

Well Name: BEDLINGTON FEDERAL COM	Well Location: T23S / R32E / SEC 35 / SESW / 32.2544979 / -103.6482224	County or Parish/State: LEA / NM
Well Number: 703H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM136217	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548325	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 15, 2021 07:13 AM**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 Title:** Petroleum Engineer**BLM POC Phone:** 5752342234**BLM POC Email Address:** cwalls@blm.gov**Disposition:** Approved**Disposition Date:** 01/22/2021**Signature:** Chris Walls

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, 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 30-025-48325	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 703H
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	1775'	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
C	26	23-S	32-E		50'	NORTH	2310'	WEST	LEA

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

	CORNER DATA NEW MEXICO EAST - NAD 83 A - FOUND IRON PIPE W/ BRASS CAP N:467315.98' E:751289.08' B - FOUND IRON PIPE W/ BRASS CAP N:467344.78' E:753927.62' C - FOUND IRON PIPE W/ BRASS CAP N:467373.32' E:756564.67' D - FOUND IRON PIPE W/ BRASS CAP N:464728.99' E:756583.47' E - FOUND IRON PIPE W/ BRASS CAP N:462087.47' E:756602.15' F - FOUND IRON PIPE W/ BRASS CAP N:462059.80' E:753961.90' G - FOUND IRON PIPE W/ BRASS CAP N:462034.23' E:751322.42' H - FOUND IRON PIPE W/ BRASS CAP N:464675.41' E:751305.83' I - FOUND BENT IRON PIPE W/ BRASS CAP N:459447.89' E:756620.56' J - FOUND IRON PIPE W/ BRASS CAP N:456806.31' E:756639.34' K - FOUND IRON PIPE W/ BRASS CAP N:456778.50' E:753996.44' L - FOUND IRON PIPE W/ BRASS CAP N:456753.78' E:751353.50' M - FOUND IRON PIPE W/ BRASS CAP N:459393.97' E:751338.83'	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. <i>Stan Wagner</i> 1/13/2021 Signature Date Stan Wagner Printed Name _____ E-mail Address	
	SURFACE HOLE LOCATION (SHL) NEW MEXICO EAST - NAD 83 X=753127.18 Y=456895.39 LAT.= 32.25449791° N LONG.= 103.64822242° W 225' FSL, 1775' FWL SECTION 35	FIRST TAKE POINT (FTP) NEW MEXICO EAST - NAD 83 X=753662.86 Y=456875.38 LAT.= 32.25415863° N LONG.= 103.64649216° W 100' FSL, 2310' FWL SECTION 35	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
	LAST TAKE POINT (LTP) NEW MEXICO EAST - NAD 83 X=753599.60 Y=467241.20 LAT.= 32.28265216° N LONG.= 103.64648219° W 100' FNL, 2310' FWL SECTION 26	BOTTOM HOLE LOCATION (BHL) NEW MEXICO EAST - NAD 83 X=753599.28 Y=467291.20 LAT.= 32.28278959° N LONG.= 103.64648218° W 50' FNL, 2310' FWL SECTION 26	Garrett J. Smelker NEW MEXICO 25036 12/18/2020 PROFESSIONAL SURVEYOR

Intent ☒ As Drilled ☐

API # 30-025-48325		
Operator Name: COG Operating LLC	Property Name: Bedlington Federal Com	Well Number 703H

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 N	Section 35	Township 23S	Range 32E	Lot	Feet 100	From N/S South	Feet 2310	From E/W West	County Lea
Latitude 32.25415863					Longitude -103.6469216				NAD 83

Last Take Point (LTP)

UL C	Section 26	Township 23S	Range 32E	Lot	Feet 100	From N/S North	Feet 2310	From E/W West	County Lea
Latitude 32.28265216					Longitude -103.64648219				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐ NoIs this well an infill well? ☐ Yes

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 703H

OWB

PWP2

Anticollision Report

08 January, 2021

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 703H
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 703H	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	0.0	PWP2 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,791.0	22,611.5	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	201.0	192.4	23.324 CC	
BEDLINGTON FED COM 201H - OWB - PWP2	2,500.0	2,502.0	201.0	192.2	22.900 ES	
BEDLINGTON FED COM 201H - OWB - PWP2	2,900.0	2,895.0	209.1	199.7	22.202 SF	
BEDLINGTON FED COM 202H - OWB - PWP2	5,422.0	5,429.4	106.2	94.6	9.104 CC, ES, SF	
BEDLINGTON FED COM 301H - OWB - PWP1	2,500.0	2,500.0	311.8	298.7	23.812 CC, ES	
BEDLINGTON FED COM 301H - OWB - PWP1	3,700.0	3,671.5	394.6	377.1	22.575 SF	
BEDLINGTON FED COM 302H - OWB - PWP1	2,500.0	2,500.0	289.4	281.6	36.912 CC, ES	
BEDLINGTON FED COM 302H - OWB - PWP1	2,700.0	2,691.1	292.5	284.5	36.342 SF	
BEDLINGTON FED COM 303H - OWB - PWP1	9,079.7	9,099.5	256.1	217.0	6.539 CC, ES	
BEDLINGTON FED COM 303H - OWB - PWP1	9,100.0	9,114.6	256.3	217.1	6.532 SF	
BEDLINGTON FED COM 501H - OWB - PWP1	2,500.0	2,499.0	320.0	313.1	46.394 CC, ES	
BEDLINGTON FED COM 501H - OWB - PWP1	2,600.0	2,589.0	321.5	314.6	46.177 SF	
BEDLINGTON FED COM 502H - OWB - PWP1	2,500.0	2,499.0	290.0	277.3	22.866 CC, ES	
BEDLINGTON FED COM 502H - OWB - PWP1	5,500.0	5,472.8	484.7	460.4	19.984 SF	
BEDLINGTON FED COM 503H - OWB - PWP1	5,652.0	5,659.8	122.2	110.3	10.215 CC, ES	
BEDLINGTON FED COM 503H - OWB - PWP1	5,700.0	5,707.8	122.5	110.4	10.167 SF	
BEDLINGTON FED COM 701H - OWB - PWP2	2,500.0	2,500.0	60.0	53.1	8.697 CC, ES, SF	
BEDLINGTON FED COM 702H - OWB - PWP2	5,500.0	5,500.0	30.0	20.3	3.102 CC, ES, SF	
COX 35 FED 2H - OWB - AWP	10,562.3	10,492.1	930.5	883.2	19.655 CC, ES	
COX 35 FED 2H - OWB - AWP	10,600.0	10,520.5	930.8	883.4	19.639 SF	

Offset Design	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		Minimum Separation		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	Warning
0.0	0.0	2.0	2.0	3.0	3.0	5.40	200.1	18.9	201.0				
100.0	100.0	102.0	102.0	3.0	3.0	5.40	200.1	18.9	201.0	195.0	6.00	33.499	
200.0	200.0	202.0	202.0	3.0	3.0	5.40	200.1	18.9	201.0	195.0	6.01	33.443	
300.0	300.0	302.0	302.0	3.0	3.0	5.40	200.1	18.9	201.0	195.0	6.03	33.323	
400.0	400.0	402.0	402.0	3.0	3.0	5.40	200.1	18.9	201.0	195.0	6.07	33.142	
500.0	500.0	502.0	502.0	3.1	3.1	5.40	200.1	18.9	201.0	194.9	6.11	32.903	

