

Well Name: HARRIER FEDERAL COM	Well Location: T25S / R32E / SEC 35 / NWNW /	County or Parish/State:
Well Number: 802H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM108973	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549892	Well Status: Approved Application for Permit to Drill	Operator: COG OPERATING LLC

Notice of Intent

Sundry ID: 2774650

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 02/12/2024	Time Sundry Submitted: 12:38
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 & 550' FWL SWSW 2-26S-32E Change BHL TO: 50' FSL & 330' FWL SWSW 2-26S-32E

NOI Attachments

Procedure Description

- Harrier_Fed_Com_802H_APD_drill_plan_20240212123816.pdf
- HARRIER_FED_COM_802H_PWP0_PPLOT_20240212123816.pdf
- HARRIER_FEDERAL_COM_802H_C102_NAD83_signed_1_23_24_20240212123816.pdf
- HARRIER_FED_COM_802H_PWP0_DIR_RPT_20240212123816.pdf
- HARRIER_FEDERAL_COM_802H_C102_A_NAD83_signed_1_23_24_20240212123816.pdf
- HARRIER_FED_COM_802H_PWP0_AC_RPT_20240212123816.pdf

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Operator

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

Operator Electronic Signature: STAN WAGNER

Signed on: FEB 12, 2024 12:38 PM

Name: COG OPERATING LLC

Title: Regulatory Advisor

Street Address: 600 WEST ILLINOIS AVE

City: MIDLAND**State:** TX

Phone: (432) 253-9685

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

Field

Representative Name:

Street Address:

City:**State:****Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: KEITH P IMMATTY

BLM POC Title: ENGINEER

BLM POC Phone: 5759884722

BLM POC Email Address: KIMMATTY@BLM.GOV

Disposition: Approved

Disposition Date: 02/28/2024

Signature: Keith Immatty

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

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	

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

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

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

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

THE SPACE FOR FEDERAL OR STATE OFFICE USE

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

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Additional Information

Location of Well

0. SHL: NWNW / 845 FNL / 925 FWL / TWSP: 25S / RANGE: 32E / SECTION: 35 / LAT: 32.091927 / LONG: -103.651263 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 100 FNL / 660 FWL / TWSP: 25S / RANGE: 32E / SECTION: 35 / LAT: 32.093975 / LONG: -103.652105 (TVD: 12331 feet, MD: 12367 feet)

BHL: SWSW / 50 FSL / 550 FWL / TWSP: 26S / RANGE: 32E / SECTION: 2 / LAT: 32.065144 / LONG: -103.65211 (TVD: 12519 feet, MD: 22528 feet)

CONFIDENTIAL

COG Operating, LLC - Harrier Federal Com 802H

1. Geologic Formations

TVD of target	12,400' EOL	Pilot hole depth	NA
MD at TD:	22,816' TMD	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	4700	Salt Water	
Bell Canyon	4735	Salt Water	
Cherry Canyon	5726	Oil/Gas	
Brushy Canyon	7292	Oil/Gas	
Bone Spring Lime	8855	Oil/Gas	
1st Bone Spring Sand	9819	Oil/Gas	
2nd Bone Spring Sand	10437	Oil/Gas	
3rd Bone Spring Sand	11602	Oil/Gas	
Wolfcamp A	12224	Target	
Wolfcamp B	12551	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	1.06	2.95	2.97
8.750"	8300	12000	7.625"	29.7	HCP110	FJM	1.19	1.37	2.64	1.57
6.75"	0	11500	5.5"	23	P110	BTC	1.95	2.30	2.76	2.74
6.75"	11500	22,816	5.5"	23	P110	Talon	1.78	2.10	2.52	2.45
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 802H

	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 802H

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	850	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	534	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	1028	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	11,500'	35% OH in Lateral (KOP to EOL)

COG Operating, LLC - Harrier Federal Com 802H

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 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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

Y	Formation integrity test will be performed per 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 802H

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 802H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8160 psi at 12553' 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.

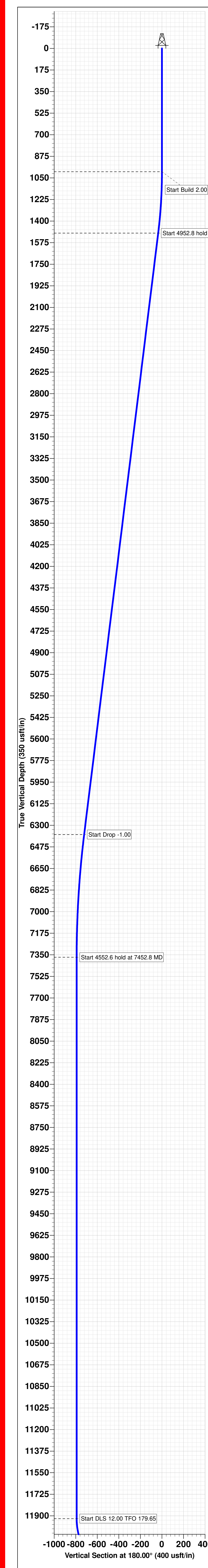
N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

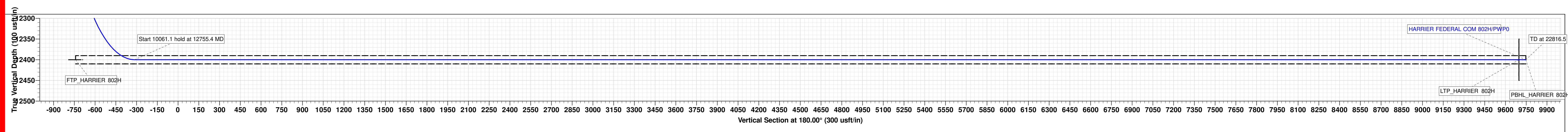
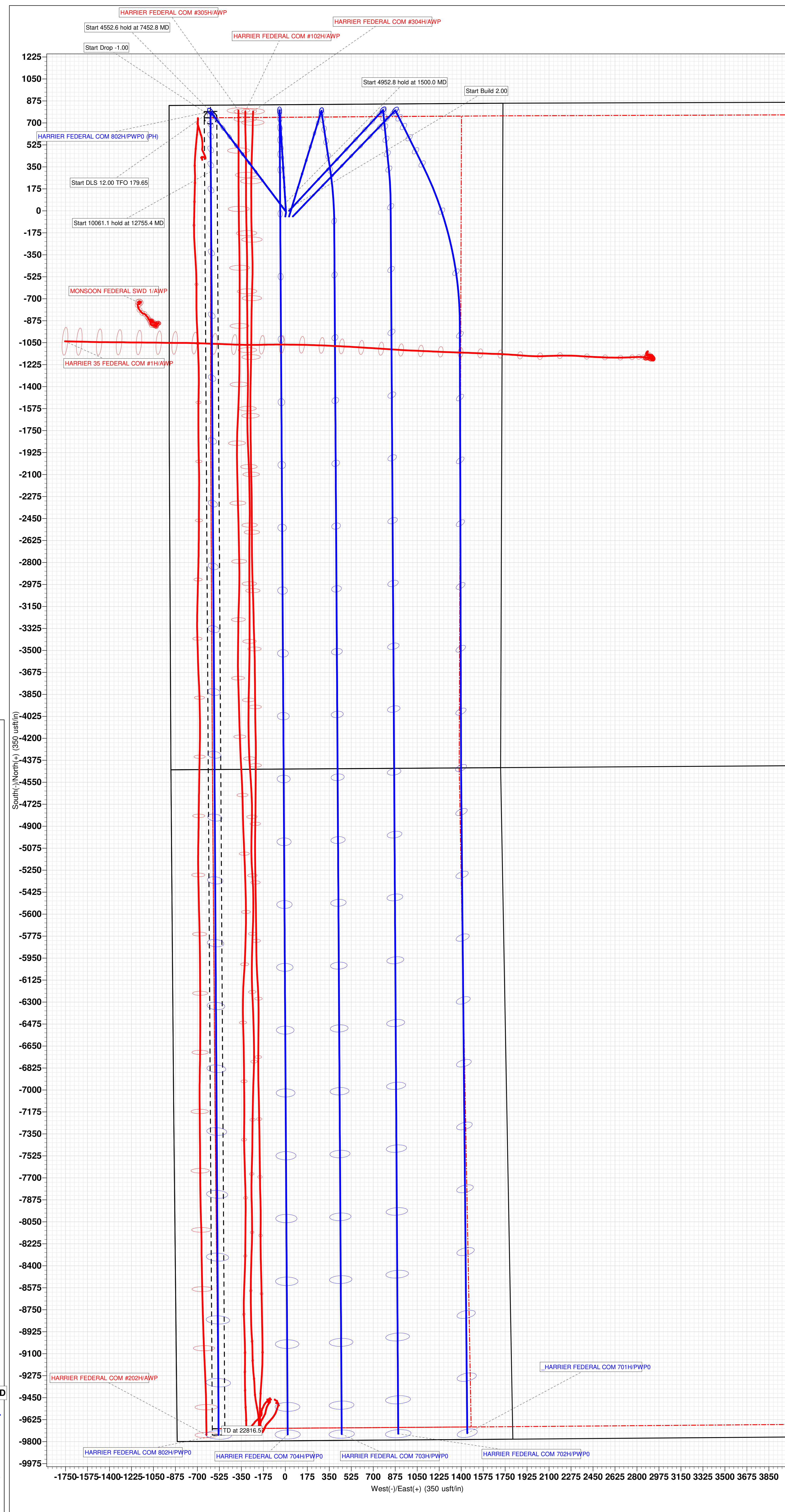
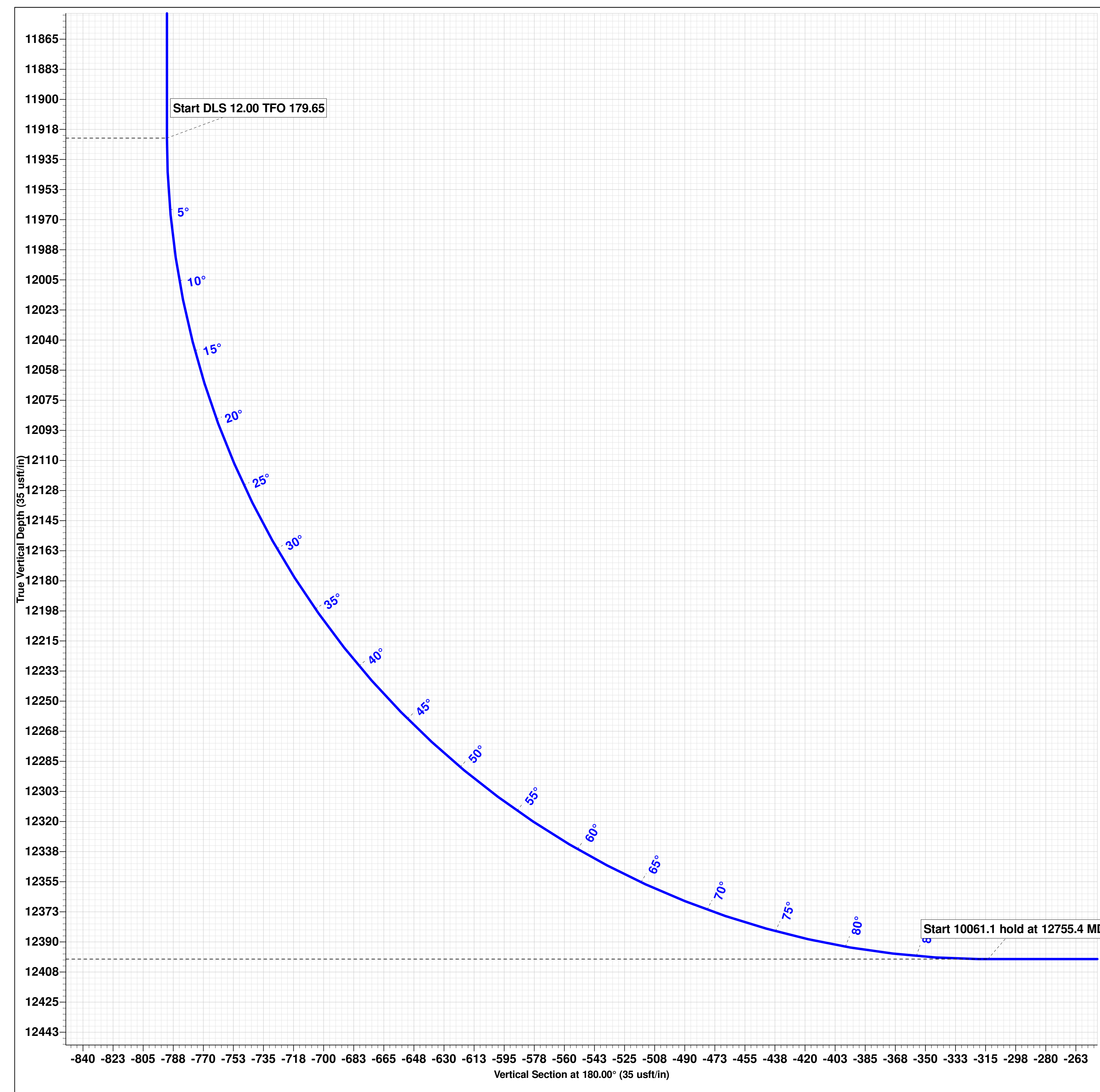
Y	Is it a walking operation?
Y	Is casing pre-set?

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



Project: LEA COUNT SOUTH WEST (NM-E)
Site: HARRIER FEDERAL PROJECT
Well: HARRIER FEDERAL COM 802H
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	
1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
1500.0	10.00	323.00	1497.5	34.8	-26.2	2.00	323.00	-33.3	
6452.8	10.00	323.00	6375.0	721.6	-543.8	0.00	0.00	-691.0	
7452.8	0.00	0.00	7369.9	791.1	-596.2	1.00	180.00	-757.5	
12005.4	0.00	0.00	11922.5	791.1	-596.2	0.00	0.00	-757.5	
12755.4	90.00	179.65	12400.0	313.7	-593.2	12.00	179.65	-280.9	
22816.5	90.00	179.65	12400.0	-9747.2	-531.2	0.00	0.00	9761.7	



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 30-025-49892	Pool Code 98180	Pool Name WC-025 G-09 S253309P; Upper Wolfcamp
Property Code 325390	Property Name HARRIER FEDERAL COM	Well Number 802H
OGRID No. 229137	Operator Name COG OPERATING LLC	Elevation 3366.8'

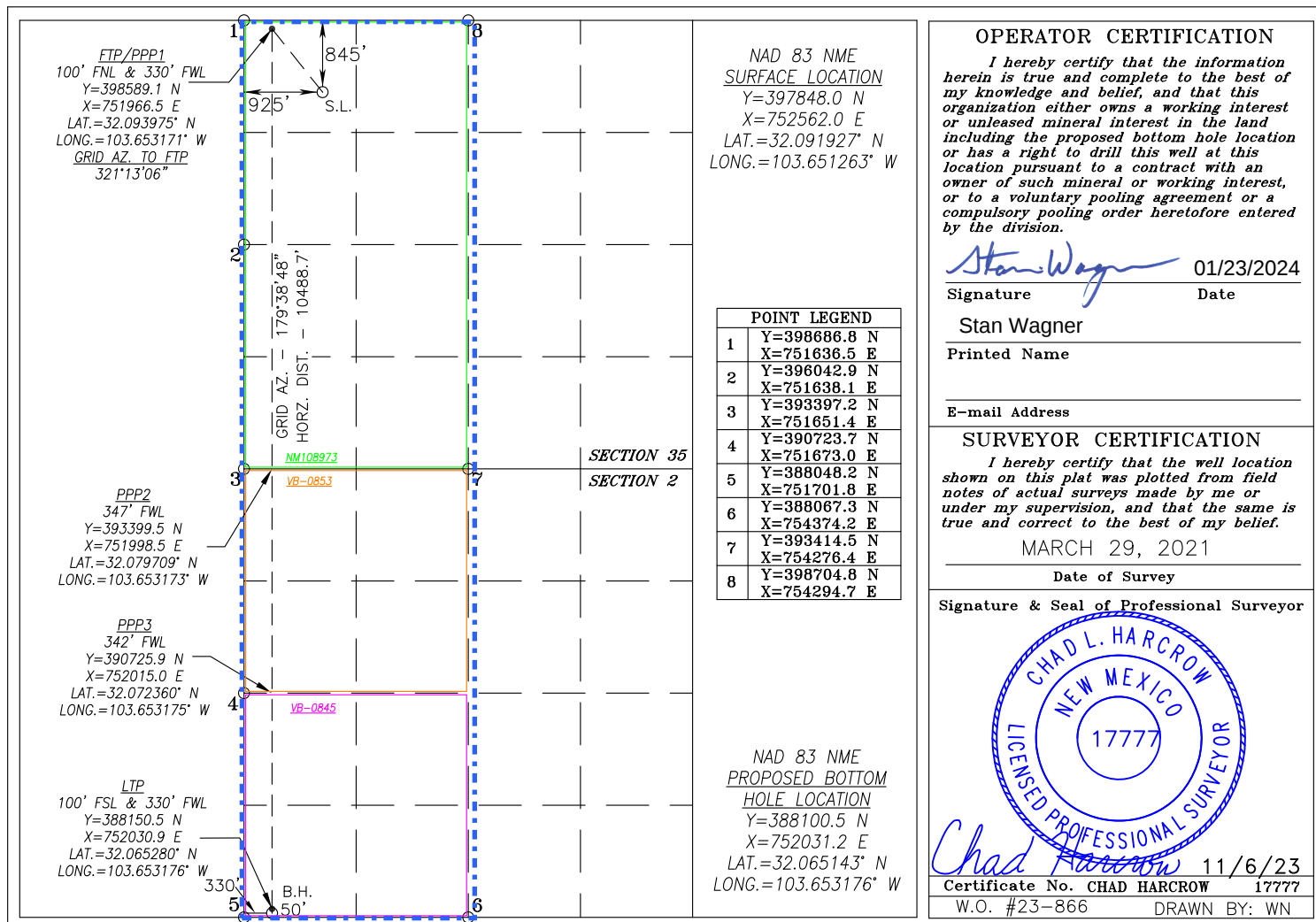
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	35	25-S	32-E		845	NORTH	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	330	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 802H

300254989200

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 802H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32ft @ 3398.8usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB=32ft @ 3398.8usft
Site:	HARRIER FEDERAL PROJECT	North Reference:	Grid
Well:	HARRIER FEDERAL COM 802H	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 802H		
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:
			Longitude:
			Ground Level:

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2023	4/1/2024	6.29	59.61	47,257.57049491

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	183.12

Plan Survey Tool Program	Date	1/12/2024			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	22,816.5 PWP0 (OWB)	r.5 MWD+IFR1		
			OWSG MWD + IFR1 rev.5		

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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	10.00	323.00	1,497.5	34.8	-26.2	2.00	2.00	0.00	323.00	
6,452.8	10.00	323.00	6,375.0	721.6	-543.8	0.00	0.00	0.00	0.00	
7,452.8	0.00	0.00	7,369.9	791.1	-596.2	1.00	-1.00	0.00	180.00	
12,005.4	0.00	0.00	11,922.5	791.1	-596.2	0.00	0.00	0.00	0.00	
12,755.4	90.00	179.65	12,400.0	313.7	-593.2	12.00	12.00	23.95	179.65	
22,816.5	90.00	179.65	12,400.0	-9,747.2	-531.2	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 802H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32ft @ 3398.8usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB=32ft @ 3398.8usft
Site:	HARRIER FEDERAL PROJECT	North Reference:	Grid
Well:	HARRIER FEDERAL COM 802H	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
Start Build 2.00									
1,100.0	2.00	323.00	1,100.0	1.4	-1.1	-1.3	2.00	2.00	0.00
1,200.0	4.00	323.00	1,199.8	5.6	-4.2	-5.3	2.00	2.00	0.00
1,300.0	6.00	323.00	1,299.5	12.5	-9.4	-12.0	2.00	2.00	0.00
1,400.0	8.00	323.00	1,398.7	22.3	-16.8	-21.3	2.00	2.00	0.00
1,500.0	10.00	323.00	1,497.5	34.8	-26.2	-33.3	2.00	2.00	0.00
Start 4952.8 hold at 1500.0 MD									
1,600.0	10.00	323.00	1,595.9	48.6	-36.6	-46.6	0.00	0.00	0.00
1,700.0	10.00	323.00	1,694.4	62.5	-47.1	-59.8	0.00	0.00	0.00
1,800.0	10.00	323.00	1,792.9	76.4	-57.5	-73.1	0.00	0.00	0.00
1,900.0	10.00	323.00	1,891.4	90.2	-68.0	-86.4	0.00	0.00	0.00
2,000.0	10.00	323.00	1,989.9	104.1	-78.4	-99.7	0.00	0.00	0.00
2,100.0	10.00	323.00	2,088.4	118.0	-88.9	-113.0	0.00	0.00	0.00
2,200.0	10.00	323.00	2,186.8	131.8	-99.3	-126.2	0.00	0.00	0.00
2,300.0	10.00	323.00	2,285.3	145.7	-109.8	-139.5	0.00	0.00	0.00
2,400.0	10.00	323.00	2,383.8	159.6	-120.2	-152.8	0.00	0.00	0.00
2,500.0	10.00	323.00	2,482.3	173.4	-130.7	-166.1	0.00	0.00	0.00
2,600.0	10.00	323.00	2,580.8	187.3	-141.1	-179.4	0.00	0.00	0.00
2,700.0	10.00	323.00	2,679.2	201.2	-151.6	-192.6	0.00	0.00	0.00
2,800.0	10.00	323.00	2,777.7	215.0	-162.0	-205.9	0.00	0.00	0.00
2,900.0	10.00	323.00	2,876.2	228.9	-172.5	-219.2	0.00	0.00	0.00
3,000.0	10.00	323.00	2,974.7	242.8	-182.9	-232.5	0.00	0.00	0.00
3,100.0	10.00	323.00	3,073.2	256.6	-193.4	-245.7	0.00	0.00	0.00
3,200.0	10.00	323.00	3,171.6	270.5	-203.8	-259.0	0.00	0.00	0.00
3,300.0	10.00	323.00	3,270.1	284.4	-214.3	-272.3	0.00	0.00	0.00
3,400.0	10.00	323.00	3,368.6	298.3	-224.8	-285.6	0.00	0.00	0.00
3,500.0	10.00	323.00	3,467.1	312.1	-235.2	-298.9	0.00	0.00	0.00
3,600.0	10.00	323.00	3,565.6	326.0	-245.7	-312.1	0.00	0.00	0.00
3,700.0	10.00	323.00	3,664.0	339.9	-256.1	-325.4	0.00	0.00	0.00
3,800.0	10.00	323.00	3,762.5	353.7	-266.6	-338.7	0.00	0.00	0.00
3,900.0	10.00	323.00	3,861.0	367.6	-277.0	-352.0	0.00	0.00	0.00
4,000.0	10.00	323.00	3,959.5	381.5	-287.5	-365.3	0.00	0.00	0.00
4,100.0	10.00	323.00	4,058.0	395.3	-297.9	-378.5	0.00	0.00	0.00
4,200.0	10.00	323.00	4,156.4	409.2	-308.4	-391.8	0.00	0.00	0.00
4,300.0	10.00	323.00	4,254.9	423.1	-318.8	-405.1	0.00	0.00	0.00
4,400.0	10.00	323.00	4,353.4	436.9	-329.3	-418.4	0.00	0.00	0.00
4,500.0	10.00	323.00	4,451.9	450.8	-339.7	-431.6	0.00	0.00	0.00
4,600.0	10.00	323.00	4,550.4	464.7	-350.2	-444.9	0.00	0.00	0.00
4,700.0	10.00	323.00	4,648.9	478.5	-360.6	-458.2	0.00	0.00	0.00
4,800.0	10.00	323.00	4,747.3	492.4	-371.1	-471.5	0.00	0.00	0.00
4,900.0	10.00	323.00	4,845.8	506.3	-381.5	-484.8	0.00	0.00	0.00
5,000.0	10.00	323.00	4,944.3	520.1	-392.0	-498.0	0.00	0.00	0.00

