00	-1.00	0.40	180.00	
11,705.7	0.00	0.00	11,642.5	843.0	-45.7	0.00	0.00	0.00	0.00	
12,455.7	90.00	179.65	12,120.0	365.6	-42.8	12.00	12.00	23.95	179.65	
22,519.8	90.00	179.65	12,120.0	-9,698.4	18.8	0.00	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32ft @ 3398.3usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB=32ft @ 3398.3usft
Site:	HARRIER FEDERAL PROJECT	North Reference:	Grid
Well:	HARRIER FEDERAL COM 704H	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 1.00									
1,600.0	1.00	10.00	1,600.0	0.9	0.2	-0.9	1.00	1.00	0.00
1,700.0	2.00	10.00	1,700.0	3.4	0.6	-3.4	1.00	1.00	0.00
1,800.0	3.00	10.00	1,799.9	7.7	1.4	-7.7	1.00	1.00	0.00
1,900.0	4.00	10.00	1,899.7	13.7	2.4	-13.7	1.00	1.00	0.00
2,000.0	5.00	10.00	1,999.4	21.5	3.8	-21.5	1.00	1.00	0.00
Start DLS 2.00 TFO -29.36									
2,100.0	6.81	1.71	2,098.8	31.7	4.7	-31.7	2.00	1.81	-8.29
2,200.0	8.71	356.95	2,197.9	45.2	4.5	-45.2	2.00	1.90	-4.76
2,215.1	9.00	356.40	2,212.9	47.5	4.4	-47.5	2.00	1.92	-3.61
Start 4644.3 hold at 2215.1 MD									
2,300.0	9.00	356.40	2,296.7	60.8	3.5	-60.8	0.00	0.00	0.00
2,400.0	9.00	356.40	2,395.5	76.4	2.5	-76.4	0.00	0.00	0.00
2,500.0	9.00	356.40	2,494.2	92.0	1.6	-92.0	0.00	0.00	0.00
2,600.0	9.00	356.40	2,593.0	107.6	0.6	-107.6	0.00	0.00	0.00
2,700.0	9.00	356.40	2,691.8	123.2	-0.4	-123.2	0.00	0.00	0.00
2,800.0	9.00	356.40	2,790.5	138.8	-1.4	-138.8	0.00	0.00	0.00
2,900.0	9.00	356.40	2,889.3	154.4	-2.4	-154.4	0.00	0.00	0.00
3,000.0	9.00	356.40	2,988.1	170.0	-3.4	-170.1	0.00	0.00	0.00
3,100.0	9.00	356.40	3,086.8	185.7	-4.3	-185.7	0.00	0.00	0.00
3,200.0	9.00	356.40	3,185.6	201.3	-5.3	-201.3	0.00	0.00	0.00
3,300.0	9.00	356.40	3,284.4	216.9	-6.3	-216.9	0.00	0.00	0.00
3,400.0	9.00	356.40	3,383.1	232.5	-7.3	-232.5	0.00	0.00	0.00
3,500.0	9.00	356.40	3,481.9	248.1	-8.3	-248.1	0.00	0.00	0.00
3,600.0	9.00	356.40	3,580.7	263.7	-9.2	-263.7	0.00	0.00	0.00
3,700.0	9.00	356.40	3,679.5	279.3	-10.2	-279.4	0.00	0.00	0.00
3,800.0	9.00	356.40	3,778.2	294.9	-11.2	-295.0	0.00	0.00	0.00
3,900.0	9.00	356.40	3,877.0	310.6	-12.2	-310.6	0.00	0.00	0.00
4,000.0	9.00	356.40	3,975.8	326.2	-13.2	-326.2	0.00	0.00	0.00
4,100.0	9.00	356.40	4,074.5	341.8	-14.2	-341.8	0.00	0.00	0.00
4,200.0	9.00	356.40	4,173.3	357.4	-15.1	-357.4	0.00	0.00	0.00
4,300.0	9.00	356.40	4,272.1	373.0	-16.1	-373.0	0.00	0.00	0.00
4,400.0	9.00	356.40	4,370.8	388.6	-17.1	-388.7	0.00	0.00	0.00
4,500.0	9.00	356.40	4,469.6	404.2	-18.1	-404.3	0.00	0.00	0.00