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 703H
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 703H	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									
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
600.0	600.0	602.0	602.0	3.1	3.1	5.40	200.1	18.9	201.0	194.9	6.16	32.610	
700.0	700.0	702.0	702.0	3.1	3.1	5.40	200.1	18.9	201.0	194.8	6.23	32.267	
800.0	800.0	802.0	802.0	3.2	3.2	5.40	200.1	18.9	201.0	194.7	6.31	31.879	
900.0	900.0	902.0	902.0	3.2	3.2	5.40	200.1	18.9	201.0	194.6	6.39	31.451	
1,000.0	1,000.0	1,002.0	1,002.0	3.2	3.2	5.40	200.1	18.9	201.0	194.5	6.49	30.989	
1,100.0	1,100.0	1,102.0	1,102.0	3.3	3.3	5.40	200.1	18.9	201.0	194.4	6.59	30.499	
1,200.0	1,200.0	1,202.0	1,202.0	3.4	3.4	5.40	200.1	18.9	201.0	194.3	6.70	29.984	
1,300.0	1,300.0	1,302.0	1,302.0	3.4	3.4	5.40	200.1	18.9	201.0	194.2	6.83	29.451	
1,400.0	1,400.0	1,402.0	1,402.0	3.5	3.5	5.40	200.1	18.9	201.0	194.1	6.95	28.904	
1,500.0	1,500.0	1,502.0	1,502.0	3.5	3.5	5.40	200.1	18.9	201.0	193.9	7.09	28.348	
1,600.0	1,600.0	1,602.0	1,602.0	3.6	3.6	5.40	200.1	18.9	201.0	193.8	7.23	27.786	
1,700.0	1,700.0	1,702.0	1,702.0	3.7	3.7	5.40	200.1	18.9	201.0	193.6	7.38	27.221	
1,800.0	1,800.0	1,802.0	1,802.0	3.8	3.8	5.40	200.1	18.9	201.0	193.5	7.54	26.657	
1,900.0	1,900.0	1,902.0	1,902.0	3.9	3.9	5.40	200.1	18.9	201.0	193.3	7.70	26.096	
2,000.0	2,000.0	2,002.0	2,002.0	3.9	3.9	5.40	200.1	18.9	201.0	193.2	7.87	25.541	
2,100.0	2,100.0	2,102.0	2,102.0	4.0	4.0	5.40	200.1	18.9	201.0	193.0	8.04	24.993	
2,200.0	2,200.0	2,202.0	2,202.0	4.1	4.1	5.40	200.1	18.9	201.0	192.8	8.22	24.453	
2,300.0	2,300.0	2,302.0	2,302.0	4.2	4.2	5.40	200.1	18.9	201.0	192.6	8.40	23.924	
2,400.0	2,400.0	2,402.0	2,402.0	4.3	4.3	5.40	200.1	18.9	201.0	192.4	8.59	23.406	
2,416.0	2,416.0	2,418.0	2,418.0	4.3	4.3	5.40	200.1	18.9	201.0	192.4	8.62	23.324 CC	
2,500.0	2,500.0	2,502.0	2,502.0	4.4	4.4	5.40	200.1	18.9	201.0	192.2	8.78	22.900 ES	
2,600.0	2,600.0	2,600.0	2,600.0	4.5	4.5	4.92	200.7	17.3	201.5	192.5	8.95	22.520	
2,700.0	2,700.0	2,698.2	2,698.0	4.6	4.5	3.52	202.5	12.5	202.9	193.8	9.10	22.300	
2,800.0	2,800.0	2,795.7	2,795.2	4.7	4.6	1.28	205.3	4.6	205.5	196.3	9.26	22.202	
2,900.0	2,900.0	2,895.0	2,894.0	4.8	4.6	-1.42	208.9	-5.2	209.1	199.7	9.42	22.202 SF	
3,000.0	3,000.0	2,994.5	2,992.9	4.9	4.7	-4.02	212.5	-14.9	213.2	203.6	9.58	22.250	
3,100.0	3,100.0	3,094.0	3,091.8	5.0	4.8	-6.53	216.0	-24.7	217.7	207.9	9.74	22.343	
3,200.0	3,200.0	3,193.4	3,190.7	5.1	4.8	-8.92	219.6	-34.5	222.5	212.6	9.90	22.475	
3,300.0	3,300.0	3,292.9	3,289.6	5.2	4.9	-11.22	223.1	-44.2	227.8	217.7	10.06	22.643	
3,400.0	3,400.0	3,392.3	3,388.5	5.3	5.0	-13.40	226.7	-54.0	233.4	223.2	10.22	22.842	
3,500.0	3,500.0	3,491.8	3,487.4	5.4	5.0	-15.49	230.2	-63.8	239.3	229.0	10.38	23.068	
3,600.0	3,600.0	3,591.2	3,586.3	5.5	5.1	-17.46	233.8	-73.6	245.6	235.0	10.53	23.317	
3,700.0	3,700.0	3,690.7	3,685.2	5.7	5.2	-19.34	237.3	-83.3	252.1	241.4	10.69	23.586	
3,800.0	3,800.0	3,790.1	3,784.1	5.8	5.3	-21.13	240.9	-93.1	258.9	248.0	10.84	23.872	
3,900.0	3,900.0	3,889.6	3,883.1	5.9	5.4	-22.82	244.5	-102.9	265.9	254.9	11.00	24.172	
4,000.0	4,000.0	3,989.0	3,982.0	6.0	5.5	-24.42	248.0	-112.6	273.1	262.0	11.16	24.483	
4,100.0	4,100.0	4,088.5	4,080.9	6.1	5.5	-25.95	251.6	-122.4	280.6	269.2	11.31	24.802	
4,200.0	4,200.0	4,187.9	4,179.8	6.2	5.6	-27.39	255.1	-132.2	288.2	276.7	11.47	25.129	
4,300.0	4,300.0	4,287.4	4,278.7	6.3	5.7	-28.75	258.7	-141.9	296.0	284.3	11.62	25.461	
4,400.0	4,400.0	4,386.8	4,377.6	6.5	5.8	-30.05	262.2	-151.7	303.9	292.1	11.78	25.796	
4,500.0	4,500.0	4,486.3	4,476.5	6.6	5.9	-31.28	265.8	-161.5	312.0	300.1	11.94	26.134	
4,600.0	4,600.0	4,585.7	4,575.4	6.7	6.0	-32.45	269.3	-171.2	320.3	308.2	12.10	26.472	
4,700.0	4,700.0	4,685.2	4,674.3	6.8	6.1	-33.56	272.9	-181.0	328.6	316.4	12.26	26.809	
4,800.0	4,800.0	4,784.6	4,773.2	6.9	6.2	-34.61	276.5	-190.8	337.1	324.7	12.42	27.146	
4,900.0	4,900.0	4,884.1	4,872.1	7.0	6.3	-35.61	280.0	-200.5	345.7	333.1	12.58	27.481	
5,000.0	5,000.0	4,983.5	4,971.0	7.2	6.4	-36.56	283.6	-210.3	354.4	341.7	12.74	27.813	
5,100.0	5,100.0	5,083.0	5,069.9	7.3	6.5	-37.47	287.1	-220.1	363.2	350.3	12.91	28.141	
5,200.0	5,200.0	5,182.4	5,168.8	7.4	6.6	-38.34	290.7	-229.9	372.1	359.0	13.07	28.466	
5,300.0	5,300.0	5,281.9	5,267.8	7.5	6.7	-39.16	294.2	-239.6	381.0	367.8	13.24	28.787	
5,400.0	5,400.0	5,381.4	5,366.7	7.6	6.8	-39.95	297.8	-249.4	390.0	376.6	13.40	29.103	
5,500.0	5,500.0	5,480.8	5,465.6	7.8	6.9	-40.70	301.3	-259.2	399.1	385.5	13.57	29.415	

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

Concho Resources LLC

Anticollision Report

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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 703H	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 201H - OWB - PWP												Offset Well Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 9013-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
5,600.0	5,600.0	5,580.1	5,564.3	7.8	7.0	-150.59	304.9	-268.9	409.8	396.1	13.67	29.978	
5,700.0	5,699.8	5,678.8	5,662.5	7.8	7.1	-151.48	308.4	-278.6	423.6	409.9	13.70	30.913	
5,740.7	5,740.4	5,718.8	5,702.3	7.8	7.2	-151.87	309.8	-282.5	430.1	416.4	13.71	31.361	
5,800.0	5,799.5	5,777.1	5,760.2	7.9	7.2	-152.54	311.9	-288.3	440.0	426.3	13.73	32.041	
5,900.0	5,899.2	5,875.3	5,857.9	7.9	7.3	-153.61	315.4	-297.9	456.9	443.1	13.77	33.177	
6,000.0	5,998.8	5,973.5	5,955.6	7.9	7.4	-154.60	319.0	-307.6	473.9	460.1	13.82	34.297	
6,100.0	6,098.4	6,071.8	6,053.3	7.9	7.5	-155.52	322.5	-317.2	491.0	477.1	13.87	35.400	
6,200.0	6,198.1	6,170.0	6,151.0	7.9	7.7	-156.38	326.0	-326.9	508.3	494.3	13.93	36.483	
6,300.0	6,297.7	6,268.2	6,248.7	7.9	7.8	-157.18	329.5	-336.5	525.6	511.6	14.00	37.544	
6,400.0	6,397.4	6,366.4	6,346.4	8.0	7.9	-157.93	333.0	-346.1	543.0	529.0	14.08	38.582	
6,500.0	6,497.0	6,464.7	6,444.0	8.0	8.0	-158.63	336.5	-355.8	560.6	546.4	14.16	39.594	
6,600.0	6,596.7	6,562.9	6,541.7	8.0	8.1	-159.30	340.0	-365.4	578.2	563.9	14.25	40.581	
6,700.0	6,696.3	6,661.1	6,639.4	8.1	8.2	-159.92	343.5	-375.1	595.8	581.5	14.34	41.540	
6,800.0	6,796.0	6,759.3	6,737.1	8.1	8.3	-160.51	347.0	-384.7	613.6	599.1	14.45	42.472	
6,900.0	6,895.6	6,857.6	6,834.8	8.1	8.4	-161.06	350.6	-394.4	631.4	616.8	14.56	43.377	
7,000.0	6,995.3	6,955.8	6,932.5	8.2	8.6	-161.58	354.1	-404.0	649.2	634.6	14.67	44.253	
7,100.0	7,094.9	7,054.0	7,030.2	8.2	8.7	-162.08	357.6	-413.7	667.1	652.3	14.79	45.101	
7,200.0	7,194.6	7,152.2	7,127.8	8.2	8.8	-162.55	361.1	-423.3	685.1	670.2	14.92	45.920	
7,300.0	7,294.2	7,250.5	7,225.5	8.3	8.9	-162.99	364.6	-433.0	703.1	688.0	15.05	46.712	
7,400.0	7,393.9	7,348.7	7,323.2	8.3	9.0	-163.42	368.1	-442.6	721.1	705.9	15.19	47.476	
7,500.0	7,493.5	7,446.9	7,420.9	8.4	9.1	-163.82	371.6	-452.3	739.2	723.8	15.33	48.213	
7,600.0	7,593.2	7,545.1	7,518.6	8.4	9.2	-164.21	375.1	-461.9	757.3	741.8	15.48	48.923	
7,700.0	7,692.8	7,643.4	7,616.3	8.5	9.4	-164.57	378.7	-471.6	775.4	759.8	15.63	49.606	
7,800.0	7,792.5	7,741.6	7,714.0	8.5	9.5	-164.92	382.2	-481.2	793.6	777.8	15.79	50.264	
7,900.0	7,892.1	7,839.8	7,811.7	8.6	9.6	-165.25	385.7	-490.9	811.7	795.8	15.95	50.897	
8,000.0	7,991.7	7,938.0	7,909.3	8.7	9.7	-165.57	389.2	-500.5	830.0	813.8	16.11	51.505	
8,100.0	8,091.4	8,036.3	8,007.0	8.7	9.8	-165.88	392.7	-510.2	848.2	831.9	16.28	52.089	
8,200.0	8,191.0	8,134.5	8,104.7	8.8	10.0	-166.17	396.2	-519.8	866.4	850.0	16.46	52.651	
8,300.0	8,290.7	8,232.7	8,202.4	8.8	10.1	-166.45	399.7	-529.5	884.7	868.1	16.63	53.190	
8,400.0	8,390.3	8,330.9	8,300.1	8.9	10.2	-166.72	403.2	-539.1	903.0	886.2	16.81	53.708	
8,500.0	8,490.0	8,429.2	8,397.8	9.0	10.3	-166.98	406.7	-548.8	921.3	904.4	17.00	54.206	
8,600.0	8,589.6	8,527.4	8,495.5	9.0	10.4	-167.23	410.3	-558.4	939.7	922.5	17.18	54.683	
8,700.0	8,689.3	8,625.6	8,593.1	9.1	10.6	-167.47	413.8	-568.1	958.0	940.7	17.37	55.141	
8,800.0	8,788.9	8,723.8	8,690.8	9.2	10.7	-167.70	417.3	-577.7	976.4	958.8	17.57	55.581	
8,900.0	8,888.6	8,822.1	8,788.5	9.3	10.8	-167.92	420.8	-587.4	994.8	977.0	17.76	56.002	