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Planning Report

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Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32ft @ 3398.8usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB=32ft @ 3398.8usft
Site:	HARRIER FEDERAL PROJECT	North Reference:	Grid
Well:	HARRIER FEDERAL COM 802H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	10.00	323.00	5,042.8	534.0	-402.4	-511.3	0.00	0.00	0.00
5,200.0	10.00	323.00	5,141.3	547.9	-412.9	-524.6	0.00	0.00	0.00
5,300.0	10.00	323.00	5,239.7	561.7	-423.3	-537.9	0.00	0.00	0.00
5,400.0	10.00	323.00	5,338.2	575.6	-433.8	-551.2	0.00	0.00	0.00
5,500.0	10.00	323.00	5,436.7	589.5	-444.2	-564.4	0.00	0.00	0.00
5,600.0	10.00	323.00	5,535.2	603.4	-454.7	-577.7	0.00	0.00	0.00
5,700.0	10.00	323.00	5,633.7	617.2	-465.1	-591.0	0.00	0.00	0.00
5,800.0	10.00	323.00	5,732.1	631.1	-475.6	-604.3	0.00	0.00	0.00
5,900.0	10.00	323.00	5,830.6	645.0	-486.0	-617.6	0.00	0.00	0.00
6,000.0	10.00	323.00	5,929.1	658.8	-496.5	-630.8	0.00	0.00	0.00
6,100.0	10.00	323.00	6,027.6	672.7	-506.9	-644.1	0.00	0.00	0.00
6,200.0	10.00	323.00	6,126.1	686.6	-517.4	-657.4	0.00	0.00	0.00
6,300.0	10.00	323.00	6,224.5	700.4	-527.8	-670.7	0.00	0.00	0.00
6,400.0	10.00	323.00	6,323.0	714.3	-538.3	-683.9	0.00	0.00	0.00
6,452.8	10.00	323.00	6,375.0	721.6	-543.8	-691.0	0.00	0.00	0.00
Start Drop -1.00									
6,500.0	9.53	323.00	6,421.5	728.0	-548.6	-697.1	1.00	-1.00	0.00
6,600.0	8.53	323.00	6,520.3	740.5	-558.0	-709.1	1.00	-1.00	0.00
6,700.0	7.53	323.00	6,619.3	751.7	-566.4	-719.8	1.00	-1.00	0.00
6,800.0	6.53	323.00	6,718.6	761.5	-573.8	-729.1	1.00	-1.00	0.00
6,900.0	5.53	323.00	6,818.0	769.9	-580.1	-737.1	1.00	-1.00	0.00
7,000.0	4.53	323.00	6,917.6	776.9	-585.4	-743.8	1.00	-1.00	0.00
7,100.0	3.53	323.00	7,017.4	782.5	-589.6	-749.2	1.00	-1.00	0.00
7,200.0	2.53	323.00	7,117.2	786.7	-592.8	-753.3	1.00	-1.00	0.00
7,300.0	1.53	323.00	7,217.2	789.5	-594.9	-756.0	1.00	-1.00	0.00
7,400.0	0.53	323.00	7,317.2	790.9	-596.0	-757.3	1.00	-1.00	0.00
7,452.8	0.00	0.00	7,369.9	791.1	-596.2	-757.5	1.00	-1.00	0.00
Start 4552.6 hold at 7452.8 MD									
7,500.0	0.00	0.00	7,417.2	791.1	-596.2	-757.5	0.00	0.00	0.00
7,600.0	0.00	0.00	7,517.2	791.1	-596.2	-757.5	0.00	0.00	0.00
7,700.0	0.00	0.00	7,617.2	791.1	-596.2	-757.5	0.00	0.00	0.00
7,800.0	0.00	0.00	7,717.2	791.1	-596.2	-757.5	0.00	0.00	0.00
7,900.0	0.00	0.00	7,817.2	791.1	-596.2	-757.5	0.00	0.00	0.00
8,000.0	0.00	0.00	7,917.2	791.1	-596.2	-757.5	0.00	0.00	0.00
8,100.0	0.00	0.00	8,017.2	791.1	-596.2	-757.5	0.00	0.00	0.00
8,200.0	0.00	0.00	8,117.2	791.1	-596.2	-757.5	0.00	0.00	0.00
8,300.0	0.00	0.00	8,217.2	791.1	-596.2	-757.5	0.00	0.00	0.00
8,400.0	0.00	0.00	8,317.2	791.1	-596.2	-757.5	0.00	0.00	0.00
8,500.0	0.00	0.00	8,417.2	791.1	-596.2	-757.5	0.00	0.00	0.00
8,600.0	0.00	0.00	8,517.2	791.1	-596.2	-757.5	0.00	0.00	0.00
8,700.0	0.00	0.00	8,617.2	791.1	-596.2	-757.5	0.00	0.00	0.00
8,800.0	0.00	0.00	8,717.2	791.1	-596.2	-757.5	0.00	0.00	0.00
8,900.0	0.00	0.00	8,817.2	791.1	-596.2	-757.5	0.00	0.00	0.00
9,000.0	0.00	0.00	8,917.2	791.1	-596.2	-757.5	0.00	0.00	0.00
9,100.0	0.00	0.00	9,017.2	791.1	-596.2	-757.5	0.00	0.00	0.00
9,200.0	0.00	0.00	9,117.2	791.1	-596.2	-757.5	0.00	0.00	0.00
9,300.0	0.00	0.00	9,217.2	791.1	-596.2	-757.5	0.00	0.00	0.00
9,400.0	0.00	0.00	9,317.2	791.1	-596.2	-757.5	0.00	0.00	0.00
9,500.0	0.00	0.00	9,417.2	791.1	-596.2	-757.5	0.00	0.00	0.00
9,600.0	0.00	0.00	9,517.2	791.1	-596.2	-757.5	0.00	0.00	0.00
9,700.0	0.00	0.00	9,617.2	791.1	-596.2	-757.5	0.00	0.00	0.00
9,800.0	0.00	0.00	9,717.2	791.1	-596.2	-757.5	0.00	0.00	0.00
9,900.0	0.00	0.00	9,817.2	791.1	-596.2	-757.5	0.00	0.00	0.00
10,000.0	0.00	0.00	9,917.2	791.1	-596.2	-757.5	0.00	0.00	0.00

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10,100.0	0.00	0.00	10,017.2	791.1	-596.2	-757.5	0.00	0.00	0.00
10,200.0	0.00	0.00	10,117.2	791.1	-596.2	-757.5	0.00	0.00	0.00
10,300.0	0.00	0.00	10,217.2	791.1	-596.2	-757.5	0.00	0.00	0.00
10,400.0	0.00	0.00	10,317.2	791.1	-596.2	-757.5	0.00	0.00	0.00
10,500.0	0.00	0.00	10,417.2	791.1	-596.2	-757.5	0.00	0.00	0.00
10,600.0	0.00	0.00	10,517.2	791.1	-596.2	-757.5	0.00	0.00	0.00
10,700.0	0.00	0.00	10,617.2	791.1	-596.2	-757.5	0.00	0.00	0.00
10,800.0	0.00	0.00	10,717.2	791.1	-596.2	-757.5	0.00	0.00	0.00
10,900.0	0.00	0.00	10,817.2	791.1	-596.2	-757.5	0.00	0.00	0.00
11,000.0	0.00	0.00	10,917.2	791.1	-596.2	-757.5	0.00	0.00	0.00
11,100.0	0.00	0.00	11,017.2	791.1	-596.2	-757.5	0.00	0.00	0.00
11,200.0	0.00	0.00	11,117.2	791.1	-596.2	-757.5	0.00	0.00	0.00
11,300.0	0.00	0.00	11,217.2	791.1	-596.2	-757.5	0.00	0.00	0.00
11,400.0	0.00	0.00	11,317.2	791.1	-596.2	-757.5	0.00	0.00	0.00
11,500.0	0.00	0.00	11,417.2	791.1	-596.2	-757.5	0.00	0.00	0.00
11,600.0	0.00	0.00	11,517.2	791.1	-596.2	-757.5	0.00	0.00	0.00
11,700.0	0.00	0.00	11,617.2	791.1	-596.2	-757.5	0.00	0.00	0.00
11,800.0	0.00	0.00	11,717.2	791.1	-596.2	-757.5	0.00	0.00	0.00
11,900.0	0.00	0.00	11,817.2	791.1	-596.2	-757.5	0.00	0.00	0.00
12,005.4	0.00	0.00	11,922.5	791.1	-596.2	-757.5	0.00	0.00	0.00
Start DLS 12.00 TFO 179.65									
12,025.0	2.35	179.65	11,942.1	790.7	-596.2	-757.1	12.00	12.00	0.00
12,050.0	5.35	179.65	11,967.1	789.1	-596.2	-755.4	12.00	12.00	0.00
12,075.0	8.35	179.65	11,991.9	786.1	-596.1	-752.5	12.00	12.00	0.00
12,100.0	11.35	179.65	12,016.5	781.8	-596.1	-748.2	12.00	12.00	0.00
12,125.0	14.35	179.65	12,040.9	776.2	-596.1	-742.6	12.00	12.00	0.00
12,150.0	17.35	179.65	12,065.0	769.4	-596.0	-735.8	12.00	12.00	0.00
12,175.0	20.35	179.65	12,088.6	761.3	-596.0	-727.8	12.00	12.00	0.00
12,200.0	23.35	179.65	12,111.8	752.0	-595.9	-718.5	12.00	12.00	0.00
12,225.0	26.35	179.65	12,134.5	741.5	-595.9	-708.0	12.00	12.00	0.00
12,250.0	29.35	179.65	12,156.6	729.8	-595.8	-696.3	12.00	12.00	0.00
12,275.0	32.35	179.65	12,178.1	717.0	-595.7	-683.5	12.00	12.00	0.00
12,300.0	35.35	179.65	12,198.8	703.1	-595.6	-669.6	12.00	12.00	0.00
12,325.0	38.35	179.65	12,218.8	688.1	-595.5	-654.7	12.00	12.00	0.00
12,350.0	41.35	179.65	12,238.0	672.1	-595.4	-638.7	12.00	12.00	0.00
12,375.0	44.35	179.65	12,256.3	655.1	-595.3	-621.7	12.00	12.00	0.00
12,400.0	47.35	179.65	12,273.7	637.1	-595.2	-603.8	12.00	12.00	0.00
12,425.0	50.35	179.65	12,290.2	618.3	-595.1	-585.0	12.00	12.00	0.00
12,450.0	53.35	179.65	12,305.6	598.7	-595.0	-565.4	12.00	12.00	0.00
12,475.0	56.35	179.65	12,320.0	578.2	-594.9	-545.0	12.00	12.00	0.00
12,500.0	59.35	179.65	12,333.3	557.1	-594.7	-523.9	12.00	12.00	0.00
12,525.0	62.35	179.65	12,345.5	535.2	-594.6	-502.1	12.00	12.00	0.00
12,550.0	65.35	179.65	12,356.5	512.8	-594.4	-479.7	12.00	12.00	0.00
12,575.0	68.35	179.65	12,366.3	489.8	-594.3	-456.7	12.00	12.00	0.00
12,600.0	71.35	179.65	12,374.9	466.3	-594.2	-433.3	12.00	12.00	0.00
12,625.0	74.35	179.65	12,382.3	442.4	-594.0	-409.5	12.00	12.00	0.00
12,650.0	77.35	179.65	12,388.4	418.2	-593.9	-385.3	12.00	12.00	0.00
12,675.0	80.35	179.65	12,393.2	393.7	-593.7	-360.8	12.00	12.00	0.00
12,700.0	83.35	179.65	12,396.8	368.9	-593.6	-336.1	12.00	12.00	0.00
12,725.0	86.35	179.65	12,399.0	344.0	-593.4	-311.2	12.00	12.00	0.00
12,750.0	89.35	179.65	12,400.0	319.1	-593.3	-286.3	12.00	12.00	0.00
12,755.4	90.00	179.65	12,400.0	313.7	-593.2	-280.9	12.00	12.00	0.00
Start 10061.1 hold at 12755.4 MD									
12,800.0	90.00	179.65	12,400.0	269.1	-592.9	-236.4	0.00	0.00	0.00

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Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 802H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32ft @ 3398.8usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB=32ft @ 3398.8usft
Site:	HARRIER FEDERAL PROJECT	North Reference:	Grid
Well:	HARRIER FEDERAL COM 802H	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)
12,900.0	90.00	179.65	12,400.0	169.1	-592.3	-136.6	0.00	0.00	0.00
13,000.0	90.00	179.65	12,400.0	69.1	-591.7	-36.8	0.00	0.00	0.00
13,100.0	90.00	179.65	12,400.0	-30.9	-591.1	63.1	0.00	0.00	0.00
13,200.0	90.00	179.65	12,400.0	-130.9	-590.5	162.9	0.00	0.00	0.00
13,300.0	90.00	179.65	12,400.0	-230.9	-589.9	262.7	0.00	0.00	0.00
13,400.0	90.00	179.65	12,400.0	-330.9	-589.2	362.5	0.00	0.00	0.00
13,500.0	90.00	179.65	12,400.0	-430.9	-588.6	462.3	0.00	0.00	0.00
13,600.0	90.00	179.65	12,400.0	-530.9	-588.0	562.1	0.00	0.00	0.00
13,700.0	90.00	179.65	12,400.0	-630.9	-587.4	661.9	0.00	0.00	0.00
13,800.0	90.00	179.65	12,400.0	-730.9	-586.8	761.8	0.00	0.00	0.00
13,900.0	90.00	179.65	12,400.0	-830.9	-586.2	861.6	0.00	0.00	0.00
14,000.0	90.00	179.65	12,400.0	-930.9	-585.5	961.4	0.00	0.00	0.00
14,100.0	90.00	179.65	12,400.0	-1,030.9	-584.9	1,061.2	0.00	0.00	0.00
14,200.0	90.00	179.65	12,400.0	-1,130.9	-584.3	1,161.0	0.00	0.00	0.00
14,300.0	90.00	179.65	12,400.0	-1,230.9	-583.7	1,260.8	0.00	0.00	0.00
14,400.0	90.00	179.65	12,400.0	-1,330.9	-583.1	1,360.7	0.00	0.00	0.00
14,500.0	90.00	179.65	12,400.0	-1,430.9	-582.5	1,460.5	0.00	0.00	0.00
14,600.0	90.00	179.65	12,400.0	-1,530.9	-581.8	1,560.3	0.00	0.00	0.00
14,700.0	90.00	179.65	12,400.0	-1,630.9	-581.2	1,660.1	0.00	0.00	0.00
14,800.0	90.00	179.65	12,400.0	-1,730.9	-580.6	1,759.9	0.00	0.00	0.00
14,900.0	90.00	179.65	12,400.0	-1,830.9	-580.0	1,859.7	0.00	0.00	0.00
15,000.0	90.00	179.65	12,400.0	-1,930.9	-579.4	1,959.6	0.00	0.00	0.00
15,100.0	90.00	179.65	12,400.0	-2,030.9	-578.8	2,059.4	0.00	0.00	0.00
15,200.0	90.00	179.65	12,400.0	-2,130.9	-578.2	2,159.2	0.00	0.00	0.00
15,300.0	90.00	179.65	12,400.0	-2,230.9	-577.5	2,259.0	0.00	0.00	0.00
15,400.0	90.00	179.65	12,400.0	-2,330.9	-576.9	2,358.8	0.00	0.00	0.00
15,500.0	90.00	179.65	12,400.0	-2,430.9	-576.3	2,458.6	0.00	0.00	0.00
15,600.0	90.00	179.65	12,400.0	-2,530.9	-575.7	2,558.5	0.00	0.00	0.00
15,700.0	90.00	179.65	12,400.0	-2,630.9	-575.1	2,658.3	0.00	0.00	0.00
15,800.0	90.00	179.65	12,400.0	-2,730.9	-574.5	2,758.1	0.00	0.00	0.00
15,900.0	90.00	179.65	12,400.0	-2,830.9	-573.8	2,857.9	0.00	0.00	0.00
16,000.0	90.00	179.65	12,400.0	-2,930.9	-573.2	2,957.7	0.00	0.00	0.00
16,100.0	90.00	179.65	12,400.0	-3,030.9	-572.6	3,057.5	0.00	0.00	0.00
16,200.0	90.00	179.65	12,400.0	-3,130.9	-572.0	3,157.4	0.00	0.00	0.00
16,300.0	90.00	179.65	12,400.0	-3,230.9	-571.4	3,257.2	0.00	0.00	0.00
16,400.0	90.00	179.65	12,400.0	-3,330.9	-570.8	3,357.0	0.00	0.00	0.00
16,500.0	90.00	179.65	12,400.0	-3,430.9	-570.1	3,456.8	0.00	0.00	0.00
16,600.0	90.00	179.65	12,400.0	-3,530.9	-569.5	3,556.6	0.00	0.00	0.00
16,700.0	90.00	179.65	12,400.0	-3,630.9	-568.9	3,656.4	0.00	0.00	0.00
16,800.0	90.00	179.65	12,400.0	-3,730.9	-568.3	3,756.3	0.00	0.00	0.00
16,900.0	90.00	179.65	12,400.0	-3,830.9	-567.7	3,856.1	0.00	0.00	0.00
17,000.0	90.00	179.65	12,400.0	-3,930.9	-567.1	3,955.9	0.00	0.00	0.00
17,100.0	90.00	179.65	12,400.0	-4,030.9	-566.4	4,055.7	0.00	0.00	0.00
17,200.0	90.00	179.65	12,400.0	-4,130.9	-565.8	4,155.5	0.00	0.00	0.00
17,300.0	90.00	179.65	12,400.0	-4,230.9	-565.2	4,255.3	0.00	0.00	0.00
17,400.0	90.00	179.65	12,400.0	-4,330.8	-564.6	4,355.2	0.00	0.00	0.00
17,500.0	90.00	179.65	12,400.0	-4,430.8	-564.0	4,455.0	0.00	0.00	0.00
17,600.0	90.00	179.65	12,400.0	-4,530.8	-563.4	4,554.8	0.00	0.00	0.00
17,700.0	90.00	179.65	12,400.0	-4,630.8	-562.7	4,654.6	0.00	0.00	0.00
17,800.0	90.00	179.65	12,400.0	-4,730.8	-562.1	4,754.4	0.00	0.00	0.00
17,900.0	90.00	179.65	12,400.0	-4,830.8	-561.5	4,854.2	0.00	0.00	0.00
18,000.0	90.00	179.65	12,400.0	-4,930.8	-560.9	4,954.1	0.00	0.00	0.00
18,100.0	90.00	179.65	12,400.0	-5,030.8	-560.3	5,053.9	0.00	0.00	0.00
18,200.0	90.00	179.65	12,400.0	-5,130.8	-559.7	5,153.7	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 802H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32ft @ 3398.8usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB=32ft @ 3398.8usft
Site:	HARRIER FEDERAL PROJECT	North Reference:	Grid
Well:	HARRIER FEDERAL COM 802H	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)
18,300.0	90.00	179.65	12,400.0	-5,230.8	-559.0	5,253.5	0.00	0.00	0.00
18,400.0	90.00	179.65	12,400.0	-5,330.8	-558.4	5,353.3	0.00	0.00	0.00
18,500.0	90.00	179.65	12,400.0	-5,430.8	-557.8	5,453.1	0.00	0.00	0.00
18,600.0	90.00	179.65	12,400.0	-5,530.8	-557.2	5,553.0	0.00	0.00	0.00
18,700.0	90.00	179.65	12,400.0	-5,630.8	-556.6	5,652.8	0.00	0.00	0.00
18,800.0	90.00	179.65	12,400.0	-5,730.8	-556.0	5,752.6	0.00	0.00	0.00
18,900.0	90.00	179.65	12,400.0	-5,830.8	-555.3	5,852.4	0.00	0.00	0.00
19,000.0	90.00	179.65	12,400.0	-5,930.8	-554.7	5,952.2	0.00	0.00	0.00
19,100.0	90.00	179.65	12,400.0	-6,030.8	-554.1	6,052.0	0.00	0.00	0.00
19,200.0	90.00	179.65	12,400.0	-6,130.8	-553.5	6,151.9	0.00	0.00	0.00
19,300.0	90.00	179.65	12,400.0	-6,230.8	-552.9	6,251.7	0.00	0.00	0.00
19,400.0	90.00	179.65	12,400.0	-6,330.8	-552.3	6,351.5	0.00	0.00	0.00
19,500.0	90.00	179.65	12,400.0	-6,430.8	-551.6	6,451.3	0.00	0.00	0.00
19,600.0	90.00	179.65	12,400.0	-6,530.8	-551.0	6,551.1	0.00	0.00	0.00
19,700.0	90.00	179.65	12,400.0	-6,630.8	-550.4	6,650.9	0.00	0.00	0.00
19,800.0	90.00	179.65	12,400.0	-6,730.8	-549.8	6,750.7	0.00	0.00	0.00
19,900.0	90.00	179.65	12,400.0	-6,830.8	-549.2	6,850.6	0.00	0.00	0.00
20,000.0	90.00	179.65	12,400.0	-6,930.8	-548.6	6,950.4	0.00	0.00	0.00
20,100.0	90.00	179.65	12,400.0	-7,030.8	-547.9	7,050.2	0.00	0.00	0.00
20,200.0	90.00	179.65	12,400.0	-7,130.8	-547.3	7,150.0	0.00	0.00	0.00
20,300.0	90.00	179.65	12,400.0	-7,230.8	-546.7	7,249.8	0.00	0.00	0.00
20,400.0	90.00	179.65	12,400.0	-7,330.8	-546.1	7,349.6	0.00	0.00	0.00
20,500.0	90.00	179.65	12,400.0	-7,430.8	-545.5	7,449.5	0.00	0.00	0.00
20,600.0	90.00	179.65	12,400.0	-7,530.8	-544.9	7,549.3	0.00	0.00	0.00
20,700.0	90.00	179.65	12,400.0	-7,630.8	-544.2	7,649.1	0.00	0.00	0.00
20,800.0	90.00	179.65	12,400.0	-7,730.8	-543.6	7,748.9	0.00	0.00	0.00
20,900.0	90.00	179.65	12,400.0	-7,830.8	-543.0	7,848.7	0.00	0.00	0.00
21,000.0	90.00	179.65	12,400.0	-7,930.8	-542.4	7,948.5	0.00	0.00	0.00
21,100.0	90.00	179.65	12,400.0	-8,030.8	-541.8	8,048.4	0.00	0.00	0.00
21,200.0	90.00	179.65	12,400.0	-8,130.8	-541.2	8,148.2	0.00	0.00	0.00
21,300.0	90.00	179.65	12,400.0	-8,230.8	-540.5	8,248.0	0.00	0.00	0.00
21,400.0	90.00	179.65	12,400.0	-8,330.8	-539.9	8,347.8	0.00	0.00	0.00
21,500.0	90.00	179.65	12,400.0	-8,430.8	-539.3	8,447.6	0.00	0.00	0.00
21,600.0	90.00	179.65	12,400.0	-8,530.8	-538.7	8,547.4	0.00	0.00	0.00
21,700.0	90.00	179.65	12,400.0	-8,630.8	-538.1	8,647.3	0.00	0.00	0.00
21,800.0	90.00	179.65	12,400.0	-8,730.8	-537.5	8,747.1	0.00	0.00	0.00
21,900.0	90.00	179.65	12,400.0	-8,830.8	-536.8	8,846.9	0.00	0.00	0.00
22,000.0	90.00	179.65	12,400.0	-8,930.8	-536.2	8,946.7	0.00	0.00	0.00
22,100.0	90.00	179.65	12,400.0	-9,030.8	-535.6	9,046.5	0.00	0.00	0.00
22,200.0	90.00	179.65	12,400.0	-9,130.8	-535.0	9,146.3	0.00	0.00	0.00
22,300.0	90.00	179.65	12,400.0	-9,230.8	-534.4	9,246.2	0.00	0.00	0.00
22,400.0	90.00	179.65	12,400.0	-9,330.8	-533.8	9,346.0	0.00	0.00	0.00
22,500.0	90.00	179.65	12,400.0	-9,430.8	-533.2	9,445.8	0.00	0.00	0.00
22,600.0	90.00	179.65	12,400.0	-9,530.8	-532.5	9,545.6	0.00	0.00	0.00
22,700.0	90.00	179.65	12,400.0	-9,630.7	-531.9	9,645.4	0.00	0.00	0.00
22,800.0	90.00	179.65	12,400.0	-9,730.7	-531.3	9,745.2	0.00	0.00	0.00
22,816.5	90.00	179.65	12,400.0	-9,747.2	-531.2	9,761.7	0.00	0.00	0.00
TD at 22816.5									

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 802H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32ft @ 3398.8usft
Project:	LEA COUNT SOUTH WEST (NM-E)	MD Reference:	KB=32ft @ 3398.8usft
Site:	HARRIER FEDERAL PROJECT	North Reference:	Grid
Well:	HARRIER FEDERAL COM 802H	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	0.01	11,922.5	791.1	-596.2	398,581.43	710,779.53	32° 5' 38.356 N	103° 39' 9.718 W
- plan hits target center									
- Rectangle (sides W100.0 H50.0 D4,552.6)									
FTP_HARRIER 802H	0.00	0.00	12,400.0	741.1	-595.4	398,531.40	710,780.30	32° 5' 37.861 N	103° 39' 9.713 W
- plan misses target center by 163.4usft at 12404.8usft MD (12277.0 TVD, 633.6 N, -595.2 E)									
- Circle (radius 50.0)									
PBHL_HARRIER 802H	0.00	359.65	12,400.0	-9,747.2	-531.2	388,043.10	710,844.50	32° 3' 54.065 N	103° 39' 9.736 W
- plan hits target center									
- Rectangle (sides W100.0 H10,487.9 D20.0)									
LTP_HARRIER 802H	90.00	179.65	12,400.0	-9,697.2	-531.5	388,093.10	710,844.20	32° 3' 54.560 N	103° 39' 9.736 W
- plan hits target center									
- Circle (radius 50.0)									