4,600.0	9.00	356.40	4,568.4	419.8	-19.1	-419.9	0.00	0.00	0.00
4,700.0	9.00	356.40	4,667.1	435.5	-20.1	-435.5	0.00	0.00	0.00
4,800.0	9.00	356.40	4,765.9	451.1	-21.0	-451.1	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32ft @ 3398.3usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB=32ft @ 3398.3usft
Site:	HARRIER FEDERAL PROJECT	North Reference:	Grid
Well:	HARRIER FEDERAL COM 704H	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)
4,900.0	9.00	356.40	4,864.7	466.7	-22.0	-466.7	0.00	0.00	0.00
5,000.0	9.00	356.40	4,963.4	482.3	-23.0	-482.3	0.00	0.00	0.00
5,100.0	9.00	356.40	5,062.2	497.9	-24.0	-498.0	0.00	0.00	0.00
5,200.0	9.00	356.40	5,161.0	513.5	-25.0	-513.6	0.00	0.00	0.00
5,300.0	9.00	356.40	5,259.8	529.1	-25.9	-529.2	0.00	0.00	0.00
5,400.0	9.00	356.40	5,358.5	544.8	-26.9	-544.8	0.00	0.00	0.00
5,500.0	9.00	356.40	5,457.3	560.4	-27.9	-560.4	0.00	0.00	0.00
5,600.0	9.00	356.40	5,556.1	576.0	-28.9	-576.0	0.00	0.00	0.00
5,700.0	9.00	356.40	5,654.8	591.6	-29.9	-591.6	0.00	0.00	0.00
5,800.0	9.00	356.40	5,753.6	607.2	-30.9	-607.3	0.00	0.00	0.00
5,900.0	9.00	356.40	5,852.4	622.8	-31.8	-622.9	0.00	0.00	0.00
6,000.0	9.00	356.40	5,951.1	638.4	-32.8	-638.5	0.00	0.00	0.00
6,100.0	9.00	356.40	6,049.9	654.0	-33.8	-654.1	0.00	0.00	0.00
6,200.0	9.00	356.40	6,148.7	669.7	-34.8	-669.7	0.00	0.00	0.00
6,300.0	9.00	356.40	6,247.4	685.3	-35.8	-685.3	0.00	0.00	0.00
6,400.0	9.00	356.40	6,346.2	700.9	-36.7	-700.9	0.00	0.00	0.00
6,500.0	9.00	356.40	6,445.0	716.5	-37.7	-716.6	0.00	0.00	0.00
6,600.0	9.00	356.40	6,543.7	732.1	-38.7	-732.2	0.00	0.00	0.00
6,700.0	9.00	356.40	6,642.5	747.7	-39.7	-747.8	0.00	0.00	0.00
6,800.0	9.00	356.40	6,741.3	763.3	-40.7	-763.4	0.00	0.00	0.00
6,859.4	9.00	356.40	6,800.0	772.6	-41.3	-772.7	0.00	0.00	0.00
Start DLS 1.00 TFO 180.00									
6,900.0	8.59	356.40	6,840.1	778.8	-41.7	-778.9	1.00	-1.00	0.00
7,000.0	7.59	356.40	6,939.1	792.9	-42.5	-792.9	1.00	-1.00	0.00
7,100.0	6.59	356.40	7,038.3	805.2	-43.3	-805.3	1.00	-1.00	0.00
7,200.0	5.59	356.40	7,137.7	815.8	-44.0	-815.9	1.00	-1.00	0.00
7,300.0	4.59	356.40	7,237.3	824.6	-44.5	-824.7	1.00	-1.00	0.00
7,400.0	3.59	356.40	7,337.1	831.8	-45.0	-831.8	1.00	-1.00	0.00
7,500.0	2.59	356.40	7,436.9	837.1	-45.3	-837.2	1.00	-1.00	0.00
7,600.0	1.59	356.40	7,536.9	840.8	-45.6	-840.9	1.00	-1.00	0.00
7,700.0	0.59	356.40	7,636.9	842.7	-45.7	-842.8	1.00	-1.00	0.00
