

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

5. Lease Serial No. NMNM136217

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
COG OPERATING LLC

3a. Address 600 West Illinois Ave, Midland, TX 79701

3b. Phone No. (include area code)
(432) 683-74434. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 35/T23S/R32E/NMP

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

8. Well Name and No. BEDLINGTON FEDERAL COM/7021

9. API Well No.

10. Field and Pool or Exploratory Area
Draper Mill/WC-025 G-09 S253236A; Upper Wolfcamp11. Country or Parish, State
LEA/NM

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

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

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

BHL Change from 50' FNL & 995' FWL TO: 50' FNL & 1315' FWL 26-23S-32E Lea Co NM.

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

Signature

Date 01/14/2021

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

Petroleum Engineer
Title

Date 01/22/2021

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

Office CARLSBAD

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

(Instructions on page 2)

Additional Information

Location of Well

0. SHL: SWSW / 225 FSL / 1745 FWL / TWSP: 23S / RANGE: 32E / SECTION: 35 / LAT: 32.2544976 / LONG: -103.6483195 (TVD: 0 feet, MD: 0 feet)

PPP: SWSW / 100 FSL / 995 FWL / TWSP: 23S / RANGE: 32E / SECTION: 35 / LAT: 32.2541478 / LONG: -103.650762 (TVD: 12229 feet, MD: 12316 feet)

PPP: SWSW / 1 FSL / 995 FWL / TWSP: 23S / RANGE: 32E / SECTION: 26 / LAT: 32.2683888 / LONG: -103.650738 (TVD: 12371 feet, MD: 17497 feet)

BHL: NWNW / 50 FNL / 1315 FWL / TWSP: 23S / RANGE: 32E / SECTION: 26 / LAT: 32.2827772 / LONG: -103.6497017 (TVD: 12384 feet, MD: 22632 feet)

CONFIDENTIAL

Well Name: BEDLINGTON FEDERAL COM	Well Location: T23S / R32E / SEC 35 / SWSW / 32.2544976 / -103.6483195	County or Parish/State: LEA / NM
Well Number: 702H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM136217	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548324	Well Status: Approved Application for Permit to Drill	Operator: COG OPERATING LLC

Operator Certification

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 submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: WAGNER**Signed on:** JAN 14, 2021 03:17 PM**Name:** COG OPERATING LLC**Title:** Regulatory Advisor**Street Address:** ONE CONCHO CENTER 600 W ILLINOIS AVENUE**City:** MIDLAND**State:** TX**Phone:** (432) 685-9158**Email address:** NOT ENTERED**Field Representative****Representative Name:****Street Address:****City:****State:****Zip:****Phone:****Email address:****BLM Point of Contact****BLM POC Name:** CHRISTOPHER WALLS**BLM POC Phone:** 5752342234**Disposition:** Approved**Signature:** Chris Walls**BLM POC Title:** Petroleum Engineer**BLM POC Email Address:** cwalls@blm.gov**Disposition Date:** 01/22/2021

District I1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720District II811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720District III1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170District IV1220 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, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☒ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

1 API Number 30-025-48324	2 Pool Code 98248	3 Pool Name WC-025 G-08 S243217P; Upper Wolfcamp
4 Property Code 329952	5 Property Name BEDLINGTON FEDERAL COM	6 Well Number 702H
7 OGRID No. 229137	8 Operator Name COG OPERATING LLC	9 Elevation 3623'

10 Surface Location

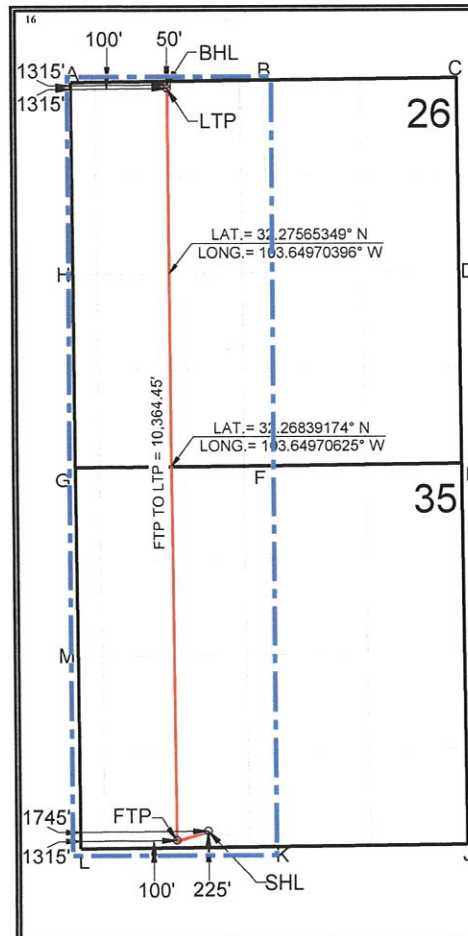
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	35	23-S	32-E		225'	SOUTH	1745'	WEST	LEA

11 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
D	26	23-S	32-E		50'	NORTH	1315'	WEST	LEA

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
640			

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.



SURFACE HOLE LOCATION (SHL)
NEW MEXICO EAST - NAD 83
X=753097.16
Y=456995.09
LAT.= 32.25449762° N
LONG.= 103.64831954° W
225' FSL, 1745' FWL
SECTION 35

FIRST TAKE POINT (FTP)
NEW MEXICO EAST - NAD 83
X=752667.90
Y=456866.07
LAT.= 32.25415051° N
LONG.= 103.64971072° W
100' FSL, 1315' FWL
SECTION 35

LAST TAKE POINT (LTP)
NEW MEXICO EAST - NAD 83
X=752604.65
Y=467230.34
LAT.= 32.28263977° N
LONG.= 103.64970174° W
100' FNL, 1315' FWL
SECTION 26

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST - NAD 83
X=752604.33
Y=467280.34
LAT.= 32.28277721° N
LONG.= 103.64970174° W
50' FNL, 1315' FWL
SECTION 26

17 OPERATOR CERTIFICATION

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

Stan Wagner 1/13/2021
Signature Date

Stan Wagner
Printed Name

E-mail Address

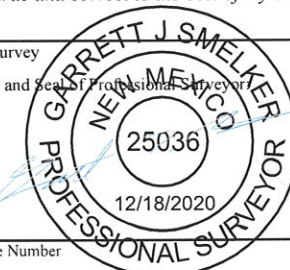
18 SURVEYOR CERTIFICATION

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

Date of Survey

Signature and Seal of Professional Surveyor

Certificate Number



Intent ☒ As Drilled ☐

API # 30-025-48324		
Operator Name: COG Operating LLC	Property Name: Bedlington Federal Com	Well Number 702H

Kick Off Point (KOP)

UL N	Section 35	Township 23S	Range 32E	Lot	Feet	From N/S	Feet	From E/W	County Lea
Latitude					Longitude				NAD 83

First Take Point (FTP)

UL M	Section 35	Township 23S	Range 32E	Lot	Feet 100	From N/S South	Feet 1315	From E/W West	County Lea
Latitude 32.25415051					Longitude -103.64971072				NAD NAD 83

Last Take Point (LTP)

UL D	Section 26	Township 23S	Range 32E	Lot	Feet 100	From N/S North	Feet 1315	From E/W West	County Lea
Latitude 32.28263977					Longitude -103.64970174				NAD NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☒ YesIs this well an infill well? ☐ No

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API # 30-025-48324		
Operator Name: COG Operating LLC	Property Name: Bedlington Federal Com	Well Number 702H

KZ 06/29/2018

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)
BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)
BEDLINGTON FED COM 702H

OWB
PWP2

Anticollision Report

08 January, 2021

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Reference	PWP2
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	Stations
Depth Range:	Unlimited
Results Limited by:	Maximum ellipse separation of 2,000.0 usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Pedal Curve
Casing Method:	Not applied

Survey Tool Program		Date	1/8/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,787.0	PWP2 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,787.0	22,599.4	PWP2 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)						
BEDLINGTON FED COM 201H - OWB - PWP2	2,416.0	2,418.0	206.3	197.8	24.153	CC
BEDLINGTON FED COM 201H - OWB - PWP2	2,500.0	2,502.0	206.3	197.6	23.721	ES
BEDLINGTON FED COM 201H - OWB - PWP2	3,200.0	3,196.3	220.2	210.3	22.233	SF
BEDLINGTON FED COM 202H - OWB - PWP2	8,940.7	8,948.4	39.9	23.3	2.403	CC, ES, SF
BEDLINGTON FED COM 301H - OWB - PWP1	2,500.0	2,500.0	289.4	276.3	21.996	CC, ES
BEDLINGTON FED COM 301H - OWB - PWP1	9,200.0	9,150.0	747.3	706.1	18.151	SF
BEDLINGTON FED COM 302H - OWB - PWP1	2,500.0	2,500.0	268.6	260.6	33.627	CC, ES
BEDLINGTON FED COM 302H - OWB - PWP1	9,300.0	9,258.3	446.6	428.0	24.094	SF
BEDLINGTON FED COM 303H - OWB - PWP1	6,783.0	6,791.2	197.8	166.0	6.208	CC
BEDLINGTON FED COM 303H - OWB - PWP1	6,800.0	6,808.0	197.8	165.9	6.199	ES
BEDLINGTON FED COM 303H - OWB - PWP1	7,000.0	7,006.3	199.8	167.4	6.159	SF
BEDLINGTON FED COM 501H - OWB - PWP1	2,500.0	2,499.0	290.0	283.1	42.041	CC, ES
BEDLINGTON FED COM 501H - OWB - PWP1	10,900.0	10,482.7	924.9	897.6	33.859	SF
BEDLINGTON FED COM 502H - OWB - PWP1	2,500.0	2,499.0	260.0	247.3	20.499	CC, ES
BEDLINGTON FED COM 502H - OWB - PWP1	10,600.0	10,582.6	378.0	331.2	8.073	SF
BEDLINGTON FED COM 503H - OWB - PWP1	6,382.3	6,384.5	54.9	41.5	4.101	CC, ES, SF
BEDLINGTON FED COM 701H - OWB - PWP2	2,500.0	2,500.0	30.0	23.1	4.345	CC, ES, SF
BEDLINGTON FED COM 703H - OWB - PWP2	5,500.0	5,500.0	30.0	20.3	3.102	CC, ES, SF

BEDLINGTON FEDERAL PROJECT (BULLDOG 2332) - BEDLINGTON FED COM 201H - OWB - PWP										Offset Site Error:		3.0 usft	
Survey Program: 0-Standard Keeper 104, 9013-MWD+IFR1+FDIR										Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	2.0	2.0	3.0	3.0	13.72	200.4	48.9	206.3				
100.0	100.0	102.0	102.0	3.0	3.0	13.72	200.4	48.9	206.3	200.3	6.00	34.381	
200.0	200.0	202.0	202.0	3.0	3.0	13.72	200.4	48.9	206.3	200.3	6.01	34.325	
300.0	300.0	302.0	302.0	3.0	3.0	13.72	200.4	48.9	206.3	200.3	6.03	34.207	
400.0	400.0	402.0	402.0	3.0	3.0	13.72	200.4	48.9	206.3	200.3	6.06	34.028	
500.0	500.0	502.0	502.0	3.1	3.1	13.72	200.4	48.9	206.3	200.2	6.11	33.791	
600.0	600.0	602.0	602.0	3.1	3.1	13.72	200.4	48.9	206.3	200.2	6.16	33.499	
700.0	700.0	702.0	702.0	3.1	3.1	13.72	200.4	48.9	206.3	200.1	6.22	33.158	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 9013-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
800.0	800.0	802.0	802.0	3.2	3.2	13.72	200.4	48.9	206.3	200.0	6.30	32.772		
900.0	900.0	902.0	902.0	3.2	3.2	13.72	200.4	48.9	206.3	199.9	6.38	32.346		
1,000.0	1,000.0	1,002.0	1,002.0	3.2	3.2	13.72	200.4	48.9	206.3	199.8	6.47	31.885		
1,100.0	1,100.0	1,102.0	1,102.0	3.3	3.3	13.72	200.4	48.9	206.3	199.7	6.57	31.394		
1,200.0	1,200.0	1,202.0	1,202.0	3.4	3.4	13.72	200.4	48.9	206.3	199.6	6.68	30.880		
1,300.0	1,300.0	1,302.0	1,302.0	3.4	3.4	13.72	200.4	48.9	206.3	199.5	6.80	30.346		
1,400.0	1,400.0	1,402.0	1,402.0	3.5	3.5	13.72	200.4	48.9	206.3	199.4	6.92	29.797		
1,500.0	1,500.0	1,502.0	1,502.0	3.5	3.5	13.72	200.4	48.9	206.3	199.3	7.06	29.237		
1,600.0	1,600.0	1,602.0	1,602.0	3.6	3.6	13.72	200.4	48.9	206.3	199.1	7.20	28.671		
1,700.0	1,700.0	1,702.0	1,702.0	3.7	3.7	13.72	200.4	48.9	206.3	199.0	7.34	28.102		
1,800.0	1,800.0	1,802.0	1,802.0	3.8	3.8	13.72	200.4	48.9	206.3	198.8	7.49	27.533		
1,900.0	1,900.0	1,902.0	1,902.0	3.9	3.9	13.72	200.4	48.9	206.3	198.7	7.65	26.966		
2,000.0	2,000.0	2,002.0	2,002.0	3.9	3.9	13.72	200.4	48.9	206.3	198.5	7.81	26.404		
2,100.0	2,100.0	2,102.0	2,102.0	4.0	4.0	13.72	200.4	48.9	206.3	198.3	7.98	25.848		
2,200.0	2,200.0	2,202.0	2,202.0	4.1	4.1	13.72	200.4	48.9	206.3	198.2	8.15	25.301		
2,300.0	2,300.0	2,302.0	2,302.0	4.2	4.2	13.72	200.4	48.9	206.3	198.0	8.33	24.763		
2,400.0	2,400.0	2,402.0	2,402.0	4.3	4.3	13.72	200.4	48.9	206.3	197.8	8.51	24.236		
2,416.0	2,416.0	2,418.0	2,418.0	4.3	4.3	13.72	200.4	48.9	206.3	197.8	8.54	24.153 CC		
2,500.0	2,500.0	2,502.0	2,502.0	4.4	4.4	13.72	200.4	48.9	206.3	197.6	8.70	23.721 ES		
2,600.0	2,600.0	2,601.2	2,601.1	4.5	4.5	13.23	201.0	47.3	206.5	197.7	8.86	23.302		
2,700.0	2,700.0	2,700.0	2,699.8	4.6	4.5	11.80	202.8	42.4	207.2	198.2	9.02	22.981		
2,800.0	2,800.0	2,798.6	2,798.0	4.7	4.6	9.47	205.7	34.3	208.6	199.4	9.19	22.710		
2,900.0	2,900.0	2,898.0	2,896.9	4.8	4.6	6.69	209.3	24.6	210.8	201.4	9.37	22.507		
3,000.0	3,000.0	2,997.4	2,995.8	4.9	4.7	3.97	212.9	14.8	213.5	203.9	9.55	22.362		
3,100.0	3,100.0	3,096.9	3,094.7	5.0	4.8	1.33	216.4	5.0	216.6	206.9	9.72	22.272		
3,200.0	3,200.0	3,196.3	3,193.6	5.1	4.8	-1.24	220.0	-4.7	220.2	210.3	9.90	22.233 SF		
3,300.0	3,300.0	3,295.8	3,292.5	5.2	4.9	-3.72	223.5	-14.5	224.2	214.1	10.08	22.242		
3,400.0	3,400.0	3,395.2	3,391.4	5.3	5.0	-6.10	227.1	-24.3	228.6	218.4	10.26	22.293		
3,500.0	3,500.0	3,494.7	3,490.3	5.4	5.0	-8.40	230.6	-34.1	233.4	223.0	10.43	22.383		
3,600.0	3,600.0	3,594.2	3,589.3	5.5	5.1	-10.60	234.2	-43.8	238.6	228.0	10.60	22.507		
3,700.0	3,700.0	3,693.6	3,688.2	5.7	5.2	-12.70	237.7	-53.6	244.1	233.3	10.77	22.663		
3,800.0	3,800.0	3,793.1	3,787.1	5.8	5.3	-14.71	241.3	-63.4	249.9	239.0	10.94	22.845		
3,900.0	3,900.0	3,892.5	3,886.0	5.9	5.4	-16.63	244.9	-73.1	256.0	244.9	11.11	23.051		
4,000.0	4,000.0	3,992.0	3,984.9	6.0	5.5	-18.45	248.4	-82.9	262.4	251.2	11.27	23.278		
4,100.0	4,100.0	4,091.4	4,083.8	6.1	5.5	-20.19	252.0	-92.7	269.1	257.6	11.44	23.522		
4,200.0	4,200.0	4,190.9	4,182.7	6.2	5.6	-21.84	255.5	-102.4	276.0	264.4	11.60	23.782		
4,300.0	4,300.0	4,290.3	4,281.6	6.3	5.7	-23.42	259.1	-112.2	283.1	271.3	11.77	24.053		
4,400.0	4,400.0	4,389.8	4,380.5	6.5	5.8	-24.91	262.6	-122.0	290.4	278.4	11.93	24.335		
4,500.0	4,500.0	4,489.2	4,479.4	6.6	5.9	-26.33	266.2	-131.7	297.9	285.8	12.10	24.625		
4,600.0	4,600.0	4,588.7	4,578.3	6.7	6.0	-27.68	269.7	-141.5	305.5	293.3	12.26	24.922		
4,700.0	4,700.0	4,688.1	4,677.2	6.8	6.1	-28.97	273.3	-151.3	313.4	300.9	12.42	25.223		
4,800.0	4,800.0	4,787.6	4,776.1	6.9	6.2	-30.19	276.9	-161.0	321.3	308.7	12.59	25.528		
4,900.0	4,900.0	4,887.0	4,875.0	7.0	6.3	-31.35	280.4	-170.8	329.4	316.7	12.75	25.836		
5,000.0	5,000.0	4,986.5	4,974.0	7.2	6.4	-32.45	284.0	-180.6	337.7	324.8	12.92	26.145		
5,100.0	5,100.0	5,085.9	5,072.9	7.3	6.5	-33.51	287.5	-190.4	346.1	333.0	13.08	26.454		
5,200.0	5,200.0	5,185.4	5,171.8	7.4	6.6	-34.51	291.1	-200.1	354.5	341.3	13.25	26.762		
5,300.0	5,300.0	5,284.8	5,270.7	7.5	6.7	-35.47	294.6	-209.9	363.1	349.7	13.41	27.070		
5,400.0	5,400.0	5,384.3	5,369.6	7.6	6.8	-36.38	298.2	-219.7	371.8	358.2	13.58	27.375		
5,500.0	5,500.0	5,483.7	5,468.5	7.8	6.9	-37.25	301.7	-229.4	380.5	366.8	13.75	27.678		
5,600.0	5,600.0	5,583.3	5,567.5	7.8	7.0	82.26	305.3	-239.2	389.1	375.2	13.90	27.988		
5,660.3	5,660.2	5,643.4	5,627.3	7.8	7.1	82.07	307.5	-245.1	394.1	380.1	14.00	28.161		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 9013-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,700.0	5,699.9	5,683.0	5,666.6	7.8	7.1	82.07	308.9	-249.0	397.3	383.3	14.06	28.263		
5,800.0	5,799.7	5,782.6	5,765.7	7.8	7.2	82.07	312.4	-258.8	405.5	391.2	14.22	28.515		
5,900.0	5,899.5	5,882.3	5,864.9	7.8	7.3	82.07	316.0	-268.6	413.6	399.2	14.38	28.759		
6,000.0	5,999.4	5,982.0	5,964.0	7.8	7.4	82.07	319.6	-278.4	421.7	407.1	14.54	28.996		
6,100.0	6,099.2	6,081.6	6,063.1	7.8	7.6	82.08	323.1	-288.2	429.8	415.1	14.71	29.225		
6,200.0	6,199.1	6,181.3	6,162.2	7.8	7.7	82.08	326.7	-297.9	437.9	423.0	14.87	29.448		
6,300.0	6,298.9	6,281.0	6,261.4	7.8	7.8	82.08	330.2	-307.7	446.0	431.0	15.04	29.664		
6,400.0	6,398.8	6,380.6	6,360.5	7.8	7.9	82.08	333.8	-317.5	454.1	438.9	15.20	29.873		
6,500.0	6,498.6	6,480.3	6,459.6	7.8	8.0	82.08	337.4	-327.3	462.3	446.9	15.37	30.076		
6,600.0	6,598.4	6,580.0	6,558.7	7.9	8.1	82.08	340.9	-337.1	470.4	454.8	15.54	30.273		
6,700.0	6,698.3	6,679.7	6,657.9	7.9	8.2	82.08	344.5	-346.9	478.5	462.8	15.71	30.464		
6,800.0	6,798.1	6,779.3	6,757.0	7.9	8.3	82.08	348.1	-356.7	486.6	470.7	15.88	30.649		
6,900.0	6,898.0	6,879.0	6,856.1	7.9	8.5	82.08	351.6	-366.5	494.7	478.7	16.05	30.828		
7,000.0	6,997.8	6,978.7	6,955.2	7.9	8.6	82.09	355.2	-376.3	502.8	486.6	16.22	31.002		
7,100.0	7,097.7	7,078.3	7,054.3	8.0	8.7	82.09	358.8	-386.1	510.9	494.5	16.39	31.171		
7,200.0	7,197.5	7,178.0	7,153.5	8.0	8.8	82.09	362.3	-395.8	519.1	502.5	16.56	31.334		
7,300.0	7,297.3	7,277.7	7,252.6	8.0	8.9	82.09	365.9	-405.6	527.2	510.4	16.74	31.493		
7,400.0	7,397.2	7,377.3	7,351.7	8.0	9.0	82.09	369.4	-415.4	535.3	518.4	16.91	31.646		
7,500.0	7,497.0	7,477.0	7,450.8	8.1	9.2	82.09	373.0	-425.2	543.4	526.3	17.09	31.795		
7,600.0	7,596.9	7,576.7	7,550.0	8.1	9.3	82.09	376.6	-435.0	551.5	534.2	17.27	31.939		
7,700.0	7,696.7	7,676.4	7,649.1	8.2	9.4	82.09	380.1	-444.8	559.6	542.2	17.44	32.079		
7,800.0	7,796.6	7,776.0	7,748.2	8.2	9.5	82.09	383.7	-454.6	567.7	550.1	17.62	32.215		
7,900.0	7,896.4	7,875.7	7,847.3	8.2	9.6	82.09	387.3	-464.4	575.8	558.0	17.80	32.346		
8,000.0	7,996.3	7,975.4	7,946.5	8.3	9.8	82.09	390.8	-474.2	584.0	566.0	17.98	32.473		
8,100.0	8,096.1	8,075.0	8,045.6	8.3	9.9	82.09	394.4	-484.0	592.1	573.9	18.16	32.596		
8,200.0	8,195.9	8,174.7	8,144.7	8.4	10.0	82.09	397.9	-493.7	600.2	581.8	18.35	32.716		
8,300.0	8,295.8	8,274.4	8,243.8	8.4	10.1	82.09	401.5	-503.5	608.3	589.8	18.53	32.831		
8,400.0	8,395.6	8,374.0	8,343.0	8.5	10.2	82.10	405.1	-513.3	616.4	597.7	18.71	32.943		
8,500.0	8,495.5	8,473.7	8,442.1	8.5	10.4	82.10	408.6	-523.1	624.5	605.6	18.90	33.051		
8,600.0	8,595.3	8,573.4	8,541.2	8.6	10.5	82.10	412.2	-532.9	632.6	613.6	19.08	33.156		
8,700.0	8,695.2	8,673.1	8,640.3	8.6	10.6	82.10	415.8	-542.7	640.8	621.5	19.27	33.257		
8,800.0	8,795.0	8,772.7	8,739.5	8.7	10.7	82.10	419.3	-552.5	648.9	629.4	19.45	33.356		
8,900.0	8,894.8	8,872.4	8,838.6	8.8	10.9	82.10	422.9	-562.3	657.0	637.3	19.64	33.451		
9,000.0	8,994.7	8,972.1	8,937.7	8.8	11.0	82.10	426.5	-572.1	665.1	645.3	19.83	33.543		
9,100.0	9,094.5	9,050.0	9,015.1	8.9	11.1	82.13	430.3	-580.1	674.7	654.7	20.01	33.723		
9,200.0	9,194.4	9,100.0	9,064.2	8.9	11.1	82.26	437.1	-587.0	691.4	671.0	20.36	33.963		
9,300.0	9,294.2	9,131.2	9,094.3	9.0	11.1	82.38	443.4	-592.0	715.0	694.0	21.05	33.975		
9,400.0	9,394.1	9,173.8	9,134.7	9.1	11.1	82.62	454.4	-599.8	746.1	724.3	21.78	34.249		
9,500.0	9,493.9	9,200.0	9,159.0	9.2	11.1	82.79	462.5	-605.1	784.0	761.2	22.83	34.338		
9,600.0	9,593.7	9,250.0	9,204.1	9.2	11.2	83.17	480.9	-616.3	827.4	803.9	23.58	35.096		
9,700.0	9,693.6	9,300.0	9,247.2	9.3	11.2	83.61	503.0	-628.8	877.0	852.6	24.31	36.069		
9,800.0	9,793.4	9,320.3	9,264.0	9.4	11.2	83.80	513.0	-634.2	931.1	905.6	25.47	36.561		
9,900.0	9,893.3	9,350.0	9,287.9	9.4	11.3	84.09	528.6	-642.4	989.9	963.5	26.43	37.451		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design		BEDLINGTON FEDERAL PROJECT (BULLDOG 2332) - BEDLINGTON FED COM 202H - OWB - PWP										Offset Site Error:		3.0 usft	
Survey Program:		0-Standard Keeper 104, 8932-MWD+IFR1+FDIR										Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis		Distance								Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.0	0.0	2.0	2.0	3.0	3.0	21.46	200.7	78.9	215.7						
100.0	100.0	102.0	102.0	3.0	3.0	21.46	200.7	78.9	215.7	209.7	6.00	35.944			
200.0	200.0	202.0	202.0	3.0	3.0	21.46	200.7	78.9	215.7	209.7	6.01	35.889			
300.0	300.0	302.0	302.0	3.0	3.0	21.46	200.7	78.9	215.7	209.7	6.03	35.772			
400.0	400.0	402.0	402.0	3.0	3.0	21.46	200.7	78.9	215.7	209.6	6.06	35.595			
500.0	500.0	502.0	502.0	3.1	3.1	21.46	200.7	78.9	215.7	209.6	6.10	35.361			
600.0	600.0	602.0	602.0	3.1	3.1	21.46	200.7	78.9	215.7	209.5	6.15	35.073			
700.0	700.0	702.0	702.0	3.1	3.1	21.46	200.7	78.9	215.7	209.5	6.21	34.735			
800.0	800.0	802.0	802.0	3.2	3.2	21.46	200.7	78.9	215.7	209.4	6.28	34.352			
900.0	900.0	902.0	902.0	3.2	3.2	21.46	200.7	78.9	215.7	209.3	6.36	33.929			
1,000.0	1,000.0	1,002.0	1,002.0	3.2	3.2	21.46	200.7	78.9	215.7	209.2	6.44	33.470			
1,100.0	1,100.0	1,102.0	1,102.0	3.3	3.3	21.46	200.7	78.9	215.7	209.1	6.54	32.981			
1,200.0	1,200.0	1,202.0	1,202.0	3.4	3.4	21.46	200.7	78.9	215.7	209.0	6.64	32.466			
1,300.0	1,300.0	1,302.0	1,302.0	3.4	3.4	21.46	200.7	78.9	215.7	208.9	6.76	31.930			
1,400.0	1,400.0	1,402.0	1,402.0	3.5	3.5	21.46	200.7	78.9	215.7	208.8	6.87	31.379			
1,500.0	1,500.0	1,502.0	1,502.0	3.5	3.5	21.46	200.7	78.9	215.7	208.7	7.00	30.815			
1,600.0	1,600.0	1,602.0	1,602.0	3.6	3.6	21.46	200.7	78.9	215.7	208.6	7.13	30.243			
1,700.0	1,700.0	1,702.0	1,702.0	3.7	3.7	21.46	200.7	78.9	215.7	208.4	7.27	29.667			
1,800.0	1,800.0	1,802.0	1,802.0	3.8	3.8	21.46	200.7	78.9	215.7	208.3	7.41	29.089			
1,900.0	1,900.0	1,902.0	1,902.0	3.9	3.9	21.46	200.7	78.9	215.7	208.1	7.56	28.512			
2,000.0	2,000.0	2,002.0	2,002.0	3.9	3.9	21.46	200.7	78.9	215.7	208.0	7.72	27.939			
2,100.0	2,100.0	2,102.0	2,102.0	4.0	4.0	21.46	200.7	78.9	215.7	207.8	7.88	27.371			
2,200.0	2,200.0	2,202.0	2,202.0	4.1	4.1	21.46	200.7	78.9	215.7	207.6	8.04	26.810			
2,300.0	2,300.0	2,302.0	2,302.0	4.2	4.2	21.46	200.7	78.9	215.7	207.5	8.21	26.259			
2,400.0	2,400.0	2,402.0	2,402.0	4.3	4.3	21.46	200.7	78.9	215.7	207.3	8.39	25.716			
2,500.0	2,500.0	2,502.1	2,502.1	4.4	4.4	21.46	200.7	78.9	215.7	207.1	8.56	25.188			
2,600.0	2,600.0	2,609.5	2,609.5	4.5	4.4	21.24	199.3	77.4	213.9	205.2	8.68	24.638			
2,700.0	2,700.0	2,714.1	2,713.9	4.6	4.4	20.61	195.2	73.4	208.9	200.2	8.75	23.864			
2,800.0	2,800.0	2,813.9	2,813.5	4.7	4.4	19.90	190.8	69.1	203.2	194.4	8.84	22.991			
2,900.0	2,900.0	2,913.7	2,913.1	4.8	4.4	19.14	186.4	64.7	197.6	188.7	8.93	22.123			
3,000.0	3,000.0	3,013.5	3,012.7	4.9	4.4	18.34	182.0	60.3	192.0	183.0	9.03	21.262			
3,100.0	3,100.0	3,113.3	3,112.3	5.0	4.4	17.49	177.5	55.9	186.4	177.3	9.13	20.410			
3,200.0	3,200.0	3,213.1	3,211.9	5.1	4.4	16.59	173.1	51.6	180.9	171.7	9.25	19.569			
3,300.0	3,300.0	3,312.9	3,311.6	5.2	4.4	15.63	168.7	47.2	175.4	166.1	9.36	18.742			
3,400.0	3,400.0	3,412.7	3,411.2	5.3	4.4	14.61	164.3	42.8	170.0	160.5	9.48	17.929			
3,500.0	3,500.0	3,512.5	3,510.8	5.4	4.4	13.53	159.9	38.5	164.7	155.1	9.61	17.133			
3,600.0	3,600.0	3,612.3	3,610.4	5.5	4.4	12.37	155.5	34.1	159.4	149.6	9.74	16.355			
3,700.0	3,700.0	3,712.1	3,710.0	5.7	4.5	11.13	151.0	29.7	154.1	144.3	9.88	15.597			
3,800.0	3,800.0	3,811.9	3,809.6	5.8	4.5	9.81	146.6	25.3	149.0	139.0	10.03	14.860			
3,900.0	3,900.0	3,911.7	3,909.2	5.9	4.5	8.39	142.2	21.0	143.9	133.8	10.17	14.147			
4,000.0	4,000.0	4,011.5	4,008.8	6.0	4.6	6.87	137.8	16.6	139.0	128.6	10.33	13.457			
4,100.0	4,100.0	4,111.3	4,108.5	6.1	4.6	5.24	133.4	12.2	134.1	123.6	10.48	12.794			
4,200.0	4,200.0	4,211.2	4,208.1	6.2	4.6	3.49	129.0	7.9	129.3	118.7	10.64	12.158			
4,300.0	4,300.0	4,311.0	4,307.7	6.3	4.7	1.61	124.5	3.5	124.7	113.9	10.80	11.551			
4,400.0	4,400.0	4,410.8	4,407.3	6.5	4.7	-0.42	120.1	-0.9	120.2	109.3	10.96	10.974			
4,500.0	4,500.0	4,510.6	4,506.9	6.6	4.8	-2.60	115.7	-5.3	115.9	104.8	11.12	10.428			
4,600.0	4,600.0	4,610.4	4,606.5	6.7	4.8	-4.94	111.3	-9.6	111.8	100.5	11.27	9.917			
4,700.0	4,700.0	4,710.2	4,706.1	6.8	4.9	-7.46	106.9	-14.0	107.9	96.4	11.43	9.440			
4,800.0	4,800.0	4,810.0	4,805.7	6.9	5.0	-10.16	102.4	-18.4	104.1	92.6	11.57	9.000			
4,900.0	4,900.0	4,909.8	4,905.3	7.0	5.0	-13.06	98.0	-22.7	100.7	89.0	11.71	8.599			
5,000.0	5,000.0	5,009.6	5,005.0	7.2	5.1	-16.15	93.6	-27.1	97.5	85.7	11.84	8.238			