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
		(usft)	(usft)		
1,000.0	1,000.0	0.0	0.0	Start Build 2.00	
1,500.0	1,497.5	34.8	-26.2	Start 4952.8 hold at 1500.0 MD	
6,452.8	6,375.0	721.6	-543.8	Start Drop -1.00	
7,452.8	7,369.9	791.1	-596.2	Start 4552.6 hold at 7452.8 MD	
12,005.4	11,922.5	791.1	-596.2	Start DLS 12.00 TFO 179.65	
12,755.4	12,400.0	313.7	-593.2	Start 10061.1 hold at 12755.4 MD	
22,816.5	12,400.0	-9,747.2	-531.2	TD at 22816.5	

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 30-025-49892	Pool Code 98158	Pool Name WC-025 G-09 S253236A; Upper Wolfcamp
Property Code 325390	Property Name HARRIER FEDERAL COM	
OGRID No. 229137	Operator Name COG OPERATING LLC	Well Number 802H
		Elevation 3366.8'

Surface Location

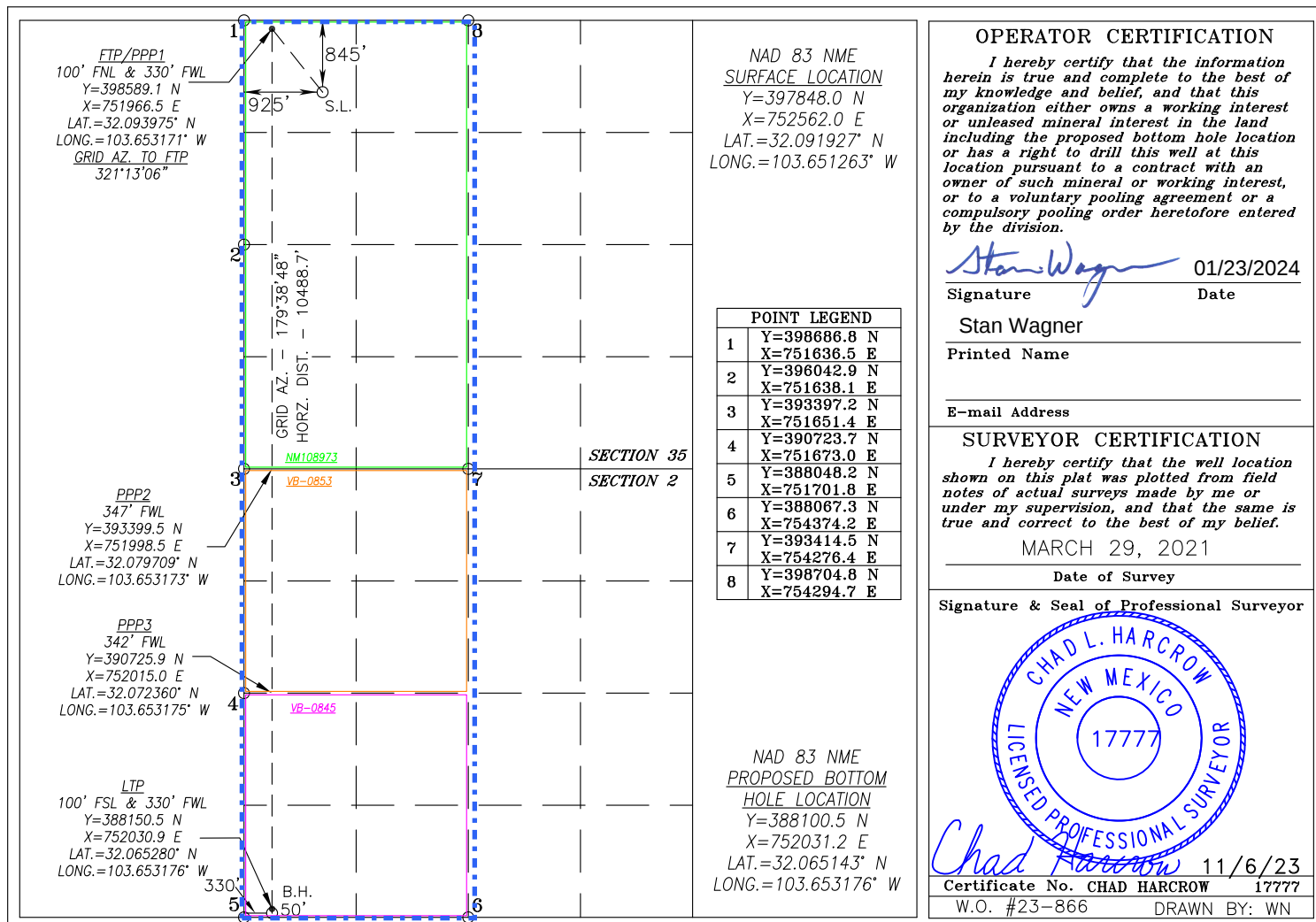
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	35	25-S	32-E		845	NORTH	925	WEST	LEA

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	330	WEST	LEA

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

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



DELAWARE BASIN EAST

LEA COUNT SOUTH WEST (NM-E)

HARRIER FEDERAL PROJECT

HARRIER FEDERAL COM 802H

300254989200

OWB

PWP0

Anticollision Report

12 January, 2024

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	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	22,816.5	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	1,000.0	999.2	74.7	64.7	7.442	CC, ES
_HARRIER FEDERAL COM 701H - OWB - PWP0	1,100.0	1,099.2	76.4	65.9	7.309	SF
HARRIER 35 FEDERAL COM #1H - OWB - AWP	14,127.7	15,215.7	427.9	358.3	6.148	CC, ES
HARRIER 35 FEDERAL COM #1H - OWB - AWP	14,400.0	15,206.7	507.1	414.4	5.472	SF
HARRIER FEDERAL COM #102H - OWB - AWP	9,214.0	19,310.7	277.3	147.0	2.129	Caution - Monitor Closely, C
HARRIER FEDERAL COM #202H - OWB - AWP	8,695.5	8,626.2	113.3	87.8	4.437	CC
HARRIER FEDERAL COM #202H - OWB - AWP	8,700.0	8,630.4	113.3	87.8	4.436	ES, SF
HARRIER FEDERAL COM #304H - OWB - AWP	10,192.0	20,369.8	339.4	208.7	2.596	Normal Operations, CC, ES,
HARRIER FEDERAL COM #305H - OWB - AWP	9,680.0	19,866.5	222.8	91.9	1.702	Caution - Monitor Closely, C
HARRIER FEDERAL COM 702H - OWB - PWP0	1,000.0	999.7	30.0	20.0	2.988	Normal Operations, CC, ES
HARRIER FEDERAL COM 702H - OWB - PWP0	1,100.0	1,099.7	31.1	20.7	2.988	Normal Operations, SF
HARRIER FEDERAL COM 703H - OWB - PWP0	1,000.0	999.7	53.8	43.8	5.362	CC, ES
HARRIER FEDERAL COM 703H - OWB - PWP0	22,816.5	22,830.4	980.0	778.5	4.863	SF
HARRIER FEDERAL COM 704H - OWB - PWP0	1,000.0	999.5	44.9	34.9	4.473	CC, ES
HARRIER FEDERAL COM 704H - OWB - PWP0	22,816.5	22,519.8	617.0	425.7	3.226	SF
HARRIER FEDERAL COM 802H - PILOT - PWP0 (PH)	12,007.6	12,007.6	0.0	-55.1	0.000	STOP Drilling, CC, ES, SF
PILEDRIIVER FEDERAL PROJECT						
MONSOON FEDERAL SWD 1 - OWB - AWP	13,977.2	12,343.4	474.4	427.3	10.078	CC
MONSOON FEDERAL SWD 1 - OWB - AWP	14,000.0	12,343.1	474.9	427.1	9.924	ES
MONSOON FEDERAL SWD 1 - OWB - AWP	14,100.0	12,342.2	490.0	439.1	9.625	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 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	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	22,816.5	22,942.3				Out of Range @TD
HARRIER 35 FEDERAL COM #1H - OWB - AWP	22,816.5	14,950.0				Out of Range @TD
HARRIER FEDERAL COM #102H - OWB - AWP	22,816.5	9,357.0				Out of Range @TD
HARRIER FEDERAL COM #202H - OWB - AWP	22,816.5	19,461.0				Out of Range @TD
HARRIER FEDERAL COM #304H - OWB - AWP	22,816.5	10,223.0				Out of Range @TD
HARRIER FEDERAL COM #305H - OWB - AWP	22,816.5	9,852.0				Out of Range @TD
HARRIER FEDERAL COM 702H - OWB - PWP0	22,816.5	22,570.4				Out of Range @TD
HARRIER FEDERAL COM 703H - OWB - PWP0	22,816.5	22,830.4	980.0	778.5	4.863	SF
HARRIER FEDERAL COM 704H - OWB - PWP0	22,816.5	22,519.8	617.0	425.7	3.226	SF
HARRIER FEDERAL COM 802H - PILOT - PWP0 (PH)	22,816.5	12,482.8				Out of Range @TD
PILEDRIIVER FEDERAL PROJECT						
MONSOON FEDERAL SWD 1 - OWB - AWP	22,816.5	12,292.0				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				Rule Assigned:								Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	+N/-S	+E/-W	Between	Between	Minimum	Separation	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	(usft)	(usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	
0.0	0.0	0.0	0.0	3.0	3.0	126.56	-44.5	60.0	74.7				
100.0	100.0	99.2	99.2	3.1	3.1	126.56	-44.5	60.0	74.7	68.1	6.62	11.288	
200.0	200.0	199.2	199.2	3.3	3.3	126.56	-44.5	60.0	74.7	67.6	7.07	10.567	
300.0	300.0	299.2	299.2	3.5	3.5	126.56	-44.5	60.0	74.7	67.2	7.50	9.964	
400.0	400.0	399.2	399.2	3.7	3.7	126.56	-44.5	60.0	74.7	66.8	7.90	9.452	
500.0	500.0	499.2	499.2	3.9	3.9	126.56	-44.5	60.0	74.7	66.4	8.29	9.009	
600.0	600.0	599.2	599.2	4.1	4.1	126.56	-44.5	60.0	74.7	66.0	8.66	8.622	
700.0	700.0	699.2	699.2	4.3	4.3	126.56	-44.5	60.0	74.7	65.7	9.02	8.278	
800.0	800.0	799.2	799.2	4.5	4.5	126.56	-44.5	60.0	74.7	65.3	9.37	7.971	
900.0	900.0	899.2	899.2	4.7	4.7	126.56	-44.5	60.0	74.7	65.0	9.71	7.693	
1,000.0	1,000.0	999.2	999.2	4.8	4.8	126.56	-44.5	60.0	74.7	64.7	10.04	7.442	CC, ES
1,100.0	1,100.0	1,099.2	1,099.2	5.1	5.0	163.92	-44.5	60.0	76.4	65.9	10.45	7.309	SF
1,200.0	1,199.8	1,199.0	1,199.0	5.4	5.1	164.92	-44.5	60.0	81.4	70.6	10.86	7.494	
1,300.0	1,299.5	1,298.7	1,298.7	5.6	5.3	166.32	-44.5	60.0	89.9	78.6	11.29	7.958	
1,400.0	1,398.7	1,397.9	1,397.9	5.9	5.5	167.90	-44.5	60.0	101.7	90.0	11.74	8.668	
1,500.0	1,497.5	1,496.7	1,496.7	6.3	5.6	169.44	-44.5	60.0	117.1	104.9	12.20	9.595	
1,600.0	1,595.9	1,595.1	1,595.1	6.5	5.8	170.12	-43.4	61.1	134.2	121.6	12.61	10.648	
1,700.0	1,694.4	1,693.5	1,693.4	6.8	6.1	169.34	-39.8	64.5	151.4	138.4	13.01	11.636	

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 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	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)			
1,800.0	1,792.9	1,791.6	1,791.1	7.1	6.3	167.56	-33.8	70.3	168.8	155.4	13.43	12.569	
1,900.0	1,891.4	1,889.3	1,888.1	7.4	6.6	165.09	-25.5	78.3	186.6	172.7	13.85	13.474	
2,000.0	1,989.9	1,986.2	1,983.9	7.7	6.8	162.13	-14.9	88.6	205.2	190.9	14.26	14.383	
2,100.0	2,088.4	2,082.2	2,078.2	8.1	7.1	158.87	-2.1	101.0	224.8	210.1	14.67	15.323	
2,200.0	2,186.8	2,178.2	2,172.0	8.4	7.4	155.49	12.6	115.2	245.8	230.8	15.04	16.341	
2,300.0	2,285.3	2,274.9	2,266.4	8.8	7.6	152.56	27.7	129.7	267.6	252.2	15.45	17.320	
2,400.0	2,383.8	2,371.7	2,360.9	9.1	7.9	150.07	42.8	144.3	290.0	274.1	15.88	18.266	
2,500.0	2,482.3	2,468.4	2,455.3	9.5	8.2	147.93	57.8	158.8	312.8	296.5	16.31	19.178	
2,600.0	2,580.8	2,565.1	2,549.8	9.9	8.5	146.09	72.9	173.3	336.0	319.3	16.76	20.051	
2,700.0	2,679.2	2,661.9	2,644.2	10.3	8.9	144.48	87.9	187.9	359.5	342.3	17.22	20.882	
2,800.0	2,777.7	2,758.6	2,738.7	10.7	9.2	143.06	103.0	202.4	383.2	365.5	17.68	21.671	
2,900.0	2,876.2	2,855.4	2,833.1	11.1	9.6	141.82	118.1	217.0	407.2	389.0	18.16	22.418	
3,000.0	2,974.7	2,952.1	2,927.5	11.5	9.9	140.71	133.1	231.5	431.2	412.6	18.65	23.124	
3,100.0	3,073.2	3,048.8	3,022.0	11.9	10.3	139.71	148.2	246.1	455.5	436.3	19.14	23.790	
3,200.0	3,171.6	3,145.6	3,116.4	12.3	10.7	138.82	163.2	260.6	479.8	460.1	19.65	24.418	
3,300.0	3,270.1	3,242.3	3,210.9	12.7	11.1	138.01	178.3	275.2	504.2	484.1	20.16	25.010	
3,400.0	3,368.6	3,339.0	3,305.3	13.1	11.4	137.28	193.4	289.7	528.7	508.1	20.68	25.568	
3,500.0	3,467.1	3,435.8	3,399.7	13.6	11.8	136.61	208.4	304.2	553.3	532.1	21.21	26.094	
3,600.0	3,565.6	3,532.5	3,494.2	14.0	12.2	136.00	223.5	318.8	578.0	556.3	21.74	26.590	
3,700.0	3,664.0	3,629.2	3,588.6	14.4	12.6	135.44	238.5	333.3	602.7	580.4	22.27	27.058	
3,800.0	3,762.5	3,726.0	3,683.1	14.8	13.1	134.92	253.6	347.9	627.5	604.7	22.82	27.499	
3,900.0	3,861.0	3,822.7	3,777.5	15.3	13.5	134.44	268.7	362.4	652.3	628.9	23.37	27.916	
4,000.0	3,959.5	3,919.4	3,871.9	15.7	13.9	134.00	283.7	377.0	677.1	653.2	23.92	28.310	
4,100.0	4,058.0	4,016.2	3,966.4	16.1	14.3	133.59	298.8	391.5	702.0	677.6	24.48	28.682	
4,200.0	4,156.4	4,112.9	4,060.8	16.6	14.7	133.20	313.9	406.1	727.0	701.9	25.04	29.034	
4,300.0	4,254.9	4,209.6	4,155.3	17.0	15.1	132.84	328.9	420.6	751.9	726.3	25.60	29.368	
4,400.0	4,353.4	4,306.4	4,249.7	17.4	15.6	132.51	344.0	435.1	776.9	750.7	26.17	29.683	
4,500.0	4,451.9	4,403.1	4,344.2	17.9	16.0	132.19	359.0	449.7	801.9	775.1	26.74	29.983	
4,600.0	4,550.4	4,499.8	4,438.6	18.3	16.4	131.90	374.1	464.2	826.9	799.6	27.32	30.267	
4,700.0	4,648.9	4,596.6	4,533.0	18.7	16.9	131.62	389.2	478.8	851.9	824.0	27.90	30.537	
4,800.0	4,747.3	4,693.3	4,627.5	19.2	17.3	131.36	404.2	493.3	877.0	848.5	28.48	30.794	
4,900.0	4,845.8	4,790.0	4,721.9	19.6	17.7	131.11	419.3	507.9	902.1	873.0	29.06	31.038	
5,000.0	4,944.3	4,886.8	4,816.4	20.0	18.2	130.88	434.3	522.4	927.1	897.5	29.65	31.270	
5,100.0	5,042.8	4,983.5	4,910.8	20.5	18.6	130.65	449.4	537.0	952.2	922.0	30.24	31.492	
5,200.0	5,141.3	5,080.2	5,005.2	20.9	19.0	130.44	464.5	551.5	977.4	946.5	30.83	31.703	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER 35 FEDERAL COM #1H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-r.5 GYRO-NS, 4800-r.5 MWD													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,300.0	12,400.0	15,252.2	11,953.6	30.7	84.7	3.84	-1,057.1	-613.5	931.0	818.0	113.02	8.238		
13,400.0	12,400.0	15,247.4	11,953.7	30.9	84.6	3.20	-1,057.3	-608.7	843.6	733.1	110.46	7.637		
13,500.0	12,400.0	15,242.8	11,953.8	31.0	84.5	2.59	-1,057.5	-604.2	759.2	652.0	107.15	7.085		
13,600.0	12,400.0	15,238.4	11,953.9	31.2	84.4	2.01	-1,057.7	-599.8	679.0	576.2	102.81	6.605		
13,700.0	12,400.0	15,234.2	11,954.0	31.4	84.3	1.45	-1,057.9	-595.6	604.7	507.6	97.08	6.229		
13,800.0	12,400.0	15,229.3	11,954.1	31.6	84.2	0.79	-1,058.1	-590.7	538.8	449.1	89.68	6.008		
13,900.0	12,400.0	15,224.8	11,954.2	31.8	84.1	0.19	-1,058.2	-586.2	484.6	403.7	80.92	5.988		
14,000.0	12,400.0	15,220.6	11,954.3	32.1	84.0	-0.37	-1,058.4	-582.0	446.5	373.8	72.70	6.142		
14,100.0	12,400.0	15,216.8	11,954.4	32.4	83.9	-0.89	-1,058.5	-578.1	428.8	359.6	69.19	6.197		
14,127.7	12,400.0	15,215.7	11,954.4	32.5	83.9	-1.02	-1,058.5	-577.1	427.9	358.3	69.60	6.148 CC, ES		
14,200.0	12,400.0	15,213.2	11,954.4	32.7	83.8	-1.37	-1,058.6	-574.5	433.9	360.5	73.44	5.908		
14,300.0	12,400.0	15,209.8	11,954.5	33.0	83.7	-1.81	-1,058.7	-571.2	461.2	378.4	82.81	5.570		
14,400.0	12,400.0	15,206.7	11,954.5	33.4	83.7	-2.23	-1,058.8	-568.1	507.1	414.4	92.66	5.472 SF		
14,500.0	12,400.0	15,203.0	11,954.6	33.8	83.6	-2.73	-1,058.9	-564.4	567.0	466.3	100.71	5.631		
14,600.0	12,400.0	15,200.7	11,954.6	34.2	83.5	-3.04	-1,059.0	-562.1	637.1	530.4	106.68	5.972		
14,700.0	12,400.0	15,197.5	11,954.7	34.6	83.4	-3.46	-1,059.1	-558.9	714.3	603.4	110.93	6.439		
14,800.0	12,400.0	15,194.4	11,954.7	35.1	83.4	-3.88	-1,059.2	-555.8	796.6	682.6	113.95	6.991		
14,900.0	12,400.0	15,191.3	11,954.8	35.6	83.3	-4.29	-1,059.2	-552.7	882.5	766.4	116.12	7.601		
15,000.0	12,400.0	15,188.3	11,954.8	36.1	83.2	-4.69	-1,059.3	-549.7	971.2	853.5	117.68	8.252		

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 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	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 #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			
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)					
8,300.0	8,217.2	19,312.0	9,011.4	30.4	90.3	89.84	791.9	-318.9	955.8	836.7	119.12	8.024				
8,400.0	8,317.2	19,312.0	9,011.4	30.5	90.3	89.84	791.9	-318.9	860.6	741.1	119.46	7.204				
8,500.0	8,417.2	19,312.0	9,011.4	30.5	90.3	89.84	791.9	-318.9	766.6	646.7	119.90	6.394				
8,600.0	8,517.2	19,312.0	9,011.4	30.6	90.3	89.84	791.9	-318.9	674.4	553.9	120.49	5.597				
8,700.0	8,617.2	19,312.0	9,011.4	30.6	90.3	89.84	791.9	-318.9	584.7	463.4	121.29	4.820				
8,800.0	8,717.2	19,312.0	9,011.4	30.6	90.3	89.84	791.9	-318.9	498.9	376.4	122.44	4.075				
8,900.0	8,817.2	19,312.0	9,011.4	30.7	90.3	89.84	791.9	-318.9	419.4	295.3	124.09	3.380				
9,000.0	8,917.2	19,312.0	9,011.4	30.7	90.3	89.84	791.9	-318.9	350.7	224.3	126.36	2.775	Normal Operations			
9,100.0	9,017.2	19,312.0	9,011.4	30.8	90.3	89.84	791.9	-318.9	300.1	171.1	128.92	2.327	Caution - Monitor Closely			
9,200.0	9,117.2	19,311.5	9,011.4	30.8	90.3	89.94	791.4	-318.9	277.7	147.4	130.26	2.131	Caution - Monitor Closely			
9,214.0	9,131.2	19,310.7	9,011.4	30.8	90.2	90.10	790.6	-318.9	277.3	147.0	130.24	2.129	Caution - Monitor Closely, CC, ES, SF			
9,300.0	9,217.2	19,305.9	9,011.7	30.8	90.2	91.09	785.9	-318.9	290.0	161.0	128.96	2.249	Caution - Monitor Closely			
9,400.0	9,317.2	19,300.3	9,012.0	30.9	90.2	92.24	780.3	-318.9	333.3	207.1	126.19	2.641	Normal Operations			
9,500.0	9,417.2	19,294.8	9,012.3	30.9	90.1	93.39	774.7	-318.9	397.4	273.7	123.71	3.213				
9,600.0	9,517.2	19,289.2	9,012.7	31.0	90.1	94.54	769.1	-318.9	474.1	352.1	122.00	3.886				
9,700.0	9,617.2	19,283.6	9,013.0	31.0	90.0	95.68	763.6	-319.0	558.2	437.3	120.91	4.617				
9,800.0	9,717.2	19,278.0	9,013.3	31.0	90.0	96.82	758.0	-319.0	646.7	526.5	120.21	5.380				
9,900.0	9,817.2	19,272.4	9,013.6	31.1	89.9	97.95	752.4	-319.0	738.2	618.4	119.75	6.164				
10,000.0	9,917.2	19,266.8	9,013.9	31.1	89.9	99.08	746.8	-319.0	831.6	712.1	119.45	6.961				
10,100.0	10,017.2	19,261.3	9,014.2	31.2	89.8	100.20	741.3	-319.0	926.3	807.0	119.26	7.767				