7,759.4	0.00	0.00	7,696.3	843.0	-45.7	-843.1	1.00	-1.00	6.06
Start 3946.2 hold at 7759.4 MD									
7,800.0	0.00	0.00	7,736.9	843.0	-45.7	-843.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,836.9	843.0	-45.7	-843.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,936.9	843.0	-45.7	-843.1	0.00	0.00	0.00
8,100.0	0.00	0.00	8,036.9	843.0	-45.7	-843.1	0.00	0.00	0.00
8,200.0	0.00	0.00	8,136.9	843.0	-45.7	-843.1	0.00	0.00	0.00
8,300.0	0.00	0.00	8,236.9	843.0	-45.7	-843.1	0.00	0.00	0.00
8,400.0	0.00	0.00	8,336.9	843.0	-45.7	-843.1	0.00	0.00	0.00
8,500.0	0.00	0.00	8,436.9	843.0	-45.7	-843.1	0.00	0.00	0.00
8,600.0	0.00	0.00	8,536.9	843.0	-45.7	-843.1	0.00	0.00	0.00
8,700.0	0.00	0.00	8,636.9	843.0	-45.7	-843.1	0.00	0.00	0.00
8,800.0	0.00	0.00	8,736.9	843.0	-45.7	-843.1	0.00	0.00	0.00
8,900.0	0.00	0.00	8,836.9	843.0	-45.7	-843.1	0.00	0.00	0.00
9,000.0	0.00	0.00	8,936.9	843.0	-45.7	-843.1	0.00	0.00	0.00
9,100.0	0.00	0.00	9,036.9	843.0	-45.7	-843.1	0.00	0.00	0.00
9,200.0	0.00	0.00	9,136.9	843.0	-45.7	-843.1	0.00	0.00	0.00
9,300.0	0.00	0.00	9,236.9	843.0	-45.7	-843.1	0.00	0.00	0.00
9,400.0	0.00	0.00	9,336.9	843.0	-45.7	-843.1	0.00	0.00	0.00
9,500.0	0.00	0.00	9,436.9	843.0	-45.7	-843.1	0.00	0.00	0.00
9,600.0	0.00	0.00	9,536.9	843.0	-45.7	-843.1	0.00	0.00	0.00
9,700.0	0.00	0.00	9,636.9	843.0	-45.7	-843.1	0.00	0.00	0.00
9,800.0	0.00	0.00	9,736.9	843.0	-45.7	-843.1	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32ft @ 3398.3usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB=32ft @ 3398.3usft
Site:	HARRIER FEDERAL PROJECT	North Reference:	Grid
Well:	HARRIER FEDERAL COM 704H	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)
9,900.0	0.00	0.00	9,836.9	843.0	-45.7	-843.1	0.00	0.00	0.00
10,000.0	0.00	0.00	9,936.9	843.0	-45.7	-843.1	0.00	0.00	0.00
10,100.0	0.00	0.00	10,036.9	843.0	-45.7	-843.1	0.00	0.00	0.00
10,200.0	0.00	0.00	10,136.9	843.0	-45.7	-843.1	0.00	0.00	0.00
10,300.0	0.00	0.00	10,236.9	843.0	-45.7	-843.1	0.00	0.00	0.00
10,400.0	0.00	0.00	10,336.9	843.0	-45.7	-843.1	0.00	0.00	0.00
10,500.0	0.00	0.00	10,436.9	843.0	-45.7	-843.1	0.00	0.00	0.00
10,600.0	0.00	0.00	10,536.9	843.0	-45.7	-843.1	0.00	0.00	0.00
10,700.0	0.00	0.00	10,636.9	843.0	-45.7	-843.1	0.00	0.00	0.00
10,800.0	0.00	0.00	10,736.9	843.0	-45.7	-843.1	0.00	0.00	0.00
10,900.0	0.00	0.00	10,836.9	843.0	-45.7	-843.1	0.00	0.00	0.00
11,000.0	0.00	0.00	10,936.9	843.0	-45.7	-843.1	0.00	0.00	0.00