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8932-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.0	5,100.0	5,109.4	5,104.6	7.3	5.2	-19.44	89.2	-31.5	94.6	82.7	11.95	7.920	
5,200.0	5,200.0	5,209.2	5,204.2	7.4	5.2	-22.92	84.8	-35.9	92.1	80.0	12.04	7.645	
5,300.0	5,300.0	5,309.0	5,303.8	7.5	5.3	-26.59	80.4	-40.2	89.9	77.8	12.12	7.417	
5,400.0	5,400.0	5,408.8	5,403.4	7.6	5.4	-30.42	75.9	-44.6	88.1	75.9	12.17	7.235	
5,500.0	5,500.0	5,508.6	5,503.0	7.8	5.4	-34.40	71.5	-49.0	86.7	74.5	12.21	7.102	
5,600.0	5,600.0	5,608.5	5,602.7	7.8	5.5	82.95	67.1	-53.3	85.5	73.3	12.23	6.988	
5,660.3	5,660.2	5,668.8	5,662.9	7.8	5.6	82.29	64.4	-56.0	84.6	72.4	12.27	6.896	
5,700.0	5,699.9	5,708.5	5,702.5	7.8	5.6	82.12	62.7	-57.7	84.0	71.7	12.31	6.826	
5,800.0	5,799.7	5,808.5	5,802.3	7.8	5.7	81.68	58.3	-62.1	82.5	70.1	12.40	6.650	
5,900.0	5,899.5	5,908.5	5,902.1	7.8	5.8	81.22	53.8	-66.5	81.0	68.5	12.50	6.476	
6,000.0	5,999.4	6,008.5	6,001.9	7.8	5.9	80.74	49.4	-70.9	79.4	66.8	12.60	6.304	
6,100.0	6,099.2	6,108.4	6,101.7	7.8	5.9	80.24	45.0	-75.2	77.9	65.2	12.70	6.134	
6,200.0	6,199.1	6,208.4	6,201.5	7.8	6.0	79.72	40.6	-79.6	76.4	63.6	12.80	5.966	
6,300.0	6,298.9	6,308.4	6,301.3	7.8	6.1	79.19	36.1	-84.0	74.9	62.0	12.91	5.800	
6,400.0	6,398.8	6,408.4	6,401.0	7.8	6.2	78.63	31.7	-88.4	73.4	60.3	13.02	5.637	
6,500.0	6,498.6	6,508.4	6,500.8	7.8	6.3	78.04	27.3	-92.8	71.9	58.7	13.13	5.475	
6,600.0	6,598.4	6,608.4	6,600.6	7.9	6.4	77.44	22.9	-97.1	70.4	57.1	13.24	5.316	
6,700.0	6,698.3	6,708.4	6,700.4	7.9	6.5	76.80	18.4	-101.5	68.9	55.5	13.35	5.159	
6,800.0	6,798.1	6,808.3	6,800.2	7.9	6.6	76.14	14.0	-105.9	67.4	53.9	13.47	5.005	
6,900.0	6,898.0	6,908.3	6,900.0	7.9	6.7	75.45	9.6	-110.3	66.0	52.4	13.59	4.853	
7,000.0	6,997.8	7,008.3	6,999.8	7.9	6.8	74.72	5.2	-114.7	64.5	50.8	13.71	4.703	
7,100.0	7,097.7	7,108.3	7,099.6	8.0	6.9	73.97	0.7	-119.0	63.1	49.2	13.84	4.557	
7,200.0	7,197.5	7,208.3	7,199.4	8.0	7.0	73.18	-3.7	-123.4	61.6	47.7	13.97	4.412	
7,300.0	7,297.3	7,308.3	7,299.2	8.0	7.1	72.35	-8.1	-127.8	60.2	46.1	14.10	4.271	
7,400.0	7,397.2	7,408.3	7,399.0	8.0	7.2	71.48	-12.6	-132.2	58.8	44.6	14.23	4.132	
7,500.0	7,497.0	7,508.2	7,498.8	8.1	7.3	70.57	-17.0	-136.5	57.4	43.0	14.37	3.996	
7,600.0	7,596.9	7,608.2	7,598.6	8.1	7.4	69.61	-21.4	-140.9	56.0	41.5	14.50	3.863	
7,700.0	7,696.7	7,708.2	7,698.3	8.2	7.5	68.61	-25.8	-145.3	54.7	40.0	14.65	3.733	
7,800.0	7,796.6	7,808.2	7,798.1	8.2	7.6	67.55	-30.3	-149.7	53.3	38.5	14.79	3.606	
7,900.0	7,896.4	7,908.2	7,897.9	8.2	7.7	66.45	-34.7	-154.1	52.0	37.1	14.94	3.482	
8,000.0	7,996.3	8,008.2	7,997.7	8.3	7.8	65.28	-39.1	-158.4	50.7	35.6	15.09	3.361	
8,100.0	8,096.1	8,108.2	8,097.5	8.3	7.9	64.05	-43.5	-162.8	49.4	34.2	15.24	3.244	
8,200.0	8,195.9	8,208.2	8,197.3	8.4	8.0	62.76	-48.0	-167.2	48.2	32.8	15.39	3.129	
8,300.0	8,295.8	8,308.1	8,297.1	8.4	8.1	61.40	-52.4	-171.6	46.9	31.4	15.55	3.018	
8,400.0	8,395.6	8,408.1	8,396.9	8.5	8.2	59.97	-56.8	-176.0	45.7	30.0	15.71	2.911	
8,500.0	8,495.5	8,508.1	8,496.7	8.5	8.3	58.46	-61.2	-180.3	44.6	28.7	15.88	2.807	
8,600.0	8,595.3	8,608.1	8,596.5	8.6	8.5	56.87	-65.7	-184.7	43.4	27.4	16.04	2.707	
8,700.0	8,695.2	8,708.1	8,696.3	8.6	8.6	55.20	-70.1	-189.1	42.3	26.1	16.21	2.611	
8,800.0	8,795.0	8,808.1	8,796.1	8.7	8.7	53.43	-74.5	-193.5	41.3	24.9	16.38	2.518	
8,900.0	8,894.8	8,908.1	8,895.8	8.8	8.8	51.58	-78.9	-197.9	40.2	23.7	16.55	2.430	
8,940.7	8,935.5	8,948.4	8,936.1	8.8	8.8	51.10	-80.5	-199.6	39.9	23.3	16.60	2.403 CC, ES, SF	
9,000.0	8,994.7	9,005.9	8,993.5	8.8	8.8	55.83	-78.6	-202.2	41.1	24.4	16.76	2.454	
9,100.0	9,094.5	9,100.0	9,086.1	8.9	8.8	74.51	-63.1	-206.4	52.3	34.7	17.55	2.978	
9,200.0	9,194.4	9,185.5	9,167.0	8.9	8.9	90.92	-36.0	-210.1	80.4	60.7	19.62	4.096	
9,300.0	9,294.2	9,261.1	9,234.6	9.0	8.9	100.31	-2.3	-213.3	124.3	102.2	22.04	5.639	
9,400.0	9,394.1	9,326.1	9,288.7	9.1	9.0	105.42	33.6	-215.9	180.2	155.9	24.29	7.419	
9,500.0	9,493.9	9,381.2	9,331.1	9.2	9.0	108.39	68.7	-218.0	245.2	218.9	26.24	9.341	
9,600.0	9,593.7	9,427.7	9,364.1	9.2	9.1	110.24	101.4	-219.7	316.9	289.0	27.89	11.361	
9,700.0	9,693.6	9,467.0	9,389.9	9.3	9.1	111.47	131.0	-221.0	393.7	364.4	29.30	13.438	
9,800.0	9,793.4	9,500.0	9,409.9	9.4	9.2	112.32	157.2	-222.1	474.6	444.1	30.49	15.564	
9,900.0	9,893.3	9,528.8	9,426.2	9.4	9.2	112.96	181.0	-222.9	558.5	527.0	31.50	17.729	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design BEDLINGTON FEDERAL PROJECT (BULLDOG 2332) - BEDLINGTON FED COM 202H - OWB - PWP													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8932-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,000.0	9,993.1	9,550.0	9,437.3	9.5	9.3	113.37	199.0	-223.5	644.9	612.5	32.46	19.866		
10,100.0	10,093.0	9,574.5	9,449.4	9.6	9.3	113.81	220.3	-224.2	733.3	700.1	33.19	22.092		
10,200.0	10,192.8	9,600.0	9,461.0	9.7	9.4	114.21	243.0	-224.9	823.3	789.5	33.81	24.351		
10,300.0	10,292.7	9,600.0	9,461.0	9.8	9.4	114.21	243.0	-224.9	914.6	879.9	34.67	26.379		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-46.83	198.0	-211.1	289.4				
100.0	100.0	100.0	100.0	3.0	3.0	-46.83	198.0	-211.1	289.4	283.4	6.00	48.211	
200.0	200.0	200.0	200.0	3.0	3.0	-46.83	198.0	-211.1	289.4	283.4	6.04	47.891	
300.0	300.0	300.0	300.0	3.0	3.1	-46.83	198.0	-211.1	289.4	283.3	6.13	47.229	
400.0	400.0	400.0	400.0	3.0	3.2	-46.83	198.0	-211.1	289.4	283.2	6.25	46.275	
500.0	500.0	500.0	500.0	3.1	3.4	-46.83	198.0	-211.1	289.4	283.0	6.42	45.092	
600.0	600.0	600.0	600.0	3.1	3.6	-46.83	198.0	-211.1	289.4	282.8	6.62	43.748	
700.0	700.0	700.0	700.0	3.1	3.8	-46.83	198.0	-211.1	289.4	282.6	6.84	42.301	
800.0	800.0	800.0	800.0	3.2	4.0	-46.83	198.0	-211.1	289.4	282.3	7.09	40.803	
900.0	900.0	900.0	900.0	3.2	4.2	-46.83	198.0	-211.1	289.4	282.1	7.37	39.293	
1,000.0	1,000.0	1,000.0	1,000.0	3.2	4.5	-46.83	198.0	-211.1	289.4	281.8	7.66	37.799	
1,100.0	1,100.0	1,100.0	1,100.0	3.3	4.8	-46.83	198.0	-211.1	289.4	281.5	7.96	36.343	
1,200.0	1,200.0	1,200.0	1,200.0	3.4	5.1	-46.83	198.0	-211.1	289.4	281.1	8.28	34.938	
1,300.0	1,300.0	1,300.0	1,300.0	3.4	5.4	-46.83	198.0	-211.1	289.4	280.8	8.62	33.591	
1,400.0	1,400.0	1,400.0	1,400.0	3.5	5.7	-46.83	198.0	-211.1	289.4	280.5	8.96	32.307	
1,500.0	1,500.0	1,500.0	1,500.0	3.5	6.0	-46.83	198.0	-211.1	289.4	280.1	9.31	31.086	
1,600.0	1,600.0	1,600.0	1,600.0	3.6	6.3	-46.83	198.0	-211.1	289.4	279.7	9.67	29.930	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	6.6	-46.83	198.0	-211.1	289.4	279.4	10.04	28.836	
1,800.0	1,800.0	1,800.0	1,800.0	3.8	6.9	-46.83	198.0	-211.1	289.4	279.0	10.41	27.802	
1,900.0	1,900.0	1,900.0	1,900.0	3.9	7.2	-46.83	198.0	-211.1	289.4	278.6	10.79	26.826	
2,000.0	2,000.0	2,000.0	2,000.0	3.9	7.6	-46.83	198.0	-211.1	289.4	278.2	11.17	25.903	
2,100.0	2,100.0	2,100.0	2,100.0	4.0	7.9	-46.83	198.0	-211.1	289.4	277.9	11.56	25.032	
2,200.0	2,200.0	2,200.0	2,200.0	4.1	8.2	-46.83	198.0	-211.1	289.4	277.5	11.96	24.208	
2,300.0	2,300.0	2,300.0	2,300.0	4.2	8.6	-46.83	198.0	-211.1	289.4	277.1	12.35	23.430	
2,400.0	2,400.0	2,400.0	2,400.0	4.3	8.9	-46.83	198.0	-211.1	289.4	276.7	12.75	22.694	
2,500.0	2,500.0	2,500.0	2,500.0	4.4	9.2	-46.83	198.0	-211.1	289.4	276.3	13.16	21.996 CC, ES	
2,600.0	2,600.0	2,593.9	2,593.9	4.5	9.5	-47.06	197.8	-212.6	290.5	276.9	13.53	21.471	
2,700.0	2,700.0	2,687.6	2,687.4	4.6	9.9	-47.75	197.3	-217.2	293.7	279.8	13.88	21.156	
2,800.0	2,800.0	2,780.9	2,780.4	4.7	10.2	-48.86	196.3	-224.7	299.1	284.8	14.22	21.032	
2,900.0	2,900.0	2,879.0	2,878.0	4.8	10.5	-50.28	195.1	-234.8	306.1	291.5	14.58	21.000	
3,000.0	3,000.0	2,978.4	2,976.9	4.9	10.8	-51.67	193.8	-245.2	313.4	298.4	14.94	20.973	
3,100.0	3,100.0	3,077.9	3,075.8	5.0	11.1	-52.99	192.6	-255.5	320.8	305.5	15.31	20.956	
3,200.0	3,200.0	3,177.3	3,174.7	5.1	11.5	-54.26	191.3	-265.8	328.5	312.8	15.68	20.948	
3,300.0	3,300.0	3,276.8	3,273.6	5.2	11.8	-55.46	190.0	-276.1	336.2	320.2	16.05	20.947	
3,400.0	3,400.0	3,376.2	3,372.5	5.3	12.1	-56.61	188.8	-286.4	344.1	327.7	16.42	20.952	
3,500.0	3,500.0	3,475.7	3,471.4	5.4	12.5	-57.71	187.5	-296.7	352.2	335.4	16.80	20.963	
3,600.0	3,600.0	3,575.1	3,570.4	5.5	12.8	-58.76	186.2	-307.1	360.4	343.2	17.18	20.979	
3,700.0	3,700.0	3,674.6	3,669.3	5.7	13.2	-59.77	185.0	-317.4	368.6	351.1	17.56	20.999	
3,800.0	3,800.0	3,774.1	3,768.2	5.8	13.5	-60.73	183.7	-327.7	377.0	359.1	17.94	21.021	
3,900.0	3,900.0	3,873.5	3,867.1	5.9	13.9	-61.64	182.4	-338.0	385.5	367.2	18.32	21.047	
4,000.0	4,000.0	3,973.0	3,966.0	6.0	14.2	-62.52	181.2	-348.3	394.1	375.4	18.70	21.075	
4,100.0	4,100.0	4,072.4	4,064.9	6.1	14.5	-63.36	179.9	-358.7	402.8	383.7	19.08	21.105	
4,200.0	4,200.0	4,171.9	4,163.8	6.2	14.9	-64.17	178.6	-369.0	411.5	392.1	19.47	21.136	
4,300.0	4,300.0	4,271.3	4,262.7	6.3	15.2	-64.94	177.4	-379.3	420.4	400.5	19.86	21.169	
4,400.0	4,400.0	4,370.8	4,361.6	6.5	15.6	-65.68	176.1	-389.6	429.3	409.0	20.25	21.202	
4,500.0	4,500.0	4,470.2	4,460.5	6.6	15.9	-66.39	174.8	-399.9	438.3	417.6	20.64	21.236	
4,600.0	4,600.0	4,569.7	4,559.4	6.7	16.3	-67.07	173.6	-410.2	447.3	426.3	21.03	21.271	
4,700.0	4,700.0	4,669.1	4,658.3	6.8	16.6	-67.72	172.3	-420.6	456.4	435.0	21.42	21.306	
4,800.0	4,800.0	4,768.6	4,757.2	6.9	17.0	-68.35	171.0	-430.9	465.6	443.7	21.81	21.341	
4,900.0	4,900.0	4,868.0	4,856.1	7.0	17.3	-68.95	169.8	-441.2	474.8	452.6	22.21	21.376	
5,000.0	5,000.0	4,967.5	4,955.1	7.2	17.7	-69.54	168.5	-451.5	484.0	461.4	22.61	21.411	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.0	5,100.0	5,066.9	5,054.0	7.3	18.0	-70.09	167.2	-461.8	493.3	470.3	23.00	21.446	
5,200.0	5,200.0	5,166.4	5,152.9	7.4	18.4	-70.63	166.0	-472.2	502.7	479.3	23.40	21.481	
5,300.0	5,300.0	5,265.8	5,251.8	7.5	18.8	-71.15	164.7	-482.5	512.1	488.3	23.80	21.515	
5,400.0	5,400.0	5,365.3	5,350.7	7.6	19.1	-71.65	163.4	-492.8	521.5	497.3	24.20	21.549	
5,500.0	5,500.0	5,464.7	5,449.6	7.8	19.5	-72.13	162.2	-503.1	531.0	506.4	24.60	21.583	
5,600.0	5,600.0	5,564.3	5,548.6	7.8	19.8	47.67	160.9	-513.4	539.3	514.3	25.02	21.558	
5,660.3	5,660.2	5,624.5	5,608.5	7.8	20.0	47.55	160.1	-519.7	543.2	518.0	25.28	21.491	
5,700.0	5,699.9	5,664.1	5,647.9	7.8	20.2	47.54	159.6	-523.8	545.5	520.1	25.45	21.435	
5,800.0	5,799.7	5,764.0	5,747.2	7.8	20.5	47.52	158.3	-534.2	551.3	525.4	25.89	21.297	
5,900.0	5,899.5	5,863.8	5,846.5	7.8	20.9	47.50	157.1	-544.5	557.1	530.7	26.32	21.162	
6,000.0	5,999.4	5,963.6	5,945.8	7.8	21.2	47.49	155.8	-554.9	562.8	536.1	26.76	21.032	
6,100.0	6,099.2	6,063.5	6,045.0	7.8	21.6	47.47	154.5	-565.2	568.6	541.4	27.20	20.904	
6,200.0	6,199.1	6,163.3	6,144.3	7.8	22.0	47.45	153.3	-575.6	574.3	546.7	27.64	20.780	
6,300.0	6,298.9	6,263.1	6,243.6	7.8	22.3	47.43	152.0	-585.9	580.1	552.0	28.08	20.659	
6,400.0	6,398.8	6,363.0	6,342.9	7.8	22.7	47.42	150.7	-596.3	585.9	557.3	28.52	20.541	
6,500.0	6,498.6	6,462.8	6,442.2	7.8	23.0	47.40	149.4	-606.7	591.6	562.7	28.97	20.426	
6,600.0	6,598.4	6,562.6	6,541.5	7.9	23.4	47.38	148.2	-617.0	597.4	568.0	29.41	20.313	
6,700.0	6,698.3	6,662.5	6,640.8	7.9	23.8	47.37	146.9	-627.4	603.2	573.3	29.85	20.204	
6,800.0	6,798.1	6,762.3	6,740.1	7.9	24.1	47.35	145.6	-637.7	608.9	578.6	30.30	20.097	
6,900.0	6,898.0	6,862.1	6,839.3	7.9	24.5	47.34	144.4	-648.1	614.7	583.9	30.75	19.993	
7,000.0	6,997.8	6,962.0	6,938.6	7.9	24.8	47.32	143.1	-658.4	620.4	589.3	31.19	19.891	
7,100.0	7,097.7	7,061.8	7,037.9	8.0	25.2	47.31	141.8	-668.8	626.2	594.6	31.64	19.792	
7,200.0	7,197.5	7,161.6	7,137.2	8.0	25.6	47.29	140.5	-679.2	632.0	599.9	32.09	19.694	
7,300.0	7,297.3	7,261.5	7,236.5	8.0	25.9	47.28	139.3	-689.5	637.7	605.2	32.54	19.600	
7,400.0	7,397.2	7,361.3	7,335.8	8.0	26.3	47.26	138.0	-699.9	643.5	610.5	32.99	19.507	
7,500.0	7,497.0	7,461.1	7,435.1	8.1	26.6	47.25	136.7	-710.2	649.3	615.8	33.44	19.416	
7,600.0	7,596.9	7,561.0	7,534.4	8.1	27.0	47.24	135.5	-720.6	655.0	621.1	33.89	19.328	
7,700.0	7,696.7	7,660.8	7,633.6	8.2	27.4	47.22	134.2	-731.0	660.8	626.4	34.34	19.241	
7,800.0	7,796.6	7,760.6	7,732.9	8.2	27.7	47.21	132.9	-741.3	666.6	631.8	34.80	19.156	
7,900.0	7,896.4	7,860.5	7,832.2	8.2	28.1	47.20	131.6	-751.7	672.3	637.1	35.25	19.074	
8,000.0	7,996.3	7,960.3	7,931.5	8.3	28.5	47.18	130.4	-762.0	678.1	642.4	35.70	18.993	
8,100.0	8,096.1	8,060.1	8,030.8	8.3	28.8	47.17	129.1	-772.4	683.8	647.7	36.16	18.913	
8,200.0	8,195.9	8,160.0	8,130.1	8.4	29.2	47.16	127.8	-782.7	689.6	653.0	36.61	18.836	
8,300.0	8,295.8	8,259.8	8,229.4	8.4	29.5	47.15	126.6	-793.1	695.4	658.3	37.07	18.760	
8,400.0	8,395.6	8,359.6	8,328.6	8.5	29.9	47.14	125.3	-803.5	701.1	663.6	37.52	18.685	
8,500.0	8,495.5	8,459.5	8,427.9	8.5	30.3	47.12	124.0	-813.8	706.9	668.9	37.98	18.612	
8,600.0	8,595.3	8,559.3	8,527.2	8.6	30.6	47.11	122.7	-824.2	712.7	674.2	38.44	18.541	
8,700.0	8,695.2	8,659.2	8,626.5	8.6	31.0	47.10	121.5	-834.5	718.4	679.5	38.89	18.471	
8,800.0	8,795.0	8,759.0	8,725.8	8.7	31.4	47.09	120.2	-844.9	724.2	684.8	39.35	18.402	
8,900.0	8,894.8	8,858.8	8,825.1	8.8	31.7	47.08	118.9	-855.2	730.0	690.1	39.81	18.335	
9,000.0	8,994.7	8,958.7	8,924.4	8.8	32.1	47.07	117.7	-865.6	735.7	695.4	40.27	18.269	
9,100.0	9,094.5	9,058.5	9,023.7	8.9	32.4	47.06	116.4	-876.0	741.5	700.7	40.73	18.205	
9,200.0	9,194.4	9,158.0	9,114.7	8.9	32.8	47.05	115.2	-885.5	747.3	706.1	41.17	18.151 SF	
9,300.0	9,294.2	9,200.0	9,164.2	9.0	33.0	47.20	117.1	-891.8	757.0	715.5	41.53	18.229	
9,400.0	9,394.1	9,250.0	9,213.2	9.1	33.1	47.60	122.9	-899.8	772.9	731.0	41.89	18.450	
9,500.0	9,493.9	9,300.0	9,261.3	9.2	33.3	48.22	132.6	-909.4	794.8	752.5	42.25	18.813	
9,600.0	9,593.7	9,350.0	9,308.1	9.2	33.5	49.06	146.1	-920.7	822.6	780.0	42.59	19.315	
9,700.0	9,693.6	9,400.0	9,353.2	9.3	33.7	50.07	163.4	-933.5	856.4	813.5	42.92	19.955	
9,800.0	9,793.4	9,450.0	9,396.3	9.4	33.8	51.25	184.4	-947.7	896.1	852.9	43.23	20.729	
9,900.0	9,893.3	9,476.0	9,417.8	9.4	33.9	51.91	196.6	-955.6	940.9	897.5	43.40	21.680	
10,000.0	9,993.1	9,500.0	9,437.1	9.5	33.9	52.54	208.7	-963.2	991.1	947.6	43.53	22.770	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 9190-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-42.39	198.3	-181.1	268.6				
100.0	100.0	100.0	100.0	3.0	3.0	-42.39	198.3	-181.1	268.6	262.6	6.00	44.756	
200.0	200.0	200.0	200.0	3.0	3.0	-42.39	198.3	-181.1	268.6	262.6	6.01	44.706	
300.0	300.0	300.0	300.0	3.0	3.0	-42.39	198.3	-181.1	268.6	262.5	6.02	44.598	
400.0	400.0	400.0	400.0	3.0	3.0	-42.39	198.3	-181.1	268.6	262.5	6.04	44.433	
500.0	500.0	500.0	500.0	3.1	3.1	-42.39	198.3	-181.1	268.6	262.5	6.07	44.215	
600.0	600.0	600.0	600.0	3.1	3.1	-42.39	198.3	-181.1	268.6	262.4	6.11	43.944	
700.0	700.0	700.0	700.0	3.1	3.1	-42.39	198.3	-181.1	268.6	262.4	6.16	43.625	
800.0	800.0	800.0	800.0	3.2	3.2	-42.39	198.3	-181.1	268.6	262.4	6.21	43.259	
900.0	900.0	900.0	900.0	3.2	3.2	-42.39	198.3	-181.1	268.6	262.3	6.27	42.852	
1,000.0	1,000.0	1,000.0	1,000.0	3.2	3.2	-42.39	198.3	-181.1	268.6	262.2	6.33	42.406	
1,100.0	1,100.0	1,100.0	1,100.0	3.3	3.3	-42.39	198.3	-181.1	268.6	262.2	6.41	41.926	
1,200.0	1,200.0	1,200.0	1,200.0	3.4	3.4	-42.39	198.3	-181.1	268.6	262.1	6.48	41.416	
1,300.0	1,300.0	1,300.0	1,300.0	3.4	3.4	-42.39	198.3	-181.1	268.6	262.0	6.57	40.880	
1,400.0	1,400.0	1,400.0	1,400.0	3.5	3.5	-42.39	198.3	-181.1	268.6	261.9	6.66	40.321	
1,500.0	1,500.0	1,500.0	1,500.0	3.5	3.5	-42.39	198.3	-181.1	268.6	261.8	6.76	39.744	
1,600.0	1,600.0	1,600.0	1,600.0	3.6	3.6	-42.39	198.3	-181.1	268.6	261.7	6.86	39.152	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-42.39	198.3	-181.1	268.6	261.6	6.97	38.548	
1,800.0	1,800.0	1,800.0	1,800.0	3.8	3.8	-42.39	198.3	-181.1	268.6	261.5	7.08	37.936	
1,900.0	1,900.0	1,900.0	1,900.0	3.9	3.9	-42.39	198.3	-181.1	268.6	261.4	7.20	37.319	
2,000.0	2,000.0	2,000.0	2,000.0	3.9	3.9	-42.39	198.3	-181.1	268.6	261.2	7.32	36.699	
2,100.0	2,100.0	2,100.0	2,100.0	4.0	4.0	-42.39	198.3	-181.1	268.6	261.1	7.44	36.078	
2,200.0	2,200.0	2,200.0	2,200.0	4.1	4.1	-42.39	198.3	-181.1	268.6	261.0	7.57	35.458	
2,300.0	2,300.0	2,300.0	2,300.0	4.2	4.2	-42.39	198.3	-181.1	268.6	260.9	7.71	34.842	
2,400.0	2,400.0	2,400.0	2,400.0	4.3	4.3	-42.39	198.3	-181.1	268.6	260.7	7.85	34.231	
2,500.0	2,500.0	2,500.0	2,500.0	4.4	4.4	-42.39	198.3	-181.1	268.6	260.6	7.99	33.627 CC, ES	
2,600.0	2,600.0	2,596.5	2,596.5	4.5	4.4	-42.71	197.8	-182.6	269.2	261.1	8.11	33.208	
2,700.0	2,700.0	2,693.0	2,692.8	4.6	4.5	-43.66	196.1	-187.2	271.2	263.0	8.20	33.079	
2,800.0	2,800.0	2,792.8	2,792.4	4.7	4.5	-44.92	193.9	-193.3	273.9	265.6	8.28	33.072	
2,900.0	2,900.0	2,892.5	2,892.0	4.8	4.5	-46.15	191.6	-199.5	276.7	268.4	8.37	33.070	
3,000.0	3,000.0	2,992.3	2,991.5	4.9	4.5	-47.36	189.4	-205.7	279.7	271.3	8.46	33.076	
3,100.0	3,100.0	3,092.1	3,091.1	5.0	4.5	-48.54	187.1	-211.8	282.8	274.3	8.55	33.089	
3,200.0	3,200.0	3,191.9	3,190.7	5.1	4.5	-49.70	184.9	-218.0	286.0	277.4	8.64	33.108	
3,300.0	3,300.0	3,291.7	3,290.2	5.2	4.6	-50.83	182.7	-224.2	289.3	280.6	8.73	33.132	
3,400.0	3,400.0	3,391.5	3,389.8	5.3	4.6	-51.93	180.4	-230.3	292.8	283.9	8.83	33.162	
3,500.0	3,500.0	3,491.2	3,489.4	5.4	4.7	-53.01	178.2	-236.5	296.3	287.4	8.93	33.196	
3,600.0	3,600.0	3,591.0	3,588.9	5.5	4.7	-54.06	175.9	-242.7	299.9	290.9	9.02	33.235	
3,700.0	3,700.0	3,690.8	3,688.5	5.7	4.7	-55.08	173.7	-248.8	303.7	294.5	9.13	33.277	
3,800.0	3,800.0	3,790.6	3,788.1	5.8	4.8	-56.09	171.4	-255.0	307.5	298.3	9.23	33.323	
3,900.0	3,900.0	3,890.4	3,887.6	5.9	4.8	-57.06	169.2	-261.2	311.4	302.1	9.33	33.371	
4,000.0	4,000.0	3,990.2	3,987.2	6.0	4.9	-58.01	166.9	-267.3	315.4	306.0	9.44	33.421	
4,100.0	4,100.0	4,089.9	4,086.8	6.1	4.9	-58.94	164.7	-273.5	319.5	310.0	9.55	33.473	
4,200.0	4,200.0	4,189.7	4,186.3	6.2	5.0	-59.85	162.5	-279.7	323.7	314.0	9.66	33.527	
4,300.0	4,300.0	4,289.5	4,285.9	6.3	5.1	-60.73	160.2	-285.8	328.0	318.2	9.77	33.581	
4,400.0	4,400.0	4,389.3	4,385.5	6.5	5.1	-61.59	158.0	-292.0	332.3	322.4	9.88	33.636	
4,500.0	4,500.0	4,489.1	4,485.0	6.6	5.2	-62.42	155.7	-298.1	336.7	326.7	9.99	33.692	
4,600.0	4,600.0	4,588.9	4,584.6	6.7	5.3	-63.24	153.5	-304.3	341.2	331.1	10.11	33.747	
4,700.0	4,700.0	4,688.6	4,684.2	6.8	5.3	-64.03	151.2	-310.5	345.7	335.5	10.23	33.802	
4,800.0	4,800.0	4,788.4	4,783.8	6.9	5.4	-64.80	149.0	-316.6	350.3	340.0	10.35	33.857	
4,900.0	4,900.0	4,888.2	4,883.3	7.0	5.5	-65.55	146.8	-322.8	355.0	344.5	10.47	33.911	
5,000.0	5,000.0	4,988.0	4,982.9	7.2	5.6	-66.29	144.5	-329.0	359.7	349.1	10.59	33.963	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 9190-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.0	5,100.0	5,087.8	5,082.5	7.3	5.7	-67.00	142.3	-335.1	364.5	353.8	10.72	34.015	
5,200.0	5,200.0	5,187.6	5,182.0	7.4	5.7	-67.69	140.0	-341.3	369.3	358.5	10.84	34.065	
5,300.0	5,300.0	5,287.3	5,281.6	7.5	5.8	-68.37	137.8	-347.5	374.2	363.3	10.97	34.114	
5,400.0	5,400.0	5,387.1	5,381.2	7.6	5.9	-69.03	135.5	-353.6	379.2	368.1	11.10	34.161	
5,500.0	5,500.0	5,486.9	5,480.7	7.8	6.0	-69.67	133.3	-359.8	384.2	372.9	11.23	34.207	
5,600.0	5,600.0	5,586.8	5,580.4	7.8	6.1	50.09	131.0	-366.0	388.1	376.7	11.38	34.106	
5,660.3	5,660.2	5,647.1	5,640.6	7.8	6.1	50.01	129.7	-369.7	389.4	377.9	11.48	33.913	
5,700.0	5,699.9	5,686.8	5,680.1	7.8	6.2	50.01	128.8	-372.1	390.0	378.4	11.55	33.758	
5,800.0	5,799.7	5,786.8	5,779.9	7.8	6.3	50.03	126.5	-378.3	391.4	379.7	11.73	33.372	
5,900.0	5,899.5	5,886.8	5,879.7	7.8	6.4	50.04	124.3	-384.5	392.9	381.0	11.91	32.995	
6,000.0	5,999.4	5,986.7	5,979.5	7.8	6.4	50.05	122.0	-390.7	394.4	382.3	12.09	32.625	
6,100.0	6,099.2	6,086.7	6,079.2	7.8	6.5	50.06	119.8	-396.9	395.8	383.5	12.27	32.263	
6,200.0	6,199.1	6,186.7	6,179.0	7.8	6.6	50.07	117.6	-403.0	397.3	384.8	12.45	31.909	
6,300.0	6,298.9	6,286.7	6,278.8	7.8	6.7	50.08	115.3	-409.2	398.7	386.1	12.63	31.562	
6,400.0	6,398.8	6,386.7	6,378.6	7.8	6.8	50.09	113.1	-415.4	400.2	387.4	12.82	31.223	
6,500.0	6,498.6	6,486.7	6,478.3	7.8	6.9	50.10	110.8	-421.6	401.7	388.7	13.00	30.890	
6,600.0	6,598.4	6,586.7	6,578.1	7.9	7.0	50.12	108.6	-427.7	403.1	389.9	13.19	30.565	
6,700.0	6,698.3	6,686.7	6,677.9	7.9	7.1	50.13	106.3	-433.9	404.6	391.2	13.38	30.246	
6,800.0	6,798.1	6,786.7	6,777.7	7.9	7.2	50.14	104.1	-440.1	406.0	392.5	13.56	29.934	
6,900.0	6,898.0	6,886.6	6,877.4	7.9	7.3	50.15	101.8	-446.3	407.5	393.8	13.75	29.629	
7,000.0	6,997.8	6,986.6	6,977.2	7.9	7.4	50.16	99.6	-452.5	409.0	395.0	13.94	29.330	
7,100.0	7,097.7	7,086.6	7,077.0	8.0	7.6	50.17	97.3	-458.6	410.4	396.3	14.13	29.037	
7,200.0	7,197.5	7,186.6	7,176.7	8.0	7.7	50.18	95.1	-464.8	411.9	397.6	14.33	28.750	
7,300.0	7,297.3	7,286.6	7,276.5	8.0	7.8	50.19	92.8	-471.0	413.4	398.8	14.52	28.470	
7,400.0	7,397.2	7,386.6	7,376.3	8.0	7.9	50.20	90.6	-477.2	414.8	400.1	14.71	28.195	
7,500.0	7,497.0	7,486.6	7,476.1	8.1	8.0	50.21	88.3	-483.4	416.3	401.4	14.91	27.926	
7,600.0	7,596.9	7,586.6	7,575.8	8.1	8.1	50.22	86.1	-489.5	417.7	402.6	15.10	27.662	
7,700.0	7,696.7	7,686.6	7,675.6	8.2	8.2	50.23	83.8	-495.7	419.2	403.9	15.30	27.404	
7,800.0	7,796.6	7,786.5	7,775.4	8.2	8.3	50.24	81.6	-501.9	420.7	405.2	15.49	27.151	
7,900.0	7,896.4	7,886.5	7,875.2	8.2	8.4	50.25	79.3	-508.1	422.1	406.4	15.69	26.903	
8,000.0	7,996.3	7,986.5	7,974.9	8.3	8.5	50.26	77.1	-514.2	423.6	407.7	15.89	26.660	
8,100.0	8,096.1	8,086.5	8,074.7	8.3	8.6	50.27	74.8	-520.4	425.0	409.0	16.09	26.422	
8,200.0	8,195.9	8,186.5	8,174.5	8.4	8.8	50.28	72.6	-526.6	426.5	410.2	16.29	26.189	
8,300.0	8,295.8	8,286.5	8,274.2	8.4	8.9	50.29	70.3	-532.8	428.0	411.5	16.49	25.960	
8,400.0	8,395.6	8,386.5	8,374.0	8.5	9.0	50.30	68.1	-539.0	429.4	412.7	16.69	25.736	
8,500.0	8,495.5	8,486.5	8,473.8	8.5	9.1	50.31	65.8	-545.1	430.9	414.0	16.89	25.516	
8,600.0	8,595.3	8,586.5	8,573.6	8.6	9.2	50.32	63.6	-551.3	432.4	415.3	17.09	25.301	
8,700.0	8,695.2	8,686.5	8,673.3	8.6	9.3	50.33	61.3	-557.5	433.8	416.5	17.29	25.090	
8,800.0	8,795.0	8,786.4	8,773.1	8.7	9.4	50.34	59.1	-563.7	435.3	417.8	17.49	24.882	
8,900.0	8,894.8	8,886.4	8,872.9	8.8	9.5	50.35	56.8	-569.8	436.7	419.0	17.70	24.679	
9,000.0	8,994.7	8,986.4	8,972.7	8.8	9.7	50.36	54.6	-576.0	438.2	420.3	17.90	24.480	
9,100.0	9,094.5	9,086.4	9,072.4	8.9	9.8	50.37	52.3	-582.2	439.7	421.6	18.11	24.284	
9,200.0	9,194.4	9,180.7	9,166.5	8.9	9.9	50.42	50.6	-588.0	441.3	423.0	18.31	24.103	
9,300.0	9,294.2	9,258.3	9,243.7	9.0	9.9	51.40	57.0	-592.9	446.6	428.0	18.53	24.094 SF	
9,400.0	9,394.1	9,332.4	9,315.9	9.1	9.9	53.45	72.7	-597.4	457.3	438.4	18.92	24.172	
9,500.0	9,493.9	9,400.0	9,379.5	9.2	10.0	56.15	95.1	-601.5	474.6	455.0	19.56	24.264	
9,600.0	9,593.7	9,462.7	9,435.7	9.2	10.0	59.21	122.4	-605.2	499.5	479.0	20.47	24.396	
9,700.0	9,693.6	9,517.5	9,482.2	9.3	10.0	62.23	151.3	-608.3	532.6	510.9	21.70	24.549	
9,800.0	9,793.4	9,565.6	9,520.5	9.4	10.1	65.03	180.2	-610.9	574.1	550.9	23.13	24.817	
9,900.0	9,893.3	9,600.0	9,546.5	9.4	10.1	67.09	202.8	-612.6	623.5	598.6	24.84	25.099	
10,000.0	9,993.1	9,650.0	9,581.6	9.5	10.1	70.09	238.2	-615.0	679.9	653.8	26.07	26.074	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