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 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	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 #202H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8598-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
0.0	0.0	1.0	1.0	3.0	3.0	-58.51	405.6	-662.2	776.6				
100.0	100.0	95.2	95.2	3.1	3.0	-58.50	405.9	-662.3	776.8	770.3	6.52	119.049	
200.0	200.0	194.4	194.3	3.3	3.0	-58.45	406.7	-662.3	777.2	770.4	6.76	114.953	
300.0	300.0	292.5	292.5	3.5	3.0	-58.37	407.8	-662.2	777.7	770.7	6.99	111.216	
400.0	400.0	397.4	397.3	3.7	3.0	-58.31	408.6	-661.9	777.9	770.6	7.22	107.750	
487.1	487.1	484.3	484.3	3.9	3.0	-58.26	409.2	-661.5	777.8	770.4	7.41	104.965	
500.0	500.0	496.7	496.6	3.9	3.0	-58.25	409.3	-661.4	777.8	770.4	7.44	104.544	
600.0	600.0	593.2	593.2	4.1	3.1	-58.19	410.2	-661.2	778.1	770.5	7.66	101.596	
700.0	700.0	693.1	693.1	4.3	3.1	-58.14	411.0	-661.4	778.7	770.8	7.88	98.845	
800.0	800.0	790.7	790.7	4.5	3.1	-58.09	412.0	-661.5	779.3	771.2	8.09	96.288	
900.0	900.0	887.1	887.0	4.7	3.2	-58.03	413.2	-662.0	780.5	772.2	8.31	93.927	
1,000.0	1,000.0	988.5	988.4	4.8	3.2	-58.00	414.1	-662.8	781.6	773.0	8.53	91.662	
1,100.0	1,100.0	1,087.5	1,087.5	5.1	3.3	-21.03	415.0	-663.6	781.1	772.2	8.85	88.299	
1,200.0	1,199.8	1,189.0	1,188.9	5.4	3.3	-21.16	416.0	-664.2	777.3	768.1	9.17	84.721	
1,300.0	1,299.5	1,285.2	1,285.1	5.6	3.4	-21.40	417.0	-665.1	770.5	761.0	9.52	80.929	
1,400.0	1,398.7	1,386.1	1,386.0	5.9	3.4	-21.77	418.2	-666.0	760.5	750.6	9.89	76.893	
1,500.0	1,497.5	1,483.3	1,483.2	6.3	3.5	-22.26	419.5	-666.7	747.3	737.0	10.28	72.698	
1,600.0	1,595.9	1,578.4	1,578.2	6.5	3.5	-22.69	421.0	-667.8	733.0	722.4	10.61	69.096	
1,700.0	1,694.4	1,678.9	1,678.7	6.8	3.6	-23.19	422.5	-669.2	718.9	708.0	10.96	65.592	
1,800.0	1,792.9	1,795.3	1,795.2	7.1	3.7	-23.77	424.1	-670.1	704.4	693.1	11.33	62.198	
1,900.0	1,891.4	1,896.4	1,896.3	7.4	3.7	-24.26	424.7	-668.7	687.6	675.9	11.67	58.896	
2,000.0	1,989.9	1,991.2	1,991.1	7.7	3.7	-24.76	425.2	-667.5	670.9	658.9	12.05	55.700	
2,100.0	2,088.4	2,087.6	2,087.4	8.1	3.8	-25.28	426.0	-666.6	654.7	642.2	12.43	52.652	
2,200.0	2,186.8	2,185.5	2,185.3	8.4	3.8	-25.85	426.8	-665.9	638.8	625.9	12.84	49.764	
2,300.0	2,285.3	2,283.1	2,282.9	8.8	3.9	-26.45	427.6	-665.3	623.0	609.7	13.25	47.025	
2,400.0	2,383.8	2,382.7	2,382.5	9.1	4.0	-27.10	428.4	-664.8	607.3	593.6	13.66	44.446	
2,500.0	2,482.3	2,480.8	2,480.6	9.5	4.1	-27.77	429.1	-664.3	591.7	577.6	14.09	42.003	
2,600.0	2,580.8	2,578.2	2,578.0	9.9	4.1	-28.49	429.7	-663.9	576.2	561.7	14.51	39.706	
2,700.0	2,679.2	2,676.6	2,676.4	10.3	4.2	-29.29	430.0	-663.7	560.9	546.0	14.93	37.557	
2,800.0	2,777.7	2,774.6	2,774.4	10.7	4.3	-30.17	430.1	-663.7	545.8	530.4	15.36	35.535	
2,900.0	2,876.2	2,872.4	2,872.2	11.1	4.3	-31.10	430.2	-663.9	531.0	515.2	15.79	33.634	
3,000.0	2,974.7	2,972.0	2,971.8	11.5	4.3	-32.12	430.1	-664.0	516.2	500.0	16.19	31.877	
3,100.0	3,073.2	3,072.8	3,072.6	11.9	4.3	-33.21	429.8	-663.9	501.3	484.8	16.58	30.242	
3,200.0	3,171.6	3,175.8	3,175.5	12.3	4.3	-34.38	429.6	-663.0	486.0	469.0	16.94	28.687	
3,300.0	3,270.1	3,276.7	3,276.5	12.7	4.3	-35.58	429.2	-661.4	470.1	452.8	17.30	27.174	
3,400.0	3,368.6	3,375.7	3,375.5	13.1	4.4	-36.83	428.8	-659.3	453.8	436.1	17.65	25.708	
3,500.0	3,467.1	3,476.4	3,476.1	13.6	4.4	-38.17	428.4	-656.8	437.5	419.5	17.98	24.333	
3,600.0	3,565.6	3,575.0	3,574.7	14.0	4.5	-39.52	428.4	-653.8	421.0	402.7	18.30	22.997	
3,700.0	3,664.0	3,663.0	3,662.7	14.4	4.5	-40.88	428.3	-652.5	406.1	387.5	18.66	21.770	
3,800.0	3,762.5	3,760.8	3,760.5	14.8	4.6	-42.50	428.4	-652.3	392.9	374.0	18.93	20.758	
3,900.0	3,861.0	3,858.8	3,858.4	15.3	4.6	-44.28	428.2	-652.4	380.2	361.0	19.16	19.846	
4,000.0	3,959.5	3,960.1	3,959.8	15.7	4.6	-46.23	428.0	-652.0	367.5	348.2	19.33	19.010	
4,100.0	4,058.0	4,063.2	4,062.9	16.1	4.6	-48.44	427.2	-650.3	353.9	334.5	19.44	18.201	
4,200.0	4,156.4	4,163.0	4,162.6	16.6	4.7	-50.78	426.2	-647.9	340.1	320.6	19.53	17.420	
4,300.0	4,254.9	4,267.3	4,266.8	17.0	4.7	-53.52	424.6	-644.2	325.8	306.3	19.50	16.708	
4,400.0	4,353.4	4,366.1	4,365.5	17.4	4.8	-56.48	422.4	-639.4	310.8	291.4	19.43	15.997	
4,500.0	4,451.9	4,456.6	4,455.9	17.9	4.8	-59.47	420.3	-635.6	297.5	278.2	19.37	15.361	
4,600.0	4,550.4	4,546.2	4,545.4	18.3	4.8	-62.45	418.7	-635.3	288.8	269.6	19.27	14.990	
4,700.0	4,648.9	4,644.1	4,643.4	18.7	4.8	-65.77	417.4	-635.9	282.0	262.9	19.06	14.793	
4,800.0	4,747.3	4,743.7	4,742.9	19.2	4.8	-69.32	415.9	-636.3	276.1	257.3	18.83	14.666	
4,900.0	4,845.8	4,848.7	4,847.9	19.6	4.9	-72.91	416.1	-636.4	270.4	251.8	18.60	14.540	
5,000.0	4,944.3	4,948.1	4,947.2	20.0	5.0	-75.70	420.3	-635.8	263.5	245.0	18.54	14.216	

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 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	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 #202H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 100-Standard Keeper 104, 8598-MWD+IFR1+FDIR													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.0	5,042.8	5,042.9	5,041.9	20.5	5.0	-78.11	425.5	-636.6	258.2	239.6	18.55	13.918	
5,200.0	5,141.3	5,142.9	5,141.6	20.9	5.1	-80.30	432.5	-639.0	253.9	235.3	18.60	13.651	
5,300.0	5,239.7	5,242.1	5,240.3	21.4	5.2	-81.77	442.5	-642.9	249.9	231.1	18.74	13.333	
5,400.0	5,338.2	5,341.1	5,338.7	21.8	5.3	-83.30	452.2	-646.9	246.3	227.4	18.89	13.040	
5,500.0	5,436.7	5,440.2	5,437.2	22.3	5.3	-84.89	461.8	-651.1	243.1	224.1	19.06	12.758	
5,600.0	5,535.2	5,538.7	5,535.2	22.7	5.4	-86.62	470.8	-655.3	240.6	221.3	19.24	12.501	
5,700.0	5,633.7	5,639.3	5,635.4	23.1	5.5	-88.75	478.8	-658.9	238.2	218.8	19.46	12.243	
5,800.0	5,732.1	5,739.6	5,735.4	23.6	5.6	-91.10	486.3	-661.9	236.1	216.3	19.74	11.961	
5,900.0	5,830.6	5,848.8	5,844.2	24.0	5.7	-94.01	495.4	-662.0	231.6	211.5	20.12	11.508	
6,000.0	5,929.1	5,948.3	5,943.3	24.5	5.8	-96.92	504.3	-660.7	226.1	205.5	20.64	10.957	
6,100.0	6,027.6	6,048.0	6,042.4	24.9	5.9	-99.51	514.7	-660.2	220.8	199.6	21.23	10.403	
6,200.0	6,126.1	6,146.8	6,140.6	25.4	6.0	-102.04	525.6	-660.2	215.9	194.0	21.90	9.859	
6,300.0	6,224.5	6,246.0	6,239.2	25.8	6.1	-104.66	536.4	-660.4	211.6	189.0	22.68	9.331	
6,400.0	6,323.0	6,343.9	6,336.6	26.3	6.2	-107.33	546.7	-660.9	208.3	184.8	23.57	8.840	
6,452.8	6,375.0	6,395.4	6,387.9	26.5	6.2	-108.79	551.8	-661.2	207.1	183.0	24.07	8.604	
6,500.0	6,421.5	6,442.0	6,434.3	26.7	6.3	-110.06	556.3	-661.7	206.2	181.6	24.52	8.407	
6,600.0	6,520.3	6,540.0	6,531.8	27.1	6.4	-112.48	565.3	-662.7	204.6	179.1	25.51	8.023	
6,700.0	6,619.3	6,637.9	6,629.3	27.6	6.5	-114.61	573.4	-663.8	203.6	177.2	26.44	7.699	
6,800.0	6,718.6	6,737.2	6,728.4	28.0	6.6	-116.38	581.1	-665.1	202.6	175.3	27.31	7.418	
6,900.0	6,818.0	6,838.0	6,828.8	28.4	6.7	-117.52	589.4	-667.0	200.8	172.8	28.00	7.169	
7,000.0	6,917.6	6,936.7	6,927.1	28.8	6.8	-118.01	597.8	-669.5	198.3	169.8	28.47	6.963	
7,100.0	7,017.4	7,036.0	7,026.1	29.1	6.9	-117.99	605.6	-672.6	195.7	166.9	28.77	6.802	
7,200.0	7,117.2	7,143.1	7,132.5	29.5	7.0	-117.05	617.1	-676.1	189.8	161.0	28.83	6.583	
7,300.0	7,217.2	7,240.2	7,228.9	29.8	7.1	-115.53	628.3	-679.1	182.4	153.8	28.57	6.385	
7,400.0	7,317.2	7,339.0	7,327.1	30.1	7.2	-113.59	638.4	-682.1	175.6	147.4	28.15	6.238	
7,452.8	7,369.9	7,391.1	7,379.0	30.1	7.3	-149.36	643.5	-683.6	172.0	144.1	27.83	6.180	
7,500.0	7,417.2	7,437.5	7,425.1	30.1	7.3	-148.21	647.9	-684.9	168.8	141.3	27.50	6.139	
7,600.0	7,517.2	7,536.2	7,523.3	30.2	7.4	-145.74	656.7	-687.7	162.8	136.0	26.86	6.062	
7,700.0	7,617.2	7,634.7	7,621.5	30.2	7.5	-143.25	664.8	-690.5	157.9	131.6	26.28	6.007	
7,800.0	7,717.2	7,734.8	7,721.3	30.2	7.6	-140.74	672.4	-693.2	153.6	127.8	25.79	5.954	
7,900.0	7,817.2	7,834.2	7,820.4	30.3	7.8	-138.25	680.1	-695.3	148.9	123.6	25.37	5.871	
8,000.0	7,917.2	7,932.7	7,918.6	30.3	7.9	-135.83	686.9	-697.4	145.3	120.3	25.03	5.806	
8,100.0	8,017.2	8,038.3	8,023.9	30.4	8.0	-133.08	694.3	-699.7	142.1	117.2	24.82	5.725	
8,200.0	8,117.2	8,140.0	8,125.0	30.4	8.1	-130.05	705.2	-698.4	133.9	109.3	24.65	5.434	
8,300.0	8,217.2	8,238.2	8,222.7	30.4	8.2	-126.98	715.1	-697.1	126.6	102.0	24.60	5.148	
8,400.0	8,317.2	8,336.7	8,320.8	30.5	8.3	-123.80	724.1	-696.4	120.7	96.0	24.72	4.884	
8,500.0	8,417.2	8,434.1	8,417.8	30.5	8.4	-120.82	731.6	-695.9	116.2	91.2	25.02	4.644	
8,600.0	8,517.2	8,532.3	8,516.0	30.6	8.5	-119.29	735.2	-695.9	114.4	89.1	25.29	4.524	
8,695.5	8,612.6	8,626.2	8,609.8	30.6	8.6	-118.14	737.7	-696.1	113.3	87.8	25.54	4.437 CC	
8,700.0	8,617.2	8,630.4	8,614.1	30.6	8.6	-118.13	737.7	-696.1	113.3	87.8	25.55	4.436 ES, SF	
8,800.0	8,717.2	8,723.0	8,706.5	30.6	8.6	-119.93	733.3	-696.7	116.2	90.7	25.57	4.546	
8,900.0	8,817.2	8,806.0	8,787.0	30.7	8.6	-127.64	713.7	-696.5	129.6	104.0	25.67	5.049	
9,000.0	8,917.2	8,874.5	8,848.9	30.7	8.7	-136.62	684.6	-696.8	160.5	133.6	26.96	5.954	
9,100.0	9,017.2	8,935.4	8,898.8	30.8	8.8	-143.92	649.8	-699.2	209.6	181.1	28.48	7.360	
9,200.0	9,117.2	9,004.3	8,952.0	30.8	8.8	-149.93	606.3	-703.2	268.3	238.7	29.63	9.058	
9,300.0	9,217.2	9,059.1	8,992.9	30.8	8.9	-153.38	570.0	-707.0	332.0	301.5	30.46	10.901	
9,400.0	9,317.2	9,100.0	9,021.5	30.9	8.9	-155.58	540.9	-709.8	401.6	370.4	31.11	12.906	
9,500.0	9,417.2	9,143.6	9,050.0	30.9	9.0	-157.63	508.1	-712.6	475.8	444.2	31.68	15.019	
9,600.0	9,517.2	9,163.0	9,061.8	31.0	9.0	-158.48	492.7	-713.8	554.7	522.5	32.20	17.225	
9,700.0	9,617.2	9,194.0	9,079.0	31.0	9.1	-159.76	467.0	-715.7	637.1	604.4	32.68	19.494	
9,800.0	9,717.2	9,235.6	9,100.5	31.0	9.1	-161.28	431.5	-718.1	721.9	688.7	33.12	21.796	
9,900.0	9,817.2	9,300.8	9,134.5	31.1	9.2	-163.23	376.0	-721.3	806.3	772.8	33.53	24.048	

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 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	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 #202H - OWB - AWP													Offset Site Error: 0.0 usft		
Survey Program: 100-Standard Keeper 104, 8598-MWD+IFR1+FDIR													Offset Well Error: 3.0 usft		
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,000.0	9,917.2	9,339.7	9,154.5	31.1	9.2	-164.44	342.6	-721.1	891.1	857.2	33.96	26.240			
10,100.0	10,017.2	9,383.0	9,176.2	31.2	9.3	-165.72	305.1	-719.8	976.8	942.4	34.39	28.401			

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	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 #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	
9,300.0	9,217.2	20,380.0	9,987.7	30.8	90.5	89.83	792.1	-256.6	953.8	832.4	121.38	7.858		
9,400.0	9,317.2	20,380.0	9,987.7	30.9	90.5	89.83	792.1	-256.6	861.1	739.3	121.79	7.070		
9,500.0	9,417.2	20,380.0	9,987.7	30.9	90.5	89.83	792.1	-256.6	770.2	647.9	122.32	6.297		
9,600.0	9,517.2	20,380.0	9,987.7	31.0	90.5	89.83	792.1	-256.6	681.8	558.8	123.00	5.544		
9,700.0	9,617.2	20,380.0	9,987.7	31.0	90.5	89.83	792.1	-256.6	597.2	473.3	123.91	4.820		
9,800.0	9,717.2	20,380.0	9,987.7	31.0	90.5	89.83	792.1	-256.6	518.1	393.0	125.12	4.141		
9,900.0	9,817.2	20,380.0	9,987.7	31.1	90.5	89.83	792.1	-256.6	447.4	320.7	126.71	3.531		
10,000.0	9,917.2	20,380.0	9,987.7	31.1	90.5	89.83	792.1	-256.6	389.7	261.2	128.60	3.031		
10,100.0	10,017.2	20,376.4	9,988.0	31.2	90.5	90.43	788.6	-256.7	351.6	221.4	130.24	2.700	Normal Operations	
10,192.0	10,109.2	20,369.8	9,988.5	31.2	90.4	91.55	782.0	-256.8	339.4	208.7	130.75	2.596	Normal Operations, CC, ES, SF	
10,200.0	10,117.2	20,369.2	9,988.5	31.2	90.4	91.65	781.4	-256.9	339.5	208.8	130.73	2.597	Normal Operations	
10,300.0	10,217.2	20,362.0	9,989.0	31.3	90.4	92.87	774.2	-257.1	356.1	226.5	129.62	2.747	Normal Operations	
10,400.0	10,317.2	20,354.7	9,989.5	31.3	90.3	94.08	766.9	-257.3	397.8	270.1	127.69	3.116		
10,500.0	10,417.2	20,347.5	9,990.1	31.3	90.2	95.30	759.7	-257.4	457.8	332.0	125.83	3.638		
10,600.0	10,517.2	20,340.3	9,990.6	31.4	90.2	96.51	752.5	-257.6	529.9	405.5	124.41	4.260		
10,700.0	10,617.2	20,333.0	9,991.1	31.4	90.1	97.72	745.3	-257.8	609.9	486.5	123.40	4.942		
10,800.0	10,717.2	20,325.8	9,991.6	31.5	90.1	98.92	738.1	-258.0	694.9	572.2	122.71	5.663		
10,900.0	10,817.2	20,322.0	9,991.9	31.5	90.0	99.54	734.3	-258.1	783.5	661.2	122.29	6.407		
11,000.0	10,917.2	20,315.3	9,992.4	31.6	90.0	100.64	727.7	-258.3	874.5	752.5	121.97	7.169		
11,100.0	11,017.2	20,311.3	9,992.6	31.6	89.9	101.30	723.6	-258.4	967.2	845.4	121.79	7.941		

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 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	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						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	+N/-S	+E/-W	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)		
8,800.0	8,717.2	19,866.7	9,476.9	30.6	90.7	89.53		793.0	-373.3		907.7	787.7	120.07	7.560		
8,900.0	8,817.2	19,866.7	9,476.9	30.7	90.7	89.54		792.9	-373.3		811.2	690.8	120.34	6.741		
9,000.0	8,917.2	19,866.7	9,476.9	30.7	90.7	89.54		792.9	-373.3		715.6	594.9	120.69	5.929		
9,100.0	9,017.2	19,866.6	9,476.9	30.8	90.7	89.54		792.9	-373.3		621.3	500.1	121.17	5.128		
9,200.0	9,117.2	19,866.6	9,476.9	30.8	90.7	89.55		792.9	-373.3		529.2	407.3	121.85	4.343		
9,300.0	9,217.2	19,866.6	9,476.9	30.8	90.7	89.55		792.9	-373.3		440.5	317.6	122.87	3.585		
9,400.0	9,317.2	19,866.6	9,476.9	30.9	90.7	89.56		792.9	-373.3		357.8	233.3	124.48	2.875	Normal Operations	
9,500.0	9,417.2	19,866.6	9,476.9	30.9	90.7	89.56		792.8	-373.3		286.4	159.5	126.97	2.256	Caution - Monitor Closely	
9,600.0	9,517.2	19,866.6	9,476.9	31.0	90.7	89.57		792.8	-373.3		236.8	106.8	129.93	1.822	Caution - Monitor Closely	
9,680.0	9,597.1	19,866.5	9,476.9	31.0	90.7	89.57		792.8	-373.3		222.8	91.9	130.91	1.702	Caution - Monitor Closely, CC, ES, SF	
9,700.0	9,617.2	19,866.5	9,476.9	31.0	90.7	89.57		792.8	-373.3		223.7	93.0	130.76	1.711	Caution - Monitor Closely	
9,800.0	9,717.2	19,866.5	9,476.9	31.0	90.7	89.58		792.8	-373.3		253.1	124.9	128.21	1.974	Caution - Monitor Closely	
9,900.0	9,817.2	19,866.5	9,476.9	31.1	90.7	89.58		792.8	-373.3		313.2	187.9	125.26	2.500	Normal Operations	
10,000.0	9,917.2	19,866.5	9,476.9	31.1	90.7	89.58		792.8	-373.3		390.0	266.6	123.37	3.161		
10,100.0	10,017.2	19,866.5	9,476.9	31.2	90.7	89.59		792.7	-373.3		475.5	353.2	122.31	3.888		
10,200.0	10,117.2	19,866.4	9,476.9	31.2	90.7	89.59		792.7	-373.3		565.8	444.0	121.72	4.648		
10,300.0	10,217.2	19,866.4	9,476.9	31.3	90.7	89.60		792.7	-373.3		658.9	537.5	121.39	5.427		
10,400.0	10,317.2	19,866.4	9,476.9	31.3	90.7	89.60		792.7	-373.3		753.7	632.5	121.22	6.218		
10,500.0	10,417.2	19,866.4	9,476.9	31.3	90.7	89.61		792.7	-373.3		849.8	728.6	121.14	7.015		
10,600.0	10,517.2	19,866.4	9,476.9	31.4	90.7	89.61		792.6	-373.3		946.6	825.5	121.12	7.816		

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 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	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		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	3.0	3.0	89.43	0.3	30.0	30.0				
100.0	100.0	99.7	99.7	3.1	3.1	89.43	0.3	30.0	30.0	23.4	6.62	4.533	
200.0	200.0	199.7	199.7	3.3	3.3	89.43	0.3	30.0	30.0	22.9	7.07	4.243	
300.0	300.0	299.7	299.7	3.5	3.5	89.43	0.3	30.0	30.0	22.5	7.50	4.001	
400.0	400.0	399.7	399.7	3.7	3.7	89.43	0.3	30.0	30.0	22.1	7.90	3.796	
500.0	500.0	499.7	499.7	3.9	3.9	89.43	0.3	30.0	30.0	21.7	8.29	3.618	
600.0	600.0	599.7	599.7	4.1	4.1	89.43	0.3	30.0	30.0	21.3	8.67	3.462	
700.0	700.0	699.7	699.7	4.3	4.3	89.43	0.3	30.0	30.0	21.0	9.03	3.324	
800.0	800.0	799.7	799.7	4.5	4.5	89.43	0.3	30.0	30.0	20.6	9.37	3.201	
900.0	900.0	899.7	899.7	4.7	4.7	89.43	0.3	30.0	30.0	20.3	9.71	3.090	
1,000.0	1,000.0	999.7	999.7	4.8	4.8	89.43	0.3	30.0	30.0	20.0	10.04	2.988	Normal Operations, CC, ES
1,100.0	1,100.0	1,099.7	1,099.7	5.1	5.0	129.00	0.3	30.0	31.1	20.7	10.40	2.988	Normal Operations, SF
1,200.0	1,199.8	1,199.5	1,199.5	5.4	5.2	135.70	0.3	30.0	34.6	23.8	10.78	3.211	
1,300.0	1,299.5	1,299.2	1,299.2	5.6	5.3	144.08	0.3	30.0	41.3	30.1	11.19	3.689	
1,400.0	1,398.7	1,398.4	1,398.4	5.9	5.5	151.92	0.3	30.0	51.7	40.0	11.65	4.435	
1,500.0	1,497.5	1,497.2	1,497.2	6.3	5.6	158.22	0.3	30.0	65.9	53.8	12.14	5.431	
1,600.0	1,595.9	1,595.3	1,595.3	6.5	5.8	161.58	1.5	31.1	82.5	70.0	12.55	6.575	
1,700.0	1,694.4	1,693.4	1,693.2	6.8	6.1	161.87	5.1	34.4	99.7	86.8	12.96	7.697	
1,800.0	1,792.9	1,791.2	1,790.7	7.1	6.3	160.43	11.1	40.1	117.4	104.1	13.36	8.788	
1,900.0	1,891.4	1,888.5	1,887.4	7.4	6.6	157.97	19.5	47.9	135.8	122.1	13.76	9.869	
2,000.0	1,989.9	1,985.2	1,982.9	7.7	6.8	154.90	30.3	58.0	155.2	141.1	14.16	10.964	
2,100.0	2,088.4	2,081.0	2,077.0	8.1	7.1	151.52	43.2	70.0	176.0	161.4	14.55	12.099	
2,200.0	2,186.8	2,176.9	2,170.8	8.4	7.4	148.07	58.2	84.0	198.2	183.3	14.89	13.307	
2,300.0	2,285.3	2,273.7	2,265.3	8.8	7.6	145.22	73.5	98.3	221.1	205.8	15.29	14.462	
2,400.0	2,383.8	2,370.5	2,359.8	9.1	7.9	142.89	88.8	112.6	244.5	228.8	15.71	15.563	
2,500.0	2,482.3	2,467.3	2,454.3	9.5	8.2	140.97	104.2	126.8	268.1	252.0	16.14	16.611	
2,600.0	2,580.8	2,564.1	2,548.8	9.9	8.5	139.37	119.5	141.1	292.0	275.4	16.59	17.604	
2,700.0	2,679.2	2,660.9	2,643.3	10.3	8.9	138.00	134.8	155.4	316.1	299.1	17.05	18.541	
2,800.0	2,777.7	2,757.7	2,737.8	10.7	9.2	136.83	150.1	169.7	340.4	322.8	17.52	19.423	
2,900.0	2,876.2	2,854.5	2,832.3	11.1	9.6	135.82	165.4	184.0	364.7	346.7	18.01	20.252	
3,000.0	2,974.7	2,951.3	2,926.8	11.5	9.9	134.93	180.8	198.3	389.2	370.7	18.50	21.031	
3,100.0	3,073.2	3,048.1	3,021.3	11.9	10.3	134.14	196.1	212.6	413.7	394.7	19.01	21.763	
3,200.0	3,171.6	3,144.9	3,115.8	12.3	10.7	133.45	211.4	226.9	438.3	418.8	19.52	22.450	
3,300.0	3,270.1	3,241.7	3,210.3	12.7	11.1	132.82	226.7	241.2	462.9	442.9	20.04	23.095	
3,400.0	3,368.6	3,338.5	3,304.8	13.1	11.4	132.26	242.1	255.4	487.6	467.0	20.57	23.701	
3,500.0	3,467.1	3,435.3	3,399.3	13.6	11.8	131.76	257.4	269.7	512.4	491.2	21.11	24.270	
3,600.0	3,565.6	3,532.1	3,493.8	14.0	12.2	131.30	272.7	284.0	537.1	515.5	21.65	24.806	
3,700.0	3,664.0	3,628.9	3,588.3	14.4	12.6	130.88	288.0	298.3	561.9	539.7	22.20	25.310	
3,800.0	3,762.5	3,725.7	3,682.8	14.8	13.1	130.50	303.3	312.6	586.7	564.0	22.75	25.785	
3,900.0	3,861.0	3,822.5	3,777.3	15.3	13.5	130.14	318.7	326.9	611.6	588.3	23.31	26.233	
4,000.0	3,959.5	3,919.3	3,871.8	15.7	13.9	129.82	334.0	341.2	636.4	612.6	23.88	26.655	
4,100.0	4,058.0	4,016.1	3,966.3	16.1	14.3	129.52	349.3	355.5	661.3	636.9	24.44	27.054	
4,200.0	4,156.4	4,112.9	4,060.8	16.6	14.7	129.24	364.6	369.8	686.2	661.2	25.02	27.431	
4,300.0	4,254.9	4,209.7	4,155.3	17.0	15.1	128.98	380.0	384.0	711.1	685.5	25.59	27.788	
4,400.0	4,353.4	4,306.5	4,249.9	17.4	15.6	128.74	395.3	398.3	736.1	709.9	26.17	28.125	
4,500.0	4,451.9	4,403.3	4,344.4	17.9	16.0	128.51	410.6	412.6	761.0	734.2	26.75	28.445	
4,600.0	4,550.4	4,500.1	4,438.9	18.3	16.4	128.30	425.9	426.9	785.9	758.6	27.34	28.749	
4,700.0	4,648.9	4,596.9	4,533.4	18.7	16.9	128.10	441.3	441.2	810.9	783.0	27.93	29.037	
4,800.0	4,747.3	4,693.7	4,627.9	19.2	17.3	127.92	456.6	455.5	835.9	807.3	28.52	29.311	
4,900.0	4,845.8	4,790.5	4,722.4	19.6	17.7	127.74	471.9	469.8	860.8	831.7	29.11	29.571	
5,000.0	4,944.3	4,887.3	4,816.9	20.0	18.2	127.57	487.2	484.1	885.8	856.1	29.71	29.819	
5,100.0	5,042.8	4,984.1	4,911.4	20.5	18.6	127.42	502.5	498.3	910.8	880.5	30.30	30.055	