11,100.0	0.00	0.00	11,036.9	843.0	-45.7	-843.1	0.00	0.00	0.00
11,200.0	0.00	0.00	11,136.9	843.0	-45.7	-843.1	0.00	0.00	0.00
11,300.0	0.00	0.00	11,236.9	843.0	-45.7	-843.1	0.00	0.00	0.00
11,400.0	0.00	0.00	11,336.9	843.0	-45.7	-843.1	0.00	0.00	0.00
11,500.0	0.00	0.00	11,436.9	843.0	-45.7	-843.1	0.00	0.00	0.00
11,600.0	0.00	0.00	11,536.9	843.0	-45.7	-843.1	0.00	0.00	0.00
11,705.7	0.00	0.00	11,642.5	843.0	-45.7	-843.1	0.00	0.00	0.00
Start DLS 12.00 TFO 179.65									
11,725.0	2.32	179.65	11,661.9	842.6	-45.7	-842.7	12.00	12.00	929.79
11,750.0	5.32	179.65	11,686.8	841.0	-45.7	-841.0	12.00	12.00	0.00
11,775.0	8.32	179.65	11,711.6	838.0	-45.7	-838.1	12.00	12.00	0.00
11,800.0	11.32	179.65	11,736.2	833.7	-45.6	-833.8	12.00	12.00	0.00
11,825.0	14.32	179.65	11,760.6	828.2	-45.6	-828.3	12.00	12.00	0.00
11,850.0	17.32	179.65	11,784.7	821.4	-45.6	-821.5	12.00	12.00	0.00
11,875.0	20.32	179.65	11,808.3	813.3	-45.5	-813.4	12.00	12.00	0.00
11,900.0	23.32	179.65	11,831.5	804.0	-45.5	-804.1	12.00	12.00	0.00
11,925.0	26.32	179.65	11,854.2	793.5	-45.4	-793.6	12.00	12.00	0.00
11,950.0	29.32	179.65	11,876.3	781.9	-45.3	-781.9	12.00	12.00	0.00
11,975.0	32.32	179.65	11,897.8	769.0	-45.2	-769.1	12.00	12.00	0.00
12,000.0	35.32	179.65	11,918.6	755.1	-45.2	-755.2	12.00	12.00	0.00
12,025.0	38.32	179.65	11,938.6	740.2	-45.1	-740.2	12.00	12.00	0.00
12,050.0	41.32	179.65	11,957.8	724.1	-45.0	-724.2	12.00	12.00	0.00
12,075.0	44.32	179.65	11,976.1	707.2	-44.9	-707.2	12.00	12.00	0.00
12,100.0	47.32	179.65	11,993.5	689.2	-44.8	-689.3	12.00	12.00	0.00
12,125.0	50.32	179.65	12,010.0	670.4	-44.6	-670.5	12.00	12.00	0.00
12,150.0	53.32	179.65	12,025.4	650.8	-44.5	-650.9	12.00	12.00	0.00
12,175.0	56.32	179.65	12,039.8	630.3	-44.4	-630.4	12.00	12.00	0.00
12,200.0	59.32	179.65	12,053.2	609.2	-44.3	-609.3	12.00	12.00	0.00
12,225.0	62.32	179.65	12,065.4	587.4	-44.1	-587.4	12.00	12.00	0.00
12,250.0	65.32	179.65	12,076.4	564.9	-44.0	-565.0	12.00	12.00	0.00
12,275.0	68.32	179.65	12,086.2	541.9	-43.8	-542.0	12.00	12.00	0.00
12,300.0	71.32	179.65	12,094.8	518.5	-43.7	-518.6	12.00	12.00	0.00
12,325.0	74.32	179.65	12,102.2	494.6	-43.6	-494.7	12.00	12.00	0.00
12,350.0	77.32	179.65	12,108.4	470.4	-43.4	-470.5	12.00	12.00	0.00
12,375.0	80.32	179.65	12,113.2	445.8	-43.3	-445.9	12.00	12.00	0.00
12,400.0	83.32	179.65	12,116.8	421.1	-43.1	-421.2	12.00	12.00	0.00
12,425.0	86.32	179.65	12,119.0	396.2	-43.0	-396.3	12.00	12.00	0.00