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 703H
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 703H	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	
0.0	0.0	2.0	2.0	3.0	3.0	13.70	200.4	48.9	206.3				
100.0	100.0	102.0	102.0	3.0	3.0	13.70	200.4	48.9	206.3	200.3	6.00	34.381	
200.0	200.0	202.0	202.0	3.0	3.0	13.70	200.4	48.9	206.3	200.3	6.01	34.325	
300.0	300.0	302.0	302.0	3.0	3.0	13.70	200.4	48.9	206.3	200.3	6.03	34.207	
400.0	400.0	402.0	402.0	3.0	3.0	13.70	200.4	48.9	206.3	200.3	6.06	34.027	
500.0	500.0	502.0	502.0	3.1	3.1	13.70	200.4	48.9	206.3	200.2	6.11	33.790	
600.0	600.0	602.0	602.0	3.1	3.1	13.70	200.4	48.9	206.3	200.2	6.16	33.499	
700.0	700.0	702.0	702.0	3.1	3.1	13.70	200.4	48.9	206.3	200.1	6.22	33.158	
800.0	800.0	802.0	802.0	3.2	3.2	13.70	200.4	48.9	206.3	200.0	6.30	32.771	
900.0	900.0	902.0	902.0	3.2	3.2	13.70	200.4	48.9	206.3	199.9	6.38	32.345	
1,000.0	1,000.0	1,002.0	1,002.0	3.2	3.2	13.70	200.4	48.9	206.3	199.8	6.47	31.884	
1,100.0	1,100.0	1,102.0	1,102.0	3.3	3.3	13.70	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	13.70	200.4	48.9	206.3	199.6	6.68	30.879	
1,300.0	1,300.0	1,302.0	1,302.0	3.4	3.4	13.70	200.4	48.9	206.3	199.5	6.80	30.345	
1,400.0	1,400.0	1,402.0	1,402.0	3.5	3.5	13.70	200.4	48.9	206.3	199.4	6.92	29.796	
1,500.0	1,500.0	1,502.0	1,502.0	3.5	3.5	13.70	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	13.70	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	13.70	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	13.70	200.4	48.9	206.3	198.8	7.49	27.532	
1,900.0	1,900.0	1,902.0	1,902.0	3.9	3.9	13.70	200.4	48.9	206.3	198.7	7.65	26.965	
2,000.0	2,000.0	2,002.0	2,002.0	3.9	3.9	13.70	200.4	48.9	206.3	198.5	7.81	26.403	
2,100.0	2,100.0	2,102.0	2,102.0	4.0	4.0	13.70	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	13.70	200.4	48.9	206.3	198.2	8.15	25.300	
2,300.0	2,300.0	2,302.0	2,302.0	4.2	4.2	13.70	200.4	48.9	206.3	198.0	8.33	24.762	
2,400.0	2,400.0	2,402.0	2,402.0	4.3	4.3	13.70	200.4	48.9	206.3	197.8	8.51	24.235	
2,500.0	2,500.0	2,502.1	2,502.1	4.4	4.4	13.70	200.4	48.9	206.3	197.6	8.70	23.722	
2,600.0	2,600.0	2,608.7	2,608.6	4.5	4.4	13.41	199.0	47.4	204.7	195.8	8.82	23.197	
2,700.0	2,700.0	2,712.7	2,712.6	4.6	4.4	12.57	195.0	43.5	200.0	191.1	8.90	22.476	
2,800.0	2,800.0	2,812.5	2,812.2	4.7	4.4	11.60	190.6	39.1	194.8	185.8	8.99	21.667	
2,900.0	2,900.0	2,912.3	2,911.8	4.8	4.4	10.57	186.1	34.7	189.6	180.5	9.09	20.868	
3,000.0	3,000.0	3,012.2	3,011.4	4.9	4.4	9.48	181.7	30.4	184.5	175.3	9.19	20.080	
3,100.0	3,100.0	3,112.0	3,111.0	5.0	4.4	8.34	177.3	26.0	179.4	170.1	9.29	19.306	
3,200.0	3,200.0	3,211.8	3,210.6	5.1	4.4	7.13	172.9	21.6	174.4	165.0	9.41	18.548	
3,300.0	3,300.0	3,311.6	3,310.2	5.2	4.4	5.84	168.5	17.2	169.5	160.0	9.52	17.807	
3,400.0	3,400.0	3,411.4	3,409.8	5.3	4.4	4.49	164.1	12.9	164.7	155.1	9.64	17.086	
3,500.0	3,500.0	3,511.2	3,509.5	5.4	4.4	3.05	159.6	8.5	160.0	150.3	9.77	16.385	
3,600.0	3,600.0	3,611.0	3,609.1	5.5	4.4	1.52	155.2	4.1	155.4	145.5	9.89	15.708	
3,700.0	3,700.0	3,710.8	3,708.7	5.7	4.5	-0.09	150.8	-0.2	150.9	140.9	10.03	15.056	
3,800.0	3,800.0	3,810.6	3,808.3	5.8	4.5	-1.81	146.4	-4.6	146.6	136.4	10.16	14.429	
3,900.0	3,900.0	3,910.4	3,907.9	5.9	4.5	-3.62	142.0	-9.0	142.4	132.1	10.29	13.831	
4,000.0	4,000.0	4,010.2	4,007.5	6.0	4.6	-5.55	137.5	-13.4	138.3	127.9	10.43	13.262	
4,100.0	4,100.0	4,110.0	4,107.1	6.1	4.6	-7.59	133.1	-17.7	134.4	123.8	10.56	12.724	
4,200.0	4,200.0	4,209.8	4,206.7	6.2	4.6	-9.74	128.7	-22.1	130.7	120.0	10.70	12.218	
4,300.0	4,300.0	4,309.6	4,306.4	6.3	4.7	-12.02	124.3	-26.5	127.2	116.3	10.83	11.746	
4,400.0	4,400.0	4,409.4	4,406.0	6.5	4.7	-14.43	119.9	-30.8	123.8	112.9	10.95	11.310	
4,500.0	4,500.0	4,509.2	4,505.6	6.6	4.8	-16.96	115.5	-35.2	120.8	109.7	11.07	10.910	
4,600.0	4,600.0	4,609.0	4,605.2	6.7	4.8	-19.62	111.0	-39.6	117.9	106.7	11.18	10.547	
4,700.0	4,700.0	4,708.9	4,704.8	6.8	4.9	-22.40	106.6	-44.0	115.4	104.1	11.28	10.224	
4,800.0	4,800.0	4,808.7	4,804.4	6.9	5.0	-25.31	102.2	-48.3	113.1	101.7	11.38	9.941	
4,900.0	4,900.0	4,908.5	4,904.0	7.0	5.0	-28.32	97.8	-52.7	111.1	99.6	11.46	9.699	
5,000.0	5,000.0	5,008.3	5,003.6	7.2	5.1	-31.43	93.4	-57.1	109.4	97.9	11.52	9.498	