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 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	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		Offset Wellbore Centre		Distance		Rule Assigned:					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,200.0	5,141.3	5,080.9	5,005.9	20.9	19.0	127.27	517.9	512.6	935.8	904.9	30.90	30.281		
5,300.0	5,239.7	5,177.7	5,100.4	21.4	19.5	127.13	533.2	526.9	960.8	929.3	31.51	30.495		
5,400.0	5,338.2	5,274.5	5,194.9	21.8	19.9	126.99	548.5	541.2	985.8	953.7	32.11	30.701		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	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)			
0.0	0.0	0.0	0.0	3.0	3.0	146.13	-44.7	30.0	53.8				
100.0	100.0	99.7	99.7	3.1	3.1	146.13	-44.7	30.0	53.8	47.2	6.62	8.134	
200.0	200.0	199.7	199.7	3.3	3.3	146.13	-44.7	30.0	53.8	46.8	7.07	7.613	
300.0	300.0	299.7	299.7	3.5	3.5	146.13	-44.7	30.0	53.8	46.3	7.50	7.180	
400.0	400.0	399.7	399.7	3.7	3.7	146.13	-44.7	30.0	53.8	45.9	7.90	6.811	
500.0	500.0	499.7	499.7	3.9	3.9	146.13	-44.7	30.0	53.8	45.5	8.29	6.492	
600.0	600.0	599.7	599.7	4.1	4.1	146.13	-44.7	30.0	53.8	45.2	8.67	6.213	
700.0	700.0	699.7	699.7	4.3	4.3	146.13	-44.7	30.0	53.8	44.8	9.03	5.965	
800.0	800.0	799.7	799.7	4.5	4.5	146.13	-44.7	30.0	53.8	44.5	9.37	5.744	
900.0	900.0	899.7	899.7	4.7	4.7	146.13	-44.7	30.0	53.8	44.1	9.71	5.544	
1,000.0	1,000.0	999.7	999.7	4.8	4.8	146.13	-44.7	30.0	53.8	43.8	10.04	5.362 CC, ES	
1,100.0	1,100.0	1,099.7	1,099.7	5.1	5.0	-176.96	-44.7	30.0	55.6	45.1	10.46	5.314	
1,200.0	1,199.8	1,199.5	1,199.5	5.4	5.2	-177.22	-44.7	30.0	60.8	49.9	10.88	5.589	
1,300.0	1,299.5	1,299.2	1,299.2	5.6	5.3	-177.56	-44.7	30.0	69.5	58.2	11.31	6.145	
1,400.0	1,398.7	1,398.4	1,398.4	5.9	5.5	-177.92	-44.7	30.0	81.7	69.9	11.76	6.946	
1,500.0	1,497.5	1,497.2	1,497.2	6.3	5.6	-178.24	-44.7	30.0	97.3	85.1	12.23	7.960	
1,600.0	1,595.9	1,598.0	1,598.0	6.5	5.8	-179.19	-43.1	30.5	113.7	101.0	12.66	8.977	
1,700.0	1,694.4	1,699.4	1,699.2	6.8	6.1	178.79	-38.1	32.0	128.1	114.9	13.11	9.765	
1,800.0	1,792.9	1,801.0	1,800.5	7.1	6.3	175.96	-29.6	34.6	140.6	127.1	13.57	10.361	
1,900.0	1,891.4	1,902.6	1,901.3	7.4	6.6	172.42	-17.7	38.3	151.8	137.8	14.03	10.817	
2,000.0	1,989.9	2,004.0	2,001.4	7.7	6.9	168.25	-2.4	42.9	161.9	147.4	14.48	11.185	
2,100.0	2,088.4	2,104.8	2,100.3	8.1	7.2	163.49	16.1	48.6	171.5	156.7	14.89	11.524	
2,200.0	2,186.8	2,204.0	2,197.0	8.4	7.4	158.45	37.1	55.0	181.4	166.2	15.20	11.932	
2,300.0	2,285.3	2,302.2	2,292.8	8.8	7.7	153.88	58.3	61.5	192.5	176.9	15.56	12.371	
2,400.0	2,383.8	2,400.5	2,388.5	9.1	8.0	149.82	79.4	67.9	204.6	188.7	15.90	12.870	
2,500.0	2,482.3	2,498.7	2,484.2	9.5	8.3	146.22	100.5	74.4	217.7	201.4	16.24	13.408	
2,600.0	2,580.8	2,597.0	2,580.0	9.9	8.7	143.04	121.7	80.9	231.5	214.9	16.57	13.970	
2,700.0	2,679.2	2,695.2	2,675.7	10.3	9.0	140.21	142.8	87.3	246.0	229.1	16.91	14.546	
2,800.0	2,777.7	2,793.5	2,771.4	10.7	9.4	137.70	163.9	93.8	261.0	243.7	17.25	15.125	
2,900.0	2,876.2	2,891.7	2,867.2	11.1	9.7	135.47	185.1	100.3	276.4	258.8	17.60	15.700	
3,000.0	2,974.7	2,990.0	2,962.9	11.5	10.1	133.47	206.2	106.7	292.2	274.2	17.96	16.266	
3,100.0	3,073.2	3,088.2	3,058.6	11.9	10.5	131.68	227.4	113.2	308.3	290.0	18.33	16.819	
3,200.0	3,171.6	3,186.5	3,154.4	12.3	10.9	130.06	248.5	119.6	324.7	306.0	18.71	17.357	
3,300.0	3,270.1	3,284.7	3,250.1	12.7	11.3	128.60	269.6	126.1	341.3	322.2	19.09	17.877	
3,400.0	3,368.6	3,383.0	3,345.8	13.1	11.7	127.28	290.8	132.6	358.1	338.6	19.48	18.379	
3,500.0	3,467.1	3,481.3	3,441.6	13.6	12.1	126.07	311.9	139.0	375.1	355.2	19.88	18.862	
3,600.0	3,565.6	3,579.5	3,537.3	14.0	12.5	124.97	333.0	145.5	392.2	371.9	20.29	19.326	
3,700.0	3,664.0	3,677.8	3,633.0	14.4	12.9	123.96	354.2	151.9	409.5	388.7	20.71	19.770	
3,800.0	3,762.5	3,776.0	3,728.8	14.8	13.3	123.03	375.3	158.4	426.8	405.7	21.13	20.195	
3,900.0	3,861.0	3,874.3	3,824.5	15.3	13.8	122.17	396.4	164.9	444.3	422.7	21.57	20.602	
4,000.0	3,959.5	3,972.5	3,920.2	15.7	14.2	121.38	417.6	171.3	461.8	439.8	22.00	20.990	
4,100.0	4,058.0	4,070.8	4,016.0	16.1	14.6	120.65	438.7	177.8	479.5	457.0	22.45	21.362	
4,200.0	4,156.4	4,169.0	4,111.7	16.6	15.1	119.97	459.9	184.3	497.2	474.3	22.90	21.716	
4,300.0	4,254.9	4,267.3	4,207.4	17.0	15.5	119.33	481.0	190.7	515.0	491.6	23.35	22.055	
4,400.0	4,353.4	4,365.5	4,303.2	17.4	15.9	118.74	502.1	197.2	532.8	509.0	23.81	22.378	
4,500.0	4,451.9	4,463.8	4,398.9	17.9	16.4	118.18	523.3	203.6	550.7	526.4	24.27	22.687	
4,600.0	4,550.4	4,562.0	4,494.7	18.3	16.8	117.67	544.4	210.1	568.6	543.9	24.74	22.982	
4,700.0	4,648.9	4,660.3	4,590.4	18.7	17.3	117.18	565.5	216.6	586.6	561.4	25.21	23.264	
4,800.0	4,747.3	4,758.5	4,686.1	19.2	17.7	116.72	586.7	223.0	604.6	578.9	25.69	23.534	
4,900.0	4,845.8	4,856.8	4,781.9	19.6	18.1	116.29	607.8	229.5	622.6	596.5	26.17	23.791	
5,000.0	4,944.3	4,955.0	4,877.6	20.0	18.6	115.88	628.9	236.0	640.7	614.1	26.65	24.038	
5,100.0	5,042.8	5,053.3	4,973.3	20.5	19.0	115.49	650.1	242.4	658.8	631.7	27.13	24.280	

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 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	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)			
5,200.0	5,141.3	5,155.7	5,073.2	20.9	19.5	115.15	671.7	249.0	676.7	649.1	27.64	24.487	
5,300.0	5,239.7	5,260.1	5,175.5	21.4	20.0	114.95	691.9	255.2	693.9	665.7	28.15	24.645	
5,400.0	5,338.2	5,364.9	5,278.4	21.8	20.4	114.90	710.5	260.9	710.1	681.5	28.66	24.776	
5,500.0	5,436.7	5,469.9	5,382.0	22.3	20.9	114.99	727.3	266.0	725.5	696.4	29.16	24.880	
5,600.0	5,535.2	5,575.2	5,486.1	22.7	21.3	115.21	742.3	270.6	740.1	710.4	29.65	24.959	
5,700.0	5,633.7	5,680.6	5,590.6	23.1	21.8	115.55	755.6	274.7	753.8	723.7	30.14	25.014	
5,800.0	5,732.1	5,786.1	5,695.4	23.6	22.2	116.01	766.9	278.1	766.7	736.1	30.61	25.047	
5,900.0	5,830.6	5,891.6	5,800.4	24.0	22.6	116.57	776.4	281.1	778.8	747.7	31.08	25.060	
6,000.0	5,929.1	5,997.0	5,905.5	24.5	23.0	117.25	784.1	283.4	790.2	758.7	31.54	25.053	
6,100.0	6,027.6	6,102.3	6,010.6	24.9	23.4	118.03	789.9	285.2	800.9	768.9	32.00	25.027	
6,200.0	6,126.1	6,207.3	6,115.5	25.4	23.7	118.91	793.9	286.4	810.9	778.5	32.46	24.983	
6,300.0	6,224.5	6,312.1	6,220.3	25.8	24.0	119.89	796.0	287.0	820.4	787.5	32.92	24.926	
6,400.0	6,323.0	6,414.5	6,322.7	26.3	24.1	120.93	796.4	287.2	829.5	796.1	33.34	24.879	
6,452.8	6,375.0	6,466.5	6,374.7	26.5	24.1	121.47	796.4	287.2	834.3	800.7	33.56	24.858	
6,500.0	6,421.5	6,513.0	6,421.2	26.7	24.1	121.96	796.4	287.2	838.5	804.8	33.76	24.837	
6,600.0	6,520.3	6,611.8	6,520.0	27.1	24.2	122.93	796.4	287.2	847.0	812.8	34.21	24.763	
6,700.0	6,619.3	6,710.8	6,619.0	27.6	24.2	123.77	796.4	287.2	854.8	820.1	34.65	24.671	
6,800.0	6,718.6	6,810.1	6,718.3	28.0	24.3	124.50	796.4	287.2	861.7	826.6	35.08	24.563	
6,900.0	6,818.0	6,909.5	6,817.7	28.4	24.3	125.12	796.4	287.2	867.7	832.2	35.50	24.443	
7,000.0	6,917.6	7,009.1	6,917.3	28.8	24.4	125.63	796.4	287.2	872.8	836.9	35.90	24.311	
7,100.0	7,017.4	7,108.9	7,017.1	29.1	24.4	126.04	796.4	287.2	876.9	840.6	36.28	24.172	
7,200.0	7,117.2	7,208.7	7,116.9	29.5	24.5	126.34	796.4	287.2	880.0	843.4	36.63	24.026	
7,300.0	7,217.2	7,308.7	7,216.9	29.8	24.5	126.54	796.4	287.2	882.1	845.2	36.94	23.879	
7,400.0	7,317.2	7,408.7	7,316.9	30.1	24.6	126.64	796.4	287.2	883.2	846.0	37.21	23.735	
7,452.8	7,369.9	7,461.4	7,369.6	30.1	24.6	89.66	796.4	287.2	883.3	846.0	37.29	23.687	
7,500.0	7,417.2	7,508.7	7,416.9	30.1	24.6	89.66	796.4	287.2	883.3	846.0	37.34	23.659	
7,600.0	7,517.2	7,608.7	7,516.9	30.2	24.7	89.66	796.4	287.2	883.3	845.9	37.45	23.586	
7,700.0	7,617.2	7,708.7	7,616.9	30.2	24.7	89.66	796.4	287.2	883.3	845.8	37.57	23.514	
7,800.0	7,717.2	7,808.7	7,716.9	30.2	24.8	89.66	796.4	287.2	883.3	845.6	37.68	23.441	
7,900.0	7,817.2	7,908.7	7,816.9	30.3	24.8	89.66	796.4	287.2	883.3	845.5	37.80	23.369	
8,000.0	7,917.2	8,008.7	7,916.9	30.3	24.9	89.66	796.4	287.2	883.3	845.4	37.92	23.297	
8,100.0	8,017.2	8,108.7	8,016.9	30.4	24.9	89.66	796.4	287.2	883.3	845.3	38.03	23.225	
8,200.0	8,117.2	8,208.7	8,116.9	30.4	25.0	89.66	796.4	287.2	883.3	845.2	38.15	23.153	
8,300.0	8,217.2	8,308.7	8,216.9	30.4	25.0	89.66	796.4	287.2	883.3	845.1	38.27	23.082	
8,400.0	8,317.2	8,408.7	8,316.9	30.5	25.1	89.66	796.4	287.2	883.3	844.9	38.39	23.011	
8,500.0	8,417.2	8,508.7	8,416.9	30.5	25.1	89.66	796.4	287.2	883.3	844.8	38.51	22.940	
8,600.0	8,517.2	8,608.7	8,516.9	30.6	25.2	89.66	796.4	287.2	883.3	844.7	38.62	22.870	
8,700.0	8,617.2	8,708.7	8,616.9	30.6	25.2	89.66	796.4	287.2	883.3	844.6	38.74	22.799	
8,800.0	8,717.2	8,808.7	8,716.9	30.6	25.3	89.66	796.4	287.2	883.3	844.5	38.86	22.729	
8,900.0	8,817.2	8,908.7	8,816.9	30.7	25.3	89.66	796.4	287.2	883.3	844.3	38.98	22.659	
9,000.0	8,917.2	9,008.7	8,916.9	30.7	25.4	89.66	796.4	287.2	883.3	844.2	39.10	22.590	
9,100.0	9,017.2	9,108.7	9,016.9	30.8	25.4	89.66	796.4	287.2	883.3	844.1	39.22	22.521	
9,200.0	9,117.2	9,208.7	9,116.9	30.8	25.5	89.66	796.4	287.2	883.3	844.0	39.34	22.452	
9,300.0	9,217.2	9,308.7	9,216.9	30.8	25.5	89.66	796.4	287.2	883.3	843.9	39.46	22.383	
9,400.0	9,317.2	9,408.7	9,316.9	30.9	25.6	89.66	796.4	287.2	883.3	843.7	39.59	22.314	
9,500.0	9,417.2	9,508.7	9,416.9	30.9	25.6	89.66	796.4	287.2	883.3	843.6	39.71	22.246	
9,600.0	9,517.2	9,608.7	9,516.9	31.0	25.7	89.66	796.4	287.2	883.3	843.5	39.83	22.178	
9,700.0	9,617.2	9,708.7	9,616.9	31.0	25.7	89.66	796.4	287.2	883.3	843.4	39.95	22.110	
9,800.0	9,717.2	9,808.7	9,716.9	31.0	25.8	89.66	796.4	287.2	883.3	843.3	40.07	22.043	
9,900.0	9,817.2	9,908.7	9,816.9	31.1	25.8	89.66	796.4	287.2	883.3	843.1	40.20	21.975	
10,000.0	9,917.2	10,008.7	9,916.9	31.1	25.9	89.66	796.4	287.2	883.3	843.0	40.32	21.908	
10,100.0	10,017.2	10,108.7	10,016.9	31.2	26.0	89.66	796.4	287.2	883.3	842.9	40.44	21.842	

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 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	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: 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)			
10,200.0	10,117.2	10,208.7	10,116.9	31.2	26.0	89.66	796.4	287.2	883.3	842.8	40.57	21.775	
10,300.0	10,217.2	10,308.7	10,216.9	31.3	26.1	89.66	796.4	287.2	883.3	842.6	40.69	21.709	
10,400.0	10,317.2	10,408.7	10,316.9	31.3	26.1	89.66	796.4	287.2	883.3	842.5	40.81	21.643	
10,500.0	10,417.2	10,508.7	10,416.9	31.3	26.2	89.66	796.4	287.2	883.3	842.4	40.94	21.578	
10,600.0	10,517.2	10,608.7	10,516.9	31.4	26.2	89.66	796.4	287.2	883.3	842.3	41.06	21.512	
10,700.0	10,617.2	10,708.7	10,616.9	31.4	26.3	89.66	796.4	287.2	883.3	842.1	41.19	21.447	
10,800.0	10,717.2	10,808.7	10,716.9	31.5	26.3	89.66	796.4	287.2	883.3	842.0	41.31	21.382	
10,900.0	10,817.2	10,908.7	10,816.9	31.5	26.4	89.66	796.4	287.2	883.3	841.9	41.44	21.317	
11,000.0	10,917.2	11,008.7	10,916.9	31.6	26.4	89.66	796.4	287.2	883.3	841.8	41.56	21.253	
11,100.0	11,017.2	11,108.7	11,016.9	31.6	26.5	89.66	796.4	287.2	883.3	841.6	41.69	21.189	
11,200.0	11,117.2	11,208.7	11,116.9	31.6	26.5	89.66	796.4	287.2	883.3	841.5	41.81	21.125	
11,300.0	11,217.2	11,308.7	11,216.9	31.7	26.6	89.66	796.4	287.2	883.3	841.4	41.94	21.062	
11,400.0	11,317.2	11,408.7	11,316.9	31.7	26.7	89.66	796.4	287.2	883.3	841.3	42.07	20.998	
11,500.0	11,417.2	11,508.7	11,416.9	31.8	26.7	89.66	796.4	287.2	883.3	841.1	42.19	20.935	
11,600.0	11,517.2	11,608.7	11,516.9	31.8	26.8	89.66	796.4	287.2	883.3	841.0	42.32	20.872	
11,700.0	11,617.2	11,708.7	11,616.9	31.9	26.8	89.66	796.4	287.2	883.3	840.9	42.45	20.810	
11,800.0	11,717.2	11,808.7	11,716.9	31.9	26.9	89.66	796.4	287.2	883.3	840.8	42.57	20.748	
11,900.0	11,817.2	11,908.7	11,816.9	31.9	26.9	89.66	796.4	287.2	883.3	840.6	42.70	20.686	
12,000.0	11,917.2	12,008.7	11,916.9	32.0	27.0	89.66	796.4	287.2	883.3	840.5	42.83	20.624	
12,005.4	11,922.5	12,014.0	11,922.2	32.0	27.0	89.66	796.4	287.2	883.3	840.5	42.84	20.621	
12,025.0	11,942.1	12,029.6	11,937.8	32.0	27.0	-89.99	796.2	287.2	883.4	840.5	42.83	20.626	
12,050.0	11,967.1	12,050.0	11,958.2	31.9	26.9	-89.99	795.1	287.3	883.6	840.8	42.80	20.642	
12,075.0	11,991.9	12,069.3	11,977.3	31.8	26.9	-89.98	793.3	287.6	883.9	841.1	42.77	20.666	
12,100.0	12,016.5	12,089.1	11,997.0	31.8	26.8	-89.97	790.6	288.0	884.4	841.6	42.73	20.696	
12,125.0	12,040.9	12,108.9	12,016.5	31.7	26.7	-89.96	787.2	288.5	885.0	842.3	42.69	20.732	
12,150.0	12,065.0	12,128.8	12,035.9	31.6	26.7	-89.94	782.9	289.2	885.8	843.1	42.64	20.773	
12,175.0	12,088.6	12,150.0	12,056.4	31.5	26.6	-89.93	777.5	290.0	886.7	844.1	42.59	20.818	
12,200.0	12,111.8	12,168.7	12,074.2	31.4	26.5	-89.90	771.9	290.8	887.7	845.2	42.53	20.873	
12,225.0	12,134.5	12,188.7	12,093.0	31.3	26.5	-89.88	765.3	291.8	888.9	846.5	42.47	20.930	
12,250.0	12,156.6	12,208.7	12,111.6	31.2	26.4	-89.85	757.8	292.9	890.3	847.9	42.41	20.993	
12,275.0	12,178.1	12,228.8	12,129.9	31.1	26.3	-89.82	749.6	294.2	891.7	849.4	42.34	21.059	
12,300.0	12,198.8	12,250.0	12,148.7	31.1	26.2	-89.80	740.0	295.6	893.3	851.1	42.28	21.128	
12,325.0	12,218.8	12,269.2	12,165.5	31.0	26.2	-89.76	730.7	297.0	895.1	852.9	42.21	21.204	
12,350.0	12,238.0	12,289.5	12,182.7	30.9	26.1	-89.72	720.1	298.5	897.0	854.8	42.15	21.281	
12,375.0	12,256.3	12,309.9	12,199.6	30.8	26.0	-89.68	708.8	300.2	899.0	856.9	42.08	21.362	
12,400.0	12,273.7	12,330.4	12,216.0	30.7	25.9	-89.64	696.7	302.1	901.1	859.1	42.02	21.445	
12,425.0	12,290.2	12,350.0	12,231.2	30.6	25.9	-89.58	684.4	303.9	903.3	861.4	41.95	21.532	
12,450.0	12,305.6	12,371.6	12,247.4	30.6	25.8	-89.55	670.2	306.0	905.7	863.8	41.90	21.616	
12,475.0	12,320.0	12,392.4	12,262.3	30.5	25.7	-89.51	655.9	308.1	908.1	866.3	41.84	21.704	
12,500.0	12,333.3	12,413.4	12,276.7	30.5	25.7	-89.46	640.9	310.4	910.7	868.9	41.79	21.793	
12,525.0	12,345.5	12,434.4	12,290.5	30.4	25.6	-89.41	625.1	312.8	913.4	871.7	41.74	21.882	
12,550.0	12,356.5	12,455.7	12,303.7	30.4	25.6	-89.36	608.6	315.2	916.2	874.5	41.70	21.970	
12,575.0	12,366.3	12,477.0	12,316.1	30.3	25.5	-89.31	591.5	317.8	919.1	877.4	41.67	22.059	
12,600.0	12,374.9	12,498.6	12,327.9	30.3	25.5	-89.26	573.6	320.4	922.1	880.4	41.64	22.146	
12,625.0	12,382.3	12,520.3	12,339.0	30.3	25.4	-89.22	555.1	323.2	925.1	883.5	41.61	22.232	
12,650.0	12,388.4	12,542.3	12,349.3	30.2	25.4	-89.17	536.0	326.1	928.3	886.7	41.60	22.315	
12,675.0	12,393.2	12,564.4	12,358.7	30.2	25.3	-89.12	516.2	329.0	931.5	889.9	41.59	22.396	
12,700.0	12,396.8	12,586.8	12,367.4	30.2	25.3	-89.08	495.8	332.1	934.7	893.2	41.59	22.475	
12,725.0	12,399.0	12,609.4	12,375.1	30.2	25.3	-89.03	474.8	335.2	938.1	896.5	41.60	22.549	
12,750.0	12,400.0	12,632.2	12,381.8	30.2	25.2	-88.99	453.2	338.4	941.5	899.8	41.62	22.620	
12,755.4	12,400.0	12,637.2	12,383.2	30.2	25.2	-88.98	448.5	339.1	942.2	900.6	41.63	22.635	
12,800.0	12,400.0	12,679.2	12,392.4	30.2	25.2	-89.56	407.9	345.2	948.4	906.7	41.69	22.747	