12,450.0	89.32	179.65	12,120.0	371.2	-42.8	-371.3	12.00	12.00	0.00
12,455.7	90.00	179.65	12,120.0	365.6	-42.8	-365.6	12.00	12.00	0.00
Start 10064.1 hold at 12455.7 MD									
12,500.0	90.00	179.65	12,120.0	321.2	-42.5	-321.3	0.00	0.00	0.00
12,600.0	90.00	179.65	12,120.0	221.2	-41.9	-221.3	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32ft @ 3398.3usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB=32ft @ 3398.3usft
Site:	HARRIER FEDERAL PROJECT	North Reference:	Grid
Well:	HARRIER FEDERAL COM 704H	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)
12,700.0	90.00	179.65	12,120.0	121.2	-41.3	-121.3	0.00	0.00	0.00
12,800.0	90.00	179.65	12,120.0	21.2	-40.7	-21.3	0.00	0.00	0.00
12,900.0	90.00	179.65	12,120.0	-78.8	-40.1	78.7	0.00	0.00	0.00
13,000.0	90.00	179.65	12,120.0	-178.8	-39.4	178.7	0.00	0.00	0.00
13,100.0	90.00	179.65	12,120.0	-278.8	-38.8	278.7	0.00	0.00	0.00
13,200.0	90.00	179.65	12,120.0	-378.8	-38.2	378.7	0.00	0.00	0.00
13,300.0	90.00	179.65	12,120.0	-478.8	-37.6	478.7	0.00	0.00	0.00
13,400.0	90.00	179.65	12,120.0	-578.8	-37.0	578.7	0.00	0.00	0.00
13,500.0	90.00	179.65	12,120.0	-678.7	-36.4	678.7	0.00	0.00	0.00
13,600.0	90.00	179.65	12,120.0	-778.7	-35.8	778.7	0.00	0.00	0.00
13,700.0	90.00	179.65	12,120.0	-878.7	-35.2	878.7	0.00	0.00	0.00
13,800.0	90.00	179.65	12,120.0	-978.7	-34.5	978.7	0.00	0.00	0.00
13,900.0	90.00	179.65	12,120.0	-1,078.7	-33.9	1,078.7	0.00	0.00	0.00
14,000.0	90.00	179.65	12,120.0	-1,178.7	-33.3	1,178.7	0.00	0.00	0.00
14,100.0	90.00	179.65	12,120.0	-1,278.7	-32.7	1,278.7	0.00	0.00	0.00
14,200.0	90.00	179.65	12,120.0	-1,378.7	-32.1	1,378.7	0.00	0.00	0.00
14,300.0	90.00	179.65	12,120.0	-1,478.7	-31.5	1,478.7	0.00	0.00	0.00
14,400.0	90.00	179.65	12,120.0	-1,578.7	-30.9	1,578.7	0.00	0.00	0.00
14,500.0	90.00	179.65	12,120.0	-1,678.7	-30.3	1,678.7	0.00	0.00	0.00
14,600.0	90.00	179.65	12,120.0	-1,778.7	-29.7	1,778.7	0.00	0.00	0.00
14,700.0	90.00	179.65	12,120.0	-1,878.7	-29.0	1,878.7	0.00	0.00	0.00
14,800.0	90.00	179.65	12,120.0	-1,978.7	-28.4	1,978.7	0.00	0.00	0.00
14,900.0	90.00	179.65	12,120.0	-2,078.7	-27.8	2,078.7	0.00	0.00	0.00
15,000.0	90.00	179.65	12,120.0	-2,178.7	-27.2	2,178.7	0.00	0.00	0.00
15,100.0	90.00	179.65	12,120.0	-2,278.7	-26.6	2,278.7	0.00	0.00	0.00
15,200.0	90.00	179.65	12,120.0	-2,378.7	-26.0	2,378.7	0.00	0.00	0.00
15,300.0	90.00	179.65	12,120.0	-2,478.7	-25.4	2,478.7	0.00	0.00	0.00