BEDLINGTON FEDERAL PROJECT (BULLDOG 2332) - BEDLINGTON FED COM 302H - OWB - PWP										Offset Site Error:		3.0 usft	
Survey Program: 0-Standard Keeper 104, 9190-MWD+IFR1+FDIR										Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		
10,100.0	10,093.0	9,676.2	9,598.7	9.6	10.2	71.65	258.0	-616.2	742.4	714.7	27.66	26.841	
10,200.0	10,192.8	9,700.0	9,613.5	9.7	10.2	73.06	276.7	-617.3	810.2	781.2	29.08	27.858	
10,300.0	10,292.7	9,728.7	9,630.2	9.8	10.3	74.72	300.0	-618.5	882.5	852.2	30.25	29.174	
10,400.0	10,392.5	9,750.0	9,641.9	9.8	10.3	75.92	317.7	-619.3	958.4	927.0	31.38	30.546	

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference				Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-37.26	198.6	-151.1	249.5				
100.0	100.0	100.0	100.0	3.0	3.0	-37.26	198.6	-151.1	249.5	243.5	6.00	41.564	
200.0	200.0	200.0	200.0	3.0	3.0	-37.26	198.6	-151.1	249.5	243.5	6.04	41.284	
300.0	300.0	300.0	300.0	3.0	3.1	-37.26	198.6	-151.1	249.5	243.4	6.13	40.705	
400.0	400.0	400.0	400.0	3.0	3.2	-37.26	198.6	-151.1	249.5	243.3	6.26	39.871	
500.0	500.0	500.0	500.0	3.1	3.4	-37.26	198.6	-151.1	249.5	243.1	6.42	38.837	
600.0	600.0	600.0	600.0	3.1	3.6	-37.26	198.6	-151.1	249.5	242.9	6.63	37.661	
700.0	700.0	700.0	700.0	3.1	3.8	-37.26	198.6	-151.1	249.5	242.7	6.86	36.397	
800.0	800.0	800.0	800.0	3.2	4.0	-37.26	198.6	-151.1	249.5	242.4	7.11	35.088	
900.0	900.0	900.0	900.0	3.2	4.2	-37.26	198.6	-151.1	249.5	242.1	7.39	33.770	
1,000.0	1,000.0	1,000.0	1,000.0	3.2	4.5	-37.26	198.6	-151.1	249.5	241.8	7.69	32.467	
1,100.0	1,100.0	1,100.0	1,100.0	3.3	4.8	-37.26	198.6	-151.1	249.5	241.5	8.00	31.197	
1,200.0	1,200.0	1,200.0	1,200.0	3.4	5.1	-37.26	198.6	-151.1	249.5	241.2	8.32	29.972	
1,300.0	1,300.0	1,300.0	1,300.0	3.4	5.4	-37.26	198.6	-151.1	249.5	240.9	8.66	28.799	
1,400.0	1,400.0	1,400.0	1,400.0	3.5	5.7	-37.26	198.6	-151.1	249.5	240.5	9.01	27.682	
1,500.0	1,500.0	1,500.0	1,500.0	3.5	6.0	-37.26	198.6	-151.1	249.5	240.1	9.37	26.620	
1,600.0	1,600.0	1,600.0	1,600.0	3.6	6.3	-37.26	198.6	-151.1	249.5	239.8	9.74	25.616	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	6.6	-37.26	198.6	-151.1	249.5	239.4	10.12	24.666	
1,800.0	1,800.0	1,800.0	1,800.0	3.8	6.9	-37.26	198.6	-151.1	249.5	239.0	10.50	23.769	
1,900.0	1,900.0	1,900.0	1,900.0	3.9	7.2	-37.26	198.6	-151.1	249.5	238.6	10.89	22.922	
2,000.0	2,000.0	2,000.0	2,000.0	3.9	7.6	-37.26	198.6	-151.1	249.5	238.2	11.28	22.123	
2,100.0	2,100.0	2,100.0	2,100.0	4.0	7.9	-37.26	198.6	-151.1	249.5	237.8	11.68	21.368	
2,200.0	2,200.0	2,200.0	2,200.0	4.1	8.2	-37.26	198.6	-151.1	249.5	237.4	12.08	20.656	
2,300.0	2,300.0	2,300.0	2,300.0	4.2	8.6	-37.26	198.6	-151.1	249.5	237.0	12.49	19.983	
2,400.0	2,400.0	2,400.0	2,400.0	4.3	8.9	-37.26	198.6	-151.1	249.5	236.6	12.90	19.347	
2,500.0	2,500.0	2,500.0	2,500.0	4.4	9.2	-37.26	198.6	-151.1	249.5	236.2	13.31	18.745	
2,600.0	2,600.0	2,600.0	2,600.0	4.5	9.6	-37.26	198.6	-151.1	249.5	235.8	13.73	18.176	
2,700.0	2,700.0	2,700.0	2,700.0	4.6	9.9	-37.26	198.6	-151.1	249.5	235.4	14.15	17.636	
2,800.0	2,800.0	2,800.0	2,800.0	4.7	10.3	-37.26	198.6	-151.1	249.5	234.9	14.57	17.124	
2,900.0	2,900.0	2,900.0	2,900.0	4.8	10.6	-37.26	198.6	-151.1	249.5	234.5	15.00	16.639	
3,000.0	3,000.0	3,000.0	3,000.0	4.9	10.9	-37.26	198.6	-151.1	249.5	234.1	15.42	16.178	
3,100.0	3,100.0	3,100.0	3,100.0	5.0	11.3	-37.26	198.6	-151.1	249.5	233.7	15.85	15.739	
3,200.0	3,200.0	3,200.0	3,200.0	5.1	11.6	-37.26	198.6	-151.1	249.5	233.2	16.29	15.322	
3,300.0	3,300.0	3,300.0	3,300.0	5.2	12.0	-37.26	198.6	-151.1	249.5	232.8	16.72	14.924	
3,400.0	3,400.0	3,400.0	3,400.0	5.3	12.3	-37.26	198.6	-151.1	249.5	232.4	17.15	14.545	
3,500.0	3,500.0	3,500.0	3,500.0	5.4	12.7	-37.26	198.6	-151.1	249.5	231.9	17.59	14.184	
3,600.0	3,600.0	3,600.0	3,600.0	5.5	13.0	-37.26	198.6	-151.1	249.5	231.5	18.03	13.839	
3,700.0	3,700.0	3,700.0	3,700.0	5.7	13.4	-37.26	198.6	-151.1	249.5	231.0	18.47	13.509	
3,800.0	3,800.0	3,800.0	3,800.0	5.8	13.7	-37.26	198.6	-151.1	249.5	230.6	18.91	13.194	
3,900.0	3,900.0	3,900.0	3,900.0	5.9	14.1	-37.26	198.6	-151.1	249.5	230.2	19.35	12.892	
4,000.0	4,000.0	4,000.0	4,000.0	6.0	14.4	-37.26	198.6	-151.1	249.5	229.7	19.80	12.603	
4,100.0	4,100.0	4,100.0	4,100.0	6.1	14.8	-37.26	198.6	-151.1	249.5	229.3	20.24	12.326	
4,200.0	4,200.0	4,200.0	4,200.0	6.2	15.1	-37.26	198.6	-151.1	249.5	228.8	20.69	12.060	
4,300.0	4,300.0	4,300.0	4,300.0	6.3	15.5	-37.26	198.6	-151.1	249.5	228.4	21.14	11.805	
4,400.0	4,400.0	4,400.0	4,400.0	6.5	15.8	-37.26	198.6	-151.1	249.5	227.9	21.58	11.560	
4,500.0	4,500.0	4,500.0	4,500.0	6.6	16.2	-37.26	198.6	-151.1	249.5	227.5	22.03	11.325	
4,600.0	4,600.0	4,600.0	4,600.0	6.7	16.5	-37.26	198.6	-151.1	249.5	227.0	22.48	11.098	
4,700.0	4,700.0	4,700.0	4,700.0	6.8	16.9	-37.26	198.6	-151.1	249.5	226.6	22.93	10.880	
4,800.0	4,800.0	4,800.0	4,800.0	6.9	17.2	-37.26	198.6	-151.1	249.5	226.1	23.39	10.670	
4,900.0	4,900.0	4,900.0	4,900.0	7.0	17.6	-37.26	198.6	-151.1	249.5	225.7	23.84	10.468	
5,000.0	5,000.0	5,000.0	5,000.0	7.2	18.0	-37.26	198.6	-151.1	249.5	225.2	24.29	10.273	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design BEDLINGTON FEDERAL PROJECT (BULLDOG 2332) - BEDLINGTON FED COM 303H - OWB - PWP													Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.0	5,100.0	5,100.0	5,100.0	7.3	18.3	-37.26	198.6	-151.1	249.5	224.8	24.74	10.084		
5,200.0	5,200.0	5,200.0	5,200.0	7.4	18.7	-37.26	198.6	-151.1	249.5	224.3	25.20	9.903		
5,300.0	5,300.0	5,300.0	5,300.0	7.5	19.0	-37.26	198.6	-151.1	249.5	223.9	25.65	9.727		
5,400.0	5,400.0	5,400.0	5,400.0	7.6	19.4	-37.26	198.6	-151.1	249.5	223.4	26.11	9.558		
5,500.0	5,500.0	5,500.0	5,500.0	7.8	19.7	-37.26	198.6	-151.1	249.5	223.0	26.56	9.394		
5,600.0	5,600.0	5,607.8	5,607.8	7.8	20.1	83.72	197.9	-149.2	247.7	220.7	27.03	9.166		
5,660.3	5,660.2	5,672.5	5,672.4	7.8	20.3	84.86	196.8	-146.2	245.0	217.7	27.31	8.973		
5,700.0	5,699.9	5,714.9	5,714.7	7.8	20.4	85.80	195.8	-143.5	242.6	215.1	27.49	8.825		
5,800.0	5,799.7	5,816.5	5,815.9	7.8	20.8	88.41	192.9	-135.4	235.5	207.5	27.97	8.420		
5,900.0	5,899.5	5,915.6	5,914.7	7.8	21.1	91.13	189.9	-127.3	228.7	200.3	28.44	8.042		
6,000.0	5,999.4	6,014.8	6,013.5	7.8	21.4	94.01	187.0	-119.1	222.5	193.6	28.90	7.699		
6,100.0	6,099.2	6,113.9	6,112.2	7.8	21.8	97.05	184.0	-111.0	216.8	187.5	29.34	7.389		
6,200.0	6,199.1	6,213.1	6,211.0	7.8	22.1	100.24	181.1	-102.9	211.8	182.1	29.78	7.114		
6,300.0	6,298.9	6,312.2	6,309.8	7.8	22.4	103.57	178.1	-94.8	207.5	177.4	30.19	6.875		
6,400.0	6,398.8	6,411.4	6,408.6	7.8	22.8	107.03	175.1	-86.7	204.0	173.4	30.58	6.670		
6,500.0	6,498.6	6,510.5	6,507.3	7.8	23.1	110.59	172.2	-78.5	201.2	170.3	30.95	6.501		
6,600.0	6,598.4	6,609.7	6,606.1	7.9	23.5	114.24	169.2	-70.4	199.3	168.0	31.30	6.367		
6,700.0	6,698.3	6,708.8	6,704.9	7.9	23.8	117.94	166.3	-62.3	198.1	166.5	31.62	6.266		
6,783.0	6,781.2	6,791.2	6,786.9	7.9	24.1	121.04	163.8	-55.6	197.8	166.0	31.86	6.208 CC		
6,800.0	6,798.1	6,808.0	6,803.7	7.9	24.1	121.67	163.3	-54.2	197.8	165.9	31.91	6.199 ES		
6,900.0	6,898.0	6,907.2	6,902.4	7.9	24.5	125.40	160.4	-46.1	198.4	166.2	32.19	6.164		
7,000.0	6,997.8	7,006.3	7,001.2	7.9	24.8	129.08	157.4	-37.9	199.8	167.4	32.45	6.159 SF		
7,100.0	7,097.7	7,105.5	7,100.0	8.0	25.2	132.71	154.5	-29.8	202.1	169.4	32.69	6.182		
7,200.0	7,197.5	7,204.6	7,198.8	8.0	25.5	136.24	151.5	-21.7	205.1	172.2	32.92	6.230		
7,300.0	7,297.3	7,303.8	7,297.5	8.0	25.8	139.65	148.5	-13.6	208.9	175.8	33.15	6.302		
7,400.0	7,397.2	7,402.9	7,396.3	8.0	26.2	142.93	145.6	-5.5	213.5	180.1	33.38	6.394		
7,500.0	7,497.0	7,502.1	7,495.1	8.1	26.5	146.07	142.6	2.7	218.7	185.1	33.62	6.505		
7,600.0	7,596.9	7,601.2	7,593.9	8.1	26.9	149.06	139.7	10.8	224.5	190.7	33.86	6.631		
7,700.0	7,696.7	7,700.4	7,692.6	8.2	27.2	151.89	136.7	18.9	231.0	196.8	34.12	6.770		
7,800.0	7,796.6	7,799.5	7,791.4	8.2	27.6	154.56	133.8	27.0	237.9	203.5	34.38	6.920		
7,900.0	7,896.4	7,898.7	7,890.2	8.2	27.9	157.08	130.8	35.1	245.4	210.7	34.67	7.078		
8,000.0	7,996.3	7,997.8	7,989.0	8.3	28.2	159.44	127.9	43.3	253.3	218.3	34.96	7.244		
8,100.0	8,096.1	8,097.0	8,087.7	8.3	28.6	161.67	124.9	51.4	261.6	226.3	35.28	7.415		
8,200.0	8,195.9	8,196.1	8,186.5	8.4	28.9	163.75	121.9	59.5	270.3	234.7	35.61	7.590		
8,300.0	8,295.8	8,295.3	8,285.3	8.4	29.3	165.70	119.0	67.6	279.3	243.3	35.95	7.768		
8,400.0	8,395.6	8,394.4	8,384.0	8.5	29.6	167.53	116.0	75.8	288.6	252.3	36.31	7.948		
8,500.0	8,495.5	8,493.6	8,482.8	8.5	30.0	169.24	113.1	83.9	298.2	261.5	36.69	8.129		
8,600.0	8,595.3	8,592.7	8,581.6	8.6	30.3	170.85	110.1	92.0	308.1	271.0	37.07	8.310		
8,700.0	8,695.2	8,691.9	8,680.4	8.6	30.7	172.35	107.2	100.1	318.1	280.7	37.47	8.491		
8,800.0	8,795.0	8,791.0	8,779.1	8.7	31.0	173.76	104.2	108.2	328.4	290.5	37.87	8.672		
8,900.0	8,894.8	8,890.2	8,877.9	8.8	31.4	175.09	101.3	116.4	338.9	300.6	38.29	8.851		
9,000.0	8,994.7	8,989.3	8,976.7	8.8	31.7	176.34	98.3	124.5	349.5	310.8	38.71	9.029		
9,100.0	9,094.5	9,088.5	9,075.5	8.9	32.1	177.51	95.3	132.6	360.3	321.2	39.14	9.206		
9,200.0	9,194.4	9,185.0	9,151.7	8.9	32.3	177.82	97.1	138.7	374.0	334.4	39.61	9.442		
9,300.0	9,294.2	9,287.4	9,223.0	9.0	32.6	176.90	108.1	144.2	394.2	354.1	40.09	9.834		
9,400.0	9,394.1	9,380.0	9,283.1	9.1	32.8	175.27	124.8	148.7	421.2	380.6	40.58	10.381		
9,500.0	9,493.9	9,488.2	9,346.1	9.2	33.0	172.81	150.4	153.1	455.2	414.2	41.02	11.096		
9,600.0	9,593.7	9,424.6	9,395.7	9.2	33.2	170.38	177.1	156.4	496.5	455.1	41.43	11.985		
9,700.0	9,693.6	9,474.7	9,437.3	9.3	33.3	168.02	204.8	159.0	544.9	503.1	41.75	13.051		
9,800.0	9,793.4	9,518.9	9,472.0	9.4	33.4	165.85	232.2	161.1	599.9	557.9	41.98	14.288		
9,900.0	9,893.3	9,550.0	9,495.0	9.4	33.5	164.30	253.0	162.4	660.9	618.8	42.09	15.701		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design BEDLINGTON FEDERAL PROJECT (BULLDOG 2332) - BEDLINGTON FED COM 303H - OWB - PWP												Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.0	9,993.1	9,600.0	9,529.6	9.5	33.6	161.81	289.0	164.2	727.1	684.8	42.28	17.194	
10,100.0	10,093.0	9,621.8	9,543.7	9.6	33.6	160.74	305.6	164.9	797.6	755.3	42.29	18.859	
10,200.0	10,192.8	9,650.0	9,561.0	9.7	33.7	159.37	327.9	165.7	872.0	829.6	42.35	20.591	
10,300.0	10,292.7	9,671.5	9,573.4	9.8	33.7	158.34	345.5	166.2	949.6	907.2	42.37	22.411	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10117-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-90.53	-2.7	-290.0	290.0				
100.0	100.0	99.0	99.0	3.0	3.0	-90.53	-2.7	-290.0	290.0	284.0	6.00	48.329	
200.0	200.0	199.0	199.0	3.0	3.0	-90.53	-2.7	-290.0	290.0	284.0	6.00	48.306	
300.0	300.0	299.0	299.0	3.0	3.0	-90.53	-2.7	-290.0	290.0	284.0	6.01	48.257	
400.0	400.0	399.0	399.0	3.0	3.0	-90.53	-2.7	-290.0	290.0	284.0	6.02	48.183	
500.0	500.0	499.0	499.0	3.1	3.1	-90.53	-2.7	-290.0	290.0	284.0	6.03	48.083	
600.0	600.0	599.0	599.0	3.1	3.1	-90.53	-2.7	-290.0	290.0	283.9	6.05	47.958	
700.0	700.0	699.0	699.0	3.1	3.1	-90.53	-2.7	-290.0	290.0	283.9	6.07	47.809	
800.0	800.0	799.0	799.0	3.2	3.2	-90.53	-2.7	-290.0	290.0	283.9	6.09	47.636	
900.0	900.0	899.0	899.0	3.2	3.2	-90.53	-2.7	-290.0	290.0	283.9	6.11	47.440	
1,000.0	1,000.0	999.0	999.0	3.2	3.2	-90.53	-2.7	-290.0	290.0	283.8	6.14	47.222	
1,100.0	1,100.0	1,099.0	1,099.0	3.3	3.3	-90.53	-2.7	-290.0	290.0	283.8	6.17	46.983	
1,200.0	1,200.0	1,199.0	1,199.0	3.4	3.4	-90.53	-2.7	-290.0	290.0	283.8	6.21	46.724	
1,300.0	1,300.0	1,299.0	1,299.0	3.4	3.4	-90.53	-2.7	-290.0	290.0	283.7	6.24	46.445	
1,400.0	1,400.0	1,399.0	1,399.0	3.5	3.5	-90.53	-2.7	-290.0	290.0	283.7	6.28	46.149	
1,500.0	1,500.0	1,499.0	1,499.0	3.5	3.5	-90.53	-2.7	-290.0	290.0	283.7	6.33	45.837	
1,600.0	1,600.0	1,599.0	1,599.0	3.6	3.6	-90.53	-2.7	-290.0	290.0	283.6	6.37	45.508	
1,700.0	1,700.0	1,699.0	1,699.0	3.7	3.7	-90.53	-2.7	-290.0	290.0	283.6	6.42	45.165	
1,800.0	1,800.0	1,799.0	1,799.0	3.8	3.8	-90.53	-2.7	-290.0	290.0	283.5	6.47	44.809	
1,900.0	1,900.0	1,899.0	1,899.0	3.9	3.9	-90.53	-2.7	-290.0	290.0	283.5	6.53	44.441	
2,000.0	2,000.0	1,999.0	1,999.0	3.9	3.9	-90.53	-2.7	-290.0	290.0	283.4	6.58	44.062	
2,100.0	2,100.0	2,099.0	2,099.0	4.0	4.0	-90.53	-2.7	-290.0	290.0	283.3	6.64	43.673	
2,200.0	2,200.0	2,199.0	2,199.0	4.1	4.1	-90.53	-2.7	-290.0	290.0	283.3	6.70	43.276	
2,300.0	2,300.0	2,299.0	2,299.0	4.2	4.2	-90.53	-2.7	-290.0	290.0	283.2	6.76	42.871	
2,400.0	2,400.0	2,399.0	2,399.0	4.3	4.3	-90.53	-2.7	-290.0	290.0	283.2	6.83	42.459	
2,500.0	2,500.0	2,499.0	2,499.0	4.4	4.4	-90.53	-2.7	-290.0	290.0	283.1	6.90	42.041 CC, ES	
2,600.0	2,600.0	2,589.9	2,589.9	4.5	4.5	-90.53	-2.7	-291.4	291.5	284.6	6.96	41.866	
2,700.0	2,700.0	2,680.5	2,680.4	4.6	4.5	-90.52	-2.7	-295.7	296.3	289.2	7.03	42.128	
2,800.0	2,800.0	2,772.9	2,772.5	4.7	4.5	-90.51	-2.7	-302.9	304.0	296.9	7.11	42.786	
2,900.0	2,900.0	2,872.5	2,871.7	4.8	4.6	-90.50	-2.7	-311.6	312.8	305.6	7.19	43.496	
3,000.0	3,000.0	2,972.1	2,971.0	4.9	4.6	-90.48	-2.7	-320.2	321.5	314.2	7.28	44.161	
3,100.0	3,100.0	3,071.8	3,070.2	5.0	4.6	-90.47	-2.7	-328.9	330.2	322.8	7.37	44.781	
3,200.0	3,200.0	3,171.4	3,169.5	5.1	4.7	-90.46	-2.7	-337.6	338.9	331.4	7.47	45.358	
3,300.0	3,300.0	3,271.0	3,268.7	5.2	4.7	-90.45	-2.7	-346.3	347.6	340.0	7.57	45.893	
3,400.0	3,400.0	3,370.6	3,367.9	5.3	4.8	-90.44	-2.7	-355.0	356.3	348.6	7.68	46.389	
3,500.0	3,500.0	3,470.2	3,467.2	5.4	4.8	-90.43	-2.7	-363.6	365.0	357.3	7.79	46.848	
3,600.0	3,600.0	3,569.9	3,566.4	5.5	4.9	-90.42	-2.7	-372.3	373.8	365.9	7.91	47.270	
3,700.0	3,700.0	3,669.5	3,665.7	5.7	5.0	-90.41	-2.7	-381.0	382.5	374.4	8.03	47.660	
3,800.0	3,800.0	3,769.1	3,764.9	5.8	5.0	-90.40	-2.7	-389.7	391.2	383.0	8.15	48.017	
3,900.0	3,900.0	3,868.7	3,864.1	5.9	5.1	-90.39	-2.7	-398.4	399.9	391.6	8.27	48.345	
4,000.0	4,000.0	3,968.3	3,963.4	6.0	5.2	-90.38	-2.7	-407.1	408.6	400.2	8.40	48.645	
4,100.0	4,100.0	4,068.0	4,062.6	6.1	5.2	-90.37	-2.7	-415.7	417.3	408.8	8.53	48.920	
4,200.0	4,200.0	4,167.6	4,161.9	6.2	5.3	-90.36	-2.7	-424.4	426.1	417.4	8.66	49.170	
4,300.0	4,300.0	4,267.2	4,261.1	6.3	5.4	-90.36	-2.7	-433.1	434.8	426.0	8.80	49.397	
4,400.0	4,400.0	4,366.8	4,360.3	6.5	5.5	-90.35	-2.7	-441.8	443.5	434.5	8.94	49.603	
4,500.0	4,500.0	4,466.4	4,459.6	6.6	5.6	-90.34	-2.7	-450.5	452.2	443.1	9.08	49.790	
4,600.0	4,600.0	4,566.1	4,558.8	6.7	5.6	-90.34	-2.7	-459.2	460.9	451.7	9.23	49.959	
4,700.0	4,700.0	4,665.7	4,658.1	6.8	5.7	-90.33	-2.7	-467.8	469.6	460.3	9.37	50.111	
4,800.0	4,800.0	4,765.3	4,757.3	6.9	5.8	-90.32	-2.7	-476.5	478.3	468.8	9.52	50.248	
4,900.0	4,900.0	4,864.9	4,856.6	7.0	5.9	-90.32	-2.7	-485.2	487.1	477.4	9.67	50.370	
5,000.0	5,000.0	4,964.5	4,955.8	7.2	6.0	-90.31	-2.7	-493.9	495.8	486.0	9.82	50.479	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10117-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.0	5,100.0	5,064.2	5,055.0	7.3	6.1	-90.31	-2.7	-502.6	504.5	494.5	9.98	50.575		
5,200.0	5,200.0	5,163.8	5,154.3	7.4	6.2	-90.30	-2.7	-511.2	513.2	503.1	10.13	50.660		
5,300.0	5,300.0	5,263.4	5,253.5	7.5	6.3	-90.30	-2.7	-519.9	521.9	511.6	10.29	50.735		
5,400.0	5,400.0	5,363.0	5,352.8	7.6	6.4	-90.29	-2.7	-528.6	530.6	520.2	10.45	50.799		
5,500.0	5,500.0	5,462.6	5,452.0	7.8	6.5	-90.29	-2.7	-537.3	539.4	528.7	10.61	50.855		
5,600.0	5,600.0	5,562.4	5,551.3	7.8	6.6	29.99	-2.7	-546.0	546.6	535.8	10.77	50.753		
5,660.3	5,660.2	5,622.6	5,611.4	7.8	6.6	30.11	-2.7	-551.2	549.5	538.6	10.87	50.541		
5,700.0	5,699.9	5,662.2	5,650.8	7.8	6.7	30.23	-2.7	-554.7	551.0	540.1	10.94	50.365		
5,800.0	5,799.7	5,762.1	5,750.3	7.8	6.8	30.52	-2.7	-563.4	554.9	543.8	11.12	49.918		
5,900.0	5,899.5	5,862.0	5,849.8	7.8	6.9	30.80	-2.7	-572.1	558.8	547.5	11.30	49.469		
6,000.0	5,999.4	5,961.9	5,949.3	7.8	7.0	31.08	-2.7	-580.8	562.7	551.3	11.48	49.018		
6,100.0	6,099.2	6,061.8	6,048.8	7.8	7.1	31.36	-2.7	-589.5	566.7	555.0	11.67	48.567		
6,200.0	6,199.1	6,161.7	6,148.4	7.8	7.2	31.64	-2.7	-598.2	570.6	558.8	11.86	48.118		
6,300.0	6,298.9	6,261.5	6,247.9	7.8	7.3	31.91	-2.7	-606.9	574.6	562.5	12.05	47.671		
6,400.0	6,398.8	6,361.4	6,347.4	7.8	7.4	32.18	-2.7	-615.6	578.6	566.3	12.25	47.228		
6,500.0	6,498.6	6,461.3	6,446.9	7.8	7.5	32.44	-2.7	-624.3	582.6	570.1	12.45	46.790		
6,600.0	6,598.4	6,561.2	6,546.4	7.9	7.6	32.70	-2.7	-633.0	586.6	573.9	12.65	46.357		
6,700.0	6,698.3	6,661.1	6,645.9	7.9	7.7	32.96	-2.7	-641.7	590.6	577.7	12.86	45.930		
6,800.0	6,798.1	6,761.0	6,745.4	7.9	7.8	33.21	-2.7	-650.4	594.6	581.5	13.07	45.510		
6,900.0	6,898.0	6,860.8	6,844.9	7.9	7.9	33.46	-2.7	-659.2	598.7	585.4	13.28	45.096		
7,000.0	6,997.8	6,960.7	6,944.4	7.9	8.0	33.71	-2.7	-667.9	602.7	589.2	13.49	44.689		
7,100.0	7,097.7	7,060.6	7,043.9	8.0	8.1	33.95	-2.7	-676.6	606.8	593.1	13.70	44.290		
7,200.0	7,197.5	7,160.5	7,143.4	8.0	8.3	34.19	-2.7	-685.3	610.8	596.9	13.91	43.899		
7,300.0	7,297.3	7,260.4	7,242.9	8.0	8.4	34.43	-2.7	-694.0	614.9	600.8	14.13	43.515		
7,400.0	7,397.2	7,360.3	7,342.4	8.0	8.5	34.66	-2.7	-702.7	619.0	604.7	14.35	43.139		
7,500.0	7,497.0	7,460.2	7,441.9	8.1	8.6	34.89	-2.7	-711.4	623.1	608.5	14.57	42.771		
7,600.0	7,596.9	7,560.0	7,541.4	8.1	8.7	35.12	-2.7	-720.1	627.2	612.4	14.79	42.411		
7,700.0	7,696.7	7,659.9	7,640.9	8.2	8.8	35.34	-2.7	-728.8	631.4	616.3	15.01	42.059		
7,800.0	7,796.6	7,759.8	7,740.4	8.2	8.9	35.56	-2.7	-737.5	635.5	620.2	15.23	41.714		
7,900.0	7,896.4	7,859.7	7,839.9	8.2	9.0	35.78	-2.7	-746.2	639.6	624.2	15.46	41.378		
8,000.0	7,996.3	7,959.6	7,939.4	8.3	9.2	36.00	-2.7	-754.9	643.8	628.1	15.68	41.049		
8,100.0	8,096.1	8,059.5	8,038.9	8.3	9.3	36.21	-2.7	-763.6	647.9	632.0	15.91	40.728		
8,200.0	8,195.9	8,159.3	8,138.4	8.4	9.4	36.42	-2.7	-772.3	652.1	636.0	16.14	40.414		
8,300.0	8,295.8	8,259.2	8,237.9	8.4	9.5	36.63	-2.7	-781.0	656.3	639.9	16.36	40.108		
8,400.0	8,395.6	8,359.1	8,337.5	8.5	9.6	36.83	-2.7	-789.7	660.5	643.9	16.59	39.809		
8,500.0	8,495.5	8,459.0	8,437.0	8.5	9.7	37.04	-2.7	-798.4	664.7	647.8	16.82	39.517		
8,600.0	8,595.3	8,558.9	8,536.5	8.6	9.9	37.24	-2.7	-807.1	668.9	651.8	17.05	39.232		
8,700.0	8,695.2	8,658.8	8,636.0	8.6	10.0	37.43	-2.7	-815.9	673.1	655.8	17.28	38.953		
8,800.0	8,795.0	8,758.7	8,735.5	8.7	10.1	37.63	-2.7	-824.6	677.3	659.8	17.51	38.682		
8,900.0	8,894.8	8,858.5	8,835.0	8.8	10.2	37.82	-2.7	-833.3	681.5	663.8	17.74	38.416		
9,000.0	8,994.7	8,958.4	8,934.5	8.8	10.3	38.01	-2.7	-842.0	685.8	667.8	17.97	38.157		
9,100.0	9,094.5	9,058.3	9,034.0	8.9	10.5	38.20	-2.7	-850.7	690.0	671.8	18.20	37.904		
9,200.0	9,194.4	9,158.2	9,133.5	8.9	10.6	38.38	-2.7	-859.4	694.2	675.8	18.44	37.658		
9,300.0	9,294.2	9,258.1	9,233.0	9.0	10.7	38.57	-2.7	-868.1	698.5	679.8	18.67	37.416		
9,400.0	9,394.1	9,358.0	9,332.5	9.1	10.8	38.75	-2.7	-876.8	702.8	683.9	18.90	37.181		
9,500.0	9,493.9	9,457.8	9,432.0	9.2	10.9	38.93	-2.7	-885.5	707.0	687.9	19.13	36.951		
9,600.0	9,593.7	9,557.7	9,531.5	9.2	11.1	39.10	-2.7	-894.2	711.3	691.9	19.37	36.726		
9,700.0	9,693.6	9,657.6	9,631.0	9.3	11.2	39.28	-2.7	-902.9	715.6	696.0	19.60	36.507		
9,800.0	9,793.4	9,757.5	9,730.5	9.4	11.3	39.45	-2.7	-911.6	719.9	700.0	19.84	36.292		
9,900.0	9,893.3	9,857.4	9,830.0	9.4	11.4	39.62	-2.7	-920.3	724.2	704.1	20.07	36.083		
10,000.0	9,993.1	9,957.3	9,929.5	9.5	11.6	39.79	-2.7	-929.0	728.5	708.2	20.30	35.878		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design BEDLINGTON FEDERAL PROJECT (BULLDOG 2332) - BEDLINGTON FED COM 501H - OWB - PWP												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10117-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,100.0	10,093.0	10,057.2	10,029.0	9.6	11.7	39.96	-2.7	-937.7	732.8	712.2	20.54	35.678	
10,200.0	10,192.8	10,140.8	10,112.4	9.7	11.8	40.13	-2.3	-945.2	737.5	716.8	20.77	35.512	
10,300.0	10,292.7	10,200.0	10,170.8	9.8	11.8	40.58	2.8	-952.4	746.8	725.7	21.15	35.320	
10,400.0	10,392.5	10,250.0	10,219.5	9.8	11.8	41.26	11.4	-960.3	761.8	740.0	21.79	34.960	
10,500.0	10,492.3	10,300.0	10,266.9	9.9	11.8	42.18	24.0	-969.6	782.6	760.0	22.64	34.575	
10,600.0	10,592.2	10,350.0	10,312.9	10.0	11.9	43.34	40.3	-980.5	809.3	785.7	23.63	34.251	
10,700.0	10,692.0	10,400.0	10,357.0	10.1	11.9	44.69	60.4	-992.7	842.0	817.3	24.72	34.059	
10,800.0	10,791.9	10,450.0	10,398.9	10.2	11.9	46.20	84.0	-1,006.2	880.6	854.7	25.86	34.047	