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 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,900.0	12,400.0	12,783.9	12,400.0	30.3	25.2	-90.02	304.8	360.5	962.5	920.5	42.00	22.918	
13,000.0	12,400.0	12,934.0	12,400.0	30.4	25.3	-90.02	155.7	377.8	973.4	930.6	42.82	22.732	
13,100.0	12,400.0	13,085.5	12,400.0	30.5	25.4	-90.02	4.5	387.3	979.0	935.2	43.82	22.344	
13,200.0	12,400.0	13,215.0	12,400.0	30.6	25.5	-90.02	-124.9	389.4	979.9	935.2	44.68	21.933	
13,300.0	12,400.0	13,315.0	12,400.0	30.7	25.5	-90.02	-224.9	390.0	979.9	934.6	45.30	21.629	
13,400.0	12,400.0	13,415.0	12,400.0	30.9	25.6	-90.02	-324.9	390.6	979.9	933.9	46.00	21.301	
13,500.0	12,400.0	13,515.0	12,400.0	31.0	25.7	-90.02	-424.9	391.3	979.9	933.1	46.77	20.952	
13,600.0	12,400.0	13,615.0	12,400.0	31.2	25.9	-90.02	-524.9	391.9	979.9	932.3	47.60	20.587	
13,700.0	12,400.0	13,715.0	12,400.0	31.4	26.0	-90.02	-624.9	392.5	979.9	931.4	48.49	20.209	
13,800.0	12,400.0	13,815.0	12,400.0	31.6	26.2	-90.02	-724.9	393.1	979.9	930.5	49.44	19.821	
13,900.0	12,400.0	13,915.0	12,400.0	31.8	26.4	-90.02	-824.9	393.7	979.9	929.5	50.44	19.427	
14,000.0	12,400.0	14,015.0	12,400.0	32.1	26.6	-90.02	-924.9	394.3	979.9	928.4	51.50	19.029	
14,100.0	12,400.0	14,115.0	12,400.0	32.4	26.9	-90.02	-1,024.9	395.0	979.9	927.3	52.60	18.630	
14,200.0	12,400.0	14,215.0	12,400.0	32.7	27.3	-90.02	-1,124.9	395.6	979.9	926.2	53.75	18.232	
14,300.0	12,400.0	14,315.0	12,400.0	33.0	27.6	-90.02	-1,224.9	396.2	979.9	925.0	54.94	17.837	
14,400.0	12,400.0	14,415.0	12,400.0	33.4	28.1	-90.02	-1,324.9	396.8	979.9	923.8	56.17	17.447	
14,500.0	12,400.0	14,515.0	12,400.0	33.8	28.5	-90.02	-1,424.9	397.4	979.9	922.5	57.43	17.062	
14,600.0	12,400.0	14,615.0	12,400.0	34.2	29.0	-90.02	-1,524.8	398.1	979.9	921.2	58.73	16.684	
14,700.0	12,400.0	14,715.0	12,400.0	34.6	29.6	-90.02	-1,624.8	398.7	979.9	919.9	60.07	16.314	
14,800.0	12,400.0	14,815.0	12,400.0	35.1	30.2	-90.02	-1,724.8	399.3	979.9	918.5	61.43	15.952	
14,900.0	12,400.0	14,915.0	12,400.0	35.6	30.8	-90.02	-1,824.8	399.9	979.9	917.1	62.82	15.599	
15,000.0	12,400.0	15,015.0	12,400.0	36.1	31.5	-90.02	-1,924.8	400.5	979.9	915.7	64.24	15.254	
15,100.0	12,400.0	15,115.0	12,400.0	36.7	32.2	-90.02	-2,024.8	401.1	979.9	914.2	65.68	14.919	
15,200.0	12,400.0	15,215.0	12,400.0	37.2	32.9	-90.02	-2,124.8	401.8	979.9	912.8	67.15	14.594	
15,300.0	12,400.0	15,315.0	12,400.0	37.8	33.6	-90.02	-2,224.8	402.4	979.9	911.3	68.63	14.277	
15,400.0	12,400.0	15,415.0	12,400.0	38.4	34.3	-90.02	-2,324.8	403.0	979.9	909.8	70.14	13.971	
15,500.0	12,400.0	15,515.0	12,400.0	39.1	35.1	-90.02	-2,424.8	403.6	979.9	908.3	71.67	13.673	
15,600.0	12,400.0	15,615.0	12,400.0	39.7	35.9	-90.02	-2,524.8	404.2	979.9	906.7	73.21	13.385	
15,700.0	12,400.0	15,715.0	12,400.0	40.4	36.7	-90.02	-2,624.8	404.8	979.9	905.2	74.77	13.105	
15,800.0	12,400.0	15,815.0	12,400.0	41.0	37.5	-90.02	-2,724.8	405.5	979.9	903.6	76.35	12.835	
15,900.0	12,400.0	15,915.0	12,400.0	41.7	38.3	-90.02	-2,824.8	406.1	979.9	902.0	77.94	12.573	
16,000.0	12,400.0	16,015.0	12,400.0	42.4	39.1	-90.02	-2,924.8	406.7	979.9	900.4	79.55	12.319	
16,100.0	12,400.0	16,115.0	12,400.0	43.2	39.9	-90.02	-3,024.8	407.3	979.9	898.8	81.16	12.074	
16,200.0	12,400.0	16,215.0	12,400.0	43.9	40.7	-90.02	-3,124.8	407.9	979.9	897.1	82.79	11.836	
16,300.0	12,400.0	16,315.0	12,400.0	44.7	41.6	-90.02	-3,224.8	408.6	979.9	895.5	84.43	11.606	
16,400.0	12,400.0	16,415.0	12,400.0	45.4	42.4	-90.02	-3,324.8	409.2	979.9	893.9	86.09	11.383	
16,500.0	12,400.0	16,515.0	12,400.0	46.2	43.3	-90.02	-3,424.8	409.8	979.9	892.2	87.75	11.168	
16,600.0	12,400.0	16,615.0	12,400.0	47.0	44.1	-90.02	-3,524.8	410.4	979.9	890.5	89.42	10.959	
16,700.0	12,400.0	16,715.0	12,400.0	47.7	45.0	-90.02	-3,624.8	411.0	979.9	888.8	91.10	10.757	
16,800.0	12,400.0	16,815.0	12,400.0	48.5	45.9	-90.02	-3,724.8	411.6	979.9	887.2	92.79	10.561	
16,900.0	12,400.0	16,915.0	12,400.0	49.3	46.7	-90.02	-3,824.8	412.3	979.9	885.5	94.49	10.371	
17,000.0	12,400.0	17,015.0	12,400.0	50.2	47.6	-90.02	-3,924.8	412.9	980.0	883.8	96.19	10.188	
17,100.0	12,400.0	17,115.0	12,400.0	51.0	48.5	-90.02	-4,024.8	413.5	980.0	882.0	97.90	10.009	
17,200.0	12,400.0	17,215.0	12,400.0	51.8	49.4	-90.02	-4,124.8	414.1	980.0	880.3	99.62	9.837	
17,300.0	12,400.0	17,315.0	12,400.0	52.6	50.3	-90.02	-4,224.8	414.7	980.0	878.6	101.35	9.669	
17,400.0	12,400.0	17,415.0	12,400.0	53.5	51.2	-90.02	-4,324.8	415.3	980.0	876.9	103.08	9.507	
17,500.0	12,400.0	17,515.0	12,400.0	54.3	52.0	-90.02	-4,424.8	416.0	980.0	875.1	104.82	9.349	
17,600.0	12,400.0	17,615.0	12,400.0	55.1	52.9	-90.02	-4,524.8	416.6	980.0	873.4	106.56	9.196	
17,700.0	12,400.0	17,715.0	12,400.0	56.0	53.8	-90.02	-4,624.8	417.2	980.0	871.6	108.31	9.048	
17,800.0	12,400.0	17,815.0	12,400.0	56.8	54.7	-90.02	-4,724.8	417.8	980.0	869.9	110.06	8.903	
17,900.0	12,400.0	17,915.0	12,400.0	57.7	55.6	-90.02	-4,824.8	418.4	980.0	868.1	111.82	8.763	
18,000.0	12,400.0	18,015.0	12,400.0	58.6	56.5	-90.02	-4,924.8	419.1	980.0	866.4	113.59	8.627	

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 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	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)			
18,100.0	12,400.0	18,115.0	12,400.0	59.4	57.5	-90.02	-5,024.8	419.7	980.0	864.6	115.36	8.495	
18,200.0	12,400.0	18,215.0	12,400.0	60.3	58.4	-90.02	-5,124.8	420.3	980.0	862.8	117.13	8.367	
18,300.0	12,400.0	18,315.0	12,400.0	61.2	59.3	-90.02	-5,224.8	420.9	980.0	861.1	118.90	8.242	
18,400.0	12,400.0	18,415.0	12,400.0	62.0	60.2	-90.02	-5,324.8	421.5	980.0	859.3	120.68	8.120	
18,500.0	12,400.0	18,515.0	12,400.0	62.9	61.1	-90.02	-5,424.8	422.1	980.0	857.5	122.47	8.002	
18,600.0	12,400.0	18,615.0	12,400.0	63.8	62.0	-90.02	-5,524.8	422.8	980.0	855.7	124.25	7.887	
18,700.0	12,400.0	18,715.0	12,400.0	64.7	62.9	-90.02	-5,624.8	423.4	980.0	853.9	126.04	7.775	
18,800.0	12,400.0	18,815.0	12,400.0	65.6	63.9	-90.02	-5,724.8	424.0	980.0	852.1	127.84	7.666	
18,900.0	12,400.0	18,915.0	12,400.0	66.5	64.8	-90.02	-5,824.8	424.6	980.0	850.3	129.63	7.559	
19,000.0	12,400.0	19,015.0	12,400.0	67.3	65.7	-90.02	-5,924.8	425.2	980.0	848.5	131.43	7.456	
19,100.0	12,400.0	19,115.0	12,400.0	68.2	66.6	-90.02	-6,024.8	425.8	980.0	846.7	133.24	7.355	
19,200.0	12,400.0	19,215.0	12,400.0	69.1	67.5	-90.02	-6,124.8	426.5	980.0	844.9	135.04	7.257	
19,300.0	12,400.0	19,315.0	12,400.0	70.0	68.5	-90.02	-6,224.8	427.1	980.0	843.1	136.85	7.161	
19,400.0	12,400.0	19,415.0	12,400.0	70.9	69.4	-90.02	-6,324.8	427.7	980.0	841.3	138.66	7.067	
19,500.0	12,400.0	19,515.0	12,400.0	71.8	70.3	-90.02	-6,424.8	428.3	980.0	839.5	140.47	6.976	
19,600.0	12,400.0	19,615.0	12,400.0	72.7	71.2	-90.02	-6,524.8	428.9	980.0	837.7	142.29	6.887	
19,700.0	12,400.0	19,715.0	12,400.0	73.6	72.2	-90.02	-6,624.8	429.6	980.0	835.9	144.11	6.800	
19,800.0	12,400.0	19,815.0	12,400.0	74.6	73.1	-90.02	-6,724.8	430.2	980.0	834.1	145.93	6.716	
19,900.0	12,400.0	19,915.0	12,400.0	75.5	74.0	-90.02	-6,824.7	430.8	980.0	832.2	147.75	6.633	
20,000.0	12,400.0	20,015.0	12,400.0	76.4	75.0	-90.02	-6,924.7	431.4	980.0	830.4	149.57	6.552	
20,100.0	12,400.0	20,115.0	12,400.0	77.3	75.9	-90.02	-7,024.7	432.0	980.0	828.6	151.40	6.473	
20,200.0	12,400.0	20,215.0	12,400.0	78.2	76.8	-90.02	-7,124.7	432.6	980.0	826.8	153.22	6.396	
20,300.0	12,400.0	20,315.0	12,400.0	79.1	77.8	-90.02	-7,224.7	433.3	980.0	824.9	155.05	6.320	
20,400.0	12,400.0	20,415.0	12,400.0	80.0	78.7	-90.02	-7,324.7	433.9	980.0	823.1	156.88	6.247	
20,500.0	12,400.0	20,515.0	12,400.0	80.9	79.6	-90.02	-7,424.7	434.5	980.0	821.3	158.72	6.174	
20,600.0	12,400.0	20,615.0	12,400.0	81.9	80.6	-90.02	-7,524.7	435.1	980.0	819.4	160.55	6.104	
20,700.0	12,400.0	20,715.0	12,400.0	82.8	81.5	-90.02	-7,624.7	435.7	980.0	817.6	162.39	6.035	
20,800.0	12,400.0	20,815.0	12,400.0	83.7	82.4	-90.02	-7,724.7	436.4	980.0	815.8	164.22	5.967	
20,900.0	12,400.0	20,915.0	12,400.0	84.6	83.4	-90.02	-7,824.7	437.0	980.0	813.9	166.06	5.901	
21,000.0	12,400.0	21,015.0	12,400.0	85.5	84.3	-90.02	-7,924.7	437.6	980.0	812.1	167.90	5.837	
21,100.0	12,400.0	21,115.0	12,400.0	86.5	85.3	-90.02	-8,024.7	438.2	980.0	810.3	169.75	5.773	
21,200.0	12,400.0	21,215.0	12,400.0	87.4	86.2	-90.02	-8,124.7	438.8	980.0	808.4	171.59	5.711	
21,300.0	12,400.0	21,315.0	12,400.0	88.3	87.1	-90.02	-8,224.7	439.4	980.0	806.6	173.43	5.651	
21,400.0	12,400.0	21,415.0	12,400.0	89.2	88.1	-90.02	-8,324.7	440.1	980.0	804.7	175.28	5.591	
21,500.0	12,400.0	21,515.0	12,400.0	90.2	89.0	-90.02	-8,424.7	440.7	980.0	802.9	177.12	5.533	
21,600.0	12,400.0	21,615.0	12,400.0	91.1	90.0	-90.02	-8,524.7	441.3	980.0	801.0	178.97	5.476	
21,700.0	12,400.0	21,715.0	12,400.0	92.0	90.9	-90.02	-8,624.7	441.9	980.0	799.2	180.82	5.420	
21,800.0	12,400.0	21,815.0	12,400.0	92.9	91.9	-90.02	-8,724.7	442.5	980.0	797.3	182.67	5.365	
21,900.0	12,400.0	21,915.0	12,400.0	93.9	92.8	-90.02	-8,824.7	443.1	980.0	795.5	184.52	5.311	
22,000.0	12,400.0	22,015.0	12,400.0	94.8	93.7	-90.02	-8,924.7	443.8	980.0	793.6	186.37	5.258	
22,100.0	12,400.0	22,115.0	12,400.0	95.7	94.7	-90.02	-9,024.7	444.4	980.0	791.8	188.23	5.207	
22,200.0	12,400.0	22,215.0	12,400.0	96.7	95.6	-90.02	-9,124.7	445.0	980.0	789.9	190.08	5.156	
22,300.0	12,400.0	22,315.0	12,400.0	97.6	96.6	-90.02	-9,224.7	445.6	980.0	788.1	191.93	5.106	
22,400.0	12,400.0	22,415.0	12,400.0	98.5	97.5	-90.02	-9,324.7	446.2	980.0	786.2	193.79	5.057	
22,500.0	12,400.0	22,515.0	12,400.0	99.5	98.5	-90.02	-9,424.7	446.9	980.0	784.4	195.65	5.009	
22,600.0	12,400.0	22,615.0	12,400.0	100.4	99.4	-90.02	-9,524.7	447.5	980.0	782.5	197.50	4.962	
22,700.0	12,400.0	22,715.0	12,400.0	101.3	100.4	-90.02	-9,624.7	448.1	980.0	780.7	199.36	4.916	
22,800.0	12,400.0	22,815.0	12,400.0	102.3	101.3	-90.02	-9,724.7	448.7	980.0	778.8	201.22	4.870	
22,801.4	12,400.0	22,816.3	12,400.0	102.3	101.3	-90.02	-9,726.0	448.7	980.0	778.8	201.25	4.870	
22,816.5	12,400.0	22,830.4	12,400.0	102.4	101.5	-90.02	-9,740.1	448.8	980.0	778.5	201.52	4.863 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 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 704H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	3.0	3.0	180.00	-44.9	0.0	44.9				
100.0	100.0	99.5	99.5	3.1	3.1	180.00	-44.9	0.0	44.9	38.3	6.62	6.784	
200.0	200.0	199.5	199.5	3.3	3.3	180.00	-44.9	0.0	44.9	37.8	7.07	6.351	
300.0	300.0	299.5	299.5	3.5	3.5	180.00	-44.9	0.0	44.9	37.4	7.50	5.989	
400.0	400.0	399.5	399.5	3.7	3.7	180.00	-44.9	0.0	44.9	37.0	7.90	5.681	
500.0	500.0	499.5	499.5	3.9	3.9	180.00	-44.9	0.0	44.9	36.6	8.29	5.415	
600.0	600.0	599.5	599.5	4.1	4.1	180.00	-44.9	0.0	44.9	36.2	8.66	5.182	
700.0	700.0	699.5	699.5	4.3	4.3	180.00	-44.9	0.0	44.9	35.9	9.02	4.975	
800.0	800.0	799.5	799.5	4.5	4.5	180.00	-44.9	0.0	44.9	35.5	9.37	4.791	
900.0	900.0	899.5	899.5	4.7	4.7	180.00	-44.9	0.0	44.9	35.2	9.71	4.624	
1,000.0	1,000.0	999.5	999.5	4.8	4.8	180.00	-44.9	0.0	44.9	34.9	10.04	4.473 CC, ES	
1,100.0	1,100.0	1,099.5	1,099.5	5.1	5.0	-144.28	-44.9	0.0	46.3	35.9	10.42	4.442	
1,200.0	1,199.8	1,199.3	1,199.3	5.4	5.1	-147.69	-44.9	0.0	50.6	39.8	10.82	4.681	
1,300.0	1,299.5	1,299.0	1,299.0	5.6	5.3	-152.21	-44.9	0.0	58.2	47.0	11.24	5.178	
1,400.0	1,398.7	1,398.2	1,398.2	5.9	5.5	-156.82	-44.9	0.0	69.2	57.5	11.69	5.923	
1,500.0	1,497.5	1,497.0	1,497.0	6.3	5.6	-160.93	-44.9	0.0	83.9	71.7	12.16	6.894	
1,600.0	1,595.9	1,596.9	1,596.9	6.5	5.7	-164.45	-44.1	0.1	99.8	87.2	12.59	7.927	
1,700.0	1,694.4	1,697.2	1,697.2	6.8	5.9	-167.50	-41.6	0.6	114.5	101.5	13.03	8.787	
1,800.0	1,792.9	1,797.8	1,797.7	7.1	6.1	-170.32	-37.3	1.3	128.1	114.6	13.50	9.487	
1,900.0	1,891.4	1,898.7	1,898.4	7.4	6.3	-173.05	-31.2	2.4	140.6	126.6	14.00	10.044	
2,000.0	1,989.9	1,999.7	1,999.1	7.7	6.5	-175.79	-23.5	3.8	152.1	137.6	14.51	10.478	
2,100.0	2,088.4	2,104.6	2,103.4	8.1	6.8	-178.63	-12.7	4.7	161.5	146.4	15.08	10.708	
2,200.0	2,186.8	2,209.8	2,207.6	8.4	7.1	178.43	1.8	4.4	167.7	152.1	15.64	10.723	
2,300.0	2,285.3	2,309.7	2,306.2	8.8	7.4	175.61	17.4	3.4	172.5	156.3	16.20	10.649	
2,400.0	2,383.8	2,409.2	2,404.5	9.1	7.6	172.95	32.9	2.5	177.6	160.9	16.75	10.604	
2,500.0	2,482.3	2,508.7	2,502.8	9.5	7.9	170.45	48.4	1.5	183.1	165.8	17.30	10.586	
2,600.0	2,580.8	2,608.3	2,601.2	9.9	8.2	168.10	64.0	0.5	189.0	171.1	17.84	10.592	
2,700.0	2,679.2	2,707.8	2,699.5	10.3	8.6	165.89	79.5	-0.5	195.1	176.7	18.37	10.618	
2,800.0	2,777.7	2,807.3	2,797.8	10.7	8.9	163.82	95.1	-1.5	201.5	182.6	18.90	10.663	
2,900.0	2,876.2	2,906.9	2,896.1	11.1	9.2	161.87	110.6	-2.4	208.2	188.8	19.41	10.723	
3,000.0	2,974.7	3,006.4	2,994.4	11.5	9.6	160.05	126.1	-3.4	215.0	195.1	19.92	10.797	
3,100.0	3,073.2	3,105.9	3,092.7	11.9	9.9	158.34	141.7	-4.4	222.1	201.7	20.41	10.882	
3,200.0	3,171.6	3,205.5	3,191.0	12.3	10.3	156.74	157.2	-5.4	229.4	208.5	20.90	10.976	
3,300.0	3,270.1	3,305.0	3,289.3	12.7	10.7	155.24	172.8	-6.3	236.8	215.5	21.38	11.078	
3,400.0	3,368.6	3,404.6	3,387.6	13.1	11.0	153.83	188.3	-7.3	244.4	222.6	21.85	11.186	
3,500.0	3,467.1	3,504.1	3,486.0	13.6	11.4	152.51	203.8	-8.3	252.2	229.8	22.32	11.300	
3,600.0	3,565.6	3,603.6	3,584.3	14.0	11.8	151.26	219.4	-9.3	260.0	237.2	22.77	11.417	
3,700.0	3,664.0	3,703.2	3,682.6	14.4	12.2	150.09	234.9	-10.3	268.0	244.7	23.23	11.538	
3,800.0	3,762.5	3,802.7	3,780.9	14.8	12.6	148.99	250.5	-11.2	276.0	252.4	23.67	11.661	
3,900.0	3,861.0	3,902.2	3,879.2	15.3	13.0	147.95	266.0	-12.2	284.2	260.1	24.12	11.786	
4,000.0	3,959.5	4,001.8	3,977.5	15.7	13.4	146.96	281.6	-13.2	292.5	267.9	24.55	11.912	
4,100.0	4,058.0	4,101.3	4,075.8	16.1	13.8	146.03	297.1	-14.2	300.8	275.8	24.99	12.039	
4,200.0	4,156.4	4,200.8	4,174.1	16.6	14.2	145.16	312.6	-15.1	309.2	283.8	25.42	12.166	
4,300.0	4,254.9	4,300.4	4,272.4	17.0	14.6	144.32	328.2	-16.1	317.7	291.9	25.85	12.292	
4,400.0	4,353.4	4,399.9	4,370.7	17.4	15.0	143.54	343.7	-17.1	326.3	300.0	26.27	12.418	
4,500.0	4,451.9	4,499.5	4,469.1	17.9	15.4	142.79	359.3	-18.1	334.9	308.2	26.70	12.544	
4,600.0	4,550.4	4,599.0	4,567.4	18.3	15.8	142.08	374.8	-19.1	343.5	316.4	27.12	12.669	
4,700.0	4,648.9	4,698.5	4,665.7	18.7	16.2	141.40	390.3	-20.0	352.2	324.7	27.54	12.792	
4,800.0	4,747.3	4,798.1	4,764.0	19.2	16.7	140.76	405.9	-21.0	361.0	333.0	27.95	12.914	
4,900.0	4,845.8	4,897.6	4,862.3	19.6	17.1	140.15	421.4	-22.0	369.8	341.4	28.37	13.035	
5,000.0	4,944.3	4,997.1	4,960.6	20.0	17.5	139.56	437.0	-23.0	378.6	349.8	28.78	13.154	
5,100.0	5,042.8	5,096.7	5,058.9	20.5	17.9	139.00	452.5	-23.9	387.5	358.3	29.20	13.272	