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 703H
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 703H	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									
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	5,108.1	5,103.2	7.3	5.2	-34.63	89.0	-61.4	108.1	96.5	11.58	9.338	
5,200.0	5,200.0	5,207.9	5,202.9	7.4	5.2	-37.90	84.5	-65.8	107.1	95.5	11.62	9.221	
5,300.0	5,300.0	5,307.7	5,302.5	7.5	5.3	-41.22	80.1	-70.2	106.5	94.9	11.65	9.144	
5,400.0	5,400.0	5,407.5	5,402.1	7.6	5.4	-44.56	75.7	-74.6	106.3	94.6	11.67	9.107	
5,422.0	5,422.0	5,429.4	5,424.0	7.7	5.4	-45.30	74.7	-75.5	106.2	94.6	11.67	9.104 CC, ES, SF	
5,500.0	5,500.0	5,507.3	5,501.7	7.8	5.4	-47.91	71.3	-78.9	106.4	94.7	11.68	9.109	
5,600.0	5,600.0	5,607.0	5,601.2	7.8	5.5	-160.70	66.9	-83.3	108.5	96.9	11.61	9.341	
5,700.0	5,699.8	5,706.6	5,700.6	7.8	5.6	-164.62	62.5	-87.7	114.4	102.9	11.49	9.953	
5,740.7	5,740.4	5,747.0	5,740.9	7.8	5.6	-166.22	60.7	-89.4	117.9	106.4	11.44	10.299	
5,800.0	5,799.5	5,805.8	5,799.6	7.9	5.7	-168.44	58.1	-92.0	123.5	112.2	11.39	10.845	
5,900.0	5,899.2	5,905.1	5,898.7	7.9	5.8	-171.74	53.7	-96.3	133.5	122.2	11.34	11.772	
6,000.0	5,998.8	6,004.3	5,997.7	7.9	5.9	-174.58	49.3	-100.7	143.8	132.5	11.33	12.696	
6,100.0	6,098.4	6,103.5	6,096.7	7.9	5.9	-177.04	44.9	-105.0	154.5	143.1	11.35	13.605	
6,200.0	6,198.1	6,202.7	6,195.8	7.9	6.0	-179.18	40.5	-109.4	165.3	153.9	11.41	14.494	
6,300.0	6,297.7	6,302.0	6,294.8	7.9	6.1	-178.95	36.1	-113.7	176.4	164.9	11.49	15.357	
6,400.0	6,397.4	6,401.2	6,393.9	8.0	6.2	-177.29	31.7	-118.1	187.7	176.1	11.59	16.194	
6,500.0	6,497.0	6,500.4	6,492.9	8.0	6.3	-175.83	27.3	-122.4	199.0	187.3	11.71	17.003	
6,600.0	6,596.7	6,599.7	6,591.9	8.0	6.4	-174.53	22.9	-126.8	210.5	198.7	11.84	17.784	
6,700.0	6,696.3	6,698.9	6,691.0	8.1	6.5	-173.36	18.5	-131.1	222.1	210.2	11.98	18.537	
6,800.0	6,796.0	6,798.1	6,790.0	8.1	6.6	-172.30	14.2	-135.5	233.8	221.7	12.14	19.263	
6,900.0	6,895.6	6,897.3	6,889.0	8.1	6.7	-171.35	9.8	-139.8	245.6	233.3	12.30	19.962	
7,000.0	6,995.3	6,996.6	6,988.1	8.2	6.8	-170.48	5.4	-144.2	257.4	244.9	12.47	20.636	
7,100.0	7,094.9	7,095.8	7,087.1	8.2	6.9	-169.69	1.0	-148.5	269.2	256.6	12.65	21.286	
7,200.0	7,194.6	7,195.0	7,186.1	8.2	7.0	-168.97	-3.4	-152.8	281.1	268.3	12.83	21.912	
7,300.0	7,294.2	7,294.3	7,285.2	8.3	7.1	-168.31	-7.8	-157.2	293.1	280.1	13.02	22.516	
7,400.0	7,393.9	7,393.5	7,384.2	8.3	7.2	-167.69	-12.2	-161.5	305.1	291.9	13.21	23.098	
7,500.0	7,493.5	7,492.7	7,483.3	8.4	7.3	-167.13	-16.6	-165.9	317.1	303.7	13.40	23.660	
7,600.0	7,593.2	7,591.9	7,582.3	8.4	7.4	-166.60	-21.0	-170.2	329.1	315.5	13.60	24.202	
7,700.0	7,692.8	7,691.2	7,681.3	8.5	7.5	-166.11	-25.4	-174.6	341.2	327.4	13.80	24.725	
7,800.0	7,792.5	7,790.4	7,780.4	8.5	7.6	-165.66	-29.8	-178.9	353.3	339.3	14.00	25.231	
7,900.0	7,892.1	7,889.6	7,879.4	8.6	7.7	-165.24	-34.2	-183.3	365.4	351.2	14.21	25.719	
8,000.0	7,991.7	7,988.9	7,978.4	8.7	7.8	-164.84	-38.5	-187.6	377.5	363.1	14.41	26.192	
8,100.0	8,091.4	8,088.1	8,077.5	8.7	7.9	-164.47	-42.9	-192.0	389.7	375.0	14.62	26.648	
8,200.0	8,191.0	8,187.3	8,176.5	8.8	8.0	-164.12	-47.3	-196.3	401.8	387.0	14.83	27.089	
8,300.0	8,290.7	8,286.5	8,275.5	8.8	8.1	-163.79	-51.7	-200.7	414.0	399.0	15.05	27.517	
8,400.0	8,390.3	8,385.8	8,374.6	8.9	8.2	-163.48	-56.1	-205.0	426.2	410.9	15.26	27.930	
8,500.0	8,490.0	8,485.0	8,473.6	9.0	8.3	-163.18	-60.5	-209.3	438.4	422.9	15.47	28.330	
8,600.0	8,589.6	8,584.2	8,572.7	9.0	8.4	-162.91	-64.9	-213.7	450.6	434.9	15.69	28.717	
8,700.0	8,689.3	8,683.5	8,671.7	9.1	8.5	-162.64	-69.3	-218.0	462.8	446.9	15.91	29.092	
8,800.0	8,788.9	8,782.7	8,770.7	9.2	8.7	-162.39	-73.7	-222.4	475.0	458.9	16.13	29.456	
8,900.0	8,888.6	8,881.9	8,869.8	9.3	8.8	-162.16	-78.1	-226.7	487.3	470.9	16.35	29.808	
9,000.0	8,988.2	8,979.9	8,967.6	9.3	8.8	-162.16	-80.5	-231.0	499.6	483.1	16.50	30.282	
9,100.0	9,087.9	9,074.3	9,061.1	9.4	8.8	-163.70	-69.1	-235.2	512.6	496.0	16.57	30.934	
9,200.0	9,187.5	9,162.0	9,145.2	9.5	8.9	-166.55	-45.0	-239.1	527.4	510.8	16.66	31.658	
9,300.0	9,287.2	9,240.1	9,216.2	9.6	8.9	-170.10	-12.9	-242.4	546.3	529.4	16.92	32.287	
9,400.0	9,386.8	9,307.6	9,273.7	9.7	8.9	-173.79	22.5	-245.2	571.0	553.5	17.51	32.607	
9,500.0	9,486.5	9,365.2	9,319.1	9.7	9.0	-177.28	57.8	-247.4	603.1	584.6	18.53	32.549	
9,600.0	9,586.1	9,413.8	9,354.5	9.8	9.1	-179.59	91.0	-249.2	643.2	623.3	19.92	32.296	
9,700.0	9,685.8	9,450.0	9,379.0	9.9	9.1	-177.19	117.7	-250.5	691.0	669.4	21.62	31.964	
9,800.0	9,785.4	9,500.0	9,409.9	10.0	9.2	-173.84	156.9	-252.1	746.2	723.2	23.02	32.411	
9,900.0	9,885.0	9,519.5	9,421.1	10.1	9.2	-172.53	172.9	-252.7	807.5	782.7	24.84	32.512	

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 703H
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 703H	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	9,984.7	9,550.0	9,437.3	10.2	9.3	-170.50	198.7	-253.6	874.4	848.1	26.29	33.257		
10,100.0	10,084.3	9,567.2	9,445.9	10.3	9.3	-169.36	213.5	-254.0	945.9	918.1	27.76	34.074		

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 703H
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 703H	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 301H - 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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.0	0.0	0.0	0.0	3.0	3.0	-50.64	197.7	-241.1	311.8						
100.0	100.0	100.0	100.0	3.0	3.0	-50.64	197.7	-241.1	311.8	305.8	6.00	51.939			
200.0	200.0	200.0	200.0	3.0	3.0	-50.64	197.7	-241.1	311.8	305.8	6.04	51.596			
300.0	300.0	300.0	300.0	3.0	3.1	-50.64	197.7	-241.1	311.8	305.7	6.13	50.887			
400.0	400.0	400.0	400.0	3.0	3.2	-50.64	197.7	-241.1	311.8	305.5	6.25	49.865			
500.0	500.0	500.0	500.0	3.1	3.4	-50.64	197.7	-241.1	311.8	305.4	6.42	48.599			
600.0	600.0	600.0	600.0	3.1	3.6	-50.64	197.7	-241.1	311.8	305.2	6.61	47.158			
700.0	700.0	700.0	700.0	3.1	3.8	-50.64	197.7	-241.1	311.8	305.0	6.84	45.608			
800.0	800.0	800.0	800.0	3.2	4.0	-50.64	197.7	-241.1	311.8	304.7	7.09	44.003			
900.0	900.0	900.0	900.0	3.2	4.2	-50.64	197.7	-241.1	311.8	304.4	7.36	42.384			
1,000.0	1,000.0	1,000.0	1,000.0	3.2	4.5	-50.64	197.7	-241.1	311.8	304.2	7.65	40.784			
1,100.0	1,100.0	1,100.0	1,100.0	3.3	4.8	-50.64	197.7	-241.1	311.8	303.8	7.95	39.223			
1,200.0	1,200.0	1,200.0	1,200.0	3.4	5.1	-50.64	197.7	-241.1	311.8	303.5	8.27	37.715			
1,300.0	1,300.0	1,300.0	1,300.0	3.4	5.4	-50.64	197.7	-241.1	311.8	303.2	8.60	36.270			
1,400.0	1,400.0	1,400.0	1,400.0	3.5	5.7	-50.64	197.7	-241.1	311.8	302.9	8.94	34.892			
1,500.0	1,500.0	1,500.0	1,500.0	3.5	6.0	-50.64	197.7	-241.1	311.8	302.5	9.28	33.582			
1,600.0	1,600.0	1,600.0	1,600.0	3.6	6.3	-50.64	197.7	-241.1	311.8	302.2	9.64	32.341			
1,700.0	1,700.0	1,700.0	1,700.0	3.7	6.6	-50.64	197.7	-241.1	311.8	301.8	10.00	31.166			
1,800.0	1,800.0	1,800.0	1,800.0	3.8	6.9	-50.64	197.7	-241.1	311.8	301.4	10.37	30.056			
1,900.0	1,900.0	1,900.0	1,900.0	3.9	7.2	-50.64	197.7	-241.1	311.8	301.0	10.75	29.006			
2,000.0	2,000.0	2,000.0	2,000.0	3.9	7.6	-50.64	197.7	-241.1	311.8	300.7	11.13	28.014			
2,100.0	2,100.0	2,100.0	2,100.0	4.0	7.9	-50.64	197.7	-241.1	311.8	300.3	11.51	27.077			
2,200.0	2,200.0	2,200.0	2,200.0	4.1	8.2	-50.64	197.7	-241.1	311.8	299.9	11.90	26.192			
2,300.0	2,300.0	2,300.0	2,300.0	4.2	8.6	-50.64	197.7	-241.1	311.8	299.5	12.30	25.354			
2,400.0	2,400.0	2,400.0	2,400.0	4.3	8.9	-50.64	197.7	-241.1	311.8	299.1	12.69	24.562			
2,500.0	2,500.0	2,500.0	2,500.0	4.4	9.2	-50.64	197.7	-241.1	311.8	298.7	13.09	23.812	CC, ES		
2,600.0	2,600.0	2,593.0	2,593.0	4.5	9.5	-50.84	197.5	-242.6	312.9	299.5	13.46	23.250			
2,700.0	2,700.0	2,685.8	2,685.6	4.6	9.8	-51.43	197.0	-247.1	316.3	302.5	13.80	22.913			
2,800.0	2,800.0	2,778.2	2,777.7	4.7	10.1	-52.39	196.1	-254.5	322.0	307.9	14.14	22.777			
2,900.0	2,900.0	2,875.9	2,874.9	4.8	10.5	-53.63	194.8	-264.5	329.5	315.0	14.49	22.735			
3,000.0	3,000.0	2,975.3	2,973.8	4.9	10.8	-54.84	193.6	-274.9	337.2	322.3	14.86	22.693			
3,100.0	3,100.0	3,074.8	3,072.7	5.0	11.1	-56.01	192.3	-285.2	345.0	329.8	15.23	22.658			
3,200.0	3,200.0	3,174.2	3,171.6	5.1	11.5	-57.12	191.0	-295.5	353.0	337.4	15.60	22.631			
3,300.0	3,300.0	3,273.7	3,270.5	5.2	11.8	-58.18	189.8	-305.8	361.1	345.1	15.97	22.610			
3,400.0	3,400.0	3,373.1	3,369.4	5.3	12.1	-59.19	188.5	-316.1	369.3	353.0	16.35	22.595			
3,500.0	3,500.0	3,472.6	3,468.3	5.4	12.5	-60.16	187.2	-326.4	377.7	360.9	16.72	22.584			
3,600.0	3,600.0	3,572.0	3,567.3	5.5	12.8	-61.09	186.0	-336.8	386.1	369.0	17.10	22.578			
3,700.0	3,700.0	3,671.5	3,666.2	5.7	13.2	-61.98	184.7	-347.1	394.6	377.1	17.48	22.575	SF		
3,800.0	3,800.0	3,770.9	3,765.1	5.8	13.5	-62.83	183.4	-357.4	403.2	385.4	17.86	22.575			
3,900.0	3,900.0	3,870.4	3,864.0	5.9	13.8	-63.65	182.2	-367.7	411.9	393.7	18.25	22.578			
4,000.0	4,000.0	3,969.8	3,962.9	6.0	14.2	-64.43	180.9	-378.0	420.7	402.1	18.63	22.583			
4,100.0	4,100.0	4,069.3	4,061.8	6.1	14.5	-65.18	179.6	-388.4	429.6	410.6	19.02	22.590			
4,200.0	4,200.0	4,168.7	4,160.7	6.2	14.9	-65.90	178.4	-398.7	438.5	419.1	19.40	22.599			
4,300.0	4,300.0	4,268.2	4,259.6	6.3	15.2	-66.59	177.1	-409.0	447.5	427.7	19.79	22.609			
4,400.0	4,400.0	4,367.6	4,358.5	6.5	15.6	-67.25	175.8	-419.3	456.6	436.4	20.18	22.620			
4,500.0	4,500.0	4,467.1	4,457.4	6.6	15.9	-67.89	174.6	-429.6	465.7	445.1	20.58	22.633			
4,600.0	4,600.0	4,566.5	4,556.3	6.7	16.3	-68.50	173.3	-439.9	474.9	453.9	20.97	22.646			
4,700.0	4,700.0	4,666.0	4,655.2	6.8	16.6	-69.09	172.0	-450.3	484.1	462.7	21.36	22.660			
4,800.0	4,800.0	4,765.5	4,754.1	6.9	17.0	-69.66	170.8	-460.6	493.4	471.6	21.76	22.674			
4,900.0	4,900.0	4,864.9	4,853.0	7.0	17.3	-70.20	169.5	-470.9	502.7	480.5	22.16	22.689			
5,000.0	5,000.0	4,964.4	4,952.0	7.2	17.7	-70.73	168.2	-481.2	512.0	489.5	22.55	22.704			