10,900.0	10,891.7	10,482.7	10,425.1	10.3	12.0	47.25	101.3	-1,015.6	924.9	897.6	27.32	33.859 SF	
11,000.0	10,991.6	10,516.9	10,451.1	10.4	12.0	48.41	120.9	-1,026.0	974.6	945.9	28.72	33.940	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design BEDLINGTON FEDERAL PROJECT (BULLDOG 2332) - BEDLINGTON FED COM 502H - OWB - PWP												Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-90.53	-2.4	-260.0	260.0				
100.0	100.0	99.0	99.0	3.0	3.0	-90.53	-2.4	-260.0	260.0	254.0	6.00	43.307	
200.0	200.0	199.0	199.0	3.0	3.0	-90.53	-2.4	-260.0	260.0	253.9	6.04	43.035	
300.0	300.0	299.0	299.0	3.0	3.1	-90.53	-2.4	-260.0	260.0	253.8	6.12	42.468	
400.0	400.0	399.0	399.0	3.0	3.2	-90.53	-2.4	-260.0	260.0	253.7	6.24	41.649	
500.0	500.0	499.0	499.0	3.1	3.4	-90.53	-2.4	-260.0	260.0	253.6	6.40	40.632	
600.0	600.0	599.0	599.0	3.1	3.6	-90.53	-2.4	-260.0	260.0	253.4	6.59	39.474	
700.0	700.0	699.0	699.0	3.1	3.8	-90.53	-2.4	-260.0	260.0	253.2	6.80	38.227	
800.0	800.0	799.0	799.0	3.2	4.0	-90.53	-2.4	-260.0	260.0	252.9	7.04	36.933	
900.0	900.0	899.0	899.0	3.2	4.2	-90.53	-2.4	-260.0	260.0	252.7	7.30	35.628	
1,000.0	1,000.0	999.0	999.0	3.2	4.5	-90.53	-2.4	-260.0	260.0	252.4	7.57	34.336	
1,100.0	1,100.0	1,099.0	1,099.0	3.3	4.8	-90.53	-2.4	-260.0	260.0	252.1	7.86	33.074	
1,200.0	1,200.0	1,199.0	1,199.0	3.4	5.1	-90.53	-2.4	-260.0	260.0	251.8	8.16	31.854	
1,300.0	1,300.0	1,299.0	1,299.0	3.4	5.4	-90.53	-2.4	-260.0	260.0	251.5	8.47	30.684	
1,400.0	1,400.0	1,399.0	1,399.0	3.5	5.7	-90.53	-2.4	-260.0	260.0	251.2	8.79	29.565	
1,500.0	1,500.0	1,499.0	1,499.0	3.5	6.0	-90.53	-2.4	-260.0	260.0	250.8	9.12	28.501	
1,600.0	1,600.0	1,599.0	1,599.0	3.6	6.3	-90.53	-2.4	-260.0	260.0	250.5	9.46	27.491	
1,700.0	1,700.0	1,699.0	1,699.0	3.7	6.6	-90.53	-2.4	-260.0	260.0	250.2	9.80	26.534	
1,800.0	1,800.0	1,799.0	1,799.0	3.8	6.9	-90.53	-2.4	-260.0	260.0	249.8	10.14	25.627	
1,900.0	1,900.0	1,899.0	1,899.0	3.9	7.2	-90.53	-2.4	-260.0	260.0	249.5	10.50	24.769	
2,000.0	2,000.0	1,999.0	1,999.0	3.9	7.6	-90.53	-2.4	-260.0	260.0	249.1	10.85	23.957	
2,100.0	2,100.0	2,099.0	2,099.0	4.0	7.9	-90.53	-2.4	-260.0	260.0	248.8	11.21	23.189	
2,200.0	2,200.0	2,199.0	2,199.0	4.1	8.2	-90.53	-2.4	-260.0	260.0	248.4	11.57	22.461	
2,300.0	2,300.0	2,299.0	2,299.0	4.2	8.6	-90.53	-2.4	-260.0	260.0	248.0	11.94	21.772	
2,400.0	2,400.0	2,399.0	2,399.0	4.3	8.9	-90.53	-2.4	-260.0	260.0	247.7	12.31	21.119	
2,500.0	2,500.0	2,499.0	2,499.0	4.4	9.2	-90.53	-2.4	-260.0	260.0	247.3	12.68	20.499 CC, ES	
2,600.0	2,600.0	2,591.2	2,591.2	4.5	9.5	-90.64	-2.9	-261.3	261.5	248.4	13.02	20.088	
2,700.0	2,700.0	2,683.1	2,682.9	4.6	9.8	-90.96	-4.4	-265.5	266.0	252.6	13.33	19.948	
2,800.0	2,800.0	2,781.3	2,781.0	4.7	10.1	-91.42	-6.8	-271.8	272.5	258.8	13.68	19.917	
2,900.0	2,900.0	2,881.1	2,880.5	4.8	10.5	-91.88	-9.1	-278.4	279.1	265.1	14.04	19.876	
3,000.0	3,000.0	2,980.9	2,980.0	4.9	10.8	-92.32	-11.5	-284.9	285.8	271.4	14.41	19.833	
3,100.0	3,100.0	3,080.6	3,079.5	5.0	11.1	-92.73	-13.9	-291.5	292.4	277.7	14.78	19.789	
3,200.0	3,200.0	3,180.4	3,179.0	5.1	11.5	-93.13	-16.3	-298.0	299.1	284.0	15.15	19.743	
3,300.0	3,300.0	3,280.1	3,278.5	5.2	11.8	-93.51	-18.7	-304.5	305.8	290.3	15.52	19.697	
3,400.0	3,400.0	3,379.9	3,378.1	5.3	12.1	-93.88	-21.1	-311.1	312.5	296.6	15.90	19.650	
3,500.0	3,500.0	3,479.6	3,477.6	5.4	12.5	-94.23	-23.5	-317.6	319.2	302.9	16.28	19.603	
3,600.0	3,600.0	3,579.4	3,577.1	5.5	12.8	-94.56	-25.9	-324.1	325.9	309.2	16.66	19.556	
3,700.0	3,700.0	3,679.1	3,676.6	5.7	13.1	-94.88	-28.2	-330.7	332.6	315.6	17.05	19.509	
3,800.0	3,800.0	3,778.9	3,776.1	5.8	13.5	-95.19	-30.6	-337.2	339.4	321.9	17.44	19.462	
3,900.0	3,900.0	3,878.7	3,875.6	5.9	13.8	-95.49	-33.0	-343.7	346.1	328.3	17.83	19.416	
4,000.0	4,000.0	3,978.4	3,975.1	6.0	14.2	-95.77	-35.4	-350.3	352.9	334.7	18.22	19.370	
4,100.0	4,100.0	4,078.2	4,074.7	6.1	14.5	-96.04	-37.8	-356.8	359.6	341.0	18.61	19.324	
4,200.0	4,200.0	4,177.9	4,174.2	6.2	14.8	-96.31	-40.2	-363.4	366.4	347.4	19.01	19.279	
4,300.0	4,300.0	4,277.7	4,273.7	6.3	15.2	-96.56	-42.6	-369.9	373.2	353.8	19.40	19.234	
4,400.0	4,400.0	4,377.4	4,373.2	6.5	15.5	-96.81	-44.9	-376.4	380.0	360.2	19.80	19.190	
4,500.0	4,500.0	4,477.2	4,472.7	6.6	15.9	-97.05	-47.3	-383.0	386.8	366.6	20.20	19.146	
4,600.0	4,600.0	4,577.0	4,572.2	6.7	16.2	-97.27	-49.7	-389.5	393.6	373.0	20.60	19.103	
4,700.0	4,700.0	4,676.7	4,671.7	6.8	16.6	-97.50	-52.1	-396.0	400.4	379.4	21.00	19.061	
4,800.0	4,800.0	4,776.5	4,771.2	6.9	16.9	-97.71	-54.5	-402.6	407.2	385.8	21.41	19.020	
4,900.0	4,900.0	4,876.2	4,870.8	7.0	17.3	-97.92	-56.9	-409.1	414.0	392.2	21.81	18.979	
5,000.0	5,000.0	4,976.0	4,970.3	7.2	17.6	-98.11	-59.3	-415.6	420.8	398.6	22.22	18.939	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design BEDLINGTON FEDERAL PROJECT (BULLDOG 2332) - BEDLINGTON FED COM 502H - OWB - PWP													Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.0	5,100.0	5,075.7	5,069.8	7.3	18.0	-98.31	-61.7	-422.2	427.7	405.0	22.63	18.900		
5,200.0	5,200.0	5,175.5	5,169.3	7.4	18.3	-98.50	-64.0	-428.7	434.5	411.5	23.04	18.861		
5,300.0	5,300.0	5,275.3	5,268.8	7.5	18.7	-98.68	-66.4	-435.3	441.3	417.9	23.45	18.823		
5,400.0	5,400.0	5,375.0	5,368.3	7.6	19.0	-98.85	-68.8	-441.8	448.2	424.3	23.86	18.786		
5,500.0	5,500.0	5,474.8	5,467.8	7.8	19.4	-99.02	-71.2	-448.3	455.0	430.7	24.27	18.749		
5,600.0	5,600.0	5,574.6	5,567.5	7.8	19.7	21.11	-73.6	-454.9	460.2	435.6	24.67	18.657		
5,660.3	5,660.2	5,634.9	5,627.6	7.8	19.9	21.12	-75.0	-458.8	461.8	436.9	24.90	18.545		
5,700.0	5,699.9	5,674.6	5,667.2	7.8	20.1	21.15	-76.0	-461.4	462.5	437.4	25.06	18.457		
5,800.0	5,799.7	5,774.6	5,766.9	7.8	20.4	21.24	-78.4	-468.0	464.1	438.7	25.45	18.237		
5,900.0	5,899.5	5,874.6	5,866.7	7.8	20.8	21.32	-80.8	-474.5	465.7	439.9	25.84	18.022		
6,000.0	5,999.4	5,974.5	5,966.4	7.8	21.1	21.41	-83.2	-481.1	467.4	441.1	26.24	17.811		
6,100.0	6,099.2	6,074.5	6,066.1	7.8	21.5	21.49	-85.5	-487.6	469.0	442.4	26.64	17.604		
6,200.0	6,199.1	6,174.5	6,165.9	7.8	21.9	21.57	-87.9	-494.2	470.7	443.6	27.05	17.402		
6,300.0	6,298.9	6,274.5	6,265.6	7.8	22.2	21.66	-90.3	-500.7	472.3	444.8	27.45	17.203		
6,400.0	6,398.8	6,374.5	6,365.4	7.8	22.6	21.74	-92.7	-507.3	473.9	446.1	27.86	17.009		
6,500.0	6,498.6	6,474.5	6,465.1	7.8	22.9	21.82	-95.1	-513.8	475.6	447.3	28.28	16.819		
6,600.0	6,598.4	6,574.5	6,564.9	7.9	23.3	21.90	-97.5	-520.4	477.2	448.5	28.69	16.632		
6,700.0	6,698.3	6,674.4	6,664.6	7.9	23.6	21.98	-99.9	-526.9	478.9	449.8	29.11	16.450		
6,800.0	6,798.1	6,774.4	6,764.3	7.9	24.0	22.06	-102.3	-533.5	480.5	451.0	29.53	16.271		
6,900.0	6,898.0	6,874.4	6,864.1	7.9	24.3	22.14	-104.7	-540.0	482.2	452.2	29.96	16.096		
7,000.0	6,997.8	6,974.4	6,963.8	7.9	24.7	22.22	-107.1	-546.6	483.8	453.4	30.38	15.925		
7,100.0	7,097.7	7,074.4	7,063.6	8.0	25.1	22.30	-109.5	-553.1	485.5	454.6	30.81	15.757		
7,200.0	7,197.5	7,174.4	7,163.3	8.0	25.4	22.37	-111.9	-559.7	487.1	455.9	31.24	15.593		
7,300.0	7,297.3	7,274.3	7,263.0	8.0	25.8	22.45	-114.3	-566.3	488.7	457.1	31.67	15.432		
7,400.0	7,397.2	7,374.3	7,362.8	8.0	26.1	22.53	-116.6	-572.8	490.4	458.3	32.10	15.275		
7,500.0	7,497.0	7,474.3	7,462.5	8.1	26.5	22.60	-119.0	-579.4	492.0	459.5	32.54	15.121		
7,600.0	7,596.9	7,574.3	7,562.3	8.1	26.8	22.68	-121.4	-585.9	493.7	460.7	32.98	14.971		
7,700.0	7,696.7	7,674.3	7,662.0	8.2	27.2	22.75	-123.8	-592.5	495.4	461.9	33.42	14.823		
7,800.0	7,796.6	7,774.3	7,761.7	8.2	27.6	22.83	-126.2	-599.0	497.0	463.1	33.86	14.679		
7,900.0	7,896.4	7,880.6	7,867.9	8.2	27.9	22.92	-128.6	-605.5	498.2	463.9	34.32	14.517		
8,000.0	7,996.3	7,989.9	7,977.0	8.3	28.3	23.06	-130.4	-610.4	497.7	462.9	34.79	14.306		
8,100.0	8,096.1	8,099.1	8,086.1	8.3	28.7	23.26	-131.4	-613.2	495.3	460.0	35.26	14.047		
8,200.0	8,195.9	8,208.1	8,195.2	8.4	29.1	23.52	-131.7	-614.2	491.0	455.3	35.72	13.745		
8,300.0	8,295.8	8,307.7	8,294.8	8.4	29.4	23.78	-131.7	-614.2	485.9	449.7	36.16	13.437		
8,400.0	8,395.6	8,407.6	8,394.6	8.5	29.8	24.05	-131.7	-614.2	480.8	444.2	36.60	13.135		
8,500.0	8,495.5	8,507.4	8,494.5	8.5	30.1	24.32	-131.7	-614.2	475.7	438.6	37.04	12.841		
8,600.0	8,595.3	8,607.2	8,594.3	8.6	30.5	24.60	-131.7	-614.2	470.6	433.1	37.49	12.553		
8,700.0	8,695.2	8,707.1	8,694.2	8.6	30.8	24.89	-131.7	-614.2	465.5	427.6	37.93	12.271		
8,800.0	8,795.0	8,806.9	8,794.0	8.7	31.2	25.18	-131.7	-614.2	460.4	422.0	38.38	11.996		
8,900.0	8,894.8	8,906.8	8,893.8	8.8	31.5	25.48	-131.7	-614.2	455.4	416.5	38.83	11.727		
9,000.0	8,994.7	9,006.6	8,993.7	8.8	31.8	25.79	-131.7	-614.2	450.3	411.0	39.28	11.463		
9,100.0	9,094.5	9,106.5	9,093.5	8.9	32.2	26.10	-131.7	-614.2	445.3	405.5	39.74	11.206		
9,200.0	9,194.4	9,206.3	9,193.4	8.9	32.5	26.42	-131.7	-614.2	440.3	400.1	40.19	10.955		
9,300.0	9,294.2	9,306.1	9,293.2	9.0	32.9	26.75	-131.7	-614.2	435.3	394.6	40.65	10.709		
9,400.0	9,394.1	9,406.0	9,393.1	9.1	33.2	27.08	-131.7	-614.2	430.3	389.2	41.10	10.468		
9,500.0	9,493.9	9,505.8	9,492.9	9.2	33.6	27.43	-131.7	-614.2	425.3	383.7	41.56	10.233		
9,600.0	9,593.7	9,605.7	9,592.7	9.2	33.9	27.78	-131.7	-614.2	420.3	378.3	42.02	10.003		
9,700.0	9,693.6	9,705.5	9,692.6	9.3	34.3	28.14	-131.7	-614.2	415.4	372.9	42.48	9.778		
9,800.0	9,793.4	9,805.4	9,792.4	9.4	34.6	28.51	-131.7	-614.2	410.5	367.5	42.94	9.558		
9,900.0	9,893.3	9,905.2	9,892.3	9.4	35.0	28.88	-131.7	-614.2	405.6	362.2	43.41	9.343		
10,000.0	9,993.1	10,005.0	9,992.1	9.5	35.3	29.27	-131.7	-614.2	400.7	356.8	43.87	9.133		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.0	10,093.0	10,104.9	10,092.0	9.6	35.7	29.66	-131.7	-614.2	395.8	351.5	44.34	8.927		
10,200.0	10,192.8	10,204.7	10,191.8	9.7	36.0	30.07	-131.7	-614.2	391.0	346.1	44.80	8.726		
10,300.0	10,292.7	10,304.6	10,291.7	9.8	36.3	30.49	-131.7	-614.2	386.1	340.8	45.27	8.529		
10,400.0	10,392.5	10,403.4	10,390.3	9.8	36.7	31.47	-128.0	-614.2	381.4	335.6	45.75	8.336		
10,500.0	10,492.3	10,497.4	10,482.4	9.9	37.0	34.65	-109.7	-614.3	377.8	331.5	46.28	8.164		
10,548.6	10,540.9	10,540.1	10,523.0	10.0	37.1	36.85	-96.5	-614.4	377.2	330.7	46.54	8.105		
10,600.0	10,592.2	10,582.6	10,562.3	10.0	37.3	39.49	-80.3	-614.5	378.0	331.2	46.83	8.073 SF		
10,700.0	10,692.0	10,657.1	10,627.9	10.1	37.5	45.03	-45.1	-614.7	385.7	338.3	47.41	8.135		
10,800.0	10,791.9	10,720.6	10,679.9	10.2	37.7	50.49	-8.6	-614.9	403.8	355.8	48.01	8.410		
10,900.0	10,891.7	10,774.3	10,720.4	10.3	37.8	55.41	26.5	-615.1	434.0	385.5	48.56	8.939		
11,000.0	10,991.6	10,819.4	10,751.8	10.4	37.9	59.61	58.9	-615.3	476.2	427.2	48.94	9.731		
11,100.0	11,091.4	10,850.0	10,771.6	10.4	38.0	62.43	82.2	-615.5	529.0	479.9	49.09	10.775		
11,200.0	11,191.2	10,900.0	10,801.2	10.5	38.1	66.92	122.5	-615.7	590.6	541.3	49.25	11.991		
11,300.0	11,291.1	10,917.3	10,810.6	10.6	38.1	68.43	137.1	-615.8	658.9	609.7	49.18	13.399		
11,400.0	11,390.9	10,950.0	10,827.1	10.7	38.2	71.17	165.2	-616.0	733.0	683.8	49.21	14.896		
11,500.0	11,490.8	10,950.0	10,827.1	10.8	38.2	71.17	165.2	-616.0	811.3	762.3	49.04	16.544		
11,600.0	11,590.6	10,979.4	10,840.6	10.9	38.2	73.51	191.3	-616.1	892.8	843.7	49.14	18.171		
11,700.0	11,690.5	11,000.0	10,849.3	11.0	38.2	75.09	210.1	-616.2	977.3	928.0	49.22	19.856		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10086-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference				Offset				Semi Major Axis				Distance	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-90.53	-2.1	-230.0	230.0				
100.0	100.0	99.0	99.0	3.0	3.0	-90.53	-2.1	-230.0	230.0	224.0	6.00	38.330	
200.0	200.0	199.0	199.0	3.0	3.0	-90.53	-2.1	-230.0	230.0	224.0	6.00	38.312	
300.0	300.0	299.0	299.0	3.0	3.0	-90.53	-2.1	-230.0	230.0	224.0	6.01	38.274	
400.0	400.0	399.0	399.0	3.0	3.0	-90.53	-2.1	-230.0	230.0	224.0	6.02	38.215	
500.0	500.0	499.0	499.0	3.1	3.1	-90.53	-2.1	-230.0	230.0	224.0	6.03	38.135	
600.0	600.0	599.0	599.0	3.1	3.1	-90.53	-2.1	-230.0	230.0	223.9	6.05	38.036	
700.0	700.0	699.0	699.0	3.1	3.1	-90.53	-2.1	-230.0	230.0	223.9	6.07	37.918	
800.0	800.0	799.0	799.0	3.2	3.2	-90.53	-2.1	-230.0	230.0	223.9	6.09	37.781	
900.0	900.0	899.0	899.0	3.2	3.2	-90.53	-2.1	-230.0	230.0	223.9	6.11	37.625	
1,000.0	1,000.0	999.0	999.0	3.2	3.2	-90.53	-2.1	-230.0	230.0	223.8	6.14	37.452	
1,100.0	1,100.0	1,099.0	1,099.0	3.3	3.3	-90.53	-2.1	-230.0	230.0	223.8	6.17	37.263	
1,200.0	1,200.0	1,199.0	1,199.0	3.4	3.4	-90.53	-2.1	-230.0	230.0	223.8	6.21	37.057	
1,300.0	1,300.0	1,299.0	1,299.0	3.4	3.4	-90.53	-2.1	-230.0	230.0	223.7	6.24	36.837	
1,400.0	1,400.0	1,399.0	1,399.0	3.5	3.5	-90.53	-2.1	-230.0	230.0	223.7	6.28	36.602	
1,500.0	1,500.0	1,499.0	1,499.0	3.5	3.5	-90.53	-2.1	-230.0	230.0	223.7	6.33	36.354	
1,600.0	1,600.0	1,599.0	1,599.0	3.6	3.6	-90.53	-2.1	-230.0	230.0	223.6	6.37	36.093	
1,700.0	1,700.0	1,699.0	1,699.0	3.7	3.7	-90.53	-2.1	-230.0	230.0	223.6	6.42	35.821	
1,800.0	1,800.0	1,799.0	1,799.0	3.8	3.8	-90.53	-2.1	-230.0	230.0	223.5	6.47	35.539	
1,900.0	1,900.0	1,899.0	1,899.0	3.9	3.9	-90.53	-2.1	-230.0	230.0	223.5	6.53	35.247	
2,000.0	2,000.0	1,999.0	1,999.0	3.9	3.9	-90.53	-2.1	-230.0	230.0	223.4	6.58	34.946	
2,100.0	2,100.0	2,099.0	2,099.0	4.0	4.0	-90.53	-2.1	-230.0	230.0	223.4	6.64	34.638	
2,200.0	2,200.0	2,199.0	2,199.0	4.1	4.1	-90.53	-2.1	-230.0	230.0	223.3	6.70	34.323	
2,300.0	2,300.0	2,299.0	2,299.0	4.2	4.2	-90.53	-2.1	-230.0	230.0	223.2	6.76	34.001	
2,400.0	2,400.0	2,399.0	2,399.0	4.3	4.3	-90.53	-2.1	-230.0	230.0	223.2	6.83	33.675	
2,500.0	2,500.0	2,499.0	2,499.0	4.4	4.4	-90.53	-2.1	-230.0	230.0	223.1	6.90	33.344	
2,600.0	2,600.0	2,606.9	2,606.9	4.5	4.4	-90.71	-2.8	-228.1	228.3	221.3	6.97	32.748	
2,700.0	2,700.0	2,710.6	2,710.4	4.6	4.5	-91.21	-4.7	-223.2	223.5	216.5	7.05	31.712	
2,800.0	2,800.0	2,810.4	2,810.1	4.7	4.5	-91.76	-6.7	-218.1	218.5	211.3	7.13	30.621	
2,900.0	2,900.0	2,910.3	2,909.8	4.8	4.5	-92.33	-8.7	-212.9	213.4	206.2	7.23	29.531	
3,000.0	3,000.0	3,010.1	3,009.5	4.9	4.5	-92.93	-10.6	-207.8	208.3	201.0	7.32	28.447	
3,100.0	3,100.0	3,110.0	3,109.2	5.0	4.5	-93.56	-12.6	-202.7	203.3	195.9	7.43	27.371	
3,200.0	3,200.0	3,209.8	3,208.9	5.1	4.5	-94.23	-14.6	-197.5	198.3	190.8	7.54	26.306	
3,300.0	3,300.0	3,309.7	3,308.6	5.2	4.6	-94.92	-16.6	-192.4	193.3	185.7	7.65	25.256	
3,400.0	3,400.0	3,409.5	3,408.3	5.3	4.6	-95.65	-18.5	-187.2	188.4	180.6	7.78	24.221	
3,500.0	3,500.0	3,509.4	3,508.0	5.4	4.6	-96.43	-20.5	-182.1	183.5	175.6	7.91	23.205	
3,600.0	3,600.0	3,609.2	3,607.7	5.5	4.7	-97.24	-22.5	-177.0	178.6	170.6	8.04	22.210	
3,700.0	3,700.0	3,709.1	3,707.4	5.7	4.7	-98.10	-24.5	-171.8	173.8	165.6	8.18	21.235	
3,800.0	3,800.0	3,808.9	3,807.1	5.8	4.8	-99.01	-26.4	-166.7	169.0	160.6	8.33	20.284	
3,900.0	3,900.0	3,908.7	3,906.8	5.9	4.8	-99.97	-28.4	-161.5	164.2	155.7	8.48	19.357	
4,000.0	4,000.0	4,008.6	4,006.5	6.0	4.9	-100.99	-30.4	-156.4	159.5	150.9	8.64	18.454	
4,100.0	4,100.0	4,108.4	4,106.2	6.1	4.9	-102.07	-32.3	-151.3	154.9	146.0	8.81	17.577	
4,200.0	4,200.0	4,208.3	4,205.9	6.2	5.0	-103.22	-34.3	-146.1	150.3	141.3	8.98	16.726	
4,300.0	4,300.0	4,308.1	4,305.5	6.3	5.1	-104.43	-36.3	-141.0	145.7	136.6	9.16	15.902	
4,400.0	4,400.0	4,408.0	4,405.2	6.5	5.1	-105.73	-38.3	-135.9	141.3	131.9	9.35	15.105	
4,500.0	4,500.0	4,507.8	4,504.9	6.6	5.2	-107.11	-40.2	-130.7	136.9	127.3	9.55	14.335	
4,600.0	4,600.0	4,607.7	4,604.6	6.7	5.3	-108.58	-42.2	-125.6	132.6	122.8	9.75	13.593	
4,700.0	4,700.0	4,707.5	4,704.3	6.8	5.3	-110.14	-44.2	-120.4	128.4	118.4	9.97	12.880	
4,800.0	4,800.0	4,807.4	4,804.0	6.9	5.4	-111.82	-46.2	-115.3	124.3	114.1	10.19	12.196	
4,900.0	4,900.0	4,907.2	4,903.7	7.0	5.5	-113.60	-48.1	-110.2	120.3	109.9	10.42	11.541	
5,000.0	5,000.0	5,007.1	5,003.4	7.2	5.6	-115.50	-50.1	-105.0	116.4	105.8	10.67	10.916	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10086-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.0	5,100.0	5,106.9	5,103.1	7.3	5.6	-117.53	-52.1	-99.9	112.7	101.8	10.92	10.322	
5,200.0	5,200.0	5,206.8	5,202.8	7.4	5.7	-119.70	-54.0	-94.7	109.1	98.0	11.18	9.759	
5,300.0	5,300.0	5,306.6	5,302.5	7.5	5.8	-122.01	-56.0	-89.6	105.7	94.3	11.46	9.229	
5,400.0	5,400.0	5,406.5	5,402.2	7.6	5.9	-124.47	-58.0	-84.5	102.5	90.8	11.74	8.733	
5,500.0	5,500.0	5,506.3	5,501.9	7.8	6.0	-127.08	-60.0	-79.3	99.5	87.5	12.03	8.271	
5,600.0	5,600.0	5,606.1	5,601.5	7.8	6.1	-9.79	-61.9	-74.2	95.0	82.7	12.28	7.735	
5,660.3	5,660.2	5,666.2	5,661.5	7.8	6.1	-11.93	-63.1	-71.1	90.7	78.3	12.40	7.314	
5,700.0	5,699.9	5,705.6	5,700.9	7.8	6.1	-13.50	-63.9	-69.1	87.6	75.1	12.49	7.014	
5,800.0	5,799.7	5,805.1	5,800.3	7.8	6.2	-18.00	-65.9	-64.0	80.0	67.3	12.71	6.299	
5,900.0	5,899.5	5,904.6	5,899.6	7.8	6.3	-23.38	-67.8	-58.8	73.1	60.2	12.92	5.655	
6,000.0	5,999.4	6,004.1	5,999.0	7.8	6.4	-29.82	-69.8	-53.7	66.9	53.8	13.12	5.099	
6,100.0	6,099.2	6,103.6	6,098.3	7.8	6.5	-37.44	-71.8	-48.6	61.7	48.5	13.28	4.648	
6,200.0	6,199.1	6,203.1	6,197.7	7.8	6.6	-46.26	-73.7	-43.5	57.9	44.5	13.39	4.322	
6,300.0	6,298.9	6,302.6	6,297.0	7.8	6.7	-56.06	-75.7	-38.3	55.5	42.1	13.41	4.140	
6,382.3	6,381.1	6,384.5	6,378.8	7.8	6.8	-64.54	-77.3	-34.1	54.9	41.5	13.39	4.101 CC, ES, SF	
6,400.0	6,398.8	6,402.1	6,396.3	7.8	6.8	-66.38	-77.7	-33.2	54.9	41.6	13.38	4.105	
6,500.0	6,498.6	6,501.6	6,495.7	7.8	6.9	-76.58	-79.6	-28.1	56.2	42.8	13.33	4.212	
6,600.0	6,598.4	6,601.1	6,595.0	7.9	7.0	-86.07	-81.6	-23.0	59.1	45.8	13.31	4.438	
6,700.0	6,698.3	6,700.6	6,694.4	7.9	7.1	-94.47	-83.6	-17.9	63.4	50.1	13.33	4.760	
6,800.0	6,798.1	6,800.1	6,793.7	7.9	7.2	-101.66	-85.5	-12.7	69.0	55.6	13.39	5.152	
6,900.0	6,898.0	6,899.6	6,893.1	7.9	7.3	-107.71	-87.5	-7.6	75.5	62.0	13.49	5.596	
7,000.0	6,997.8	6,999.1	6,992.4	7.9	7.4	-112.76	-89.4	-2.5	82.7	69.0	13.61	6.073	
7,100.0	7,097.7	7,098.6	7,091.8	8.0	7.5	-116.98	-91.4	2.6	90.4	76.6	13.75	6.571	
7,200.0	7,197.5	7,198.1	7,191.1	8.0	7.6	-120.53	-93.4	7.7	98.5	84.6	13.91	7.082	
7,300.0	7,297.3	7,297.6	7,290.5	8.0	7.7	-123.52	-95.3	12.9	107.0	92.9	14.08	7.599	
7,400.0	7,397.2	7,397.1	7,389.8	8.0	7.8	-126.07	-97.3	18.0	115.6	101.4	14.25	8.116	
7,500.0	7,497.0	7,496.6	7,489.2	8.1	7.9	-128.26	-99.3	23.1	124.5	110.1	14.43	8.630	
7,600.0	7,596.9	7,596.1	7,588.5	8.1	8.0	-130.16	-101.2	28.2	133.6	119.0	14.62	9.140	
7,700.0	7,696.7	7,695.6	7,687.9	8.2	8.2	-131.82	-103.2	33.3	142.8	128.0	14.81	9.642	
7,800.0	7,796.6	7,795.1	7,787.2	8.2	8.3	-133.27	-105.2	38.5	152.0	137.0	15.00	10.137	
7,900.0	7,896.4	7,894.6	7,886.6	8.2	8.4	-134.56	-107.1	43.6	161.4	146.2	15.19	10.623	
8,000.0	7,996.3	7,994.1	7,985.9	8.3	8.5	-135.70	-109.1	48.7	170.8	155.5	15.39	11.100	
8,100.0	8,096.1	8,093.6	8,085.3	8.3	8.6	-136.73	-111.1	53.8	180.3	164.8	15.59	11.567	
8,200.0	8,195.9	8,193.1	8,184.6	8.4	8.7	-137.65	-113.0	58.9	189.9	174.1	15.79	12.024	
8,300.0	8,295.8	8,292.6	8,283.9	8.4	8.8	-138.49	-115.0	64.1	199.5	183.5	16.00	12.472	
8,400.0	8,395.6	8,392.1	8,383.3	8.5	8.9	-139.24	-117.0	69.2	209.1	192.9	16.20	12.909	
8,500.0	8,495.5	8,491.6	8,482.6	8.5	9.0	-139.93	-118.9	74.3	218.8	202.4	16.41	13.336	
8,600.0	8,595.3	8,591.1	8,582.0	8.6	9.2	-140.57	-120.9	79.4	228.5	211.9	16.61	13.753	
8,700.0	8,695.2	8,690.6	8,681.3	8.6	9.3	-141.15	-122.9	84.5	238.2	221.4	16.82	14.161	
8,800.0	8,795.0	8,790.1	8,780.7	8.7	9.4	-141.68	-124.8	89.7	247.9	230.9	17.03	14.559	
8,900.0	8,894.8	8,889.6	8,880.0	8.8	9.5	-142.18	-126.8	94.8	257.7	240.5	17.24	14.947	
9,000.0	8,994.7	8,989.1	8,979.4	8.8	9.6	-142.63	-128.8	99.9	267.5	250.0	17.45	15.326	
9,100.0	9,094.5	9,088.6	9,078.7	8.9	9.7	-143.06	-130.7	105.0	277.3	259.6	17.67	15.696	
9,200.0	9,194.4	9,188.1	9,178.1	8.9	9.8	-143.46	-132.7	110.1	287.1	269.2	17.88	16.057	
9,300.0	9,294.2	9,287.6	9,277.4	9.0	10.0	-143.83	-134.7	115.3	296.9	278.8	18.09	16.410	
9,400.0	9,394.1	9,387.1	9,376.8	9.1	10.1	-144.18	-136.6	120.4	306.8	288.4	18.31	16.754	
9,500.0	9,493.9	9,486.6	9,476.1	9.2	10.2	-144.50	-138.6	125.5	316.6	298.1	18.53	17.089	
9,600.0	9,593.7	9,586.1	9,575.5	9.2	10.3	-144.81	-140.6	130.6	326.4	307.7	18.74	17.417	
9,700.0	9,693.6	9,685.6	9,674.8	9.3	10.4	-145.09	-142.5	135.7	336.3	317.4	18.96	17.737	
9,800.0	9,793.4	9,785.1	9,774.2	9.4	10.5	-145.37	-144.5	140.9	346.2	327.0	19.18	18.049	
9,900.0	9,893.3	9,884.6	9,873.5	9.4	10.7	-145.62	-146.5	146.0	356.1	336.7	19.40	18.354	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