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 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,200.0	5,141.3	5,196.2	5,157.2	20.9	18.3	138.47	468.0	-24.9	396.4	366.8	29.61	13.388	
5,300.0	5,239.7	5,295.7	5,255.5	21.4	18.8	137.96	483.6	-25.9	405.4	375.3	30.02	13.502	
5,400.0	5,338.2	5,395.3	5,353.9	21.8	19.2	137.48	499.1	-26.9	414.3	383.9	30.43	13.615	
5,500.0	5,436.7	5,494.8	5,452.2	22.3	19.6	137.01	514.7	-27.9	423.3	392.5	30.84	13.726	
5,600.0	5,535.2	5,594.3	5,550.5	22.7	20.0	136.56	530.2	-28.8	432.4	401.1	31.25	13.835	
5,700.0	5,633.7	5,693.9	5,648.8	23.1	20.5	136.13	545.7	-29.8	441.4	409.7	31.66	13.942	
5,800.0	5,732.1	5,793.4	5,747.1	23.6	20.9	135.72	561.3	-30.8	450.5	418.4	32.07	14.047	
5,900.0	5,830.6	5,893.0	5,845.4	24.0	21.3	135.33	576.8	-31.8	459.6	427.1	32.48	14.151	
6,000.0	5,929.1	5,992.5	5,943.7	24.5	21.7	134.95	592.4	-32.7	468.7	435.8	32.88	14.253	
6,100.0	6,027.6	6,092.0	6,042.0	24.9	22.2	134.58	607.9	-33.7	477.8	444.5	33.29	14.353	
6,200.0	6,126.1	6,191.6	6,140.3	25.4	22.6	134.23	623.4	-34.7	487.0	453.3	33.70	14.451	
6,300.0	6,224.5	6,291.1	6,238.7	25.8	23.0	133.89	639.0	-35.7	496.2	462.1	34.11	14.548	
6,400.0	6,323.0	6,390.6	6,337.0	26.3	23.4	133.57	654.5	-36.7	505.4	470.8	34.51	14.642	
6,452.8	6,375.0	6,443.2	6,388.8	26.5	23.7	133.40	662.7	-37.2	510.2	475.5	34.72	14.697	
6,500.0	6,421.5	6,490.2	6,435.3	26.7	23.9	133.27	670.1	-37.6	514.4	479.5	34.89	14.744	
6,600.0	6,520.3	6,589.8	6,533.6	27.1	24.3	132.89	685.6	-38.6	522.5	487.3	35.24	14.827	
6,700.0	6,619.3	6,689.4	6,632.0	27.6	24.7	132.37	701.2	-39.6	529.4	493.9	35.53	14.900	
6,800.0	6,718.6	6,789.0	6,730.4	28.0	25.2	131.73	716.7	-40.6	535.3	499.5	35.76	14.967	
6,900.0	6,818.0	6,888.3	6,828.5	28.4	25.6	130.96	732.1	-41.5	540.0	504.1	35.91	15.039	
7,000.0	6,917.6	6,986.7	6,925.9	28.8	26.0	130.20	746.2	-42.4	543.9	507.9	36.05	15.089	
7,100.0	7,017.4	7,085.3	7,023.7	29.1	26.4	129.48	758.6	-43.2	547.0	510.8	36.18	15.120	
7,200.0	7,117.2	7,184.1	7,122.0	29.5	26.8	128.80	769.3	-43.9	549.2	512.9	36.29	15.133	
7,300.0	7,217.2	7,283.1	7,220.5	29.8	27.2	128.16	778.4	-44.4	550.6	514.2	36.39	15.130	
7,400.0	7,317.2	7,382.1	7,319.3	30.1	27.6	127.54	785.7	-44.9	551.1	514.7	36.46	15.115	
7,452.8	7,369.9	7,434.5	7,371.5	30.1	27.7	127.23	788.9	-45.1	551.1	514.6	36.45	15.119	
7,500.0	7,417.2	7,481.4	7,418.3	30.1	27.9	126.89	791.4	-45.3	550.9	514.5	36.41	15.130	
7,600.0	7,517.2	7,580.7	7,517.6	30.2	28.2	126.56	795.3	-45.5	550.7	514.3	36.40	15.127	
7,700.0	7,617.2	7,680.2	7,617.0	30.2	28.5	126.23	797.6	-45.7	550.5	514.1	36.45	15.104	
7,800.0	7,717.2	7,779.8	7,716.7	30.2	28.6	125.90	798.1	-45.7	550.5	514.0	36.54	15.068	
7,900.0	7,817.2	7,879.8	7,816.7	30.3	28.7	125.57	798.1	-45.7	550.5	513.9	36.65	15.021	
8,000.0	7,917.2	7,979.8	7,916.7	30.3	28.7	125.24	798.1	-45.7	550.5	513.7	36.77	14.971	
8,100.0	8,017.2	8,079.8	8,016.7	30.4	28.8	124.91	798.1	-45.7	550.5	513.6	36.89	14.922	
8,200.0	8,117.2	8,179.8	8,116.7	30.4	28.8	124.58	798.1	-45.7	550.5	513.5	37.02	14.873	
8,300.0	8,217.2	8,279.8	8,216.7	30.4	28.9	124.25	798.1	-45.7	550.5	513.4	37.14	14.824	
8,400.0	8,317.2	8,379.8	8,316.7	30.5	28.9	123.92	798.1	-45.7	550.5	513.3	37.26	14.775	
8,500.0	8,417.2	8,479.8	8,416.7	30.5	29.0	123.59	798.1	-45.7	550.5	513.1	37.38	14.727	
8,600.0	8,517.2	8,579.8	8,516.7	30.6	29.0	123.26	798.1	-45.7	550.5	513.0	37.51	14.678	
8,700.0	8,617.2	8,679.8	8,616.7	30.6	29.1	122.93	798.1	-45.7	550.5	512.9	37.63	14.630	
8,800.0	8,717.2	8,779.8	8,716.7	30.6	29.2	122.60	798.1	-45.7	550.5	512.8	37.75	14.582	
8,900.0	8,817.2	8,879.8	8,816.7	30.7	29.2	122.27	798.1	-45.7	550.5	512.6	37.88	14.535	
9,000.0	8,917.2	8,979.8	8,916.7	30.7	29.3	121.94	798.1	-45.7	550.5	512.5	38.00	14.487	
9,100.0	9,017.2	9,079.8	9,016.7	30.8	29.3	121.61	798.1	-45.7	550.5	512.4	38.13	14.440	
9,200.0	9,117.2	9,179.8	9,116.7	30.8	29.4	121.28	798.1	-45.7	550.5	512.3	38.25	14.393	
9,300.0	9,217.2	9,279.8	9,216.7	30.8	29.4	120.95	798.1	-45.7	550.5	512.1	38.37	14.346	
9,400.0	9,317.2	9,379.8	9,316.7	30.9	29.5	120.62	798.1	-45.7	550.5	512.0	38.50	14.299	
9,500.0	9,417.2	9,479.8	9,416.7	30.9	29.5	120.29	798.1	-45.7	550.5	511.9	38.63	14.253	
9,600.0	9,517.2	9,579.8	9,516.7	31.0	29.6	119.96	798.1	-45.7	550.5	511.8	38.75	14.206	
9,700.0	9,617.2	9,679.8	9,616.7	31.0	29.6	119.63	798.1	-45.7	550.5	511.6	38.88	14.160	
9,800.0	9,717.2	9,779.8	9,716.7	31.0	29.7	119.30	798.1	-45.7	550.5	511.5	39.00	14.114	
9,900.0	9,817.2	9,879.8	9,816.7	31.1	29.7	118.97	798.1	-45.7	550.5	511.4	39.13	14.069	
10,000.0	9,917.2	9,979.8	9,916.7	31.1	29.8	118.64	798.1	-45.7	550.5	511.3	39.26	14.023	
10,100.0	10,017.2	10,079.8	10,016.7	31.2	29.8	118.31	798.1	-45.7	550.5	511.1	39.38	13.978	

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 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,200.0	10,117.2	10,179.8	10,116.7	31.2	29.9	89.27	798.1	-45.7	550.5	511.0	39.51	13.933	
10,300.0	10,217.2	10,279.8	10,216.7	31.3	29.9	89.27	798.1	-45.7	550.5	510.9	39.64	13.888	
10,400.0	10,317.2	10,379.8	10,316.7	31.3	30.0	89.27	798.1	-45.7	550.5	510.7	39.77	13.843	
10,500.0	10,417.2	10,479.8	10,416.7	31.3	30.1	89.27	798.1	-45.7	550.5	510.6	39.90	13.799	
10,600.0	10,517.2	10,579.8	10,516.7	31.4	30.1	89.27	798.1	-45.7	550.5	510.5	40.02	13.755	
10,700.0	10,617.2	10,679.8	10,616.7	31.4	30.2	89.27	798.1	-45.7	550.5	510.4	40.15	13.711	
10,800.0	10,717.2	10,779.8	10,716.7	31.5	30.2	89.27	798.1	-45.7	550.5	510.2	40.28	13.667	
10,900.0	10,817.2	10,879.8	10,816.7	31.5	30.3	89.27	798.1	-45.7	550.5	510.1	40.41	13.623	
11,000.0	10,917.2	10,979.8	10,916.7	31.6	30.3	89.27	798.1	-45.7	550.5	510.0	40.54	13.580	
11,100.0	11,017.2	11,079.8	11,016.7	31.6	30.4	89.27	798.1	-45.7	550.5	509.8	40.67	13.537	
11,200.0	11,117.2	11,179.8	11,116.7	31.6	30.4	89.27	798.1	-45.7	550.5	509.7	40.80	13.494	
11,300.0	11,217.2	11,279.8	11,216.7	31.7	30.5	89.27	798.1	-45.7	550.5	509.6	40.93	13.451	
11,400.0	11,317.2	11,379.8	11,316.7	31.7	30.6	89.27	798.1	-45.7	550.5	509.5	41.06	13.408	
11,500.0	11,417.2	11,479.8	11,416.7	31.8	30.6	89.27	798.1	-45.7	550.5	509.3	41.19	13.366	
11,600.0	11,517.2	11,579.8	11,516.7	31.8	30.7	89.27	798.1	-45.7	550.5	509.2	41.32	13.323	
11,700.0	11,617.2	11,679.8	11,616.7	31.9	30.7	89.27	798.1	-45.7	550.5	509.1	41.45	13.281	
11,784.5	11,701.6	11,764.4	11,701.1	31.9	30.6	89.65	794.5	-45.7	550.5	508.9	41.64	13.222	
11,800.0	11,717.2	11,779.8	11,716.3	31.9	30.5	89.87	792.4	-45.7	550.5	508.8	41.70	13.201	
11,900.0	11,817.2	11,873.8	11,807.2	31.9	30.1	92.32	768.8	-45.5	551.2	508.8	42.41	12.997	
12,000.0	11,917.2	11,956.1	11,881.6	32.0	29.8	95.93	733.9	-45.3	554.9	511.5	43.45	12.771	
12,005.4	11,922.5	11,960.1	11,885.1	32.0	29.8	96.14	731.9	-45.3	555.3	511.8	43.51	12.761	
12,025.0	11,942.1	11,975.0	11,897.8	32.0	29.7	-82.58	724.1	-45.2	556.7	512.9	43.72	12.733	
12,050.0	11,967.1	11,993.0	11,912.9	31.9	29.6	-81.44	714.2	-45.2	558.6	514.7	43.93	12.716	
12,075.0	11,991.9	12,011.1	11,927.6	31.8	29.6	-80.30	703.7	-45.1	560.8	516.7	44.11	12.713	
12,100.0	12,016.5	12,029.0	11,941.7	31.8	29.5	-79.18	692.7	-45.0	563.1	518.9	44.26	12.723	
12,125.0	12,040.9	12,046.7	11,955.3	31.7	29.4	-78.08	681.4	-45.0	565.6	521.3	44.38	12.746	
12,150.0	12,065.0	12,064.2	11,968.3	31.6	29.3	-77.00	669.7	-44.9	568.3	523.8	44.46	12.781	
12,175.0	12,088.6	12,081.5	11,980.7	31.5	29.3	-75.96	657.7	-44.8	571.0	526.5	44.52	12.827	
12,200.0	12,111.8	12,100.0	11,993.5	31.4	29.2	-74.89	644.3	-44.8	573.8	529.2	44.57	12.874	
12,225.0	12,134.5	12,115.7	12,004.0	31.3	29.1	-73.96	632.6	-44.7	576.7	532.1	44.54	12.947	
12,250.0	12,156.6	12,132.5	12,014.8	31.2	29.1	-73.00	619.7	-44.6	579.6	535.1	44.52	13.018	
12,275.0	12,178.1	12,150.0	12,025.4	31.1	29.0	-72.07	605.9	-44.5	582.5	538.0	44.49	13.092	
12,300.0	12,198.8	12,165.9	12,034.8	31.1	29.0	-71.21	592.9	-44.4	585.4	541.0	44.42	13.179	
12,325.0	12,218.8	12,182.5	12,044.0	31.0	28.9	-70.38	579.2	-44.4	588.3	543.9	44.34	13.266	
12,350.0	12,238.0	12,200.0	12,053.2	30.9	28.9	-69.55	564.3	-44.3	591.1	546.8	44.28	13.350	
12,375.0	12,256.3	12,215.3	12,060.8	30.8	28.8	-68.83	551.0	-44.2	593.8	549.7	44.16	13.448	
12,400.0	12,273.7	12,231.6	12,068.4	30.7	28.8	-68.12	536.6	-44.1	596.5	552.4	44.05	13.541	
12,425.0	12,290.2	12,250.0	12,076.4	30.6	28.7	-67.40	520.0	-44.0	599.1	555.1	43.98	13.621	
12,450.0	12,305.6	12,263.9	12,082.0	30.6	28.7	-66.83	507.3	-43.9	601.5	557.7	43.83	13.725	
12,475.0	12,320.0	12,280.0	12,088.1	30.5	28.7	-66.26	492.4	-43.8	603.8	560.1	43.71	13.814	
12,500.0	12,333.3	12,300.0	12,094.8	30.5	28.6	-65.66	473.6	-43.7	606.0	562.3	43.65	13.881	
12,525.0	12,345.5	12,312.0	12,098.6	30.4	28.6	-65.25	462.1	-43.6	608.0	564.5	43.48	13.984	
12,550.0	12,356.5	12,325.0	12,102.2	30.4	28.6	-64.86	449.7	-43.6	609.8	566.5	43.32	14.076	
12,575.0	12,366.3	12,343.9	12,107.0	30.3	28.6	-64.43	431.4	-43.4	611.4	568.2	43.25	14.136	
12,600.0	12,374.9	12,359.8	12,110.4	30.3	28.5	-64.09	415.9	-43.4	612.9	569.8	43.15	14.205	
12,625.0	12,382.3	12,375.0	12,113.2	30.3	28.5	-63.81	400.9	-43.3	614.2	571.1	43.04	14.271	
12,650.0	12,388.4	12,391.4	12,115.7	30.2	28.5	-63.56	384.7	-43.2	615.2	572.3	42.95	14.325	
12,675.0	12,393.2	12,407.2	12,117.5	30.2	28.5	-63.37	369.0	-43.1	616.1	573.2	42.85	14.376	
12,700.0	12,396.8	12,425.0	12,119.0	30.2	28.5	-63.22	351.3	-43.0	616.7	573.9	42.79	14.414	
12,725.0	12,399.0	12,438.8	12,119.7	30.2	28.5	-63.13	337.5	-42.9	617.2	574.5	42.68	14.459	
12,750.0	12,400.0	12,454.6	12,120.0	30.2	28.5	-63.08	321.8	-42.8	617.4	574.8	42.60	14.492	
12,755.4	12,400.0	12,459.3	12,120.0	30.2	28.5	-63.08	317.0	-42.7	617.4	574.8	42.60	14.494	

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 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,800.0	12,400.0	12,503.9	12,120.0	30.2	28.5	-63.08	272.4	-42.5	617.4	574.8	42.62	14.485	
12,900.0	12,400.0	12,603.9	12,120.0	30.3	28.5	-63.08	172.4	-41.9	617.4	574.6	42.75	14.440	
13,000.0	12,400.0	12,703.9	12,120.0	30.4	28.5	-63.08	72.4	-41.3	617.4	574.4	42.97	14.368	
13,100.0	12,400.0	12,803.9	12,120.0	30.5	28.5	-63.08	-27.6	-40.6	617.4	574.1	43.26	14.272	
13,200.0	12,400.0	12,903.9	12,120.0	30.6	28.5	-63.08	-127.6	-40.0	617.4	573.7	43.62	14.152	
13,300.0	12,400.0	13,003.9	12,120.0	30.7	28.5	-63.08	-227.6	-39.4	617.4	573.3	44.06	14.010	
13,400.0	12,400.0	13,103.9	12,120.0	30.9	28.5	-63.08	-327.6	-38.8	617.3	572.8	44.58	13.849	
13,500.0	12,400.0	13,203.9	12,120.0	31.0	28.5	-63.08	-427.6	-38.2	617.3	572.2	45.16	13.670	
13,600.0	12,400.0	13,303.9	12,120.0	31.2	28.5	-63.08	-527.6	-37.6	617.3	571.5	45.81	13.476	
13,700.0	12,400.0	13,403.9	12,120.0	31.4	28.6	-63.08	-627.6	-37.0	617.3	570.8	46.52	13.269	
13,800.0	12,400.0	13,503.9	12,120.0	31.6	28.6	-63.08	-727.6	-36.4	617.3	570.0	47.30	13.052	
13,900.0	12,400.0	13,603.9	12,120.0	31.8	28.6	-63.08	-827.5	-35.7	617.3	569.2	48.13	12.826	
14,000.0	12,400.0	13,703.9	12,120.0	32.1	28.6	-63.08	-927.5	-35.1	617.3	568.3	49.02	12.594	
14,100.0	12,400.0	13,803.9	12,120.0	32.4	28.6	-63.08	-1,027.5	-34.5	617.3	567.4	49.96	12.356	
14,200.0	12,400.0	13,903.9	12,120.0	32.7	28.7	-63.08	-1,127.5	-33.9	617.3	566.4	50.95	12.116	
14,300.0	12,400.0	14,003.9	12,120.0	33.0	28.7	-63.08	-1,227.5	-33.3	617.3	565.3	51.99	11.875	
14,400.0	12,400.0	14,103.9	12,120.0	33.4	28.7	-63.08	-1,327.5	-32.7	617.3	564.2	53.07	11.633	
14,500.0	12,400.0	14,203.9	12,120.0	33.8	28.8	-63.08	-1,427.5	-32.1	617.3	563.1	54.19	11.392	
14,600.0	12,400.0	14,303.9	12,120.0	34.2	28.8	-63.08	-1,527.5	-31.5	617.3	562.0	55.35	11.153	
14,700.0	12,400.0	14,403.9	12,120.0	34.6	28.9	-63.08	-1,627.5	-30.9	617.3	560.8	56.54	10.917	
14,800.0	12,400.0	14,503.9	12,120.0	35.1	29.0	-63.08	-1,727.5	-30.2	617.3	559.5	57.77	10.685	
14,900.0	12,400.0	14,603.9	12,120.0	35.6	29.2	-63.08	-1,827.5	-29.6	617.3	558.3	59.03	10.457	
15,000.0	12,400.0	14,703.9	12,120.0	36.1	29.8	-63.08	-1,927.5	-29.0	617.3	557.0	60.32	10.233	
15,100.0	12,400.0	14,803.9	12,120.0	36.7	30.6	-63.08	-2,027.5	-28.4	617.3	555.6	61.64	10.014	
15,200.0	12,400.0	14,903.9	12,120.0	37.2	31.4	-63.08	-2,127.5	-27.8	617.3	554.3	62.99	9.800	
15,300.0	12,400.0	15,003.9	12,120.0	37.8	32.2	-63.08	-2,227.5	-27.2	617.3	552.9	64.36	9.591	
15,400.0	12,400.0	15,103.9	12,120.0	38.4	33.0	-63.08	-2,327.5	-26.6	617.3	551.5	65.75	9.388	
15,500.0	12,400.0	15,203.9	12,120.0	39.1	33.8	-63.08	-2,427.5	-26.0	617.3	550.1	67.16	9.190	
15,600.0	12,400.0	15,303.9	12,120.0	39.7	34.6	-63.08	-2,527.5	-25.3	617.3	548.7	68.60	8.998	
15,700.0	12,400.0	15,403.9	12,120.0	40.4	35.5	-63.08	-2,627.5	-24.7	617.3	547.2	70.05	8.812	
15,800.0	12,400.0	15,503.9	12,120.0	41.0	36.3	-63.08	-2,727.5	-24.1	617.2	545.7	71.52	8.630	
15,900.0	12,400.0	15,603.9	12,120.0	41.7	37.2	-63.08	-2,827.5	-23.5	617.2	544.2	73.01	8.454	
16,000.0	12,400.0	15,703.9	12,120.0	42.4	38.0	-63.08	-2,927.5	-22.9	617.2	542.7	74.51	8.284	
16,100.0	12,400.0	15,803.9	12,120.0	43.2	38.9	-63.07	-3,027.5	-22.3	617.2	541.2	76.03	8.118	
16,200.0	12,400.0	15,903.9	12,120.0	43.9	39.7	-63.07	-3,127.5	-21.7	617.2	539.7	77.56	7.958	
16,300.0	12,400.0	16,003.9	12,120.0	44.7	40.6	-63.07	-3,227.5	-21.1	617.2	538.1	79.11	7.803	
16,400.0	12,400.0	16,103.9	12,120.0	45.4	41.5	-63.07	-3,327.5	-20.5	617.2	536.6	80.66	7.652	
16,500.0	12,400.0	16,203.9	12,120.0	46.2	42.4	-63.07	-3,427.5	-19.8	617.2	535.0	82.23	7.506	
16,600.0	12,400.0	16,303.9	12,120.0	47.0	43.3	-63.07	-3,527.5	-19.2	617.2	533.4	83.81	7.364	
16,700.0	12,400.0	16,403.9	12,120.0	47.7	44.1	-63.07	-3,627.5	-18.6	617.2	531.8	85.40	7.227	
16,800.0	12,400.0	16,503.9	12,120.0	48.5	45.0	-63.07	-3,727.5	-18.0	617.2	530.2	87.00	7.094	
16,900.0	12,400.0	16,603.9	12,120.0	49.3	45.9	-63.07	-3,827.5	-17.4	617.2	528.6	88.61	6.966	
17,000.0	12,400.0	16,703.9	12,120.0	50.2	46.8	-63.07	-3,927.5	-16.8	617.2	527.0	90.22	6.841	
17,100.0	12,400.0	16,803.9	12,120.0	51.0	47.7	-63.07	-4,027.5	-16.2	617.2	525.3	91.85	6.720	
17,200.0	12,400.0	16,903.9	12,120.0	51.8	48.6	-63.07	-4,127.5	-15.6	617.2	523.7	93.48	6.602	
17,300.0	12,400.0	17,003.9	12,120.0	52.6	49.5	-63.07	-4,227.5	-14.9	617.2	522.1	95.12	6.488	
17,400.0	12,400.0	17,103.9	12,120.0	53.5	50.4	-63.07	-4,327.5	-14.3	617.2	520.4	96.77	6.378	
17,500.0	12,400.0	17,203.9	12,120.0	54.3	51.3	-63.07	-4,427.5	-13.7	617.2	518.8	98.43	6.270	
17,600.0	12,400.0	17,303.9	12,120.0	55.1	52.2	-63.07	-4,527.5	-13.1	617.2	517.1	100.09	6.166	
17,700.0	12,400.0	17,403.9	12,120.0	56.0	53.2	-63.07	-4,627.5	-12.5	617.2	515.4	101.75	6.065	
17,800.0	12,400.0	17,503.9	12,120.0	56.8	54.1	-63.07	-4,727.5	-11.9	617.2	513.7	103.43	5.967	
17,900.0	12,400.0	17,603.9	12,120.0	57.7	55.0	-63.07	-4,827.5	-11.3	617.2	512.1	105.10	5.872	