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 703H
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 703H	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	5,063.8	5,050.9	7.3	18.0	-71.24	167.0	-491.5	521.4	498.5	22.95	22.719		
5,200.0	5,200.0	5,163.3	5,149.8	7.4	18.4	-71.73	165.7	-501.9	530.9	507.5	23.35	22.734		
5,300.0	5,300.0	5,262.7	5,248.7	7.5	18.7	-72.20	164.4	-512.2	540.4	516.6	23.75	22.750		
5,400.0	5,400.0	5,362.2	5,347.6	7.6	19.1	-72.66	163.2	-522.5	549.9	525.7	24.15	22.765		
5,500.0	5,500.0	5,461.6	5,446.5	7.8	19.5	-73.10	161.9	-532.8	559.4	534.9	24.56	22.781		
5,600.0	5,600.0	5,560.9	5,545.2	7.8	19.8	177.31	160.6	-543.1	570.7	545.8	24.94	22.887		
5,700.0	5,699.8	5,659.7	5,643.5	7.8	20.2	176.91	159.4	-553.4	585.5	560.2	25.30	23.143		
5,740.7	5,740.4	5,699.7	5,683.3	7.8	20.3	176.76	158.9	-557.5	592.5	567.1	25.45	23.283		
5,800.0	5,799.5	5,758.1	5,741.3	7.9	20.5	176.56	158.1	-563.6	603.2	577.5	25.67	23.498		
5,900.0	5,899.2	5,856.4	5,839.1	7.9	20.9	176.23	156.9	-573.8	621.2	595.1	26.04	23.850		
6,000.0	5,998.8	5,954.7	5,936.9	7.9	21.2	175.92	155.6	-584.0	639.1	612.7	26.42	24.187		
6,100.0	6,098.4	6,053.0	6,034.6	7.9	21.6	175.63	154.4	-594.2	657.1	630.3	26.81	24.510		
6,200.0	6,198.1	6,151.3	6,132.4	7.9	21.9	175.36	153.1	-604.4	675.1	647.9	27.20	24.820		
6,300.0	6,297.7	6,249.6	6,230.2	7.9	22.3	175.09	151.9	-614.6	693.2	665.6	27.60	25.118		
6,400.0	6,397.4	6,348.0	6,328.0	8.0	22.6	174.85	150.6	-624.8	711.2	683.2	28.00	25.404		
6,500.0	6,497.0	6,446.3	6,425.7	8.0	23.0	174.61	149.4	-635.0	729.3	700.9	28.40	25.678		
6,600.0	6,596.7	6,544.6	6,523.5	8.0	23.3	174.39	148.1	-645.2	747.3	718.5	28.81	25.941		
6,700.0	6,696.3	6,642.9	6,621.3	8.1	23.7	174.17	146.9	-655.4	765.4	736.2	29.22	26.193		
6,800.0	6,796.0	6,741.2	6,719.1	8.1	24.0	173.97	145.6	-665.6	783.5	753.8	29.64	26.436		
6,900.0	6,895.6	6,839.5	6,816.9	8.1	24.4	173.77	144.3	-675.8	801.6	771.5	30.06	26.669		
7,000.0	6,995.3	6,937.8	6,914.6	8.2	24.8	173.59	143.1	-686.0	819.7	789.2	30.48	26.893		
7,100.0	7,094.9	7,036.2	7,012.4	8.2	25.1	173.41	141.8	-696.2	837.8	806.9	30.90	27.108		
7,200.0	7,194.6	7,134.5	7,110.2	8.2	25.5	173.24	140.6	-706.4	855.9	824.5	31.33	27.315		
7,300.0	7,294.2	7,232.8	7,208.0	8.3	25.8	173.08	139.3	-716.6	874.0	842.2	31.77	27.514		
7,400.0	7,393.9	7,331.1	7,305.7	8.3	26.2	172.92	138.1	-726.8	892.1	859.9	32.20	27.706		
7,500.0	7,493.5	7,429.4	7,403.5	8.4	26.5	172.77	136.8	-737.0	910.3	877.6	32.64	27.891		
7,600.0	7,593.2	7,527.7	7,501.3	8.4	26.9	172.62	135.6	-747.2	928.4	895.3	33.08	28.068		
7,700.0	7,692.8	7,626.0	7,599.1	8.5	27.2	172.48	134.3	-757.4	946.6	913.0	33.52	28.240		
7,800.0	7,792.5	7,724.4	7,696.8	8.5	27.6	172.35	133.1	-767.6	964.7	930.7	33.96	28.405		
7,900.0	7,892.1	7,822.7	7,794.6	8.6	28.0	172.22	131.8	-777.8	982.9	948.5	34.41	28.564		