BEDLINGTON FEDERAL PROJECT (BULLDOG 2332) - BEDLINGTON FED COM 503H - OWB - PWP												Offset Site Error:	3.0 usft	
Survey Program: 0-Standard Keeper 104, 10086-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,000.0	9,993.1	9,984.1	9,972.9	9.5	10.8	-145.87	-148.4	151.1	365.9	346.3	19.62	18.651		
10,100.0	10,093.0	10,083.6	10,072.2	9.6	10.9	-146.10	-150.4	156.2	375.8	356.0	19.79	18.989		
10,200.0	10,192.8	10,186.3	10,174.5	9.7	10.9	-147.61	-143.8	161.5	385.3	365.4	19.86	19.400		
10,300.0	10,292.7	10,282.9	10,268.1	9.8	10.9	-151.37	-121.0	166.1	395.1	375.1	19.93	19.822		
10,400.0	10,392.5	10,369.0	10,347.3	9.8	10.9	-156.39	-87.6	170.0	408.2	388.0	20.15	20.260		
10,500.0	10,492.3	10,443.0	10,410.7	9.9	11.0	-161.73	-49.8	173.0	427.9	407.1	20.82	20.551		
10,600.0	10,592.2	10,500.0	10,456.0	10.0	11.0	-166.31	-15.2	175.2	456.8	434.5	22.37	20.420		
10,700.0	10,692.0	10,550.0	10,492.7	10.1	11.1	-170.51	18.7	176.9	495.9	471.4	24.47	20.263		
10,800.0	10,791.9	10,600.0	10,526.3	10.2	11.1	-174.79	55.6	178.4	544.5	517.9	26.60	20.474		
10,900.0	10,891.7	10,637.2	10,549.1	10.3	11.2	-177.95	85.0	179.4	601.9	573.0	28.92	20.813		
11,000.0	10,991.6	10,667.9	10,566.5	10.4	11.2	179.47	110.3	180.1	666.6	635.5	31.10	21.436		
11,100.0	11,091.4	10,700.0	10,583.2	10.4	11.3	176.85	137.7	180.8	737.2	704.3	32.90	22.405		
11,200.0	11,191.2	10,716.5	10,591.2	10.5	11.3	175.53	152.1	181.1	812.5	777.8	34.73	23.396		
11,300.0	11,291.1	10,750.0	10,606.1	10.6	11.3	172.93	182.1	181.7	891.9	855.9	35.97	24.793		
11,400.0	11,390.9	10,750.0	10,606.1	10.7	11.3	172.93	182.1	181.7	973.9	936.3	37.54	25.943		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 11840-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-90.50	-0.3	-30.0	30.0				
100.0	100.0	100.0	100.0	3.0	3.0	-90.50	-0.3	-30.0	30.0	24.0	6.00	4.995	
200.0	200.0	200.0	200.0	3.0	3.0	-90.50	-0.3	-30.0	30.0	24.0	6.00	4.993	
300.0	300.0	300.0	300.0	3.0	3.0	-90.50	-0.3	-30.0	30.0	24.0	6.01	4.988	
400.0	400.0	400.0	400.0	3.0	3.0	-90.50	-0.3	-30.0	30.0	24.0	6.02	4.980	
500.0	500.0	500.0	500.0	3.1	3.1	-90.50	-0.3	-30.0	30.0	23.9	6.03	4.970	
600.0	600.0	600.0	600.0	3.1	3.1	-90.50	-0.3	-30.0	30.0	23.9	6.05	4.957	
700.0	700.0	700.0	700.0	3.1	3.1	-90.50	-0.3	-30.0	30.0	23.9	6.07	4.941	
800.0	800.0	800.0	800.0	3.2	3.2	-90.50	-0.3	-30.0	30.0	23.9	6.09	4.923	
900.0	900.0	900.0	900.0	3.2	3.2	-90.50	-0.3	-30.0	30.0	23.9	6.11	4.903	
1,000.0	1,000.0	1,000.0	1,000.0	3.2	3.2	-90.50	-0.3	-30.0	30.0	23.8	6.14	4.880	
1,100.0	1,100.0	1,100.0	1,100.0	3.3	3.3	-90.50	-0.3	-30.0	30.0	23.8	6.17	4.856	
1,200.0	1,200.0	1,200.0	1,200.0	3.4	3.4	-90.50	-0.3	-30.0	30.0	23.8	6.21	4.829	
1,300.0	1,300.0	1,300.0	1,300.0	3.4	3.4	-90.50	-0.3	-30.0	30.0	23.7	6.24	4.800	
1,400.0	1,400.0	1,400.0	1,400.0	3.5	3.5	-90.50	-0.3	-30.0	30.0	23.7	6.28	4.770	
1,500.0	1,500.0	1,500.0	1,500.0	3.5	3.5	-90.50	-0.3	-30.0	30.0	23.6	6.33	4.737	
1,600.0	1,600.0	1,600.0	1,600.0	3.6	3.6	-90.50	-0.3	-30.0	30.0	23.6	6.37	4.703	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-90.50	-0.3	-30.0	30.0	23.6	6.42	4.668	
1,800.0	1,800.0	1,800.0	1,800.0	3.8	3.8	-90.50	-0.3	-30.0	30.0	23.5	6.47	4.631	
1,900.0	1,900.0	1,900.0	1,900.0	3.9	3.9	-90.50	-0.3	-30.0	30.0	23.4	6.53	4.593	
2,000.0	2,000.0	2,000.0	2,000.0	3.9	3.9	-90.50	-0.3	-30.0	30.0	23.4	6.58	4.554	
2,100.0	2,100.0	2,100.0	2,100.0	4.0	4.0	-90.50	-0.3	-30.0	30.0	23.3	6.64	4.514	
2,200.0	2,200.0	2,200.0	2,200.0	4.1	4.1	-90.50	-0.3	-30.0	30.0	23.3	6.70	4.473	
2,300.0	2,300.0	2,300.0	2,300.0	4.2	4.2	-90.50	-0.3	-30.0	30.0	23.2	6.76	4.431	
2,400.0	2,400.0	2,400.0	2,400.0	4.3	4.3	-90.50	-0.3	-30.0	30.0	23.1	6.83	4.388	
2,500.0	2,500.0	2,500.0	2,500.0	4.4	4.4	-90.50	-0.3	-30.0	30.0	23.1	6.90	4.345 CC, ES, SF	
2,600.0	2,600.0	2,598.9	2,598.9	4.5	4.5	-90.47	-0.3	-31.7	31.7	24.7	6.97	4.550	
2,700.0	2,700.0	2,697.6	2,697.5	4.6	4.5	-90.40	-0.3	-36.8	36.9	29.8	7.04	5.239	
2,800.0	2,800.0	2,796.6	2,796.1	4.7	4.5	-90.33	-0.3	-44.9	45.1	38.0	7.12	6.337	
2,900.0	2,900.0	2,896.2	2,895.3	4.8	4.6	-90.28	-0.3	-53.6	53.8	46.6	7.20	7.472	
3,000.0	3,000.0	2,995.8	2,994.5	4.9	4.6	-90.24	-0.3	-62.3	62.5	55.2	7.29	8.574	
3,100.0	3,100.0	3,095.4	3,093.8	5.0	4.6	-90.21	-0.3	-71.0	71.2	63.9	7.39	9.644	
3,200.0	3,200.0	3,195.0	3,193.0	5.1	4.7	-90.19	-0.3	-79.7	80.0	72.5	7.49	10.679	
3,300.0	3,300.0	3,294.7	3,292.3	5.2	4.7	-90.17	-0.3	-88.3	88.7	81.1	7.59	11.681	
3,400.0	3,400.0	3,394.3	3,391.5	5.3	4.8	-90.15	-0.3	-97.0	97.4	89.7	7.70	12.649	
3,500.0	3,500.0	3,493.9	3,490.8	5.4	4.9	-90.14	-0.3	-105.7	106.1	98.3	7.81	13.584	
3,600.0	3,600.0	3,593.5	3,590.0	5.5	4.9	-90.13	-0.3	-114.4	114.8	106.9	7.93	14.485	
3,700.0	3,700.0	3,693.1	3,689.2	5.7	5.0	-90.12	-0.3	-123.1	123.5	115.5	8.05	15.353	
3,800.0	3,800.0	3,792.8	3,788.5	5.8	5.0	-90.11	-0.3	-131.8	132.3	124.1	8.17	16.190	
3,900.0	3,900.0	3,892.4	3,887.7	5.9	5.1	-90.11	-0.3	-140.4	141.0	132.7	8.30	16.995	
4,000.0	4,000.0	3,992.0	3,987.0	6.0	5.2	-90.10	-0.3	-149.1	149.7	141.3	8.42	17.769	
4,100.0	4,100.0	4,091.6	4,086.2	6.1	5.3	-90.09	-0.3	-157.8	158.4	149.8	8.56	18.514	
4,200.0	4,200.0	4,191.2	4,185.4	6.2	5.3	-90.09	-0.3	-166.5	167.1	158.4	8.69	19.231	
4,300.0	4,300.0	4,290.9	4,284.7	6.3	5.4	-90.09	-0.3	-175.2	175.8	167.0	8.83	19.919	
4,400.0	4,400.0	4,390.5	4,383.9	6.5	5.5	-90.08	-0.3	-183.8	184.6	175.6	8.97	20.581	
4,500.0	4,500.0	4,490.1	4,483.2	6.6	5.6	-90.08	-0.3	-192.5	193.3	184.2	9.11	21.217	
4,600.0	4,600.0	4,589.7	4,582.4	6.7	5.7	-90.07	-0.3	-201.2	202.0	192.7	9.25	21.828	
4,700.0	4,700.0	4,689.3	4,681.6	6.8	5.7	-90.07	-0.3	-209.9	210.7	201.3	9.40	22.415	
4,800.0	4,800.0	4,789.0	4,780.9	6.9	5.8	-90.07	-0.3	-218.6	219.4	209.9	9.55	22.979	
4,900.0	4,900.0	4,888.6	4,880.1	7.0	5.9	-90.07	-0.3	-227.3	228.1	218.4	9.70	23.522	
5,000.0	5,000.0	4,988.2	4,979.4	7.2	6.0	-90.06	-0.3	-235.9	236.8	227.0	9.85	24.043	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 11840-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference				Offset				Semi Major Axis				Distance	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,100.0	5,087.8	5,078.6	7.3	6.1	-90.06	-0.3	-244.6	245.6	235.6	10.00	24.544	
5,200.0	5,200.0	5,187.4	5,177.8	7.4	6.2	-90.06	-0.3	-253.3	254.3	244.1	10.16	25.026	
5,300.0	5,300.0	5,287.1	5,277.1	7.5	6.3	-90.06	-0.3	-262.0	263.0	252.7	10.32	25.490	
5,400.0	5,400.0	5,386.7	5,376.3	7.6	6.4	-90.06	-0.3	-270.7	271.7	261.2	10.48	25.936	
5,500.0	5,500.0	5,486.3	5,475.6	7.8	6.5	-90.05	-0.3	-279.4	280.4	269.8	10.64	26.364	
5,600.0	5,600.0	5,586.0	5,574.9	7.8	6.6	30.31	-0.3	-288.0	287.6	276.8	10.80	26.626	
5,660.3	5,660.2	5,646.3	5,634.9	7.8	6.6	30.55	-0.3	-293.3	290.5	279.6	10.91	26.632	
5,700.0	5,699.9	5,685.9	5,674.4	7.8	6.7	30.77	-0.3	-296.8	292.1	281.1	10.98	26.597	
5,800.0	5,799.7	5,785.8	5,773.9	7.8	6.8	31.30	-0.3	-305.5	296.0	284.9	11.17	26.506	
5,900.0	5,899.5	5,885.7	5,873.4	7.8	6.9	31.83	-0.3	-314.2	300.0	288.6	11.36	26.408	
6,000.0	5,999.4	5,985.5	5,972.9	7.8	7.0	32.34	-0.3	-322.9	304.0	292.4	11.56	26.305	
6,100.0	6,099.2	6,085.4	6,072.4	7.8	7.1	32.83	-0.3	-331.6	308.0	296.2	11.76	26.198	
6,200.0	6,199.1	6,185.3	6,171.9	7.8	7.2	33.32	-0.3	-340.3	312.0	300.0	11.96	26.089	
6,300.0	6,298.9	6,285.2	6,271.4	7.8	7.3	33.79	-0.3	-349.0	316.0	303.9	12.17	25.977	
6,400.0	6,398.8	6,385.1	6,370.9	7.8	7.4	34.25	-0.3	-357.7	320.1	307.7	12.38	25.865	
6,500.0	6,498.6	6,485.0	6,470.4	7.8	7.5	34.70	-0.3	-366.4	324.2	311.6	12.59	25.753	
6,600.0	6,598.4	6,584.8	6,569.9	7.9	7.6	35.13	-0.3	-375.1	328.3	315.5	12.80	25.641	
6,700.0	6,698.3	6,684.7	6,669.4	7.9	7.7	35.56	-0.3	-383.8	332.4	319.4	13.02	25.530	
6,800.0	6,798.1	6,784.6	6,768.9	7.9	7.8	35.98	-0.3	-392.5	336.6	323.3	13.24	25.420	
6,900.0	6,898.0	6,884.5	6,868.5	7.9	7.9	36.38	-0.3	-401.2	340.7	327.3	13.46	25.311	
7,000.0	6,997.8	6,984.4	6,968.0	7.9	8.1	36.78	-0.3	-409.9	344.9	331.2	13.68	25.205	
7,100.0	7,097.7	7,084.3	7,067.5	8.0	8.2	37.16	-0.3	-418.6	349.1	335.2	13.91	25.100	
7,200.0	7,197.5	7,184.2	7,167.0	8.0	8.3	37.54	-0.3	-427.3	353.3	339.2	14.13	24.998	
7,300.0	7,297.3	7,284.0	7,266.5	8.0	8.4	37.91	-0.3	-436.0	357.6	343.2	14.36	24.899	
7,400.0	7,397.2	7,383.9	7,366.0	8.0	8.5	38.27	-0.3	-444.7	361.8	347.2	14.59	24.802	
7,500.0	7,497.0	7,483.8	7,465.5	8.1	8.6	38.62	-0.3	-453.5	366.1	351.2	14.82	24.707	
7,600.0	7,596.9	7,583.7	7,565.0	8.1	8.7	38.96	-0.3	-462.2	370.3	355.3	15.04	24.615	
7,700.0	7,696.7	7,683.6	7,664.5	8.2	8.8	39.30	-0.3	-470.9	374.6	359.3	15.27	24.526	
7,800.0	7,796.6	7,783.5	7,764.0	8.2	9.0	39.62	-0.3	-479.6	378.9	363.4	15.50	24.439	
7,900.0	7,896.4	7,883.3	7,863.5	8.2	9.1	39.94	-0.3	-488.3	383.2	367.5	15.73	24.355	
8,000.0	7,996.3	7,983.2	7,963.0	8.3	9.2	40.26	-0.3	-497.0	387.5	371.5	15.96	24.273	
8,100.0	8,096.1	8,083.1	8,062.5	8.3	9.3	40.56	-0.3	-505.7	391.8	375.6	16.20	24.194	
8,200.0	8,195.9	8,183.0	8,162.0	8.4	9.4	40.86	-0.3	-514.4	396.2	379.8	16.43	24.117	
8,300.0	8,295.8	8,282.9	8,261.5	8.4	9.5	41.16	-0.3	-523.1	400.5	383.9	16.66	24.043	
8,400.0	8,395.6	8,382.8	8,361.0	8.5	9.7	41.44	-0.3	-531.8	404.9	388.0	16.89	23.971	
8,500.0	8,495.5	8,482.7	8,460.5	8.5	9.8	41.72	-0.3	-540.5	409.3	392.1	17.12	23.901	
8,600.0	8,595.3	8,582.5	8,560.0	8.6	9.9	42.00	-0.3	-549.2	413.6	396.3	17.35	23.834	
8,700.0	8,695.2	8,682.4	8,659.5	8.6	10.0	42.27	-0.3	-557.9	418.0	400.4	17.59	23.769	
8,800.0	8,795.0	8,782.3	8,759.0	8.7	10.1	42.53	-0.3	-566.6	422.4	404.6	17.82	23.706	
8,900.0	8,894.8	8,882.2	8,858.5	8.8	10.3	42.79	-0.3	-575.3	426.8	408.8	18.05	23.645	
9,000.0	8,994.7	8,982.1	8,958.0	8.8	10.4	43.04	-0.3	-584.0	431.2	413.0	18.28	23.586	
9,100.0	9,094.5	9,082.0	9,057.6	8.9	10.5	43.29	-0.3	-592.7	435.7	417.2	18.52	23.529	
9,200.0	9,194.4	9,181.8	9,157.1	8.9	10.6	43.53	-0.3	-601.4	440.1	421.4	18.75	23.474	
9,300.0	9,294.2	9,281.7	9,256.6	9.0	10.7	43.77	-0.3	-610.1	444.5	425.6	18.98	23.420	
9,400.0	9,394.1	9,381.6	9,356.1	9.1	10.9	44.00	-0.3	-618.9	449.0	429.8	19.21	23.368	
9,500.0	9,493.9	9,481.5	9,455.6	9.2	11.0	44.23	-0.3	-627.6	453.4	434.0	19.45	23.318	
9,600.0	9,593.7	9,581.4	9,555.1	9.2	11.1	44.45	-0.3	-636.3	457.9	438.2	19.68	23.269	
9,700.0	9,693.6	9,681.3	9,654.6	9.3	11.2	44.67	-0.3	-645.0	462.4	442.5	19.91	23.222	
9,800.0	9,793.4	9,781.2	9,754.1	9.4	11.3	44.89	-0.3	-653.7	466.8	446.7	20.14	23.177	
9,900.0	9,893.3	9,881.0	9,853.6	9.4	11.5	45.10	-0.3	-662.4	471.3	450.9	20.38	23.132	
10,000.0	9,993.1	9,980.9	9,953.1	9.5	11.6	45.31	-0.3	-671.1	475.8	455.2	20.61	23.089	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 11840-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.0	10,093.0	10,080.8	10,052.6	9.6	11.7	45.51	-0.3	-679.8	480.3	459.5	20.84	23.048		
10,200.0	10,192.8	10,180.7	10,152.1	9.7	11.8	45.71	-0.3	-688.5	484.8	463.7	21.07	23.007		
10,300.0	10,292.7	10,280.6	10,251.6	9.8	12.0	45.91	-0.3	-697.2	489.3	468.0	21.30	22.968		
10,400.0	10,392.5	10,380.5	10,351.1	9.8	12.1	46.10	-0.3	-705.9	493.8	472.3	21.54	22.930		
10,500.0	10,492.3	10,480.3	10,450.6	9.9	12.2	46.29	-0.3	-714.6	498.3	476.6	21.77	22.893		
10,600.0	10,592.2	10,580.2	10,550.1	10.0	12.3	46.48	-0.3	-723.3	502.9	480.9	22.00	22.857		
10,700.0	10,692.0	10,680.1	10,649.6	10.1	12.5	46.66	-0.3	-732.0	507.4	485.2	22.23	22.822		
10,800.0	10,791.9	10,780.0	10,749.1	10.2	12.6	46.84	-0.3	-740.7	511.9	489.4	22.46	22.788		
10,900.0	10,891.7	10,879.9	10,848.6	10.3	12.7	47.01	-0.3	-749.4	516.5	493.8	22.70	22.755		
11,000.0	10,991.6	10,979.8	10,948.1	10.4	12.8	47.19	-0.3	-758.1	521.0	498.1	22.93	22.723		
11,100.0	11,091.4	11,079.7	11,047.6	10.4	13.0	47.36	-0.3	-766.8	525.5	502.4	23.16	22.692		
11,200.0	11,191.2	11,179.5	11,147.1	10.5	13.1	47.52	-0.3	-775.6	530.1	506.7	23.39	22.661		
11,300.0	11,291.1	11,279.4	11,246.7	10.6	13.2	47.69	-0.3	-784.3	534.6	511.0	23.62	22.631		
11,400.0	11,390.9	11,379.3	11,346.2	10.7	13.3	47.85	-0.3	-793.0	539.2	515.3	23.86	22.602		
11,500.0	11,490.8	11,479.2	11,445.7	10.8	13.5	48.01	-0.3	-801.7	543.8	519.7	24.09	22.574		
11,600.0	11,590.6	11,579.1	11,545.2	10.9	13.6	48.16	-0.3	-810.4	548.3	524.0	24.32	22.547		
11,700.0	11,690.5	11,679.0	11,644.7	11.0	13.7	48.32	-0.3	-819.1	552.9	528.4	24.55	22.520		
11,789.3	11,779.6	11,768.1	11,733.5	11.1	13.8	48.45	-0.3	-826.9	557.0	532.3	24.69	22.561		
11,800.0	11,790.3	11,778.9	11,744.2	11.1	13.8	29.01	-0.3	-827.8	557.4	532.7	24.70	22.566		
11,850.0	11,840.2	11,828.8	11,793.9	11.1	13.9	-32.57	-0.3	-832.1	558.4	533.6	24.75	22.564		
11,900.0	11,889.7	11,864.9	11,829.9	11.1	13.9	-47.67	0.1	-835.4	557.8	533.0	24.82	22.477		
11,950.0	11,938.5	11,900.0	11,864.7	11.1	13.9	-53.72	2.1	-839.5	557.2	532.3	24.92	22.357		
12,000.0	11,986.1	11,924.1	11,888.4	11.1	13.9	-57.02	4.6	-842.8	556.5	531.3	25.22	22.065		
12,050.0	12,032.3	11,950.0	11,913.7	11.1	13.9	-59.34	8.3	-846.9	556.0	530.4	25.59	21.730		
12,100.0	12,076.6	11,983.2	11,945.8	11.2	14.0	-61.39	14.6	-852.8	555.6	529.8	25.83	21.509		
12,129.3	12,101.6	12,000.0	11,961.8	11.2	14.0	-62.41	18.4	-856.1	555.6	529.5	26.04	21.338		
12,150.0	12,118.8	12,012.8	11,973.9	11.2	14.0	-63.12	21.6	-858.8	555.6	529.4	26.16	21.241		
12,200.0	12,158.5	12,050.0	12,008.6	11.3	14.0	-65.01	32.3	-867.1	556.0	529.7	26.24	21.184		
12,201.7	12,159.8	12,050.0	12,008.6	11.3	14.0	-65.03	32.3	-867.1	556.0	529.7	26.28	21.155		
12,250.0	12,195.4	12,071.9	12,028.6	11.3	14.0	-66.25	39.5	-872.4	556.7	530.0	26.69	20.855		
12,300.0	12,229.2	12,100.0	12,053.6	11.4	14.0	-67.67	49.8	-879.7	558.1	531.2	26.91	20.743		
12,350.0	12,259.7	12,131.2	12,080.7	11.4	14.0	-69.18	62.5	-888.4	560.2	533.3	26.93	20.801		
12,400.0	12,286.6	12,160.9	12,105.8	11.5	14.1	-70.59	75.8	-897.3	563.2	536.3	26.90	20.940		
12,450.0	12,309.8	12,190.7	12,130.0	11.6	14.1	-71.94	90.4	-906.6	567.1	540.3	26.74	21.204		
12,500.0	12,329.0	12,220.6	12,153.4	11.7	14.1	-73.25	106.2	-916.5	572.0	545.6	26.48	21.601		
12,550.0	12,344.1	12,250.0	12,175.4	11.8	14.2	-74.44	122.8	-926.7	578.1	552.0	26.13	22.122		
12,600.0	12,355.1	12,280.9	12,197.5	11.9	14.2	-75.64	141.4	-937.9	585.5	559.8	25.69	22.791		
12,650.0	12,361.7	12,311.5	12,218.1	12.0	14.2	-76.71	160.8	-949.3	594.1	568.9	25.22	23.560		
12,700.1	12,364.0	12,342.5	12,237.8	12.1	14.3	-77.68	181.4	-961.3	604.1	579.4	24.75	24.408		
12,800.0	12,364.3	12,409.9	12,276.0	12.4	14.4	-81.57	229.7	-988.7	630.7	606.5	24.18	26.078		
12,900.0	12,364.5	12,488.1	12,311.8	12.7	14.5	-85.14	290.6	-1,022.1	665.8	641.5	24.26	27.444		
13,000.0	12,364.8	12,576.2	12,340.5	13.1	14.6	-87.89	364.1	-1,061.1	706.5	681.7	24.84	28.441		
13,072.5	12,364.9	12,644.8	12,353.8	13.5	14.7	-89.10	423.9	-1,092.0	738.2	712.8	25.43	29.026		
13,100.0	12,365.0	12,671.5	12,356.8	13.6	14.8	-89.37	447.5	-1,104.0	750.5	724.8	25.68	29.230		
13,200.0	12,365.2	12,782.8	12,359.2	14.1	14.9	-89.58	547.4	-1,153.2	794.2	767.4	26.72	29.717		
13,300.0	12,365.5	12,910.9	12,359.5	14.6	15.2	-89.62	664.4	-1,205.1	834.2	806.2	28.03	29.764		
13,400.0	12,365.7	13,043.8	12,359.9	15.2	15.7	-89.64	788.2	-1,253.4	870.0	840.5	29.47	29.518		
13,500.0	12,366.0	13,181.3	12,360.2	15.8	16.2	-89.66	918.5	-1,297.3	901.3	870.3	31.01	29.069		
13,600.0	12,366.2	13,322.9	12,360.6	16.4	16.9	-89.68	1,054.7	-1,336.0	928.0	895.4	32.61	28.455		
13,700.0	12,366.4	13,468.0	12,361.0	17.0	17.7	-89.69	1,196.1	-1,368.5	949.9	915.6	34.28	27.709		
13,800.0	12,366.7	13,616.2	12,361.4	17.7	18.5	-89.70	1,342.0	-1,394.3	966.7	930.7	35.97	26.876		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 11840-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,900.0	12,366.9	13,766.6	12,361.7	18.4	19.4	-89.71	1,491.2	-1,412.8	978.4	940.7	37.65	25.984	
14,000.0	12,367.2	13,918.4	12,362.1	19.1	20.3	-89.71	1,642.7	-1,423.4	984.8	945.5	39.30	25.055	
14,100.0	12,367.4	14,055.5	12,362.5	19.8	21.2	-89.71	1,779.8	-1,426.3	986.1	945.3	40.84	24.148	
14,200.0	12,367.7	14,155.5	12,362.7	20.5	21.8	-89.71	1,879.8	-1,426.9	986.1	943.9	42.19	23.374	
14,300.0	12,367.9	14,255.5	12,362.9	21.3	22.5	-89.71	1,979.8	-1,427.5	986.1	942.5	43.57	22.634	
14,400.0	12,368.1	14,355.5	12,363.2	22.0	23.1	-89.71	2,079.8	-1,428.1	986.1	941.1	44.97	21.928	
14,500.0	12,368.4	14,455.5	12,363.4	22.8	23.8	-89.71	2,179.8	-1,428.7	986.0	939.7	46.39	21.255	
14,600.0	12,368.6	14,555.5	12,363.7	23.5	24.5	-89.71	2,279.8	-1,429.3	986.0	938.2	47.83	20.614	
14,700.0	12,368.9	14,655.5	12,363.9	24.3	25.2	-89.71	2,379.7	-1,429.9	986.0	936.7	49.29	20.003	
14,800.0	12,369.1	14,755.5	12,364.1	25.0	25.9	-89.71	2,479.7	-1,430.5	986.0	935.2	50.77	19.421	
14,900.0	12,369.4	14,855.5	12,364.4	25.8	26.6	-89.71	2,579.7	-1,431.1	986.0	933.7	52.26	18.866	