15,400.0	90.00	179.65	12,120.0	-2,578.7	-24.8	2,578.7	0.00	0.00	0.00
15,500.0	90.00	179.65	12,120.0	-2,678.7	-24.1	2,678.7	0.00	0.00	0.00
15,600.0	90.00	179.65	12,120.0	-2,778.7	-23.5	2,778.7	0.00	0.00	0.00
15,700.0	90.00	179.65	12,120.0	-2,878.7	-22.9	2,878.7	0.00	0.00	0.00
15,800.0	90.00	179.65	12,120.0	-2,978.7	-22.3	2,978.7	0.00	0.00	0.00
15,900.0	90.00	179.65	12,120.0	-3,078.7	-21.7	3,078.7	0.00	0.00	0.00
16,000.0	90.00	179.65	12,120.0	-3,178.7	-21.1	3,178.7	0.00	0.00	0.00
16,100.0	90.00	179.65	12,120.0	-3,278.7	-20.5	3,278.7	0.00	0.00	0.00
16,200.0	90.00	179.65	12,120.0	-3,378.7	-19.9	3,378.7	0.00	0.00	0.00
16,300.0	90.00	179.65	12,120.0	-3,478.7	-19.3	3,478.7	0.00	0.00	0.00
16,400.0	90.00	179.65	12,120.0	-3,578.7	-18.6	3,578.7	0.00	0.00	0.00
16,500.0	90.00	179.65	12,120.0	-3,678.7	-18.0	3,678.7	0.00	0.00	0.00
16,600.0	90.00	179.65	12,120.0	-3,778.7	-17.4	3,778.6	0.00	0.00	0.00
16,700.0	90.00	179.65	12,120.0	-3,878.7	-16.8	3,878.6	0.00	0.00	0.00
16,800.0	90.00	179.65	12,120.0	-3,978.7	-16.2	3,978.6	0.00	0.00	0.00
16,900.0	90.00	179.65	12,120.0	-4,078.7	-15.6	4,078.6	0.00	0.00	0.00
17,000.0	90.00	179.65	12,120.0	-4,178.7	-15.0	4,178.6	0.00	0.00	0.00
17,100.0	90.00	179.65	12,120.0	-4,278.7	-14.4	4,278.6	0.00	0.00	0.00
17,200.0	90.00	179.65	12,120.0	-4,378.7	-13.7	4,378.6	0.00	0.00	0.00
17,300.0	90.00	179.65	12,120.0	-4,478.7	-13.1	4,478.6	0.00	0.00	0.00
17,400.0	90.00	179.65	12,120.0	-4,578.7	-12.5	4,578.6	0.00	0.00	0.00
17,500.0	90.00	179.65	12,120.0	-4,678.7	-11.9	4,678.6	0.00	0.00	0.00
17,600.0	90.00	179.65	12,120.0	-4,778.7	-11.3	4,778.6	0.00	0.00	0.00
17,700.0	90.00	179.65	12,120.0	-4,878.7	-10.7	4,878.6	0.00	0.00	0.00
17,800.0	90.00	179.65	12,120.0	-4,978.7	-10.1	4,978.6	0.00	0.00	0.00
17,900.0	90.00	179.65	12,120.0	-5,078.7	-9.5	5,078.6	0.00	0.00	0.00
18,000.0	90.00	179.65	12,120.0	-5,178.7	-8.9	5,178.6	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32ft @ 3398.3usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB=32ft @ 3398.3usft
Site:	HARRIER FEDERAL PROJECT	North Reference:	Grid
Well:	HARRIER FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
18,100.0	90.00	179.65	12,120.0	-5,278.7	-8.2	5,278.6	0.00	0.00	0.00	
18,200.0	90.00	179.65	12,120.0	-5,378.7	-7.6	5,378.6	0.00	0.00	0.00	
18,300.0	90.00	179.65	12,120.0	-5,478.7	-7.0	5,478.6	0.00	0.00	0.00	
18,400.0	90.00	179.65	12,120.0	-5,578.7	-6.4	5,578.6	0.00	0.00	0.00	