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 703H
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 703H	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									
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	48.237	
200.0	200.0	200.0	200.0	3.0	3.0	-46.83	198.0	-211.1	289.4	283.4	6.01	48.187	
300.0	300.0	300.0	300.0	3.0	3.0	-46.83	198.0	-211.1	289.4	283.4	6.02	48.080	
400.0	400.0	400.0	400.0	3.0	3.0	-46.83	198.0	-211.1	289.4	283.4	6.04	47.918	
500.0	500.0	500.0	500.0	3.1	3.1	-46.83	198.0	-211.1	289.4	283.4	6.07	47.701	
600.0	600.0	600.0	600.0	3.1	3.1	-46.83	198.0	-211.1	289.4	283.3	6.10	47.433	
700.0	700.0	700.0	700.0	3.1	3.1	-46.83	198.0	-211.1	289.4	283.3	6.14	47.115	
800.0	800.0	800.0	800.0	3.2	3.2	-46.83	198.0	-211.1	289.4	283.3	6.19	46.751	
900.0	900.0	900.0	900.0	3.2	3.2	-46.83	198.0	-211.1	289.4	283.2	6.25	46.344	
1,000.0	1,000.0	1,000.0	1,000.0	3.2	3.2	-46.83	198.0	-211.1	289.4	283.1	6.31	45.899	
1,100.0	1,100.0	1,100.0	1,100.0	3.3	3.3	-46.83	198.0	-211.1	289.4	283.1	6.37	45.417	
1,200.0	1,200.0	1,200.0	1,200.0	3.4	3.4	-46.83	198.0	-211.1	289.4	283.0	6.45	44.905	
1,300.0	1,300.0	1,300.0	1,300.0	3.4	3.4	-46.83	198.0	-211.1	289.4	282.9	6.52	44.364	
1,400.0	1,400.0	1,400.0	1,400.0	3.5	3.5	-46.83	198.0	-211.1	289.4	282.8	6.61	43.799	
1,500.0	1,500.0	1,500.0	1,500.0	3.5	3.5	-46.83	198.0	-211.1	289.4	282.7	6.70	43.214	
1,600.0	1,600.0	1,600.0	1,600.0	3.6	3.6	-46.83	198.0	-211.1	289.4	282.7	6.79	42.612	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-46.83	198.0	-211.1	289.4	282.6	6.89	41.997	
1,800.0	1,800.0	1,800.0	1,800.0	3.8	3.8	-46.83	198.0	-211.1	289.4	282.4	7.00	41.371	
1,900.0	1,900.0	1,900.0	1,900.0	3.9	3.9	-46.83	198.0	-211.1	289.4	282.3	7.11	40.738	
2,000.0	2,000.0	2,000.0	2,000.0	3.9	3.9	-46.83	198.0	-211.1	289.4	282.2	7.22	40.099	
2,100.0	2,100.0	2,100.0	2,100.0	4.0	4.0	-46.83	198.0	-211.1	289.4	282.1	7.34	39.459	
2,200.0	2,200.0	2,200.0	2,200.0	4.1	4.1	-46.83	198.0	-211.1	289.4	282.0	7.46	38.818	
2,300.0	2,300.0	2,300.0	2,300.0	4.2	4.2	-46.83	198.0	-211.1	289.4	281.9	7.58	38.179	
2,400.0	2,400.0	2,400.0	2,400.0	4.3	4.3	-46.83	198.0	-211.1	289.4	281.7	7.71	37.543	
2,500.0	2,500.0	2,500.0	2,500.0	4.4	4.4	-46.83	198.0	-211.1	289.4	281.6	7.84	36.912 CC, ES	
2,600.0	2,600.0	2,595.6	2,595.6	4.5	4.4	-47.11	197.5	-212.6	290.2	282.2	7.96	36.474	
2,700.0	2,700.0	2,691.1	2,691.0	4.6	4.5	-47.94	195.9	-217.1	292.5	284.5	8.05	36.342 SF	
2,800.0	2,800.0	2,790.9	2,790.5	4.7	4.5	-49.07	193.6	-223.2	295.7	287.5	8.13	36.346	
2,900.0	2,900.0	2,890.7	2,890.1	4.8	4.5	-50.16	191.4	-229.4	298.9	290.7	8.22	36.351	
3,000.0	3,000.0	2,990.5	2,989.7	4.9	4.5	-51.24	189.1	-235.6	302.3	294.0	8.31	36.361	
3,100.0	3,100.0	3,090.2	3,089.2	5.0	4.5	-52.29	186.9	-241.7	305.7	297.3	8.41	36.374	
3,200.0	3,200.0	3,190.0	3,188.8	5.1	4.5	-53.32	184.6	-247.9	309.3	300.8	8.50	36.390	
3,300.0	3,300.0	3,289.8	3,288.4	5.2	4.6	-54.33	182.4	-254.1	313.0	304.4	8.60	36.409	
3,400.0	3,400.0	3,389.6	3,387.9	5.3	4.6	-55.31	180.2	-260.2	316.7	308.0	8.69	36.431	
3,500.0	3,500.0	3,489.4	3,487.5	5.4	4.7	-56.26	177.9	-266.4	320.6	311.8	8.79	36.455	
3,600.0	3,600.0	3,589.2	3,587.1	5.5	4.7	-57.20	175.7	-272.6	324.5	315.6	8.90	36.480	
3,700.0	3,700.0	3,689.0	3,686.6	5.7	4.7	-58.11	173.4	-278.7	328.5	319.5	9.00	36.507	
3,800.0	3,800.0	3,788.7	3,786.2	5.8	4.8	-59.00	171.2	-284.9	332.7	323.5	9.10	36.535	
3,900.0	3,900.0	3,888.5	3,885.8	5.9	4.8	-59.87	168.9	-291.1	336.8	327.6	9.21	36.564	
4,000.0	4,000.0	3,988.3	3,985.4	6.0	4.9	-60.72	166.7	-297.2	341.1	331.8	9.32	36.593	
4,100.0	4,100.0	4,088.1	4,084.9	6.1	4.9	-61.54	164.4	-303.4	345.4	336.0	9.43	36.623	
4,200.0	4,200.0	4,187.9	4,184.5	6.2	5.0	-62.35	162.2	-309.6	349.8	340.3	9.54	36.652	
4,300.0	4,300.0	4,287.7	4,284.1	6.3	5.1	-63.13	160.0	-315.7	354.3	344.6	9.66	36.681	
4,400.0	4,400.0	4,387.4	4,383.6	6.5	5.1	-63.90	157.7	-321.9	358.8	349.0	9.77	36.710	
4,500.0	4,500.0	4,487.2	4,483.2	6.6	5.2	-64.64	155.5	-328.1	363.4	353.5	9.89	36.737	
4,600.0	4,600.0	4,587.0	4,582.8	6.7	5.3	-65.37	153.2	-334.2	368.1	358.1	10.01	36.764	
4,700.0	4,700.0	4,686.8	4,682.3	6.8	5.3	-66.08	151.0	-340.4	372.8	362.7	10.13	36.790	
4,800.0	4,800.0	4,786.6	4,781.9	6.9	5.4	-66.77	148.7	-346.5	377.6	367.3	10.26	36.814	
4,900.0	4,900.0	4,886.4	4,881.5	7.0	5.5	-67.45	146.5	-352.7	382.4	372.0	10.38	36.837	
5,000.0	5,000.0	4,986.1	4,981.0	7.2	5.6	-68.10	144.2	-358.9	387.2	376.7	10.51	36.859	

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 703H
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 703H	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 (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,100.0	5,085.9	5,080.6	7.3	5.6	-68.74		142.0	-365.0	392.2	381.5	10.63	36.879	
5,200.0	5,200.0	5,185.7	5,180.2	7.4	5.7	-69.37		139.8	-371.2	397.1	386.4	10.76	36.898	
5,300.0	5,300.0	5,285.5	5,279.7	7.5	5.8	-69.98		137.5	-377.4	402.2	391.3	10.89	36.915	
5,400.0	5,400.0	5,385.3	5,379.3	7.6	5.9	-70.57		135.3	-383.5	407.2	396.2	11.03	36.930	
5,500.0	5,500.0	5,485.1	5,478.9	7.8	6.0	-71.15		133.0	-389.7	412.3	401.2	11.16	36.943	
5,600.0	5,600.0	5,584.7	5,578.3	7.8	6.1	179.12		130.8	-395.9	419.2	407.9	11.27	37.194	
5,700.0	5,699.8	5,684.1	5,677.5	7.8	6.2	178.58		128.6	-402.0	429.6	418.3	11.36	37.811	
5,740.7	5,740.4	5,724.4	5,717.7	7.8	6.2	178.37		127.6	-404.5	434.8	423.4	11.40	38.138	
5,800.0	5,799.5	5,783.1	5,776.3	7.9	6.3	178.09		126.3	-408.1	442.9	431.4	11.46	38.640	
5,900.0	5,899.2	5,882.1	5,875.1	7.9	6.3	177.62		124.1	-414.2	456.5	444.9	11.57	39.456	
6,000.0	5,998.8	5,981.2	5,973.9	7.9	6.4	177.18		121.9	-420.4	470.2	458.5	11.69	40.233	
6,100.0	6,098.4	6,080.2	6,072.7	7.9	6.5	176.77		119.6	-426.5	483.8	472.0	11.81	40.974	
6,200.0	6,198.1	6,179.2	6,171.5	7.9	6.6	176.38		117.4	-432.6	497.5	485.6	11.94	41.679	
6,300.0	6,297.7	6,278.2	6,270.3	7.9	6.7	176.01		115.2	-438.7	511.2	499.1	12.07	42.349	
6,400.0	6,397.4	6,377.2	6,369.1	8.0	6.8	175.66		113.0	-444.8	524.9	512.7	12.21	42.986	
6,500.0	6,497.0	6,476.2	6,467.8	8.0	6.9	175.33		110.7	-450.9	538.7	526.3	12.36	43.589	
6,600.0	6,596.7	6,575.2	6,566.6	8.0	7.0	175.01		108.5	-457.1	552.4	539.9	12.51	44.162	
6,700.0	6,696.3	6,674.2	6,665.4	8.1	7.1	174.71		106.3	-463.2	566.2	553.5	12.67	44.705	
6,800.0	6,796.0	6,773.2	6,764.2	8.1	7.2	174.43		104.1	-469.3	580.0	567.2	12.83	45.219	
6,900.0	6,895.6	6,872.2	6,863.0	8.1	7.3	174.16		101.8	-475.4	593.8	580.8	12.99	45.706	
7,000.0	6,995.3	6,971.2	6,961.8	8.2	7.4	173.90		99.6	-481.5	607.6	594.5	13.16	46.168	
7,100.0	7,094.9	7,070.2	7,060.6	8.2	7.5	173.65		97.4	-487.6	621.5	608.1	13.33	46.604	
7,200.0	7,194.6	7,169.2	7,159.4	8.2	7.6	173.41		95.2	-493.8	635.3	621.8	13.51	47.017	
7,300.0	7,294.2	7,268.2	7,258.2	8.3	7.7	173.18		92.9	-499.9	649.1	635.4	13.69	47.408	
7,400.0	7,393.9	7,367.2	7,356.9	8.3	7.9	172.96		90.7	-506.0	663.0	649.1	13.88	47.778	
7,500.0	7,493.5	7,466.2	7,455.7	8.4	8.0	172.75		88.5	-512.1	676.9	662.8	14.06	48.128	
7,600.0	7,593.2	7,565.2	7,554.5	8.4	8.1	172.55		86.3	-518.2	690.7	676.5	14.25	48.460	
7,700.0	7,692.8	7,664.2	7,653.3	8.5	8.2	172.36		84.0	-524.3	704.6	690.2	14.45	48.773	
7,800.0	7,792.5	7,763.2	7,752.1	8.5	8.3	172.17		81.8	-530.5	718.5	703.9	14.64	49.070	
7,900.0	7,892.1	7,862.2	7,850.9	8.6	8.4	172.00		79.6	-536.6	732.4	717.6	14.84	49.351	
8,000.0	7,991.7	7,961.2	7,949.7	8.7	8.5	171.82		77.3	-542.7	746.3	731.3	15.04	49.617	
8,100.0	8,091.4	8,060.2	8,048.5	8.7	8.6	171.66		75.1	-548.8	760.2	745.0	15.25	49.868	
8,200.0	8,191.0	8,159.2	8,147.3	8.8	8.7	171.50		72.9	-554.9	774.2	758.7	15.45	50.107	
8,300.0	8,290.7	8,258.2	8,246.1	8.8	8.8	171.35		70.7	-561.0	788.1	772.4	15.66	50.333	
8,400.0	8,390.3	8,357.2	8,344.8	8.9	8.9	171.20		68.4	-567.2	802.0	786.2	15.87	50.547	
8,500.0	8,490.0	8,456.3	8,443.6	9.0	9.1	171.05		66.2	-573.3	816.0	799.9	16.08	50.749	
8,600.0	8,589.6	8,555.3	8,542.4	9.0	9.2	170.91		64.0	-579.4	829.9	813.6	16.29	50.941	
8,700.0	8,689.3	8,654.3	8,641.2	9.1	9.3	170.78		61.8	-585.5	843.8	827.3	16.51	51.124	
8,800.0	8,788.9	8,753.3	8,740.0	9.2	9.4	170.65		59.5	-591.6	857.8	841.1	16.72	51.296	
8,900.0	8,888.6	8,852.3	8,838.8	9.3	9.5	170.52		57.3	-597.8	871.7	854.8	16.94	51.460	
9,000.0	8,988.2	8,951.3	8,937.6	9.3	9.6	170.40		55.1	-603.9	885.7	868.5	17.16	51.615	
9,100.0	9,087.9	9,050.3	9,036.4	9.4	9.7	170.29		52.9	-610.0	899.7	882.3	17.38	51.763	
9,200.0	9,187.5	9,149.3	9,135.2	9.5	9.9	170.17		50.6	-616.1	913.6	896.0	17.60	51.902	
9,300.0	9,287.2	9,229.0	9,214.6	9.6	9.9	170.34		53.0	-621.0	928.5	910.7	17.81	52.146	
9,400.0	9,386.8	9,300.0	9,284.5	9.7	9.9	171.05		64.4	-625.5	945.8	927.8	18.03	52.466	
9,500.0	9,486.5	9,374.0	9,355.3	9.7	10.0	172.30		85.3	-630.0	965.9	947.7	18.27	52.864	
9,600.0	9,586.1	9,437.9	9,413.8	9.8	10.0	173.78		110.6	-633.8	989.6	970.9	18.64	53.075	