15,000.0	12,369.6	14,955.5	12,364.6	26.6	27.3	-89.71	2,679.7	-1,431.7	986.0	932.2	53.77	18.337	
15,100.0	12,369.8	15,055.5	12,364.9	27.4	28.1	-89.71	2,779.7	-1,432.3	986.0	930.7	55.29	17.833	
15,200.0	12,370.1	15,155.5	12,365.1	28.2	28.8	-89.71	2,879.7	-1,432.9	986.0	929.1	56.82	17.353	
15,300.0	12,370.3	15,255.5	12,365.4	29.0	29.5	-89.71	2,979.7	-1,433.5	985.9	927.6	58.36	16.894	
15,400.0	12,370.6	15,355.5	12,365.6	29.8	30.3	-89.71	3,079.7	-1,434.1	985.9	926.0	59.91	16.457	
15,500.0	12,370.8	15,455.5	12,365.8	30.6	31.0	-89.71	3,179.7	-1,434.7	985.9	924.4	61.47	16.039	
15,600.0	12,371.0	15,555.5	12,366.1	31.4	31.8	-89.71	3,279.7	-1,435.3	985.9	922.9	63.04	15.639	
15,700.0	12,371.3	15,655.5	12,366.3	32.2	32.6	-89.71	3,379.7	-1,435.9	985.9	921.3	64.62	15.257	
15,800.0	12,371.5	15,755.5	12,366.6	33.0	33.3	-89.71	3,479.7	-1,436.5	985.9	919.7	66.20	14.892	
15,900.0	12,371.8	15,855.5	12,366.8	33.8	34.1	-89.71	3,579.7	-1,437.1	985.9	918.1	67.79	14.542	
16,000.0	12,372.0	15,955.5	12,367.1	34.7	34.9	-89.71	3,679.7	-1,437.8	985.9	916.5	69.39	14.207	
16,100.0	12,372.3	16,055.5	12,367.3	35.5	35.7	-89.71	3,779.7	-1,438.4	985.8	914.8	70.99	13.886	
16,200.0	12,372.5	16,155.5	12,367.5	36.3	36.5	-89.71	3,879.7	-1,439.0	985.8	913.2	72.60	13.578	
16,300.0	12,372.7	16,255.5	12,367.8	37.1	37.2	-89.71	3,979.7	-1,439.6	985.8	911.6	74.22	13.283	
16,400.0	12,373.0	16,355.5	12,368.0	37.9	38.0	-89.71	4,079.7	-1,440.2	985.8	910.0	75.84	12.999	
16,500.0	12,373.2	16,455.5	12,368.3	38.8	38.8	-89.71	4,179.7	-1,440.8	985.8	908.3	77.46	12.727	
16,600.0	12,373.5	16,555.5	12,368.5	39.6	39.6	-89.71	4,279.7	-1,441.4	985.8	906.7	79.09	12.464	
16,700.0	12,373.7	16,655.5	12,368.7	40.4	40.4	-89.71	4,379.7	-1,442.0	985.8	905.0	80.72	12.212	
16,800.0	12,374.0	16,755.5	12,369.0	41.3	41.2	-89.71	4,479.7	-1,442.6	985.7	903.4	82.35	11.970	
16,900.0	12,374.2	16,855.5	12,369.2	42.1	42.0	-89.71	4,579.7	-1,443.2	985.7	901.7	83.99	11.736	
17,000.0	12,374.4	16,955.5	12,369.5	42.9	42.8	-89.71	4,679.7	-1,443.8	985.7	900.1	85.64	11.510	
17,100.0	12,374.7	17,055.5	12,369.7	43.8	43.7	-89.71	4,779.7	-1,444.4	985.7	898.4	87.28	11.293	
17,200.0	12,374.9	17,155.5	12,370.0	44.6	44.5	-89.71	4,879.7	-1,445.0	985.7	896.8	88.93	11.084	
17,300.0	12,375.2	17,255.5	12,370.2	45.4	45.3	-89.71	4,979.7	-1,445.6	985.7	895.1	90.58	10.882	
17,400.0	12,375.4	17,355.5	12,370.4	46.3	46.1	-89.71	5,079.7	-1,446.2	985.7	893.4	92.24	10.686	
17,500.0	12,375.6	17,455.5	12,370.7	47.1	46.9	-89.71	5,179.7	-1,446.8	985.7	891.8	93.89	10.498	
17,600.0	12,375.9	17,555.5	12,370.9	47.9	47.7	-89.71	5,279.7	-1,447.4	985.6	890.1	95.55	10.315	
17,700.0	12,376.1	17,655.5	12,371.2	48.8	48.6	-89.71	5,379.7	-1,448.0	985.6	888.4	97.22	10.139	
17,800.0	12,376.4	17,755.5	12,371.4	49.6	49.4	-89.71	5,479.7	-1,448.6	985.6	886.7	98.88	9.968	
17,900.0	12,376.6	17,855.5	12,371.6	50.5	50.2	-89.71	5,579.7	-1,449.2	985.6	885.1	100.55	9.803	
18,000.0	12,376.9	17,955.5	12,371.9	51.3	51.0	-89.71	5,679.7	-1,449.8	985.6	883.4	102.21	9.643	
18,100.0	12,377.1	18,055.5	12,372.1	52.2	51.8	-89.71	5,779.7	-1,450.4	985.6	881.7	103.88	9.487	
18,200.0	12,377.3	18,155.5	12,372.4	53.0	52.7	-89.71	5,879.7	-1,451.0	985.6	880.0	105.55	9.337	
18,300.0	12,377.6	18,255.5	12,372.6	53.8	53.5	-89.71	5,979.7	-1,451.6	985.6	878.3	107.23	9.191	
18,400.0	12,377.8	18,355.5	12,372.9	54.7	54.3	-89.71	6,079.7	-1,452.2	985.5	876.6	108.90	9.050	
18,500.0	12,378.1	18,455.5	12,373.1	55.5	55.2	-89.71	6,179.7	-1,452.8	985.5	875.0	110.58	8.913	
18,600.0	12,378.3	18,555.5	12,373.3	56.4	56.0	-89.71	6,279.7	-1,453.4	985.5	873.3	112.26	8.779	
18,700.0	12,378.6	18,655.5	12,373.6	57.2	56.8	-89.71	6,379.7	-1,454.0	985.5	871.6	113.94	8.650	
18,800.0	12,378.8	18,755.5	12,373.8	58.1	57.7	-89.71	6,479.7	-1,454.6	985.5	869.9	115.62	8.524	
18,900.0	12,379.0	18,855.5	12,374.1	58.9	58.5	-89.71	6,579.7	-1,455.2	985.5	868.2	117.30	8.402	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	3.0 usft
BEDLINGTON FEDERAL PROJECT (BULLDOG 2332) - BEDLINGTON FED COM 701H - OWB - PWP												Offset Well Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 11840-MWD+IFR1+FDIR													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,000.0	12,379.3	18,955.5	12,374.3	59.8	59.3	-89.71	6,679.7	-1,455.8	985.5	866.5	118.98	8.283	
19,100.0	12,379.5	19,055.5	12,374.5	60.6	60.2	-89.71	6,779.7	-1,456.4	985.5	864.8	120.67	8.167	
19,200.0	12,379.8	19,155.5	12,374.8	61.5	61.0	-89.71	6,879.7	-1,457.0	985.4	863.1	122.35	8.054	
19,300.0	12,380.0	19,255.5	12,375.0	62.3	61.8	-89.71	6,979.7	-1,457.6	985.4	861.4	124.04	7.945	
19,400.0	12,380.3	19,355.5	12,375.3	63.2	62.7	-89.71	7,079.6	-1,458.2	985.4	859.7	125.73	7.838	
19,500.0	12,380.5	19,455.5	12,375.5	64.0	63.5	-89.71	7,179.6	-1,458.9	985.4	858.0	127.41	7.734	
19,600.0	12,380.7	19,555.5	12,375.8	64.9	64.3	-89.71	7,279.6	-1,459.5	985.4	856.3	129.10	7.633	
19,700.0	12,381.0	19,655.5	12,376.0	65.7	65.2	-89.71	7,379.6	-1,460.1	985.4	854.6	130.79	7.534	
19,800.0	12,381.2	19,755.5	12,376.2	66.6	66.0	-89.71	7,479.6	-1,460.7	985.4	852.9	132.49	7.438	
19,900.0	12,381.5	19,855.5	12,376.5	67.4	66.9	-89.71	7,579.6	-1,461.3	985.4	851.2	134.18	7.344	
20,000.0	12,381.7	19,955.5	12,376.7	68.3	67.7	-89.71	7,679.6	-1,461.9	985.3	849.5	135.87	7.252	
20,100.0	12,381.9	20,055.5	12,377.0	69.1	68.5	-89.71	7,779.6	-1,462.5	985.3	847.8	137.56	7.163	
20,200.0	12,382.2	20,155.5	12,377.2	70.0	69.4	-89.71	7,879.6	-1,463.1	985.3	846.1	139.26	7.075	
20,300.0	12,382.4	20,255.5	12,377.5	70.8	70.2	-89.71	7,979.6	-1,463.7	985.3	844.3	140.95	6.990	
20,400.0	12,382.7	20,355.5	12,377.7	71.7	71.1	-89.71	8,079.6	-1,464.3	985.3	842.6	142.65	6.907	
20,500.0	12,382.9	20,455.5	12,377.9	72.5	71.9	-89.71	8,179.6	-1,464.9	985.3	840.9	144.35	6.826	
20,600.0	12,383.2	20,555.5	12,378.2	73.4	72.8	-89.71	8,279.6	-1,465.5	985.3	839.2	146.04	6.746	
20,700.0	12,383.4	20,655.5	12,378.4	74.2	73.6	-89.71	8,379.6	-1,466.1	985.3	837.5	147.74	6.669	
20,800.0	12,383.6	20,755.5	12,378.7	75.1	74.4	-89.71	8,479.6	-1,466.7	985.2	835.8	149.44	6.593	
20,900.0	12,383.9	20,855.5	12,378.9	75.9	75.3	-89.71	8,579.6	-1,467.3	985.2	834.1	151.14	6.519	
21,000.0	12,384.1	20,955.5	12,379.1	76.8	76.1	-89.71	8,679.6	-1,467.9	985.2	832.4	152.84	6.446	
21,100.0	12,384.4	21,055.5	12,379.4	77.6	77.0	-89.71	8,779.6	-1,468.5	985.2	830.7	154.54	6.375	
21,200.0	12,384.6	21,155.5	12,379.6	78.5	77.8	-89.71	8,879.6	-1,469.1	985.2	828.9	156.24	6.306	
21,300.0	12,384.9	21,255.5	12,379.9	79.3	78.7	-89.71	8,979.6	-1,469.7	985.2	827.2	157.94	6.238	
21,400.0	12,385.1	21,355.5	12,380.1	80.2	79.5	-89.71	9,079.6	-1,470.3	985.2	825.5	159.65	6.171	
21,500.0	12,385.3	21,455.5	12,380.4	81.1	80.4	-89.71	9,179.6	-1,470.9	985.2	823.8	161.35	6.106	
21,600.0	12,385.6	21,555.5	12,380.6	81.9	81.2	-89.71	9,279.6	-1,471.5	985.1	822.1	163.05	6.042	
21,700.0	12,385.8	21,655.5	12,380.8	82.8	82.1	-89.71	9,379.6	-1,472.1	985.1	820.4	164.75	5.979	
21,800.0	12,386.1	21,755.5	12,381.1	83.6	82.9	-89.71	9,479.6	-1,472.7	985.1	818.7	166.46	5.918	
21,900.0	12,386.3	21,855.5	12,381.3	84.5	83.8	-89.71	9,579.6	-1,473.3	985.1	816.9	168.16	5.858	
22,000.0	12,386.5	21,955.5	12,381.6	85.3	84.6	-89.71	9,679.6	-1,473.9	985.1	815.2	169.87	5.799	
22,100.0	12,386.8	22,055.5	12,381.8	86.2	85.5	-89.71	9,779.6	-1,474.5	985.1	813.5	171.57	5.741	
22,200.0	12,387.0	22,155.5	12,382.0	87.0	86.3	-89.71	9,879.6	-1,475.1	985.1	811.8	173.28	5.685	
22,300.0	12,387.3	22,255.5	12,382.3	87.9	87.2	-89.71	9,979.6	-1,475.7	985.1	810.1	174.98	5.629	
22,400.0	12,387.5	22,355.5	12,382.5	88.8	88.0	-89.71	10,079.6	-1,476.3	985.0	808.3	176.69	5.575	
22,500.0	12,387.8	22,455.5	12,382.8	89.6	88.9	-89.71	10,179.6	-1,476.9	985.0	806.6	178.40	5.522	
22,595.3	12,388.0	22,550.1	12,383.0	90.4	89.7	-89.71	10,274.2	-1,477.5	985.0	805.0	180.02	5.472	
22,599.4	12,388.0	22,550.1	12,383.0	90.5	89.7	-89.71	10,274.2	-1,477.5	985.0	805.0	180.07	5.470	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 11791-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	89.43	0.3	30.0	30.0				
100.0	100.0	100.0	100.0	3.0	3.0	89.43	0.3	30.0	30.0	24.0	6.00	5.003	
200.0	200.0	200.0	200.0	3.0	3.0	89.43	0.3	30.0	30.0	24.0	6.00	5.001	
300.0	300.0	300.0	300.0	3.0	3.0	89.43	0.3	30.0	30.0	24.0	6.01	4.996	
400.0	400.0	400.0	400.0	3.0	3.0	89.43	0.3	30.0	30.0	24.0	6.02	4.988	
500.0	500.0	500.0	500.0	3.1	3.1	89.43	0.3	30.0	30.0	24.0	6.03	4.978	
600.0	600.0	600.0	600.0	3.1	3.1	89.43	0.3	30.0	30.0	24.0	6.05	4.965	
700.0	700.0	700.0	700.0	3.1	3.1	89.43	0.3	30.0	30.0	24.0	6.07	4.949	
800.0	800.0	800.0	800.0	3.2	3.2	89.43	0.3	30.0	30.0	23.9	6.09	4.932	
900.0	900.0	900.0	900.0	3.2	3.2	89.43	0.3	30.0	30.0	23.9	6.11	4.911	
1,000.0	1,000.0	1,000.0	1,000.0	3.2	3.2	89.43	0.3	30.0	30.0	23.9	6.14	4.889	
1,100.0	1,100.0	1,100.0	1,100.0	3.3	3.3	89.43	0.3	30.0	30.0	23.8	6.17	4.864	
1,200.0	1,200.0	1,200.0	1,200.0	3.4	3.4	89.43	0.3	30.0	30.0	23.8	6.21	4.837	
1,300.0	1,300.0	1,300.0	1,300.0	3.4	3.4	89.43	0.3	30.0	30.0	23.8	6.24	4.808	
1,400.0	1,400.0	1,400.0	1,400.0	3.5	3.5	89.43	0.3	30.0	30.0	23.7	6.28	4.778	
1,500.0	1,500.0	1,500.0	1,500.0	3.5	3.5	89.43	0.3	30.0	30.0	23.7	6.33	4.745	
1,600.0	1,600.0	1,600.0	1,600.0	3.6	3.6	89.43	0.3	30.0	30.0	23.6	6.37	4.711	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	89.43	0.3	30.0	30.0	23.6	6.42	4.676	
1,800.0	1,800.0	1,800.0	1,800.0	3.8	3.8	89.43	0.3	30.0	30.0	23.5	6.47	4.639	
1,900.0	1,900.0	1,900.0	1,900.0	3.9	3.9	89.43	0.3	30.0	30.0	23.5	6.53	4.601	
2,000.0	2,000.0	2,000.0	2,000.0	3.9	3.9	89.43	0.3	30.0	30.0	23.4	6.58	4.561	
2,100.0	2,100.0	2,100.0	2,100.0	4.0	4.0	89.43	0.3	30.0	30.0	23.4	6.64	4.521	
2,200.0	2,200.0	2,200.0	2,200.0	4.1	4.1	89.43	0.3	30.0	30.0	23.3	6.70	4.480	
2,300.0	2,300.0	2,300.0	2,300.0	4.2	4.2	89.43	0.3	30.0	30.0	23.3	6.76	4.438	
2,400.0	2,400.0	2,400.0	2,400.0	4.3	4.3	89.43	0.3	30.0	30.0	23.2	6.83	4.395	
2,500.0	2,500.0	2,500.0	2,500.0	4.4	4.4	89.43	0.3	30.0	30.0	23.1	6.90	4.352	
2,600.0	2,600.0	2,600.0	2,600.0	4.5	4.5	89.43	0.3	30.0	30.0	23.1	6.97	4.309	
2,700.0	2,700.0	2,700.0	2,700.0	4.6	4.6	89.43	0.3	30.0	30.0	23.0	7.04	4.264	
2,800.0	2,800.0	2,800.0	2,800.0	4.7	4.7	89.43	0.3	30.0	30.0	22.9	7.11	4.220	
2,900.0	2,900.0	2,900.0	2,900.0	4.8	4.8	89.43	0.3	30.0	30.0	22.8	7.19	4.175	
3,000.0	3,000.0	3,000.0	3,000.0	4.9	4.9	89.43	0.3	30.0	30.0	22.8	7.27	4.131	
3,100.0	3,100.0	3,100.0	3,100.0	5.0	5.0	89.43	0.3	30.0	30.0	22.7	7.35	4.086	
3,200.0	3,200.0	3,200.0	3,200.0	5.1	5.1	89.43	0.3	30.0	30.0	22.6	7.43	4.041	
3,300.0	3,300.0	3,300.0	3,300.0	5.2	5.2	89.43	0.3	30.0	30.0	22.5	7.51	3.996	
3,400.0	3,400.0	3,400.0	3,400.0	5.3	5.3	89.43	0.3	30.0	30.0	22.4	7.60	3.952	
3,500.0	3,500.0	3,500.0	3,500.0	5.4	5.4	89.43	0.3	30.0	30.0	22.3	7.68	3.907	
3,600.0	3,600.0	3,600.0	3,600.0	5.5	5.5	89.43	0.3	30.0	30.0	22.3	7.77	3.863	
3,700.0	3,700.0	3,700.0	3,700.0	5.7	5.7	89.43	0.3	30.0	30.0	22.2	7.86	3.819	
3,800.0	3,800.0	3,800.0	3,800.0	5.8	5.8	89.43	0.3	30.0	30.0	22.1	7.95	3.775	
3,900.0	3,900.0	3,900.0	3,900.0	5.9	5.9	89.43	0.3	30.0	30.0	22.0	8.04	3.732	
4,000.0	4,000.0	4,000.0	4,000.0	6.0	6.0	89.43	0.3	30.0	30.0	21.9	8.14	3.689	
4,100.0	4,100.0	4,100.0	4,100.0	6.1	6.1	89.43	0.3	30.0	30.0	21.8	8.23	3.647	
4,200.0	4,200.0	4,200.0	4,200.0	6.2	6.2	89.43	0.3	30.0	30.0	21.7	8.33	3.604	
4,300.0	4,300.0	4,300.0	4,300.0	6.3	6.3	89.43	0.3	30.0	30.0	21.6	8.43	3.563	
4,400.0	4,400.0	4,400.0	4,400.0	6.5	6.5	89.43	0.3	30.0	30.0	21.5	8.53	3.521	
4,500.0	4,500.0	4,500.0	4,500.0	6.6	6.6	89.43	0.3	30.0	30.0	21.4	8.62	3.481	
4,600.0	4,600.0	4,600.0	4,600.0	6.7	6.7	89.43	0.3	30.0	30.0	21.3	8.73	3.441	
4,700.0	4,700.0	4,700.0	4,700.0	6.8	6.8	89.43	0.3	30.0	30.0	21.2	8.83	3.401	
4,800.0	4,800.0	4,800.0	4,800.0	6.9	6.9	89.43	0.3	30.0	30.0	21.1	8.93	3.362	
4,900.0	4,900.0	4,900.0	4,900.0	7.0	7.0	89.43	0.3	30.0	30.0	21.0	9.03	3.323	
5,000.0	5,000.0	5,000.0	5,000.0	7.2	7.2	89.43	0.3	30.0	30.0	20.9	9.14	3.285	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
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Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 11791-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.0	5,100.0	5,100.0	5,100.0	7.3	7.3	89.43	0.3	30.0	30.0	20.8	9.25	3.247		
5,200.0	5,200.0	5,200.0	5,200.0	7.4	7.4	89.43	0.3	30.0	30.0	20.7	9.35	3.210		
5,300.0	5,300.0	5,300.0	5,300.0	7.5	7.5	89.43	0.3	30.0	30.0	20.6	9.46	3.174		
5,400.0	5,400.0	5,400.0	5,400.0	7.6	7.6	89.43	0.3	30.0	30.0	20.5	9.57	3.138		
5,500.0	5,500.0	5,500.0	5,500.0	7.8	7.8	89.43	0.3	30.0	30.0	20.3	9.68	3.102 CC, ES, SF		
5,600.0	5,600.0	5,598.9	5,598.9	7.8	7.8	-150.77	-0.3	31.6	33.2	23.4	9.80	3.385		
5,660.3	5,660.2	5,658.4	5,658.3	7.8	7.8	-151.32	-1.1	34.2	38.1	28.2	9.88	3.855		
5,700.0	5,699.9	5,697.3	5,697.1	7.8	7.8	-151.57	-1.9	36.4	42.3	32.4	9.94	4.258		
5,800.0	5,799.7	5,795.9	5,795.4	7.8	7.9	-151.33	-4.5	43.9	54.8	44.7	10.08	5.434		
5,900.0	5,899.5	5,895.1	5,894.2	7.8	7.9	-151.07	-7.3	51.8	67.5	57.3	10.20	6.616		
6,000.0	5,999.4	5,994.3	5,993.1	7.8	7.9	-150.89	-10.0	59.7	80.2	69.9	10.33	7.767		
6,100.0	6,099.2	6,093.4	6,091.9	7.8	7.9	-150.77	-12.7	67.5	92.9	82.5	10.46	8.886		
6,200.0	6,199.1	6,192.6	6,190.7	7.8	7.9	-150.67	-15.5	75.4	105.7	95.1	10.60	9.973		
6,300.0	6,298.9	6,291.8	6,289.6	7.8	7.9	-150.60	-18.2	83.2	118.4	107.7	10.74	11.028		
6,400.0	6,398.8	6,391.0	6,388.4	7.8	8.0	-150.53	-20.9	91.1	131.1	120.3	10.88	12.052		
6,500.0	6,498.6	6,490.2	6,487.3	7.8	8.0	-150.48	-23.7	99.0	143.9	132.8	11.03	13.045		
6,600.0	6,598.4	6,589.4	6,586.1	7.9	8.0	-150.44	-26.4	106.8	156.6	145.4	11.18	14.007		
6,700.0	6,698.3	6,688.6	6,684.9	7.9	8.1	-150.41	-29.1	114.7	169.3	158.0	11.34	14.939		
6,800.0	6,798.1	6,787.7	6,783.8	7.9	8.1	-150.38	-31.9	122.6	182.1	170.6	11.49	15.842		
6,900.0	6,898.0	6,886.9	6,882.6	7.9	8.1	-150.35	-34.6	130.4	194.8	183.2	11.65	16.716		
7,000.0	6,997.8	6,986.1	6,981.4	7.9	8.2	-150.33	-37.3	138.3	207.5	195.7	11.82	17.562		
7,100.0	7,097.7	7,085.3	7,080.3	8.0	8.2	-150.30	-40.1	146.1	220.3	208.3	11.98	18.380		
7,200.0	7,197.5	7,184.5	7,179.1	8.0	8.2	-150.29	-42.8	154.0	233.0	220.9	12.15	19.171		
7,300.0	7,297.3	7,283.7	7,277.9	8.0	8.3	-150.27	-45.5	161.9	245.7	233.4	12.33	19.936		
7,400.0	7,397.2	7,382.9	7,376.8	8.0	8.3	-150.25	-48.3	169.7	258.5	246.0	12.50	20.676		
7,500.0	7,497.0	7,482.0	7,475.6	8.1	8.4	-150.24	-51.0	177.6	271.2	258.5	12.68	21.392		
7,600.0	7,596.9	7,581.2	7,574.5	8.1	8.4	-150.23	-53.7	185.4	283.9	271.1	12.86	22.084		
7,700.0	7,696.7	7,680.4	7,673.3	8.2	8.5	-150.22	-56.5	193.3	296.7	283.6	13.04	22.753		
7,800.0	7,796.6	7,779.6	7,772.1	8.2	8.5	-150.21	-59.2	201.2	309.4	296.2	13.22	23.399		
7,900.0	7,896.4	7,878.8	7,871.0	8.2	8.6	-150.20	-61.9	209.0	322.1	308.7	13.41	24.024		
8,000.0	7,996.3	7,978.0	7,969.8	8.3	8.6	-150.19	-64.6	216.9	334.9	321.3	13.60	24.629		
8,100.0	8,096.1	8,077.2	8,068.6	8.3	8.7	-150.18	-67.4	224.8	347.6	333.8	13.79	25.213		
8,200.0	8,195.9	8,176.3	8,167.5	8.4	8.8	-150.17	-70.1	232.6	360.3	346.4	13.98	25.778		
8,300.0	8,295.8	8,275.5	8,266.3	8.4	8.8	-150.17	-72.8	240.5	373.1	358.9	14.17	26.324		
8,400.0	8,395.6	8,374.7	8,365.1	8.5	8.9	-150.16	-75.6	248.3	385.8	371.4	14.37	26.852		
8,500.0	8,495.5	8,473.9	8,464.0	8.5	9.0	-150.15	-78.3	256.2	398.5	384.0	14.56	27.363		
8,600.0	8,595.3	8,573.1	8,562.8	8.6	9.0	-150.15	-81.0	264.1	411.3	396.5	14.76	27.858		
8,700.0	8,695.2	8,672.3	8,661.7	8.6	9.1	-150.14	-83.8	271.9	424.0	409.0	14.96	28.336		
8,800.0	8,795.0	8,771.5	8,760.5	8.7	9.2	-150.14	-86.5	279.8	436.7	421.6	15.17	28.798		
8,900.0	8,894.8	8,870.6	8,859.3	8.8	9.2	-150.13	-89.2	287.6	449.5	434.1	15.37	29.246		
9,000.0	8,994.7	8,969.8	8,958.2	8.8	9.3	-150.13	-92.0	295.5	462.2	446.6	15.57	29.679		
9,100.0	9,094.5	9,069.0	9,057.0	8.9	9.4	-150.12	-94.7	303.4	474.9	459.2	15.78	30.098		
9,200.0	9,194.4	9,168.2	9,155.8	8.9	9.5	-150.12	-97.4	311.2	487.7	471.7	15.99	30.504		
9,300.0	9,294.2	9,267.4	9,254.7	9.0	9.5	-150.12	-100.2	319.1	500.4	484.2	16.20	30.897		
9,400.0	9,394.1	9,366.6	9,353.5	9.1	9.6	-150.11	-102.9	327.0	513.1	496.7	16.41	31.278		
9,500.0	9,493.9	9,465.8	9,452.3	9.2	9.7	-150.11	-105.6	334.8	525.9	509.3	16.62	31.647		
9,600.0	9,593.7	9,564.9	9,551.2	9.2	9.8	-150.10	-108.4	342.7	538.6	521.8	16.83	32.004		
9,700.0	9,693.6	9,664.1	9,650.0	9.3	9.9	-150.10	-111.1	350.5	551.3	534.3	17.04	32.350		
9,800.0	9,793.4	9,763.3	9,748.9	9.4	10.0	-150.10	-113.8	358.4	564.1	546.8	17.26	32.686		
9,900.0	9,893.3	9,862.5	9,847.7	9.4	10.1	-150.10	-116.6	366.3	576.8	559.3	17.47	33.011		
10,000.0	9,993.1	9,961.7	9,946.5	9.5	10.1	-150.09	-119.3	374.1	589.5	571.8	17.69	33.326		