18,500.0	90.00	179.65	12,120.0	-5,678.7	-5.8	5,678.6	0.00	0.00	0.00	
18,600.0	90.00	179.65	12,120.0	-5,778.7	-5.2	5,778.6	0.00	0.00	0.00	
18,700.0	90.00	179.65	12,120.0	-5,878.7	-4.6	5,878.6	0.00	0.00	0.00	
18,800.0	90.00	179.65	12,120.0	-5,978.6	-4.0	5,978.6	0.00	0.00	0.00	
18,900.0	90.00	179.65	12,120.0	-6,078.6	-3.3	6,078.6	0.00	0.00	0.00	
19,000.0	90.00	179.65	12,120.0	-6,178.6	-2.7	6,178.6	0.00	0.00	0.00	
19,100.0	90.00	179.65	12,120.0	-6,278.6	-2.1	6,278.6	0.00	0.00	0.00	
19,200.0	90.00	179.65	12,120.0	-6,378.6	-1.5	6,378.6	0.00	0.00	0.00	
19,300.0	90.00	179.65	12,120.0	-6,478.6	-0.9	6,478.6	0.00	0.00	0.00	
19,400.0	90.00	179.65	12,120.0	-6,578.6	-0.3	6,578.6	0.00	0.00	0.00	
19,500.0	90.00	179.65	12,120.0	-6,678.6	0.3	6,678.6	0.00	0.00	0.00	
19,600.0	90.00	179.65	12,120.0	-6,778.6	0.9	6,778.6	0.00	0.00	0.00	
19,700.0	90.00	179.65	12,120.0	-6,878.6	1.5	6,878.6	0.00	0.00	0.00	
19,800.0	90.00	179.65	12,120.0	-6,978.6	2.2	6,978.6	0.00	0.00	0.00	
19,900.0	90.00	179.65	12,120.0	-7,078.6	2.8	7,078.6	0.00	0.00	0.00	
20,000.0	90.00	179.65	12,120.0	-7,178.6	3.4	7,178.6	0.00	0.00	0.00	
20,100.0	90.00	179.65	12,120.0	-7,278.6	4.0	7,278.6	0.00	0.00	0.00	
20,200.0	90.00	179.65	12,120.0	-7,378.6	4.6	7,378.6	0.00	0.00	0.00	
20,300.0	90.00	179.65	12,120.0	-7,478.6	5.2	7,478.6	0.00	0.00	0.00	
20,400.0	90.00	179.65	12,120.0	-7,578.6	5.8	7,578.6	0.00	0.00	0.00	
20,500.0	90.00	179.65	12,120.0	-7,678.6	6.4	7,678.6	0.00	0.00	0.00	
20,600.0	90.00	179.65	12,120.0	-7,778.6	7.1	7,778.6	0.00	0.00	0.00	
20,700.0	90.00	179.65	12,120.0	-7,878.6	7.7	7,878.6	0.00	0.00	0.00	
20,800.0	90.00	179.65	12,120.0	-7,978.6	8.3	7,978.6	0.00	0.00	0.00	
20,900.0	90.00	179.65	12,120.0	-8,078.6	8.9	8,078.6	0.00	0.00	0.00	
21,000.0	90.00	179.65	12,120.0	-8,178.6	9.5	8,178.6	0.00	0.00	0.00	
21,100.0	90.00	179.65	12,120.0	-8,278.6	10.1	8,278.6	0.00	0.00	0.00	
21,200.0	90.00	179.65	12,120.0	-8,378.6	10.7	8,378.6	0.00	0.00	0.00	
21,300.0	90.00	179.65	12,120.0	-8,478.6	11.3	8,478.6	0.00	0.00	0.00	
21,400.0	90.00	179.65	12,120.0	-8,578.6	11.9	8,578.6	0.00	0.00	0.00	
21,500.0	90.00	179.65	12,120.0	-8,678.6	12.6	8,678.6	0.00	0.00	0.00	
21,600.0	90.00	179.65	12,120.0	-8,778.6	13.2	8,778.6	0.00	0.00	0.00	
21,700.0	90.00	179.65	12,120.0	-8,878.6	13.8	8,878.6	0.00	0.00	0.00	
21,800.0	90.00	179.65	12,120.0	-8,978.6	14.4	8,978.6	0.00	0.00	0.00	
21,900.0	90.00	179.65	12,120.0	-9,078.6	15.0	9,078.6	0.00	0.00	0.00	