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

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COMPASS 5000.15 Build 91E

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 703H
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 703H	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	-42.40	198.3	-181.1	268.5				
100.0	100.0	100.0	100.0	3.0	3.0	-42.40	198.3	-181.1	268.5	262.5	6.00	44.732	
200.0	200.0	200.0	200.0	3.0	3.0	-42.40	198.3	-181.1	268.5	262.5	6.04	44.433	
300.0	300.0	300.0	300.0	3.0	3.1	-42.40	198.3	-181.1	268.5	262.4	6.13	43.815	
400.0	400.0	400.0	400.0	3.0	3.2	-42.40	198.3	-181.1	268.5	262.3	6.26	42.924	
500.0	500.0	500.0	500.0	3.1	3.4	-42.40	198.3	-181.1	268.5	262.1	6.42	41.819	
600.0	600.0	600.0	600.0	3.1	3.6	-42.40	198.3	-181.1	268.5	261.9	6.62	40.564	
700.0	700.0	700.0	700.0	3.1	3.8	-42.40	198.3	-181.1	268.5	261.7	6.85	39.213	
800.0	800.0	800.0	800.0	3.2	4.0	-42.40	198.3	-181.1	268.5	261.4	7.10	37.814	
900.0	900.0	900.0	900.0	3.2	4.2	-42.40	198.3	-181.1	268.5	261.2	7.38	36.405	
1,000.0	1,000.0	1,000.0	1,000.0	3.2	4.5	-42.40	198.3	-181.1	268.5	260.9	7.67	35.011	
1,100.0	1,100.0	1,100.0	1,100.0	3.3	4.8	-42.40	198.3	-181.1	268.5	260.6	7.98	33.653	
1,200.0	1,200.0	1,200.0	1,200.0	3.4	5.1	-42.40	198.3	-181.1	268.5	260.2	8.30	32.342	
1,300.0	1,300.0	1,300.0	1,300.0	3.4	5.4	-42.40	198.3	-181.1	268.5	259.9	8.64	31.086	
1,400.0	1,400.0	1,400.0	1,400.0	3.5	5.7	-42.40	198.3	-181.1	268.5	259.6	8.98	29.889	
1,500.0	1,500.0	1,500.0	1,500.0	3.5	6.0	-42.40	198.3	-181.1	268.5	259.2	9.34	28.752	
1,600.0	1,600.0	1,600.0	1,600.0	3.6	6.3	-42.40	198.3	-181.1	268.5	258.8	9.70	27.675	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	6.6	-42.40	198.3	-181.1	268.5	258.5	10.07	26.657	
1,800.0	1,800.0	1,800.0	1,800.0	3.8	6.9	-42.40	198.3	-181.1	268.5	258.1	10.45	25.694	
1,900.0	1,900.0	1,900.0	1,900.0	3.9	7.2	-42.40	198.3	-181.1	268.5	257.7	10.83	24.786	
2,000.0	2,000.0	2,000.0	2,000.0	3.9	7.6	-42.40	198.3	-181.1	268.5	257.3	11.22	23.928	
2,100.0	2,100.0	2,100.0	2,100.0	4.0	7.9	-42.40	198.3	-181.1	268.5	256.9	11.62	23.118	
2,200.0	2,200.0	2,200.0	2,200.0	4.1	8.2	-42.40	198.3	-181.1	268.5	256.5	12.01	22.352	
2,300.0	2,300.0	2,300.0	2,300.0	4.2	8.6	-42.40	198.3	-181.1	268.5	256.1	12.42	21.629	
2,400.0	2,400.0	2,400.0	2,400.0	4.3	8.9	-42.40	198.3	-181.1	268.5	255.7	12.82	20.945	
2,500.0	2,500.0	2,500.0	2,500.0	4.4	9.2	-42.40	198.3	-181.1	268.5	255.3	13.23	20.298	
2,600.0	2,600.0	2,600.0	2,600.0	4.5	9.6	-42.40	198.3	-181.1	268.5	254.9	13.64	19.685	
2,700.0	2,700.0	2,700.0	2,700.0	4.6	9.9	-42.40	198.3	-181.1	268.5	254.5	14.06	19.104	
2,800.0	2,800.0	2,800.0	2,800.0	4.7	10.3	-42.40	198.3	-181.1	268.5	254.1	14.47	18.553	
2,900.0	2,900.0	2,900.0	2,900.0	4.8	10.6	-42.40	198.3	-181.1	268.5	253.6	14.89	18.030	
3,000.0	3,000.0	3,000.0	3,000.0	4.9	10.9	-42.40	198.3	-181.1	268.5	253.2	15.32	17.533	
3,100.0	3,100.0	3,100.0	3,100.0	5.0	11.3	-42.40	198.3	-181.1	268.5	252.8	15.74	17.060	
3,200.0	3,200.0	3,200.0	3,200.0	5.1	11.6	-42.40	198.3	-181.1	268.5	252.4	16.17	16.610	
3,300.0	3,300.0	3,300.0	3,300.0	5.2	12.0	-42.40	198.3	-181.1	268.5	251.9	16.60	16.181	
3,400.0	3,400.0	3,400.0	3,400.0	5.3	12.3	-42.40	198.3	-181.1	268.5	251.5	17.03	15.773	
3,500.0	3,500.0	3,500.0	3,500.0	5.4	12.7	-42.40	198.3	-181.1	268.5	251.1	17.46	15.383	
3,600.0	3,600.0	3,600.0	3,600.0	5.5	13.0	-42.40	198.3	-181.1	268.5	250.6	17.89	15.010	
3,700.0	3,700.0	3,700.0	3,700.0	5.7	13.4	-42.40	198.3	-181.1	268.5	250.2	18.32	14.654	
3,800.0	3,800.0	3,800.0	3,800.0	5.8	13.7	-42.40	198.3	-181.1	268.5	249.8	18.76	14.314	
3,900.0	3,900.0	3,900.0	3,900.0	5.9	14.1	-42.40	198.3	-181.1	268.5	249.3	19.20	13.988	
4,000.0	4,000.0	4,000.0	4,000.0	6.0	14.4	-42.40	198.3	-181.1	268.5	248.9	19.64	13.675	
4,100.0	4,100.0	4,100.0	4,100.0	6.1	14.8	-42.40	198.3	-181.1	268.5	248.5	20.08	13.376	
4,200.0	4,200.0	4,200.0	4,200.0	6.2	15.1	-42.40	198.3	-181.1	268.5	248.0	20.52	13.089	
4,300.0	4,300.0	4,300.0	4,300.0	6.3	15.5	-42.40	198.3	-181.1	268.5	247.6	20.96	12.813	
4,400.0	4,400.0	4,400.0	4,400.0	6.5	15.8	-42.40	198.3	-181.1	268.5	247.1	21.40	12.548	
4,500.0	4,500.0	4,500.0	4,500.0	6.6	16.2	-42.40	198.3	-181.1	268.5	246.7	21.84	12.293	
4,600.0	4,600.0	4,600.0	4,600.0	6.7	16.5	-42.40	198.3	-181.1	268.5	246.2	22.29	12.048	
4,700.0	4,700.0	4,700.0	4,700.0	6.8	16.9	-42.40	198.3	-181.1	268.5	245.8	22.73	11.812	
4,800.0	4,800.0	4,800.0	4,800.0	6.9	17.2	-42.40	198.3	-181.1	268.5	245.4	23.18	11.585	
4,900.0	4,900.0	4,900.0	4,900.0	7.0	17.6	-42.40	198.3	-181.1	268.5	244.9	23.63	11.366	
5,000.0	5,000.0	5,000.0	5,000.0	7.2	18.0	-42.40	198.3	-181.1	268.5	244.5	24.07	11.155	