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Concho Resources LLC

Anticollision Report

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10,100.0	10,093.0	10,060.9	10,045.4	9.6	10.2	-150.09	-122.0	382.0	602.3	584.4	17.91	33.632	
10,200.0	10,192.8	10,160.1	10,144.2	9.7	10.3	-150.09	-124.8	389.8	615.0	596.9	18.13	33.929	
10,300.0	10,292.7	10,259.3	10,243.0	9.8	10.4	-150.08	-127.5	397.7	627.7	609.4	18.35	34.217	
10,400.0	10,392.5	10,358.4	10,341.9	9.8	10.5	-150.08	-130.2	405.6	640.5	621.9	18.57	34.496	
10,500.0	10,492.3	10,457.6	10,440.7	9.9	10.6	-150.08	-133.0	413.4	653.2	634.4	18.79	34.767	
10,600.0	10,592.2	10,556.8	10,539.5	10.0	10.7	-150.08	-135.7	421.3	665.9	646.9	19.01	35.029	
10,700.0	10,692.0	10,656.0	10,638.4	10.1	10.8	-150.08	-138.4	429.2	678.7	659.4	19.23	35.285	
10,800.0	10,791.9	10,755.2	10,737.2	10.2	10.9	-150.07	-141.2	437.0	691.4	671.9	19.46	35.533	
10,900.0	10,891.7	10,854.4	10,836.1	10.3	11.0	-150.07	-143.9	444.9	704.1	684.5	19.68	35.773	
11,000.0	10,991.6	10,953.6	10,934.9	10.4	11.1	-150.07	-146.6	452.7	716.9	697.0	19.91	36.007	
11,100.0	11,091.4	11,052.7	11,033.7	10.4	11.2	-150.07	-149.3	460.6	729.6	709.5	20.14	36.234	
11,200.0	11,191.2	11,151.9	11,132.6	10.5	11.3	-150.07	-152.1	468.5	742.3	722.0	20.36	36.455	
11,300.0	11,291.1	11,251.1	11,231.4	10.6	11.4	-150.06	-154.8	476.3	755.1	734.5	20.59	36.669	
11,400.0	11,390.9	11,350.3	11,330.2	10.7	11.5	-150.06	-157.5	484.2	767.8	747.0	20.82	36.878	
11,500.0	11,490.8	11,449.5	11,429.1	10.8	11.6	-150.06	-160.3	492.0	780.5	759.5	21.05	37.080	
11,600.0	11,590.6	11,548.7	11,527.9	10.9	11.7	-150.06	-163.0	499.9	793.3	772.0	21.28	37.277	
11,700.0	11,690.5	11,647.9	11,626.7	11.0	11.8	-150.06	-165.7	507.8	806.0	784.5	21.51	37.469	
11,789.3	11,779.6	11,736.4	11,715.0	11.1	11.9	-150.06	-168.2	514.8	817.4	795.6	21.76	37.560	
11,800.0	11,790.3	11,747.0	11,725.6	11.1	11.9	-169.68	-168.5	515.6	818.7	797.0	21.77	37.608	
11,850.0	11,840.2	11,796.5	11,774.8	11.1	11.9	128.41	-169.8	519.5	825.5	803.7	21.81	37.857	
11,900.0	11,889.7	11,846.0	11,824.1	11.1	11.9	113.43	-169.5	523.5	832.8	811.0	21.82	38.171	
11,950.0	11,938.5	11,895.9	11,873.7	11.1	12.0	107.62	-165.0	527.4	840.6	818.8	21.83	38.514	
12,000.0	11,986.1	11,946.3	11,923.1	11.1	12.0	104.44	-156.0	531.2	848.9	827.0	21.84	38.874	
12,050.0	12,032.3	11,997.2	11,972.0	11.1	12.0	102.32	-142.5	535.0	857.5	835.6	21.85	39.244	
12,100.0	12,076.6	12,048.5	12,020.0	11.2	12.0	100.72	-124.6	538.7	866.4	844.5	21.87	39.616	
12,150.0	12,118.8	12,100.4	12,066.6	11.2	12.1	99.41	-102.1	542.3	875.5	853.6	21.90	39.981	
12,200.0	12,158.5	12,152.8	12,111.5	11.3	12.1	98.27	-75.3	545.7	884.9	862.9	21.94	40.325	
12,250.0	12,195.4	12,205.8	12,154.1	11.3	12.1	97.24	-44.1	548.9	894.3	872.3	22.01	40.638	
12,300.0	12,229.2	12,259.3	12,194.2	11.4	12.2	96.29	-8.7	551.8	903.7	881.6	22.09	40.908	
12,350.0	12,259.7	12,313.4	12,231.1	11.4	12.3	95.40	30.8	554.5	913.1	890.9	22.20	41.125	
12,400.0	12,286.6	12,368.1	12,264.5	11.5	12.3	94.55	74.0	556.9	922.3	899.9	22.34	41.280	
12,450.0	12,309.8	12,423.4	12,293.8	11.6	12.4	93.75	120.7	558.9	931.3	908.8	22.51	41.364	
12,500.0	12,329.0	12,479.1	12,318.8	11.7	12.5	92.97	170.5	560.6	940.0	917.3	22.72	41.375	
12,550.0	12,344.1	12,535.4	12,339.1	11.8	12.6	92.24	223.0	561.9	948.3	925.4	22.96	41.308	
12,600.0	12,355.1	12,592.2	12,354.2	11.9	12.7	91.54	277.7	562.7	956.3	933.0	23.23	41.165	
12,650.0	12,361.7	12,649.4	12,363.8	12.0	12.8	90.87	334.0	563.1	963.7	940.1	23.53	40.950	
12,700.1	12,364.0	12,707.0	12,367.9	12.1	12.9	90.25	391.5	563.1	970.6	946.7	23.87	40.664	
12,800.0	12,364.3	12,807.7	12,368.2	12.4	13.1	90.24	492.2	562.5	981.8	957.2	24.56	39.970	
12,900.0	12,364.5	12,907.4	12,368.4	12.7	13.4	90.23	591.9	561.9	989.5	964.2	25.35	39.033	
13,000.0	12,364.8	13,007.3	12,368.6	13.1	13.8	90.22	691.8	561.2	993.8	967.6	26.23	37.891	
13,072.5	12,364.9	13,079.8	12,368.7	13.5	14.0	90.22	764.3	560.8	994.7	967.8	26.91	36.962	
13,100.0	12,365.0	13,107.3	12,368.8	13.6	14.2	90.22	791.8	560.6	994.7	967.6	27.18	36.600	
13,200.0	12,365.2	13,207.3	12,369.0	14.1	14.6	90.22	891.8	560.0	994.7	966.5	28.21	35.267	
13,300.0	12,365.5	13,307.3	12,369.2	14.6	15.1	90.21	991.8	559.4	994.7	965.4	29.30	33.952	
13,400.0	12,365.7	13,407.3	12,369.4	15.2	15.6	90.21	1,091.8	558.8	994.7	964.3	30.45	32.668	
13,500.0	12,366.0	13,507.3	12,369.6	15.8	16.2	90.21	1,191.8	558.2	994.7	963.1	31.65	31.426	
13,600.0	12,366.2	13,607.3	12,369.8	16.4	16.7	90.21	1,291.8	557.6	994.8	961.8	32.90	30.232	
13,700.0	12,366.4	13,707.3	12,370.0	17.0	17.3	90.20	1,391.8	557.0	994.8	960.6	34.20	29.090	
13,800.0	12,366.7	13,807.3	12,370.2	17.7	18.0	90.20	1,491.8	556.3	994.8	959.2	35.52	28.002	
13,900.0	12,366.9	13,907.3	12,370.4	18.4	18.6	90.20	1,591.8	555.7	994.8	957.9	36.89	26.969	
14,000.0	12,367.2	14,007.3	12,370.6	19.1	19.3	90.20	1,691.8	555.1	994.8	956.5	38.28	25.989	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 11791-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	12,367.4	14,107.3	12,370.8	19.8	20.0	90.19	1,791.8	554.5	994.8	955.1	39.69	25.062		
14,200.0	12,367.7	14,207.3	12,371.0	20.5	20.7	90.19	1,891.8	553.9	994.8	953.6	41.13	24.184		
14,300.0	12,367.9	14,307.3	12,371.2	21.3	21.4	90.19	1,991.8	553.3	994.8	952.2	42.59	23.355		
14,400.0	12,368.1	14,407.3	12,371.4	22.0	22.2	90.19	2,091.8	552.7	994.8	950.7	44.07	22.570		
14,500.0	12,368.4	14,507.3	12,371.6	22.8	22.9	90.19	2,191.8	552.1	994.8	949.2	45.57	21.828		
14,600.0	12,368.6	14,607.3	12,371.8	23.5	23.6	90.18	2,291.8	551.4	994.8	947.7	47.09	21.127		
14,700.0	12,368.9	14,707.3	12,372.0	24.3	24.4	90.18	2,391.8	550.8	994.8	946.2	48.61	20.463		
14,800.0	12,369.1	14,807.3	12,372.2	25.0	25.2	90.18	2,491.8	550.2	994.8	944.6	50.15	19.835		
14,900.0	12,369.4	14,907.3	12,372.4	25.8	25.9	90.18	2,591.8	549.6	994.8	943.1	51.71	19.239		
15,000.0	12,369.6	15,007.3	12,372.6	26.6	26.7	90.17	2,691.8	549.0	994.8	941.5	53.27	18.675		
15,100.0	12,369.8	15,107.3	12,372.8	27.4	27.5	90.17	2,791.8	548.4	994.8	940.0	54.84	18.140		
15,200.0	12,370.1	15,207.3	12,373.0	28.2	28.3	90.17	2,891.8	547.8	994.8	938.4	56.42	17.631		
15,300.0	12,370.3	15,307.3	12,373.2	29.0	29.1	90.17	2,991.8	547.2	994.8	936.8	58.01	17.148		
15,400.0	12,370.6	15,407.3	12,373.4	29.8	29.9	90.16	3,091.8	546.5	994.8	935.2	59.61	16.689		
15,500.0	12,370.8	15,507.3	12,373.6	30.6	30.6	90.16	3,191.8	545.9	994.8	933.6	61.21	16.252		
15,600.0	12,371.0	15,607.3	12,373.8	31.4	31.5	90.16	3,291.8	545.3	994.8	932.0	62.82	15.835		
15,700.0	12,371.3	15,707.3	12,374.0	32.2	32.3	90.16	3,391.8	544.7	994.8	930.4	64.44	15.438		
15,800.0	12,371.5	15,807.3	12,374.2	33.0	33.1	90.16	3,491.7	544.1	994.8	928.7	66.06	15.059		
15,900.0	12,371.8	15,907.3	12,374.4	33.8	33.9	90.15	3,591.7	543.5	994.8	927.1	67.69	14.697		
16,000.0	12,372.0	16,007.3	12,374.6	34.7	34.7	90.15	3,691.7	542.9	994.8	925.5	69.32	14.351		
16,100.0	12,372.3	16,107.3	12,374.8	35.5	35.5	90.15	3,791.7	542.3	994.8	923.9	70.96	14.020		
16,200.0	12,372.5	16,207.3	12,375.0	36.3	36.3	90.15	3,891.7	541.6	994.8	922.2	72.60	13.703		
16,300.0	12,372.7	16,307.3	12,375.2	37.1	37.1	90.14	3,991.7	541.0	994.8	920.6	74.24	13.400		
16,400.0	12,373.0	16,407.3	12,375.4	37.9	38.0	90.14	4,091.7	540.4	994.8	918.9	75.89	13.109		
16,500.0	12,373.2	16,507.3	12,375.6	38.8	38.8	90.14	4,191.7	539.8	994.8	917.3	77.54	12.830		
16,600.0	12,373.5	16,607.3	12,375.9	39.6	39.6	90.14	4,291.7	539.2	994.8	915.6	79.19	12.562		
16,700.0	12,373.7	16,707.3	12,376.1	40.4	40.4	90.13	4,391.7	538.6	994.8	914.0	80.85	12.305		
16,800.0	12,374.0	16,807.3	12,376.3	41.3	41.3	90.13	4,491.7	538.0	994.8	912.3	82.51	12.057		
16,900.0	12,374.2	16,907.3	12,376.5	42.1	42.1	90.13	4,591.7	537.3	994.8	910.7	84.17	11.819		
17,000.0	12,374.4	17,007.3	12,376.7	42.9	42.9	90.13	4,691.7	536.7	994.8	909.0	85.84	11.590		
17,100.0	12,374.7	17,107.3	12,376.9	43.8	43.8	90.13	4,791.7	536.1	994.8	907.3	87.51	11.369		
17,200.0	12,374.9	17,207.3	12,377.1	44.6	44.6	90.12	4,891.7	535.5	994.8	905.7	89.18	11.156		
17,300.0	12,375.2	17,307.3	12,377.3	45.4	45.4	90.12	4,991.7	534.9	994.9	904.0	90.85	10.951		
17,400.0	12,375.4	17,407.3	12,377.5	46.3	46.3	90.12	5,091.7	534.3	994.9	902.3	92.52	10.753		
17,500.0	12,375.6	17,507.3	12,377.7	47.1	47.1	90.12	5,191.7	533.7	994.9	900.7	94.20	10.561		
17,600.0	12,375.9	17,607.3	12,377.9	47.9	47.9	90.11	5,291.7	533.1	994.9	899.0	95.87	10.377		
17,700.0	12,376.1	17,707.3	12,378.1	48.8	48.8	90.11	5,391.7	532.4	994.9	897.3	97.55	10.198		
17,800.0	12,376.4	17,807.3	12,378.3	49.6	49.6	90.11	5,491.7	531.8	994.9	895.6	99.23	10.025		
17,900.0	12,376.6	17,907.3	12,378.5	50.5	50.5	90.11	5,591.7	531.2	994.9	894.0	100.92	9.858		
18,000.0	12,376.9	18,007.3	12,378.7	51.3	51.3	90.10	5,691.7	530.6	994.9	892.3	102.60	9.697		
18,100.0	12,377.1	18,107.3	12,378.9	52.2	52.1	90.10	5,791.7	530.0	994.9	890.6	104.28	9.540		
18,200.0	12,377.3	18,207.3	12,379.1	53.0	53.0	90.10	5,891.7	529.4	994.9	888.9	105.97	9.388		
18,300.0	12,377.6	18,307.3	12,379.3	53.8	53.8	90.10	5,991.7	528.8	994.9	887.2	107.66	9.241		
18,400.0	12,377.8	18,407.3	12,379.5	54.7	54.7	90.10	6,091.7	528.2	994.9	885.5	109.35	9.098		
18,500.0	12,378.1	18,507.3	12,379.7	55.5	55.5	90.09	6,191.7	527.5	994.9	883.8	111.04	8.960		
18,600.0	12,378.3	18,607.3	12,379.9	56.4	56.4	90.09	6,291.7	526.9	994.9	882.2	112.73	8.826		
18,700.0	12,378.6	18,707.3	12,380.1	57.2	57.2	90.09	6,391.7	526.3	994.9	880.5	114.42	8.695		
18,800.0	12,378.8	18,807.3	12,380.3	58.1	58.0	90.09	6,491.7	525.7	994.9	878.8	116.11	8.568		
18,900.0	12,379.0	18,907.3	12,380.5	58.9	58.9	90.08	6,591.7	525.1	994.9	877.1	117.80	8.445		
19,000.0	12,379.3	19,007.3	12,380.7	59.8	59.7	90.08	6,691.7	524.5	994.9	875.4	119.50	8.326		
19,100.0	12,379.5	19,107.3	12,380.9	60.6	60.6	90.08	6,791.7	523.9	994.9	873.7	121.20	8.209		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	3.0 usft
BEDLINGTON FEDERAL PROJECT (BULLDOG 2332) - BEDLINGTON FED COM 703H - OWB - PWP												Offset Well Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 11791-MWD+IFR1+FDIR													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,200.0	12,379.8	19,207.3	12,381.1	61.5	61.4	90.08	6,891.7	523.3	994.9	872.0	122.89	8.096	
19,300.0	12,380.0	19,307.3	12,381.3	62.3	62.3	90.08	6,991.7	522.6	994.9	870.3	124.59	7.986	
19,400.0	12,380.3	19,407.3	12,381.5	63.2	63.1	90.07	7,091.7	522.0	994.9	868.6	126.29	7.878	
19,500.0	12,380.5	19,507.3	12,381.7	64.0	64.0	90.07	7,191.7	521.4	994.9	866.9	127.98	7.774	
19,600.0	12,380.7	19,607.3	12,381.9	64.9	64.8	90.07	7,291.7	520.8	994.9	865.2	129.68	7.672	
19,700.0	12,381.0	19,707.3	12,382.1	65.7	65.7	90.07	7,391.7	520.2	994.9	863.5	131.38	7.573	
19,800.0	12,381.2	19,807.3	12,382.3	66.6	66.5	90.06	7,491.7	519.6	994.9	861.8	133.08	7.476	
19,900.0	12,381.5	19,907.3	12,382.5	67.4	67.4	90.06	7,591.7	519.0	994.9	860.1	134.79	7.381	
20,000.0	12,381.7	20,007.3	12,382.7	68.3	68.2	90.06	7,691.7	518.3	994.9	858.4	136.49	7.289	
20,100.0	12,381.9	20,107.3	12,382.9	69.1	69.1	90.06	7,791.7	517.7	994.9	856.7	138.19	7.200	
20,200.0	12,382.2	20,207.3	12,383.1	70.0	69.9	90.05	7,891.7	517.1	994.9	855.0	139.89	7.112	
20,300.0	12,382.4	20,307.3	12,383.3	70.8	70.8	90.05	7,991.7	516.5	994.9	853.3	141.60	7.027	
20,400.0	12,382.7	20,407.3	12,383.5	71.7	71.6	90.05	8,091.7	515.9	994.9	851.6	143.30	6.943	
20,500.0	12,382.9	20,507.3	12,383.7	72.5	72.5	90.05	8,191.6	515.3	994.9	849.9	145.01	6.861	
20,600.0	12,383.2	20,607.3	12,383.9	73.4	73.3	90.05	8,291.6	514.7	994.9	848.2	146.71	6.782	
20,700.0	12,383.4	20,707.3	12,384.1	74.2	74.2	90.04	8,391.6	514.1	994.9	846.5	148.42	6.704	
20,800.0	12,383.6	20,807.3	12,384.3	75.1	75.0	90.04	8,491.6	513.4	994.9	844.8	150.12	6.628	
20,900.0	12,383.9	20,907.3	12,384.6	75.9	75.9	90.04	8,591.6	512.8	994.9	843.1	151.83	6.553	
21,000.0	12,384.1	21,007.3	12,384.8	76.8	76.8	90.04	8,691.6	512.2	995.0	841.4	153.53	6.480	
21,100.0	12,384.4	21,107.3	12,385.0	77.6	77.6	90.03	8,791.6	511.6	995.0	839.7	155.24	6.409	
21,200.0	12,384.6	21,207.3	12,385.2	78.5	78.5	90.03	8,891.6	511.0	995.0	838.0	156.95	6.339	
21,300.0	12,384.9	21,307.3	12,385.4	79.3	79.3	90.03	8,991.6	510.4	995.0	836.3	158.66	6.271	
21,400.0	12,385.1	21,407.3	12,385.6	80.2	80.2	90.03	9,091.6	509.8	995.0	834.6	160.37	6.204	
21,500.0	12,385.3	21,507.3	12,385.8	81.1	81.0	90.02	9,191.6	509.2	995.0	832.9	162.07	6.139	
21,600.0	12,385.6	21,607.3	12,386.0	81.9	81.9	90.02	9,291.6	508.5	995.0	831.2	163.78	6.075	
21,700.0	12,385.8	21,707.3	12,386.2	82.8	82.7	90.02	9,391.6	507.9	995.0	829.5	165.49	6.012	
21,800.0	12,386.1	21,807.3	12,386.4	83.6	83.6	90.02	9,491.6	507.3	995.0	827.8	167.20	5.951	
21,900.0	12,386.3	21,907.3	12,386.6	84.5	84.4	90.02	9,591.6	506.7	995.0	826.1	168.91	5.890	
22,000.0	12,386.5	22,007.3	12,386.8	85.3	85.3	90.01	9,691.6	506.1	995.0	824.4	170.62	5.831	
22,100.0	12,386.8	22,107.3	12,387.0	86.2	86.1	90.01	9,791.6	505.5	995.0	822.6	172.33	5.774	
22,200.0	12,387.0	22,207.3	12,387.2	87.0	87.0	90.01	9,891.6	504.9	995.0	820.9	174.04	5.717	
22,300.0	12,387.3	22,307.3	12,387.4	87.9	87.9	90.01	9,991.6	504.3	995.0	819.2	175.76	5.661	
22,400.0	12,387.5	22,407.3	12,387.6	88.8	88.7	90.00	10,091.6	503.6	995.0	817.5	177.47	5.607	
22,500.0	12,387.8	22,507.3	12,387.8	89.6	89.6	90.00	10,191.6	503.0	995.0	815.8	179.18	5.553	
22,599.4	12,388.0	22,606.8	12,388.0	90.5	90.4	90.00	10,291.0	502.4	995.0	814.1	180.88	5.501	

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

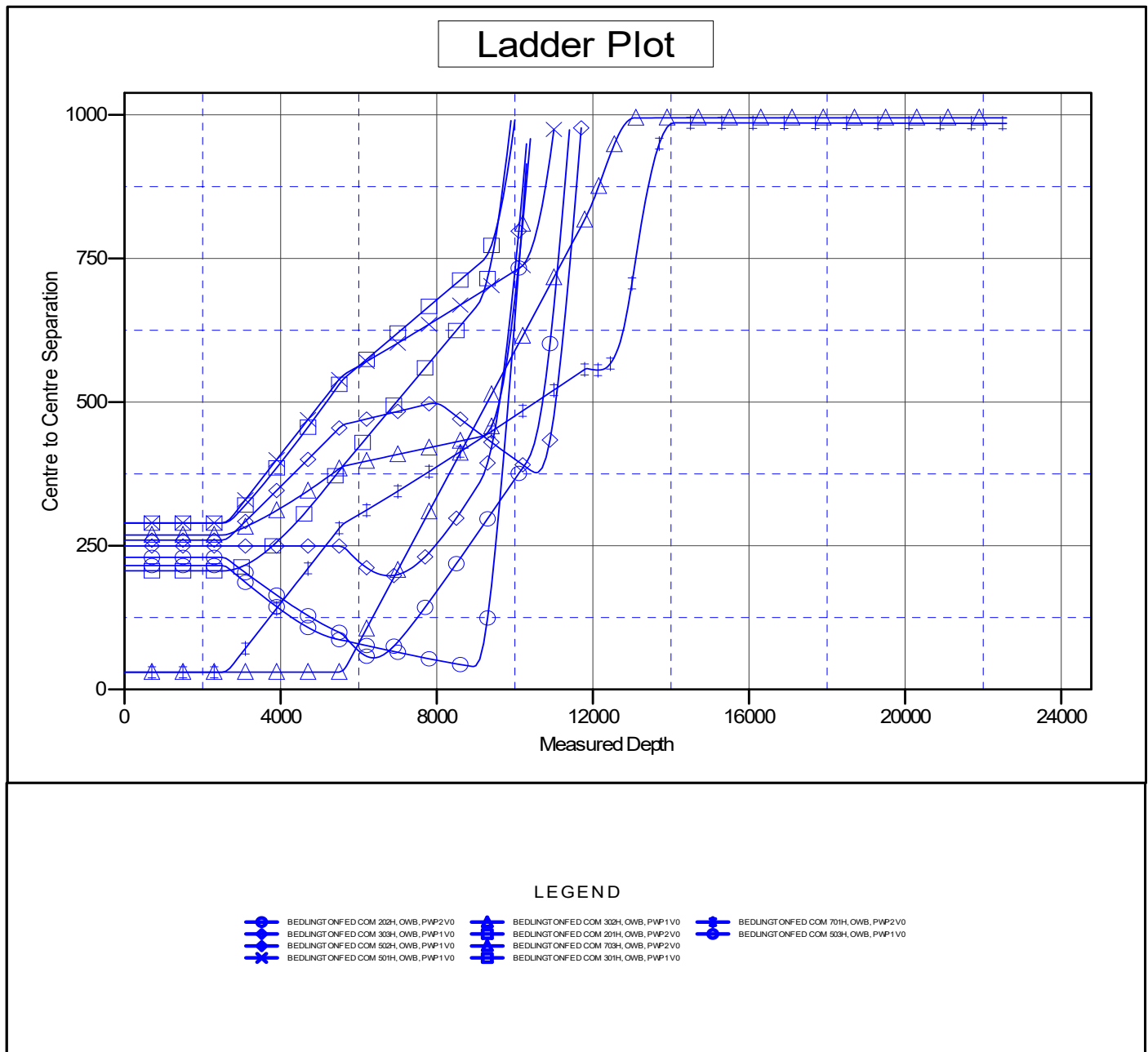
Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=26' @ 3649.0usft (McVay 8)
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: BEDLINGTON FED COM 702H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.37°



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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Reference Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	BEDLINGTON FED COM 702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=26' @ 3649.0usft (McVay 8)

Offset Depths are relative to Offset Datum

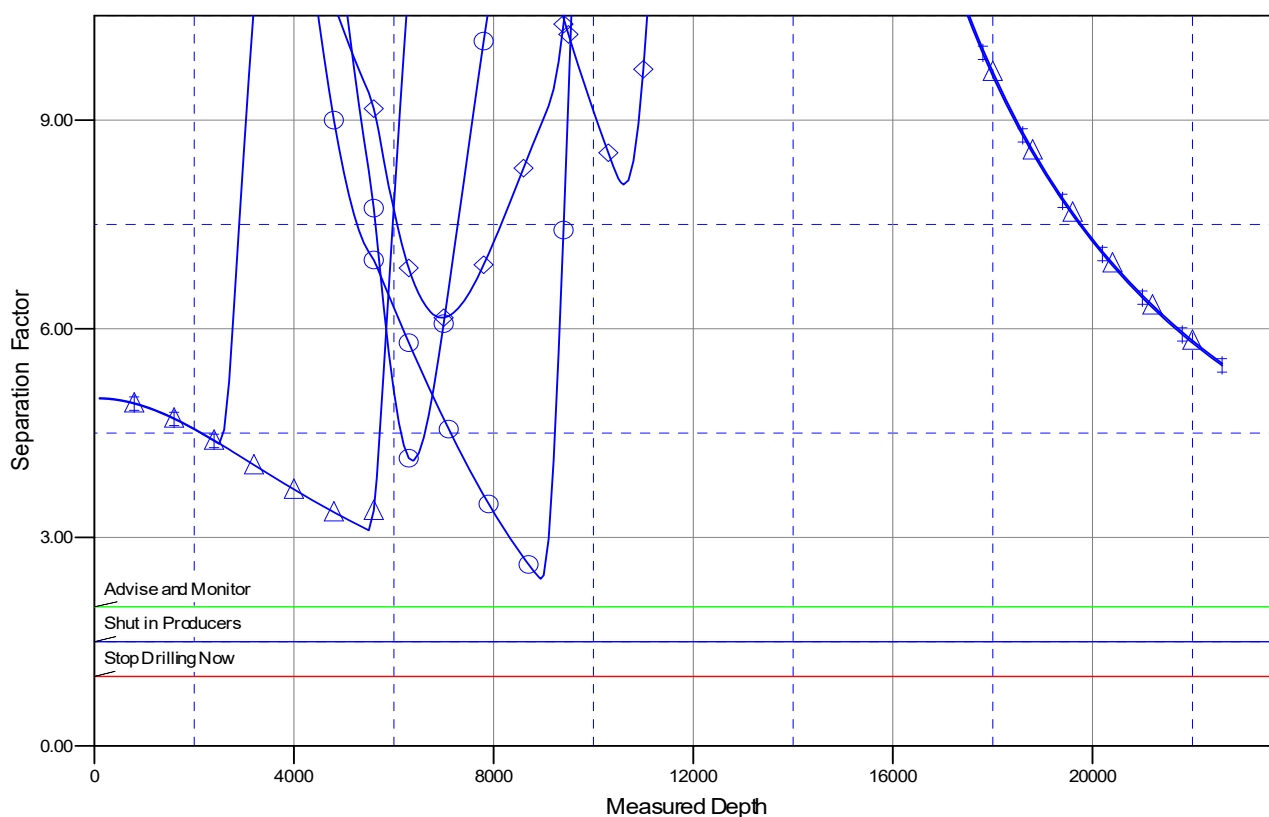
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: BEDLINGTON FED COM 702H

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

Grid Convergence at Surface is: 0.37°

Separation Factor Plot



LEGEND

	BEDLINGTON FED COM 202H, OWB, PWP2 V0		BEDLINGTON FED COM 303H, OWB, PWP1 V0		BEDLINGTON FED COM 701H, OWB, PWP2 V0
	BEDLINGTON FED COM 303H, OWB, PWP1 V0		BEDLINGTON FED COM 201H, OWB, PWP2 V0		BEDLINGTON FED COM 503H, OWB, PWP1 V0
	BEDLINGTON FED COM 502H, OWB, PWP1 V0		BEDLINGTON FED COM 703H, OWB, PWP2 V0		
	BEDLINGTON FED COM 504H, OWB, PWP1 V0		BEDLINGTON FED COM 301H, OWB, PWP1 V0		

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)

BEDLINGTON FED COM 702H

OWB

Plan: PWP2

Standard Survey Report

08 January, 2021

Concho Resources LLC
Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Well:	BEDLINGTON FED COM 702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	edm

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

Well	BEDLINGTON FED COM 702H		
Well Position	+N/-S	0.0 usft	Northing: 456,935.97 usfi
	+E/-W	0.0 usft	Easting: 711,913.41 usfi
Position Uncertainty		3.0 usft	Wellhead Elevation: usfi
			Latitude: 32° 15' 15.747 N
			Longitude: 103° 38' 52.216 W
			Ground Level: 3,623.0 usfi

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	1/8/2021	6.63	59.93	47,547.68177504

Design	PWP2				
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		357.26

Survey Tool Program	Date	1/8/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,787.0	PWP2 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,787.0	22,599.4	PWP2 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction	

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Well:	BEDLINGTON FED COM 702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	edm

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)
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Well:	BEDLINGTON FED COM 702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Start Build 2.00									
5,600.0	2.00	239.74	5,600.0	-0.9	-1.5	-0.8	2.00	2.00	0.00
5,660.3	3.21	239.74	5,660.2	-2.3	-3.9	-2.1	2.00	2.00	0.00
Start 6129.0 hold at 5660.3 MD									
5,700.0	3.21	239.74	5,699.9	-3.4	-5.8	-3.1	0.00	0.00	0.00
5,800.0	3.21	239.74	5,799.7	-6.2	-10.6	-5.7	0.00	0.00	0.00
5,900.0	3.21	239.74	5,899.5	-9.0	-15.5	-8.3	0.00	0.00	0.00
6,000.0	3.21	239.74	5,999.4	-11.8	-20.3	-10.8	0.00	0.00	0.00
6,100.0	3.21	239.74	6,099.2	-14.7	-25.1	-13.4	0.00	0.00	0.00
6,200.0	3.21	239.74	6,199.1	-17.5	-29.9	-16.0	0.00	0.00	0.00
6,300.0	3.21	239.74	6,298.9	-20.3	-34.8	-18.6	0.00	0.00	0.00
6,400.0	3.21	239.74	6,398.8	-23.1	-39.6	-21.2	0.00	0.00	0.00
6,500.0	3.21	239.74	6,498.6	-25.9	-44.4	-23.8	0.00	0.00	0.00
6,600.0	3.21	239.74	6,598.4	-28.7	-49.3	-26.4	0.00	0.00	0.00
6,700.0	3.21	239.74	6,698.3	-31.6	-54.1	-28.9	0.00	0.00	0.00
6,800.0	3.21	239.74	6,798.1	-34.4	-58.9	-31.5	0.00	0.00	0.00
6,900.0	3.21	239.74	6,898.0	-37.2	-63.8	-34.1	0.00	0.00	0.00
7,000.0	3.21	239.74	6,997.8	-40.0	-68.6	-36.7	0.00	0.00	0.00
7,100.0	3.21	239.74	7,097.7	-42.8	-73.4	-39.3	0.00	0.00	0.00
7,200.0	3.21	239.74	7,197.5	-45.7	-78.3	-41.9	0.00	0.00	0.00
7,300.0	3.21	239.74	7,297.3	-48.5	-83.1	-44.4	0.00	0.00	0.00
7,400.0	3.21	239.74	7,397.2	-51.3	-87.9	-47.0	0.00	0.00	0.00
7,500.0	3.21	239.74	7,497.0	-54.1	-92.8	-49.6	0.00	0.00	0.00
7,600.0	3.21	239.74	7,596.9	-56.9	-97.6	-52.2	0.00	0.00	0.00
7,700.0	3.21	239.74	7,696.7	-59.7	-102.4	-54.8	0.00	0.00	0.00
7,800.0	3.21	239.74	7,796.6	-62.6	-107.3	-57.4	0.00	0.00	0.00
7,900.0	3.21	239.74	7,896.4	-65.4	-112.1	-59.9	0.00	0.00	0.00
8,000.0	3.21	239.74	7,996.3	-68.2	-116.9	-62.5	0.00	0.00	0.00
8,100.0	3.21	239.74	8,096.1	-71.0	-121.7	-65.1	0.00	0.00	0.00
8,200.0	3.21	239.74	8,195.9	-73.8	-126.6	-67.7	0.00	0.00	0.00
8,300.0	3.21	239.74	8,295.8	-76.7	-131.4	-70.3	0.00	0.00	0.00
8,400.0	3.21	239.74	8,395.6	-79.5	-136.2	-72.9	0.00	0.00	0.00
8,500.0	3.21	239.74	8,495.5	-82.3	-141.1	-75.5	0.00	0.00	0.00
8,600.0	3.21	239.74	8,595.3	-85.1	-145.9	-78.0	0.00	0.00	0.00
8,700.0	3.21	239.74	8,695.2	-87.9	-150.7	-80.6	0.00	0.00	0.00
8,800.0	3.21	239.74	8,795.0	-90.7	-155.6	-83.2	0.00	0.00	0.00
8,900.0	3.21	239.74	8,894.8	-93.6	-160.4	-85.8	0.00	0.00	0.00
9,000.0	3.21	239.74	8,994.7	-96.4	-165.2	-88.4	0.00	0.00	0.00
9,100.0	3.21	239.74	9,094.5	-99.2	-170.1	-91.0	0.00	0.00	0.00
9,200.0	3.21	239.74	9,194.4	-102.0	-174.9	-93.5	0.00	0.00	0.00
9,300.0	3.21	239.74	9,294.2	-104.8	-179.7	-96.1	0.00	0.00	0.00
9,400.0	3.21	239.74	9,394.1	-107.7	-184.6	-98.7	0.00	0.00	0.00
9,500.0	3.21	239.74	9,493.9	-110.5	-189.4	-101.3	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 702H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Well:	BEDLINGTON FED COM 702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,600.0	3.21	239.74	9,593.7	-113.3	-194.2	-103.9	0.00	0.00	0.00
9,700.0	3.21	239.74	9,693.6	-116.1	-199.1	-106.5	0.00	0.00	0.00
9,800.0	3.21	239.74	9,793.4	-118.9	-203.9	-109.0	0.00	0.00	0.00
9,900.0	3.21	239.74	9,893.3	-121.8	-208.7	-111.6	0.00	0.00	0.00
10,000.0	3.21	239.74	9,993.1	-124.6	-213.5	-114.2	0.00	0.00	0.00
10,100.0	3.21	239.74	10,093.0	-127.4	-218.4	-116.8	0.00	0.00	0.00
10,200.0	3.21	239.74	10,192.8	-130.2	-223.2	-119.4	0.00	0.00	0.00
10,300.0	3.21	239.74	10,292.7	-133.0	-228.0	-122.0	0.00	0.00	0.00
10,400.0	3.21	239.74	10,392.5	-135.8	-232.9	-124.5	0.00	0.00	0.00
10,500.0	3.21	239.74	10,492.3	-138.7	-237.7	-127.1	0.00	0.00	0.00
10,600.0	3.21	239.74	10,592.2	-141.5	-242.5	-129.7	0.00	0.00	0.00
10,700.0	3.21	239.74	10,692.0	-144.3	-247.4	-132.3	0.00	0.00	0.00
10,800.0	3.21	239.74	10,791.9	-147.1	-252.2	-134.9	0.00	0.00	0.00
10,900.0	3.21	239.74	10,891.7	-149.9	-257.0	-137.5	0.00	0.00	0.00
11,000.0	3.21	239.74	10,991.6	-152.8	-261.9	-140.1	0.00	0.00	0.00
11,100.0	3.21	239.74	11,091.4	-155.6	-266.7	-142.6	0.00	0.00	0.00
11,200.0	3.21	239.74	11,191.2	-158.4	-271.5	-145.2	0.00	0.00	0.00
11,300.0	3.21	239.74	11,291.1	-161.2	-276.4	-147.8	0.00	0.00	0.00
11,400.0	3.21	239.74	11,390.9	-164.0	-281.2	-150.4	0.00	0.00	0.00
11,500.0	3.21	239.74	11,490.8	-166.8	-286.0	-153.0	0.00	0.00	0.00
11,600.0	3.21	239.74	11,590.6	-169.7	-290.9	-155.6	0.00	0.00	0.00
11,700.0	3.21	239.74	11,690.5	-172.5	-295.7	-158.1	0.00	0.00	0.00
11,789.3	3.21	239.74	11,779.6	-175.0	-300.0	-160.4	0.00	0.00	0.00
Start DLS 10.00 TFO 112.43									
11,800.0	2.97	259.26	11,790.3	-175.2	-300.5	-160.6	10.00	-2.23	182.03
11,900.0	10.28	335.62	11,889.7	-167.5	-306.8	-152.7	10.00	7.31	76.36
12,000.0	20.06	344.06	11,986.1	-142.9	-315.2	-127.6	10.00	9.78	8.44
12,100.0	29.98	347.06	12,076.6	-101.9	-325.5	-86.2	10.00	9.92	3.00
12,200.0	39.94	348.66	12,158.5	-46.0	-337.5	-29.8	10.00	9.96	1.60
12,300.0	49.91	349.71	12,229.2	23.3	-350.6	40.1	10.00	9.97	1.05
12,400.0	59.89	350.49	12,286.6	103.8	-364.7	121.2	10.00	9.98	0.78
12,500.0	69.88	351.12	12,329.0	193.1	-379.1	211.0	10.00	9.98	0.63
12,600.0	79.86	351.68	12,355.1	288.4	-393.5	306.9	10.00	9.99	0.56
12,700.0	89.85	352.20	12,364.0	386.9	-407.4	406.0	10.00	9.99	0.52
12,700.1	89.86	352.20	12,364.0	387.0	-407.5	406.1	10.00	9.99	0.52
Start DLS 2.00 TFO 90.00									
12,800.0	89.86	354.20	12,364.3	486.2	-419.3	505.7	2.00	0.00	2.00
12,900.0	89.86	356.20	12,364.5	585.9	-427.7	605.6	2.00	0.00	2.00
13,000.0	89.86	358.20	12,364.8	685.7	-432.5	705.6	2.00	0.00	2.00
13,072.5	89.86	359.65	12,364.9	758.2	-433.9	778.1	2.00	0.00	2.00
Start 9527.0 hold at 13072.5 MD									
13,100.0	89.86	359.65	12,365.0	785.7	-434.1	805.6	0.00	0.00	0.00
13,200.0	89.86	359.65	12,365.2	885.7	-434.7	905.5	0.00	0.00	0.00

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Well:	BEDLINGTON FED COM 702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	edm

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)
13,300.0	89.86	359.65	12,365.5	985.7	-435.3	1,005.4	0.00	0.00	0.00
13,400.0	89.86	359.65	12,365.7	1,085.7	-435.9	1,105.3	0.00	0.00	0.00
13,500.0	89.86	359.65	12,366.0	1,185.7	-436.5	1,205.2	0.00	0.00	0.00
13,600.0	89.86	359.65	12,366.2	1,285.7	-437.2	1,305.1	0.00	0.00	0.00
13,700.0	89.86	359.65	12,366.4	1,385.7	-437.8	1,405.1	0.00	0.00	0.00
13,800.0	89.86	359.65	12,366.7	1,485.7	-438.4	1,505.0	0.00	0.00	0.00
13,900.0	89.86	359.65	12,366.9	1,585.7	-439.0	1,604.9	0.00	0.00	0.00
14,000.0	89.86	359.65	12,367.2	1,685.7	-439.6	1,704.8	0.00	0.00	0.00
14,100.0	89.86	359.65	12,367.4	1,785.7	-440.2	1,804.7	0.00	0.00	0.00
14,200.0	89.86	359.65	12,367.7	1,885.7	-440.8	1,904.6	0.00	0.00	0.00
14,300.0	89.86	359.65	12,367.9	1,985.7	-441.5	2,004.5	0.00	0.00	0.00
14,400.0	89.86	359.65	12,368.1	2,085.7	-442.1	2,104.4	0.00	0.00	0.00
14,500.0	89.86	359.65	12,368.4	2,185.7	-442.7	2,204.4	0.00	0.00	0.00
14,600.0	89.86	359.65	12,368.6	2,285.7	-443.3	2,304.3	0.00	0.00	0.00
14,700.0	89.86	359.65	12,368.9	2,385.7	-443.9	2,404.2	0.00	0.00	0.00
14,800.0	89.86	359.65	12,369.1	2,485.7	-444.5	2,504.1	0.00	0.00	0.00
14,900.0	89.86	359.65	12,369.4	2,585.7	-445.2	2,604.0	0.00	0.00	0.00
15,000.0	89.86	359.65	12,369.6	2,685.7	-445.8	2,703.9	0.00	0.00	0.00
15,100.0	89.86	359.65	12,369.8	2,785.7	-446.4	2,803.8	0.00	0.00	0.00
15,200.0	89.86	359.65	12,370.1	2,885.7	-447.0	2,903.7	0.00	0.00	0.00
15,300.0	89.86	359.65	12,370.3	2,985.7	-447.6	3,003.7	0.00	0.00	0.00
15,400.0	89.86	359.65	12,370.6	3,085.7	-448.2	3,103.6	0.00	0.00	0.00
15,500.0	89.86	359.65	12,370.8	3,185.7	-448.9	3,203.5	0.00	0.00	0.00
15,600.0	89.86	359.65	12,371.0	3,285.7	-449.5	3,303.4	0.00	0.00	0.00
15,700.0	89.86	359.65	12,371.3	3,385.7	-450.1	3,403.3	0.00	0.00	0.00
15,800.0	89.86	359.65	12,371.5	3,485.7	-450.7	3,503.2	0.00	0.00	0.00
15,900.0	89.86	359.65	12,371.8	3,585.7	-451.3	3,603.1	0.00	0.00	0.00
16,000.0	89.86	359.65	12,372.0	3,685.7	-451.9	3,703.1	0.00	0.00	0.00
16,100.0	89.86	359.65	12,372.3	3,785.7	-452.5	3,803.0	0.00	0.00	0.00
16,200.0	89.86	359.65	12,372.5	3,885.6	-453.2	3,902.9	0.00	0.00	0.00
16,300.0	89.86	359.65	12,372.7	3,985.6	-453.8	4,002.8	0.00	0.00	0.00
16,400.0	89.86	359.65	12,373.0	4,085.6	-454.4	4,102.7	0.00	0.00	0.00
16,500.0	89.86	359.65	12,373.2	4,185.6	-455.0	4,202.6	0.00	0.00	0.00
16,600.0	89.86	359.65	12,373.5	4,285.6	-455.6	4,302.5	0.00	0.00	0.00
16,700.0	89.86	359.65	12,373.7	4,385.6	-456.2	4,402.4	0.00	0.00	0.00
16,800.0	89.86	359.65	12,374.0	4,485.6	-456.9	4,502.4	0.00	0.00	0.00
16,900.0	89.86	359.65	12,374.2	4,585.6	-457.5	4,602.3	0.00	0.00	0.00
17,000.0	89.86	359.65	12,374.4	4,685.6	-458.1	4,702.2	0.00	0.00	0.00
17,100.0	89.86	359.65	12,374.7	4,785.6	-458.7	4,802.1	0.00	0.00	0.00
17,200.0	89.86	359.65	12,374.9	4,885.6	-459.3	4,902.0	0.00	0.00	0.00
17,300.0	89.86	359.65	12,375.2	4,985.6	-459.9	5,001.9	0.00	0.00	0.00
17,400.0	89.86	359.65	12,375.4	5,085.6	-460.5	5,101.8	0.00	0.00	0.00
17,500.0	89.86	359.65	12,375.6	5,185.6	-461.2	5,201.7	0.00	0.00	0.00