22,000.0	90.00	179.65	12,120.0	-9,178.6	15.6	9,178.6	0.00	0.00	0.00	
22,100.0	90.00	179.65	12,120.0	-9,278.6	16.2	9,278.6	0.00	0.00	0.00	
22,200.0	90.00	179.65	12,120.0	-9,378.6	16.8	9,378.6	0.00	0.00	0.00	
22,300.0	90.00	179.65	12,120.0	-9,478.6	17.5	9,478.6	0.00	0.00	0.00	
22,400.0	90.00	179.65	12,120.0	-9,578.6	18.1	9,578.6	0.00	0.00	0.00	
22,500.0	90.00	179.65	12,120.0	-9,678.6	18.7	9,678.6	0.00	0.00	0.00	
22,519.8	90.00	179.65	12,120.0	-9,698.4	18.8	9,698.4	0.00	0.00	0.00	
TD at 22519.8										

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 704H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32ft @ 3398.3usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB=32ft @ 3398.3usft
Site:	HARRIER FEDERAL PROJECT	North Reference:	Grid
Well:	HARRIER FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
KOP BOX: 0°N & 50°S X	0.00	0.00	11,644.5	843.0	-45.7	398,588.41	711,330.00	32° 5' 38.390 N	103° 39' 3.319 W
- plan hits target center									
- Rectangle (sides W100.0 H50.0 D3,946.2)									
PBHL_HARRIER 704H	0.00	359.65	12,120.0	-9,698.4	18.8	388,047.00	711,394.50	32° 3' 54.069 N	103° 39' 3.344 W
- plan hits target center									
- Rectangle (sides W100.0 H10,487.9 D20.0)									
LTP_HARRIER 704H	90.00	179.65	12,120.0	-9,648.4	18.5	388,097.00	711,394.20	32° 3' 54.564 N	103° 39' 3.344 W
- plan hits target center									
- Circle (radius 50.0)									
FTP_HARRIER 704H	0.00	0.01	12,120.0	789.7	-45.4	398,535.10	711,330.30	32° 5' 37.863 N	103° 39' 3.319 W
- plan misses target center by 161.2usft at 12107.7usft MD (11998.7 TVD, 683.6 N, -44.7 E)									
- Circle (radius 50.0)									

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
		(usft)	(usft)		
1,500.0	1,500.0	0.0	0.0	Start Build 1.00	
2,000.0	1,999.4	21.5	3.8	Start DLS 2.00 TFO -29.36	
2,215.1	2,212.9	47.5	4.4	Start 4644.3 hold at 2215.1 MD	
6,859.4	6,800.0	772.6	-41.3	Start DLS 1.00 TFO 180.00	
7,759.4	7,696.3	843.0	-45.7	Start 3946.2 hold at 7759.4 MD	
11,705.7	11,642.5	843.0	-45.7	Start DLS 12.00 TFO 179.65	
12,455.7	12,120.0	365.6	-42.8	Start 10064.1 hold at 12455.7 MD	
22,519.8	12,120.0	-9,698.4	18.8	TD at 22519.8	

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1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 319202

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 319202
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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