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 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: HARRIER FEDERAL PROJECT - HARRIER FEDERAL COM 704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
18,000.0	12,400.0	17,703.9	12,120.0	58.6	55.9	-63.07	-4,927.5	-10.7	617.2	510.4	106.79	5.779	
18,100.0	12,400.0	17,803.9	12,120.0	59.4	56.8	-63.07	-5,027.5	-10.1	617.2	508.7	108.48	5.689	
18,200.0	12,400.0	17,903.9	12,120.0	60.3	57.7	-63.07	-5,127.5	-9.4	617.1	507.0	110.17	5.602	
18,300.0	12,400.0	18,003.9	12,120.0	61.2	58.7	-63.07	-5,227.5	-8.8	617.1	505.3	111.87	5.517	
18,400.0	12,400.0	18,103.9	12,120.0	62.0	59.6	-63.07	-5,327.5	-8.2	617.1	503.6	113.57	5.434	
18,500.0	12,400.0	18,203.9	12,120.0	62.9	60.5	-63.07	-5,427.5	-7.6	617.1	501.9	115.27	5.354	
18,600.0	12,400.0	18,303.9	12,120.0	63.8	61.4	-63.07	-5,527.5	-7.0	617.1	500.1	116.98	5.275	
18,700.0	12,400.0	18,403.9	12,120.0	64.7	62.4	-63.07	-5,627.5	-6.4	617.1	498.4	118.70	5.199	
18,800.0	12,400.0	18,503.9	12,120.0	65.6	63.3	-63.07	-5,727.5	-5.8	617.1	496.7	120.42	5.125	
18,900.0	12,400.0	18,603.9	12,120.0	66.5	64.2	-63.07	-5,827.5	-5.2	617.1	495.0	122.14	5.053	
19,000.0	12,400.0	18,703.9	12,120.0	67.3	65.1	-63.07	-5,927.5	-4.5	617.1	493.3	123.86	4.982	
19,100.0	12,400.0	18,803.9	12,120.0	68.2	66.1	-63.07	-6,027.5	-3.9	617.1	491.5	125.59	4.914	
19,200.0	12,400.0	18,903.9	12,120.0	69.1	67.0	-63.07	-6,127.4	-3.3	617.1	489.8	127.32	4.847	
19,300.0	12,400.0	19,003.9	12,120.0	70.0	67.9	-63.07	-6,227.4	-2.7	617.1	488.1	129.05	4.782	
19,400.0	12,400.0	19,103.9	12,120.0	70.9	68.9	-63.07	-6,327.4	-2.1	617.1	486.3	130.79	4.718	
19,500.0	12,400.0	19,203.9	12,120.0	71.8	69.8	-63.07	-6,427.4	-1.5	617.1	484.6	132.53	4.656	
19,600.0	12,400.0	19,303.9	12,120.0	72.7	70.7	-63.07	-6,527.4	-0.9	617.1	482.8	134.27	4.596	
19,700.0	12,400.0	19,403.9	12,120.0	73.6	71.7	-63.07	-6,627.4	-0.3	617.1	481.1	136.01	4.537	
19,800.0	12,400.0	19,503.9	12,120.0	74.6	72.6	-63.07	-6,727.4	0.3	617.1	479.3	137.76	4.479	
19,900.0	12,400.0	19,603.9	12,120.0	75.5	73.5	-63.07	-6,827.4	1.0	617.1	477.6	139.51	4.423	
20,000.0	12,400.0	19,703.9	12,120.0	76.4	74.5	-63.07	-6,927.4	1.6	617.1	475.8	141.26	4.368	
20,100.0	12,400.0	19,803.9	12,120.0	77.3	75.4	-63.07	-7,027.4	2.2	617.1	474.1	143.01	4.315	
20,200.0	12,400.0	19,903.9	12,120.0	78.2	76.4	-63.07	-7,127.4	2.8	617.1	472.3	144.76	4.263	
20,300.0	12,400.0	20,003.9	12,120.0	79.1	77.3	-63.07	-7,227.4	3.4	617.1	470.5	146.52	4.211	
20,400.0	12,400.0	20,103.9	12,120.0	80.0	78.2	-63.07	-7,327.4	4.0	617.1	468.8	148.28	4.161	
20,500.0	12,400.0	20,203.9	12,120.0	80.9	79.2	-63.07	-7,427.4	4.6	617.1	467.0	150.04	4.113	
20,600.0	12,400.0	20,303.9	12,120.0	81.9	80.1	-63.07	-7,527.4	5.2	617.0	465.2	151.80	4.065	
20,700.0	12,400.0	20,403.9	12,120.0	82.8	81.1	-63.07	-7,627.4	5.9	617.0	463.5	153.57	4.018	
20,800.0	12,400.0	20,503.9	12,120.0	83.7	82.0	-63.07	-7,727.4	6.5	617.0	461.7	155.33	3.972	
20,900.0	12,400.0	20,603.9	12,120.0	84.6	83.0	-63.07	-7,827.4	7.1	617.0	459.9	157.10	3.928	
21,000.0	12,400.0	20,703.9	12,120.0	85.5	83.9	-63.07	-7,927.4	7.7	617.0	458.2	158.87	3.884	
21,100.0	12,400.0	20,803.9	12,120.0	86.5	84.8	-63.07	-8,027.4	8.3	617.0	456.4	160.64	3.841	
21,200.0	12,400.0	20,903.9	12,120.0	87.4	85.8	-63.06	-8,127.4	8.9	617.0	454.6	162.41	3.799	
21,300.0	12,400.0	21,003.9	12,120.0	88.3	86.7	-63.06	-8,227.4	9.5	617.0	452.8	164.18	3.758	
21,400.0	12,400.0	21,103.9	12,120.0	89.2	87.7	-63.06	-8,327.4	10.1	617.0	451.1	165.96	3.718	
21,500.0	12,400.0	21,203.9	12,120.0	90.2	88.6	-63.06	-8,427.4	10.7	617.0	449.3	167.74	3.678	
21,600.0	12,400.0	21,303.9	12,120.0	91.1	89.6	-63.06	-8,527.4	11.4	617.0	447.5	169.51	3.640	
21,700.0	12,400.0	21,403.9	12,120.0	92.0	90.5	-63.06	-8,627.4	12.0	617.0	445.7	171.29	3.602	
21,800.0	12,400.0	21,503.9	12,120.0	92.9	91.5	-63.06	-8,727.4	12.6	617.0	443.9	173.07	3.565	
21,900.0	12,400.0	21,603.9	12,120.0	93.9	92.4	-63.06	-8,827.4	13.2	617.0	442.1	174.85	3.529	
22,000.0	12,400.0	21,703.9	12,120.0	94.8	93.4	-63.06	-8,927.4	13.8	617.0	440.4	176.63	3.493	
22,100.0	12,400.0	21,803.9	12,120.0	95.7	94.3	-63.06	-9,027.4	14.4	617.0	438.6	178.42	3.458	
22,200.0	12,400.0	21,903.9	12,120.0	96.7	95.2	-63.06	-9,127.4	15.0	617.0	436.8	180.20	3.424	
22,300.0	12,400.0	22,003.9	12,120.0	97.6	96.2	-63.06	-9,227.4	15.6	617.0	435.0	181.99	3.390	
22,400.0	12,400.0	22,103.9	12,120.0	98.5	97.1	-63.06	-9,327.4	16.3	617.0	433.2	183.77	3.357	
22,500.0	12,400.0	22,203.9	12,120.0	99.5	98.1	-63.06	-9,427.4	16.9	617.0	431.4	185.56	3.325	
22,600.0	12,400.0	22,303.9	12,120.0	100.4	99.0	-63.06	-9,527.4	17.5	617.0	429.6	187.35	3.293	
22,700.0	12,400.0	22,403.9	12,120.0	101.3	100.0	-63.06	-9,627.4	18.1	617.0	427.8	189.14	3.262	
22,800.0	12,400.0	22,503.9	12,120.0	102.3	100.9	-63.06	-9,727.4	18.7	617.0	426.0	190.93	3.231	
22,816.0	12,400.0	22,519.8	12,120.0	102.4	101.1	-63.06	-9,743.3	18.8	617.0	425.7	191.21	3.227	
22,816.5	12,400.0	22,519.8	12,120.0	102.4	101.1	-63.06	-9,743.3	18.8	617.0	425.7	191.23	3.226 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 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	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		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
12,007.6	11,924.7	12,007.6	11,924.7	31.9	31.5	180.00	791.1	-596.2	0.0	-55.1	55.08	0.000	STOP Drilling, CC, ES, SF
12,025.0	11,942.1	12,025.0	11,942.1	31.8	31.5	180.00	791.1	-596.2	0.4	-54.7	55.07	0.007	STOP Drilling
12,050.0	11,967.1	12,049.9	11,967.1	31.8	31.6	180.00	791.1	-596.2	2.1	-52.9	55.02	0.038	STOP Drilling
12,075.0	11,991.9	12,074.8	11,991.9	31.7	31.6	180.00	791.1	-596.2	5.1	-49.9	54.95	0.092	STOP Drilling
12,100.0	12,016.5	12,099.4	12,016.5	31.6	31.6	180.00	791.1	-596.2	9.3	-45.5	54.87	0.170	STOP Drilling
12,125.0	12,040.9	12,123.8	12,040.9	31.5	31.6	180.00	791.1	-596.2	14.9	-39.9	54.79	0.272	STOP Drilling
12,150.0	12,065.0	12,147.8	12,065.0	31.4	31.6	180.00	791.1	-596.2	21.7	-33.0	54.71	0.397	STOP Drilling
12,175.0	12,088.6	12,171.5	12,088.6	31.4	31.6	180.00	791.1	-596.2	29.8	-24.8	54.62	0.546	STOP Drilling
12,200.0	12,111.8	12,194.7	12,111.8	31.3	31.6	180.00	791.1	-596.2	39.1	-15.4	54.54	0.717	STOP Drilling
12,225.0	12,134.5	12,217.3	12,134.5	31.2	31.6	180.00	791.1	-596.2	49.6	-4.8	54.45	0.911	STOP Drilling
12,250.0	12,156.6	12,239.4	12,156.6	31.1	31.6	180.00	791.1	-596.2	61.3	6.9	54.36	1.128	Take Immediate Action
12,275.0	12,178.1	12,260.9	12,178.1	31.0	31.6	180.00	791.1	-596.2	74.1	19.8	54.28	1.366	Take Immediate Action
12,300.0	12,198.8	12,281.7	12,198.8	30.9	31.7	180.00	791.1	-596.2	88.0	33.9	54.19	1.625	Caution - Monitor Closely
12,325.0	12,218.8	12,301.7	12,218.8	30.8	31.7	180.00	791.1	-596.2	103.0	48.9	54.11	1.904	Caution - Monitor Closely
12,350.0	12,238.0	12,320.8	12,238.0	30.7	31.7	180.00	791.1	-596.2	119.1	65.0	54.03	2.204	Caution - Monitor Closely
12,375.0	12,256.3	12,339.2	12,256.3	30.6	31.7	180.00	791.1	-596.2	136.1	82.1	53.95	2.522	Normal Operations
12,400.0	12,273.7	12,356.6	12,273.7	30.6	31.7	180.00	791.1	-596.2	154.0	100.1	53.87	2.859	Normal Operations
12,425.0	12,290.2	12,373.0	12,290.2	30.5	31.7	180.00	791.1	-596.2	172.8	119.0	53.80	3.212	
12,450.0	12,305.6	12,388.5	12,305.6	30.4	31.7	180.00	791.1	-596.2	192.5	138.7	53.73	3.582	
12,475.0	12,320.0	12,402.9	12,320.0	30.4	31.7	180.00	791.1	-596.2	212.9	159.2	53.67	3.967	
12,500.0	12,333.3	12,416.2	12,333.3	30.3	31.7	180.00	791.1	-596.2	234.1	180.5	53.61	4.366	
12,525.0	12,345.5	12,428.3	12,345.5	30.3	31.7	180.00	791.1	-596.2	255.9	202.4	53.56	4.778	
12,550.0	12,356.5	12,439.4	12,356.5	30.2	31.7	180.00	791.1	-596.2	278.4	224.8	53.51	5.202	
12,575.0	12,366.3	12,449.2	12,366.3	30.2	31.7	180.00	791.1	-596.2	301.3	247.9	53.47	5.636	
12,600.0	12,374.9	12,457.8	12,374.9	30.1	31.7	180.00	791.1	-596.2	324.8	271.4	53.43	6.079	
12,625.0	12,382.3	12,465.2	12,382.3	30.1	31.7	180.00	791.1	-596.2	348.7	295.3	53.40	6.530	
12,650.0	12,388.4	12,471.3	12,388.4	30.1	31.7	180.00	791.1	-596.2	372.9	319.6	53.37	6.987	
12,675.0	12,393.2	12,476.1	12,393.2	30.1	31.7	180.00	791.1	-596.2	397.5	344.1	53.35	7.450	
12,700.0	12,396.8	12,479.6	12,396.8	30.1	31.7	180.00	791.1	-596.2	422.2	368.9	53.34	7.916	
12,725.0	12,399.0	12,481.9	12,399.0	30.1	31.7	180.00	791.1	-596.2	447.1	393.8	53.33	8.384	
12,750.0	12,400.0	12,482.8	12,400.0	30.1	31.7	180.00	791.1	-596.2	472.1	418.8	53.33	8.853	
12,755.4	12,400.0	12,482.8	12,400.0	30.1	31.7	0.00	791.1	-596.2	477.5	424.1	53.33	8.954	
12,800.0	12,400.0	12,482.8	12,400.0	30.1	31.7	0.00	791.1	-596.2	522.1	468.8	53.33	9.790	
12,900.0	12,400.0	12,482.8	12,400.0	30.2	31.7	0.00	791.1	-596.2	622.1	568.8	53.33	11.665	
13,000.0	12,400.0	12,482.8	12,400.0	30.2	31.7	0.00	791.1	-596.2	722.1	668.7	53.33	13.539	
13,100.0	12,400.0	12,482.8	12,400.0	30.3	31.7	0.00	791.1	-596.2	822.1	768.7	53.34	15.412	
13,200.0	12,400.0	12,482.8	12,400.0	30.4	31.7	0.00	791.1	-596.2	922.1	868.7	53.35	17.284	

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 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	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: PILEDRIVER FEDERAL PROJECT - MONSOON FEDERAL SWD 1 - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 249-r.5 MWD												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)			
13,100.0	12,400.0	12,351.8	12,349.3	30.5	19.2	88.44	-910.9	-1,060.0	997.2	958.1	39.08	25.518	
13,200.0	12,400.0	12,350.8	12,348.3	30.6	19.2	88.32	-910.9	-1,059.9	910.5	871.9	38.59	23.593	
13,300.0	12,400.0	12,349.8	12,347.3	30.7	19.2	88.20	-910.9	-1,059.9	826.8	788.6	38.13	21.685	
13,400.0	12,400.0	12,348.8	12,346.3	30.9	19.2	88.08	-910.9	-1,059.8	747.1	709.3	37.76	19.786	
13,500.0	12,400.0	12,347.9	12,345.3	31.0	19.2	87.96	-911.0	-1,059.8	672.8	635.2	37.63	17.881	
13,600.0	12,400.0	12,346.9	12,344.4	31.2	19.2	87.85	-911.0	-1,059.7	606.0	568.1	37.96	15.963	
13,700.0	12,400.0	12,345.9	12,343.4	31.4	19.2	87.73	-911.0	-1,059.7	549.4	510.3	39.08	14.058	
13,800.0	12,400.0	12,345.0	12,342.5	31.6	19.2	87.62	-911.0	-1,059.7	506.4	465.1	41.24	12.280	
13,900.0	12,400.0	12,344.1	12,341.5	31.8	19.2	87.50	-911.0	-1,059.6	480.6	436.3	44.36	10.835	
13,977.2	12,400.0	12,343.4	12,340.8	32.0	19.2	87.42	-911.0	-1,059.6	474.4	427.3	47.07	10.078 CC	
14,000.0	12,400.0	12,343.1	12,340.6	32.1	19.2	87.39	-911.0	-1,059.6	474.9	427.1	47.86	9.924 ES	
14,100.0	12,400.0	12,342.2	12,339.7	32.4	19.2	87.28	-911.0	-1,059.5	490.0	439.1	50.91	9.625 SF	
14,200.0	12,400.0	12,341.3	12,338.8	32.7	19.2	87.17	-911.0	-1,059.5	524.1	471.1	53.02	9.885	
14,300.0	12,400.0	12,340.4	12,337.9	33.0	19.2	87.07	-911.0	-1,059.5	573.8	519.6	54.17	10.592	
14,400.0	12,400.0	12,339.6	12,337.0	33.4	19.2	86.96	-911.0	-1,059.4	635.5	580.9	54.62	11.634	
14,500.0	12,400.0	12,338.7	12,336.2	33.8	19.2	86.86	-911.0	-1,059.4	706.0	651.3	54.65	12.919	
14,600.0	12,400.0	12,337.8	12,335.3	34.2	19.2	86.75	-911.0	-1,059.3	782.9	728.5	54.44	14.381	
14,700.0	12,400.0	12,337.0	12,334.5	34.6	19.2	86.65	-911.0	-1,059.3	864.6	810.5	54.13	15.972	
14,800.0	12,400.0	12,336.2	12,333.6	35.1	19.2	86.55	-911.1	-1,059.3	949.8	896.0	53.79	17.658	

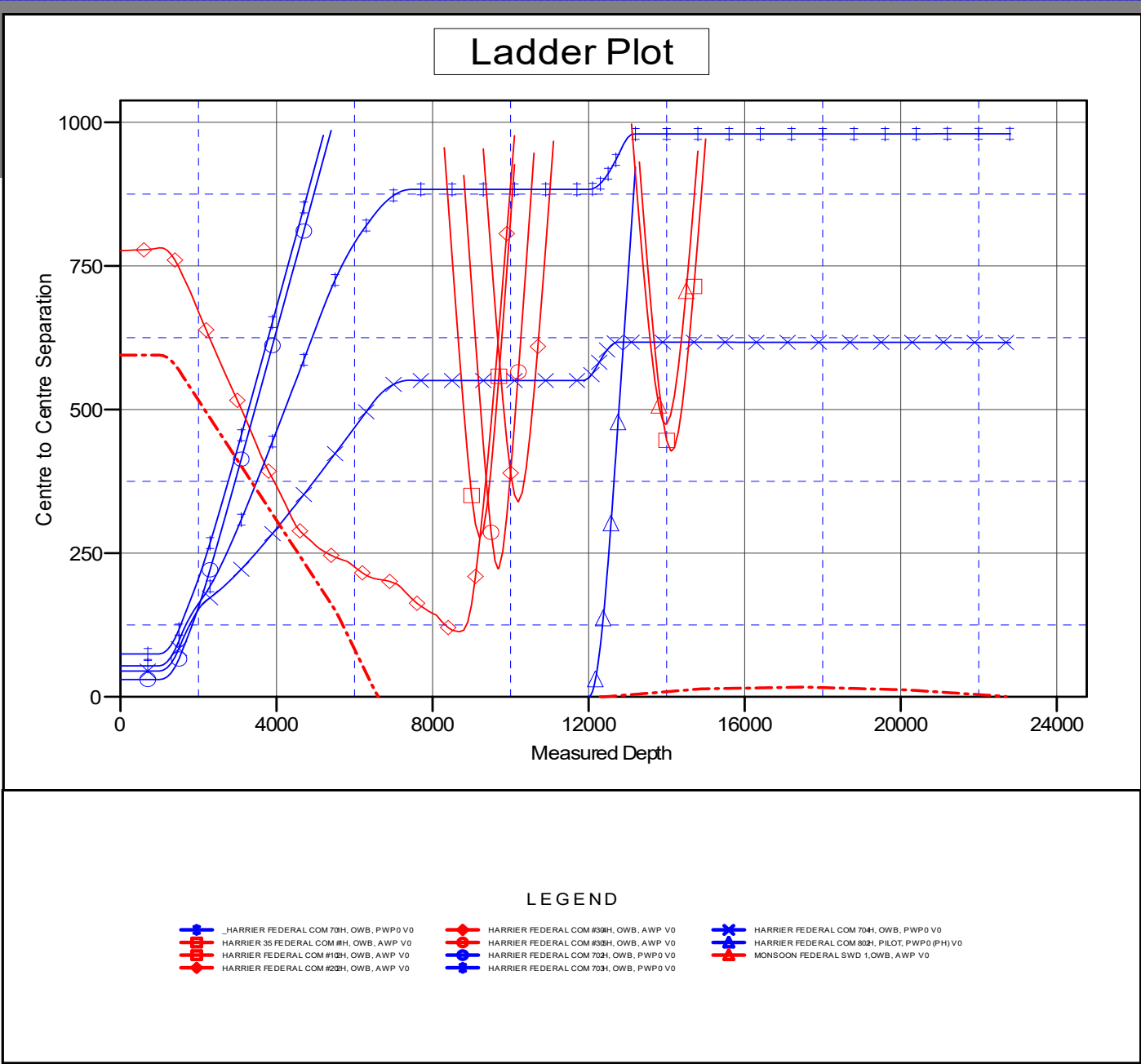
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	HARRIER FEDERAL COM 802H	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 @ 3398.8usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: HARRIER FEDERAL COM 802H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.36°



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

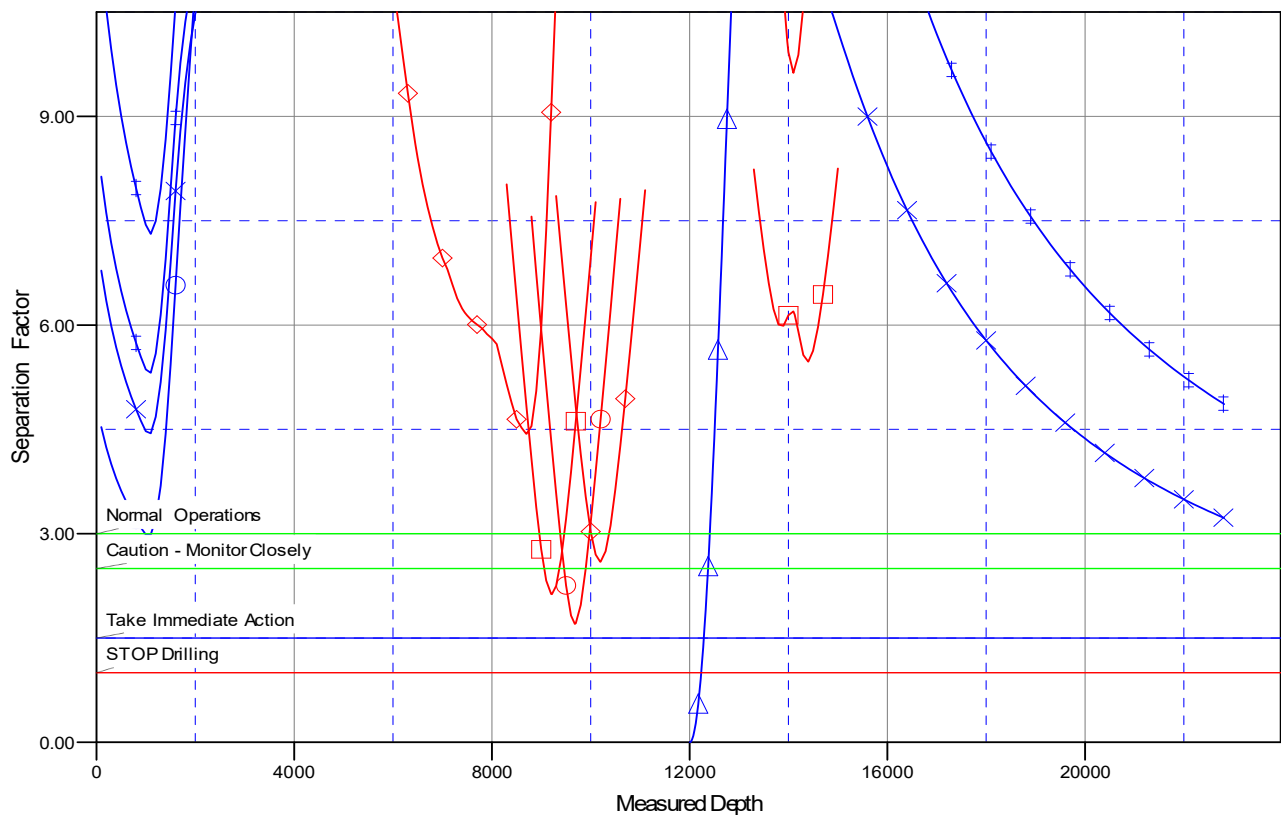
ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well HARRIER FEDERAL COM 802H
Project:	LEA COUNT SOUTH WEST (NM-E)	TVD Reference:	KB=32ft @ 3398.8usft
Reference Site:	HARRIER FEDERAL PROJECT	MD Reference:	KB=32ft @ 3398.8usft
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Reference Well:	HARRIER FEDERAL COM 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
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Reference Depths are relative to KB=32ft @ 3398.8usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: HARRIER FEDERAL COM 802H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.36°

Separation Factor Plot



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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 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 319197

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 319197
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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