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Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,600.0	89.86	359.65	12,375.9	5,285.6	-461.8	5,301.7	0.00	0.00	0.00
17,700.0	89.86	359.65	12,376.1	5,385.6	-462.4	5,401.6	0.00	0.00	0.00
17,800.0	89.86	359.65	12,376.4	5,485.6	-463.0	5,501.5	0.00	0.00	0.00
17,900.0	89.86	359.65	12,376.6	5,585.6	-463.6	5,601.4	0.00	0.00	0.00
18,000.0	89.86	359.65	12,376.9	5,685.6	-464.2	5,701.3	0.00	0.00	0.00
18,100.0	89.86	359.65	12,377.1	5,785.6	-464.9	5,801.2	0.00	0.00	0.00
18,200.0	89.86	359.65	12,377.3	5,885.6	-465.5	5,901.1	0.00	0.00	0.00
18,300.0	89.86	359.65	12,377.6	5,985.6	-466.1	6,001.0	0.00	0.00	0.00
18,400.0	89.86	359.65	12,377.8	6,085.6	-466.7	6,101.0	0.00	0.00	0.00
18,500.0	89.86	359.65	12,378.1	6,185.6	-467.3	6,200.9	0.00	0.00	0.00
18,600.0	89.86	359.65	12,378.3	6,285.6	-467.9	6,300.8	0.00	0.00	0.00
18,700.0	89.86	359.65	12,378.6	6,385.6	-468.6	6,400.7	0.00	0.00	0.00
18,800.0	89.86	359.65	12,378.8	6,485.6	-469.2	6,500.6	0.00	0.00	0.00
18,900.0	89.86	359.65	12,379.0	6,585.6	-469.8	6,600.5	0.00	0.00	0.00
19,000.0	89.86	359.65	12,379.3	6,685.6	-470.4	6,700.4	0.00	0.00	0.00
19,100.0	89.86	359.65	12,379.5	6,785.6	-471.0	6,800.3	0.00	0.00	0.00
19,200.0	89.86	359.65	12,379.8	6,885.6	-471.6	6,900.3	0.00	0.00	0.00
19,300.0	89.86	359.65	12,380.0	6,985.6	-472.2	7,000.2	0.00	0.00	0.00
19,400.0	89.86	359.65	12,380.3	7,085.6	-472.9	7,100.1	0.00	0.00	0.00
19,500.0	89.86	359.65	12,380.5	7,185.6	-473.5	7,200.0	0.00	0.00	0.00
19,600.0	89.86	359.65	12,380.7	7,285.6	-474.1	7,299.9	0.00	0.00	0.00
19,700.0	89.86	359.65	12,381.0	7,385.6	-474.7	7,399.8	0.00	0.00	0.00
19,800.0	89.86	359.65	12,381.2	7,485.6	-475.3	7,499.7	0.00	0.00	0.00
19,900.0	89.86	359.65	12,381.5	7,585.6	-475.9	7,599.7	0.00	0.00	0.00
20,000.0	89.86	359.65	12,381.7	7,685.6	-476.6	7,699.6	0.00	0.00	0.00
20,100.0	89.86	359.65	12,381.9	7,785.6	-477.2	7,799.5	0.00	0.00	0.00
20,200.0	89.86	359.65	12,382.2	7,885.6	-477.8	7,899.4	0.00	0.00	0.00
20,300.0	89.86	359.65	12,382.4	7,985.6	-478.4	7,999.3	0.00	0.00	0.00
20,400.0	89.86	359.65	12,382.7	8,085.6	-479.0	8,099.2	0.00	0.00	0.00
20,500.0	89.86	359.65	12,382.9	8,185.6	-479.6	8,199.1	0.00	0.00	0.00
20,600.0	89.86	359.65	12,383.2	8,285.6	-480.2	8,299.0	0.00	0.00	0.00
20,700.0	89.86	359.65	12,383.4	8,385.5	-480.9	8,399.0	0.00	0.00	0.00
20,800.0	89.86	359.65	12,383.6	8,485.5	-481.5	8,498.9	0.00	0.00	0.00
20,900.0	89.86	359.65	12,383.9	8,585.5	-482.1	8,598.8	0.00	0.00	0.00
21,000.0	89.86	359.65	12,384.1	8,685.5	-482.7	8,698.7	0.00	0.00	0.00
21,100.0	89.86	359.65	12,384.4	8,785.5	-483.3	8,798.6	0.00	0.00	0.00
21,200.0	89.86	359.65	12,384.6	8,885.5	-483.9	8,898.5	0.00	0.00	0.00
21,300.0	89.86	359.65	12,384.9	8,985.5	-484.6	8,998.4	0.00	0.00	0.00
21,400.0	89.86	359.65	12,385.1	9,085.5	-485.2	9,098.3	0.00	0.00	0.00
21,500.0	89.86	359.65	12,385.3	9,185.5	-485.8	9,198.3	0.00	0.00	0.00
21,600.0	89.86	359.65	12,385.6	9,285.5	-486.4	9,298.2	0.00	0.00	0.00
21,700.0	89.86	359.65	12,385.8	9,385.5	-487.0	9,398.1	0.00	0.00	0.00

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Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Well:	BEDLINGTON FED COM 702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP2	Database:	edm

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)
21,800.0	89.86	359.65	12,386.1	9,485.5	-487.6	9,498.0	0.00	0.00	0.00
21,900.0	89.86	359.65	12,386.3	9,585.5	-488.3	9,597.9	0.00	0.00	0.00
22,000.0	89.86	359.65	12,386.5	9,685.5	-488.9	9,697.8	0.00	0.00	0.00
22,100.0	89.86	359.65	12,386.8	9,785.5	-489.5	9,797.7	0.00	0.00	0.00
22,200.0	89.86	359.65	12,387.0	9,885.5	-490.1	9,897.6	0.00	0.00	0.00
22,300.0	89.86	359.65	12,387.3	9,985.5	-490.7	9,997.6	0.00	0.00	0.00
22,400.0	89.86	359.65	12,387.5	10,085.5	-491.3	10,097.5	0.00	0.00	0.00
22,500.0	89.86	359.65	12,387.8	10,185.5	-491.9	10,197.4	0.00	0.00	0.00
22,599.4	89.86	359.65	12,388.0	10,285.0	-492.6	10,296.7	0.00	0.00	0.00
TD at 22599.4									

Design Targets									
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	
FTP (BEDLINGTON F	- plan misses target center by 218.1usft at 12300.0usft MD (12229.2 TVD, 23.3 N, -350.6 E)	0.00	0.00	12,364.0	-129.0	-429.3	456,806.96	711,484.14	32° 15' 14.497 N 103° 38' 57.224 W
	- Circle (radius 50.0)								
PBHL (BEDLINGTON	- plan hits target center	-0.14	179.65	12,388.0	10,285.0	-492.6	467,220.92	711,420.85	32° 16' 57.554 N 103° 38' 57.188 W
	- Rectangle (sides W100.0 H10,413.0 D20.0)								
LTP (BEDLINGTON F	- plan misses target center by 49.4usft at 22500.0usft MD (12387.8 TVD, 10185.5 N, -491.9 E)	0.00	0.00	12,388.0	10,234.9	-492.2	467,170.92	711,421.17	32° 16' 57.059 N 103° 38' 57.188 W
	- Point								

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
5500	5500	0	0	Start Build 2.00
5660	5660	-2	-4	Start 6129.0 hold at 5660.3 MD
11,789	11,780	-175	-300	Start DLS 10.00 TFO 112.43
12,700	12,364	387	-407	Start DLS 2.00 TFO 90.00
13,072	12,365	758	-434	Start 9527.0 hold at 13072.5 MD
22,599	12,388	10,285	-493	TD at 22599.4

Checked By: _____

Approved By: _____

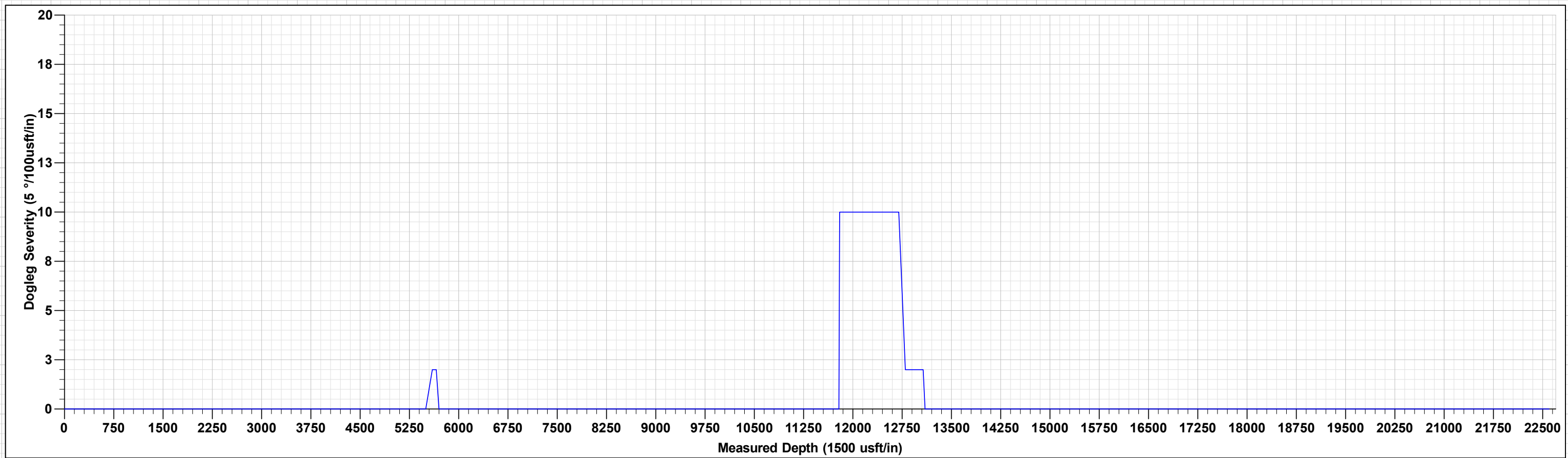
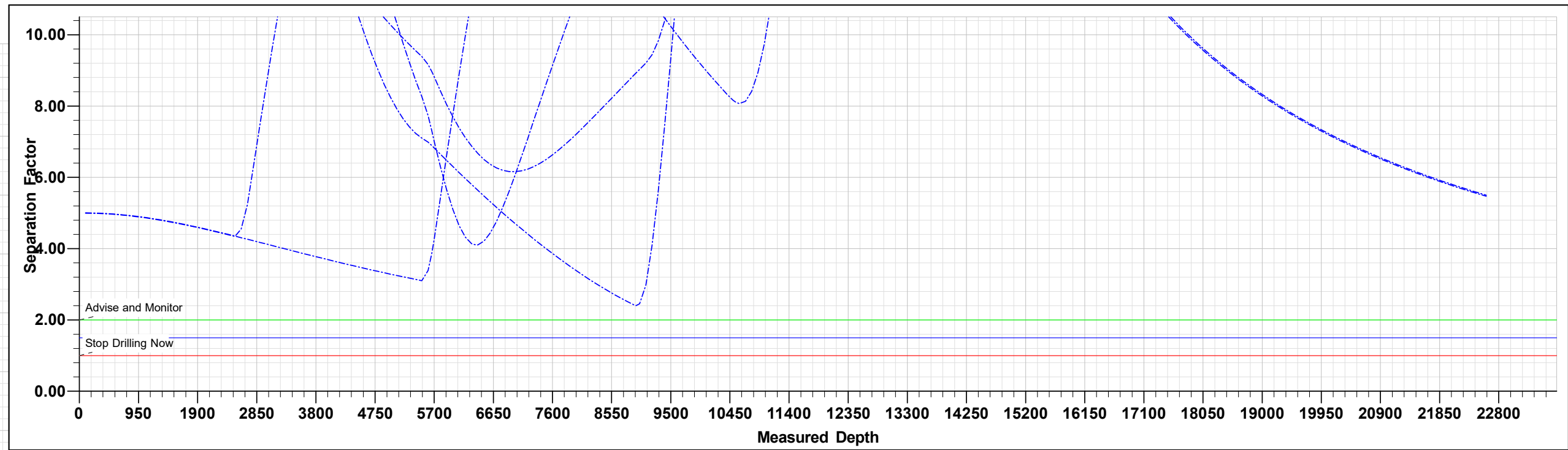
Date: _____



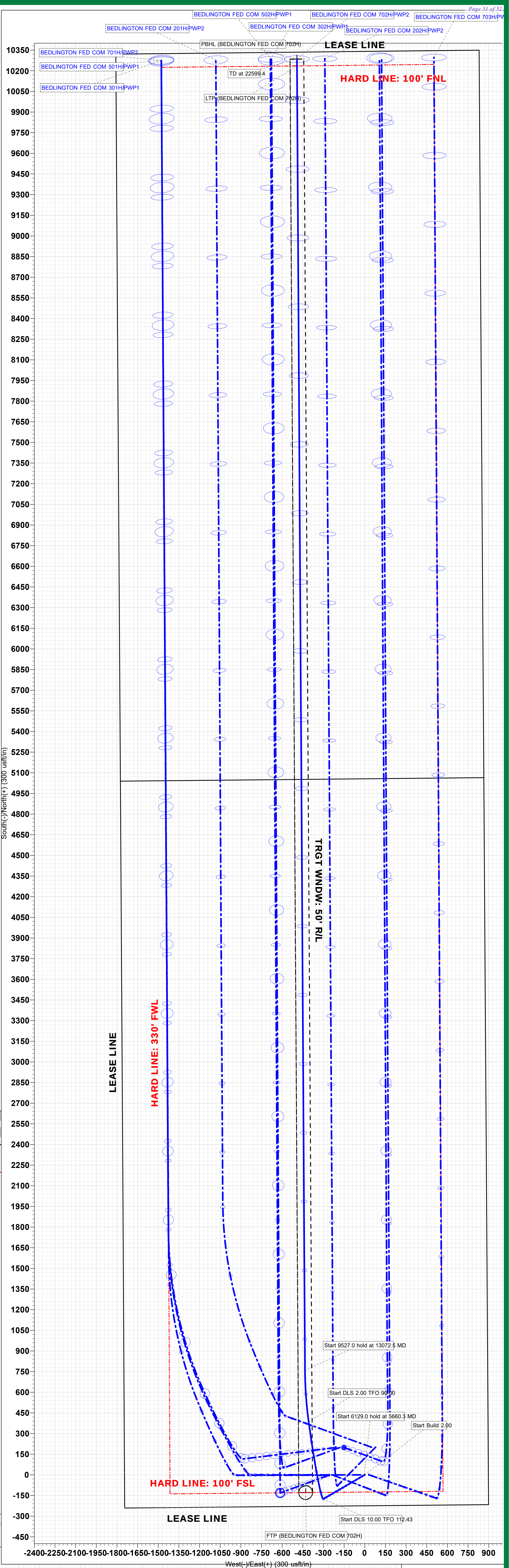
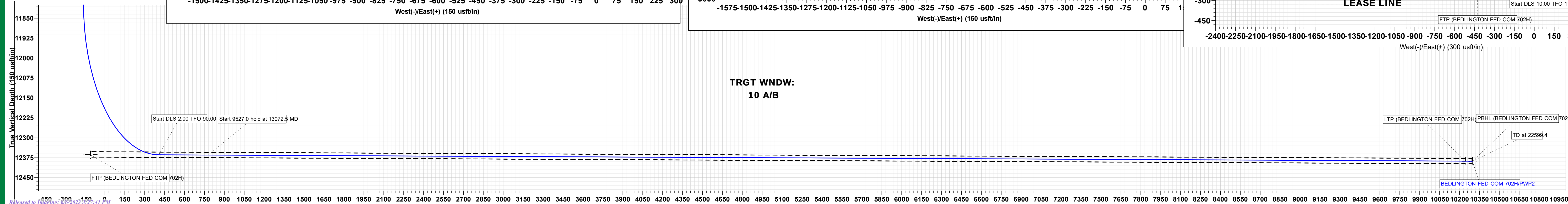
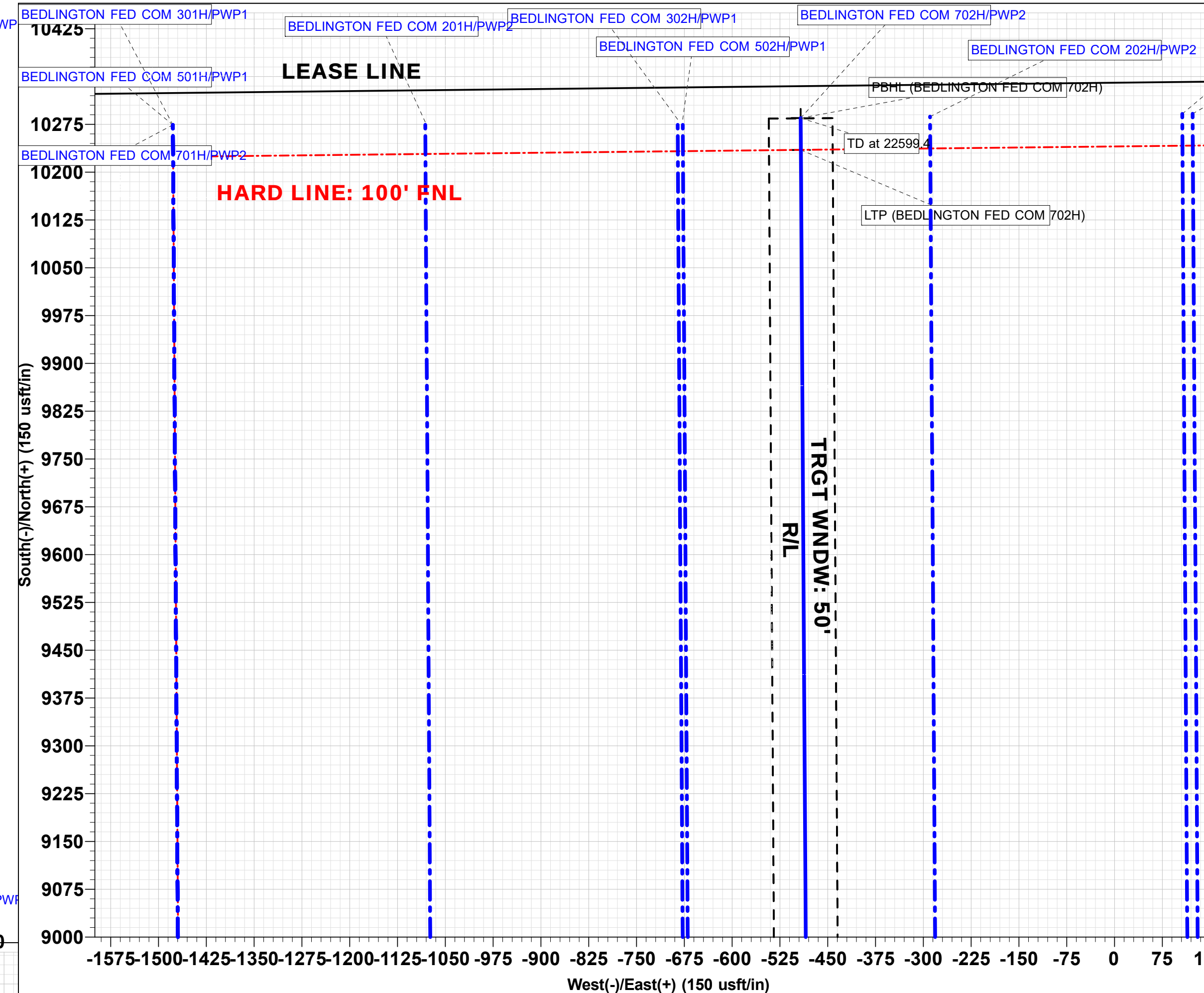
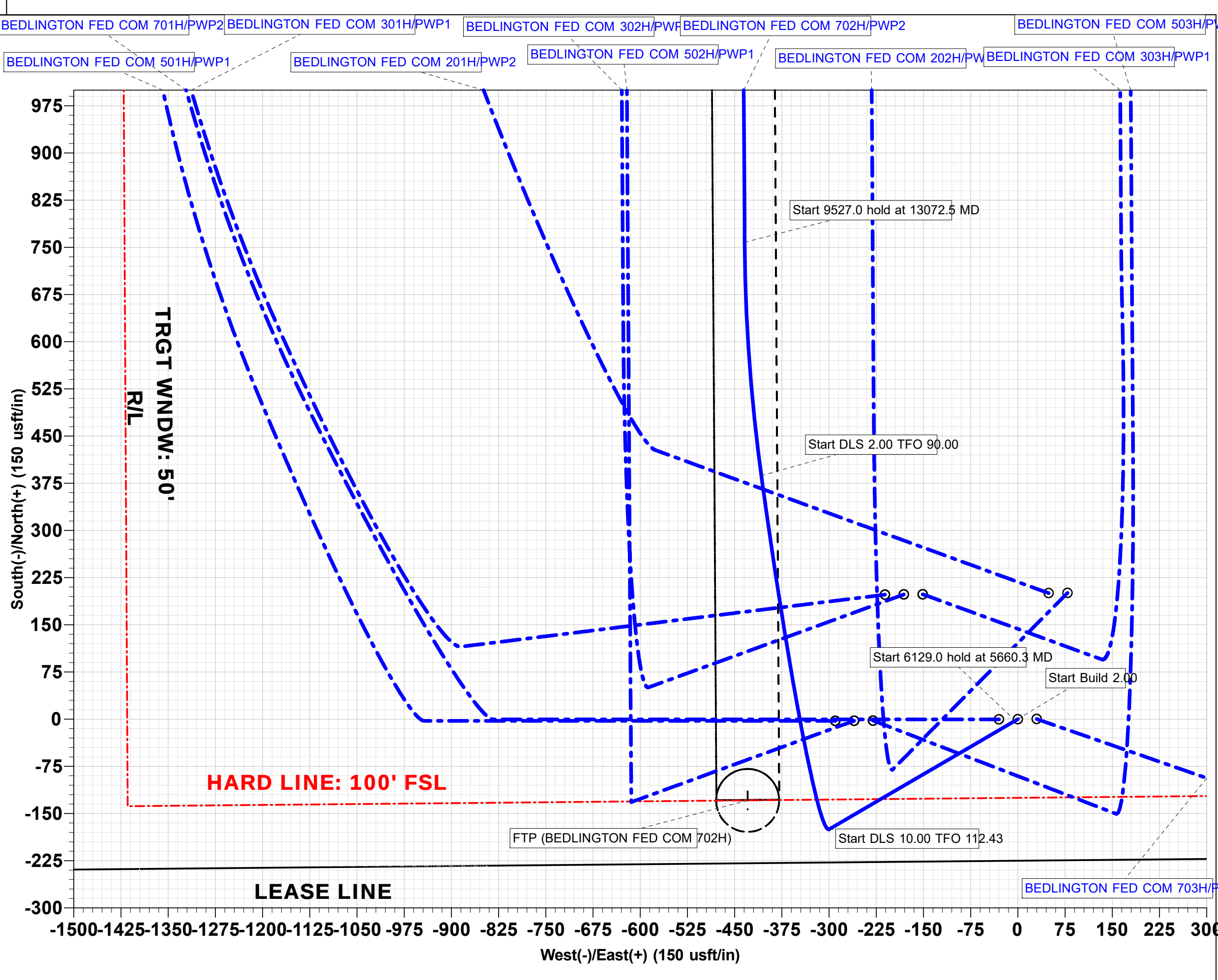
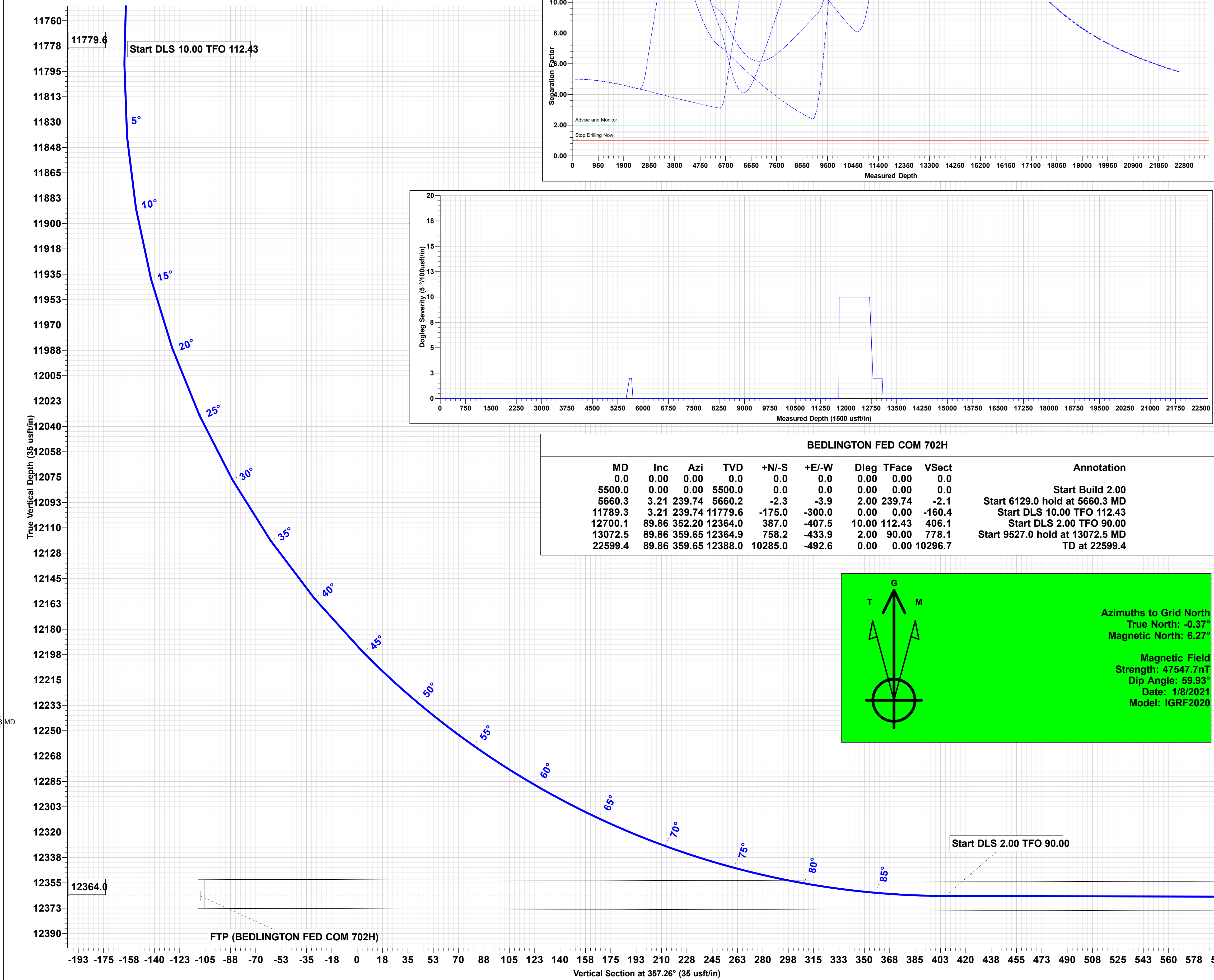
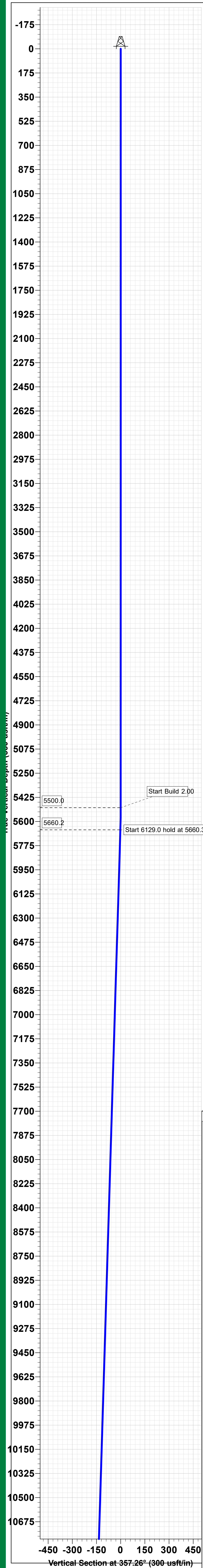
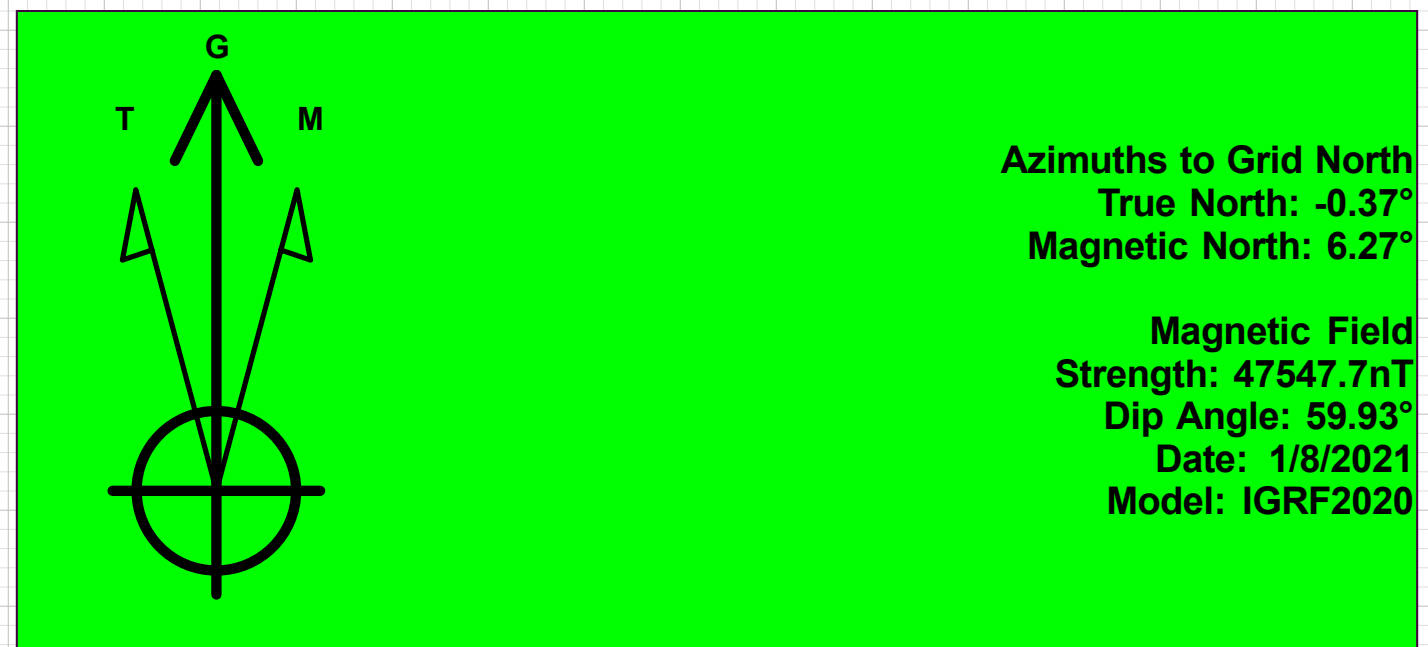
Project: BULLDOG PROSPECT (NM-E)
Site: BEDLINGTON FEDERAL PROJECT (BULLDOG 3232)
Well: BEDLINGTON FED COM 702H
Wellbore: OWB
Design: PWP2
GL: 3623.0
KB=26' @ 3649.0usft (McVay 8)

WELL DETAILS: BEDLINGTON FED COM 702H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	456935.97	711913.41	32° 15' 15.747 N	103° 38' 52.216 W

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
FTP (BEDLINGTON FED COM 702H)	12364.0	-129.0	-429.3	456806.96	711484.14	32° 15' 14.497 N
LTP (BEDLINGTON FED COM 702H)	12388.0	10234.9	-492.2	467170.92	711421.17	32° 16' 57.059 N
PBHL (BEDLINGTON FED COM 702H)	12388.0	10285.0	-492.6	467220.92	711420.85	32° 16' 57.554 N



BEDLINGTON FED COM 702H									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
5500.0	0.00	0.00	5500.0	0.0	0.0	0.00	0.00	0.0	Start 6129.0 hold at 5660.3 MD
5660.3	3.21	239.74	5660.2	-2.3	-3.9	2.00	239.74	-2.1	Start DLS 10.00 TFO 112.43
11789.3	3.21	239.74	11779.6	-175.0	-300.0	0.00	0.00	-160.4	Start DLS 2.00 TFO 90.00
12700.1	89.86	352.20	12364.0	387.0	-407.5	10.00	112.43	406.1	Start 9527.0 hold at 13072.5 MD
13072.5	89.86	359.65	12364.9	758.2	-433.9	2.00	90.00	778.1	TD at 22599.4
22599.4	89.86	359.65	12388.0	10285.0	-492.6	0.00	0.00	10296.7	



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) 476-3470 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 216878

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 216878
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	6/6/2023