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 703H
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 703H	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								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	18.3	-42.40	198.3	-181.1	268.5	244.0	24.52	10.951					
5,200.0	5,200.0	5,200.0	5,200.0	7.4	18.7	-42.40	198.3	-181.1	268.5	243.6	24.97	10.754					
5,300.0	5,300.0	5,300.0	5,300.0	7.5	19.0	-42.40	198.3	-181.1	268.5	243.1	25.42	10.564					
5,400.0	5,400.0	5,400.0	5,400.0	7.6	19.4	-42.40	198.3	-181.1	268.5	242.7	25.87	10.380					
5,500.0	5,500.0	5,500.0	5,500.0	7.8	19.7	-42.40	198.3	-181.1	268.5	242.2	26.32	10.203					
5,600.0	5,600.0	5,609.1	5,609.0	7.8	20.1	-151.56	197.6	-179.1	268.4	241.7	26.72	10.044					
5,700.0	5,699.8	5,718.1	5,717.9	7.8	20.5	-151.53	195.5	-173.3	267.9	240.9	27.04	9.909					
5,740.7	5,740.4	5,761.4	5,761.0	7.8	20.6	-151.51	194.2	-169.9	267.7	240.5	27.17	9.853					
5,800.0	5,799.5	5,820.7	5,820.2	7.9	20.8	-151.51	192.5	-165.1	267.5	240.1	27.35	9.779					
5,900.0	5,899.2	5,920.7	5,919.8	7.9	21.1	-151.50	189.5	-156.9	267.1	239.5	27.67	9.654					
6,000.0	5,998.8	6,020.7	6,019.4	7.9	21.5	-151.49	186.5	-148.7	266.8	238.8	27.99	9.532					
6,100.0	6,098.4	6,120.7	6,119.0	7.9	21.8	-151.48	183.5	-140.5	266.4	238.1	28.31	9.411					
6,200.0	6,198.1	6,220.7	6,218.6	7.9	22.1	-151.47	180.5	-132.3	266.1	237.5	28.64	9.292					
6,300.0	6,297.7	6,320.7	6,318.2	7.9	22.5	-151.46	177.5	-124.1	265.7	236.8	28.96	9.175					
6,400.0	6,397.4	6,420.7	6,417.9	8.0	22.8	-151.45	174.6	-115.9	265.4	236.1	29.29	9.060					
6,500.0	6,497.0	6,520.7	6,517.5	8.0	23.2	-151.44	171.6	-107.7	265.1	235.4	29.63	8.946					
6,600.0	6,596.7	6,620.7	6,617.1	8.0	23.5	-151.43	168.6	-99.5	264.7	234.7	29.97	8.834					
6,700.0	6,696.3	6,720.7	6,716.7	8.1	23.8	-151.42	165.6	-91.3	264.4	234.1	30.30	8.723					
6,800.0	6,796.0	6,820.7	6,816.3	8.1	24.2	-151.41	162.6	-83.2	264.0	233.4	30.65	8.614					
6,900.0	6,895.6	6,920.7	6,916.0	8.1	24.5	-151.40	159.7	-75.0	263.7	232.7	30.99	8.507					
7,000.0	6,995.3	7,020.7	7,015.6	8.2	24.9	-151.39	156.7	-66.8	263.3	232.0	31.34	8.402					
7,100.0	7,094.9	7,120.7	7,115.2	8.2	25.2	-151.38	153.7	-58.6	263.0	231.3	31.69	8.298					
7,200.0	7,194.6	7,220.7	7,214.8	8.2	25.5	-151.37	150.7	-50.4	262.6	230.6	32.05	8.195					
7,300.0	7,294.2	7,320.7	7,314.4	8.3	25.9	-151.36	147.7	-42.2	262.3	229.9	32.40	8.094					
7,400.0	7,393.9	7,420.7	7,414.1	8.3	26.2	-151.35	144.8	-34.0	261.9	229.2	32.76	7.995					
7,500.0	7,493.5	7,520.7	7,513.7	8.4	26.6	-151.34	141.8	-25.8	261.6	228.5	33.13	7.897					
7,600.0	7,593.2	7,620.7	7,613.3	8.4	26.9	-151.34	138.8	-17.6	261.2	227.8	33.49	7.801					
7,700.0	7,692.8	7,720.7	7,712.9	8.5	27.3	-151.33	135.8	-9.4	260.9	227.0	33.86	7.706					
7,800.0	7,792.5	7,820.7	7,812.5	8.5	27.6	-151.32	132.8	-1.3	260.6	226.3	34.23	7.612					
7,900.0	7,892.1	7,920.7	7,912.2	8.6	28.0	-151.31	129.9	6.9	260.2	225.6	34.60	7.520					
8,000.0	7,991.7	8,020.7	8,011.8	8.7	28.3	-151.30	126.9	15.1	259.9	224.9	34.98	7.430					
8,100.0	8,091.4	8,120.7	8,111.4	8.7	28.7	-151.29	123.9	23.3	259.5	224.2	35.35	7.341					
8,200.0	8,191.0	8,220.7	8,211.0	8.8	29.0	-151.28	120.9	31.5	259.2	223.4	35.73	7.253					
8,300.0	8,290.7	8,320.7	8,310.6	8.8	29.4	-151.27	117.9	39.7	258.8	222.7	36.12	7.167					
8,400.0	8,390.3	8,420.7	8,410.2	8.9	29.7	-151.26	114.9	47.9	258.5	222.0	36.50	7.082					
8,500.0	8,490.0	8,520.7	8,509.9	9.0	30.1	-151.25	112.0	56.1	258.1	221.2	36.89	6.998					
8,600.0	8,589.6	8,620.7	8,609.5	9.0	30.4	-151.24	109.0	64.3	257.8	220.5	37.28	6.916					
8,700.0	8,689.3	8,720.7	8,709.1	9.1	30.8	-151.23	106.0	72.5	257.4	219.8	37.67	6.835					
8,800.0	8,788.9	8,820.7	8,808.7	9.2	31.1	-151.22	103.0	80.6	257.1	219.0	38.06	6.755					
8,900.0	8,888.6	8,920.7	8,908.3	9.3	31.5	-151.21	100.0	88.8	256.7	218.3	38.46	6.676					
9,000.0	8,988.2	9,020.7	9,008.0	9.3	31.8	-151.20	97.1	97.0	256.4	217.5	38.86	6.599					
9,079.7	9,067.7	9,099.5	9,086.4	9.4	32.1	-151.19	94.7	103.5	256.1	217.0	39.17	6.539 CC, ES					
9,100.0	9,087.9	9,114.6	9,101.5	9.4	32.2	-151.15	94.5	104.7	256.3	217.1	39.24	6.532 SF					
9,200.0	9,187.5	9,188.5	9,174.9	9.5	32.4	-150.13	99.4	110.5	263.4	223.7	39.65	6.643					
9,300.0	9,287.2	9,259.5	9,244.4	9.6	32.7	-148.04	113.0	115.8	280.5	240.4	40.12	6.992					
9,400.0	9,386.8	9,325.7	9,307.2	9.7	32.9	-145.38	133.3	120.4	307.9	267.3	40.60	7.584					
9,500.0	9,486.5	9,386.1	9,362.1	9.7	33.1	-142.62	158.1	124.2	345.3	304.3	41.01	8.420					
9,600.0	9,586.1	9,440.3	9,409.0	9.8	33.2	-140.06	185.1	127.2	392.0	350.7	41.30	9.491					
9,700.0	9,685.8	9,488.3	9,448.2	9.9	33.3	-137.83	212.6	129.7	446.8	405.3	41.46	10.775					
9,800.0	9,785.4	9,530.5	9,480.7	10.0	33.4	-135.94	239.5	131.6	508.4	466.9	41.53	12.243					
9,900.0	9,885.0	9,567.7	9,507.6	10.1	33.5	-134.37	265.1	133.0	575.9	534.4	41.53	13.867					

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 703H
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 703H	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	9,984.7	9,600.0	9,529.6	10.2	33.6	-133.07	288.7	134.2	648.1	606.6	41.51	15.612	
10,100.0	10,084.3	9,628.9	9,548.2	10.3	33.7	-131.98	310.9	135.1	724.2	682.7	41.49	17.455	
10,200.0	10,184.0	9,650.0	9,561.0	10.4	33.7	-131.22	327.6	135.7	803.6	762.2	41.44	19.391	
10,300.0	10,283.6	9,676.7	9,576.3	10.4	33.8	-130.31	349.4	136.3	885.6	844.1	41.49	21.343	
10,400.0	10,383.3	9,700.0	9,588.8	10.5	33.8	-129.55	369.1	136.8	969.8	928.3	41.56	23.335	

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 703H
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 703H	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	-90.54	-3.0	-320.0	320.0				
100.0	100.0	99.0	99.0	3.0	3.0	-90.54	-3.0	-320.0	320.0	314.0	6.00	53.332	
200.0	200.0	199.0	199.0	3.0	3.0	-90.54	-3.0	-320.0	320.0	314.0	6.00	53.307	
300.0	300.0	299.0	299.0	3.0	3.0	-90.54	-3.0	-320.0	320.0	314.0	6.01	53.253	
400.0	400.0	399.0	399.0	3.0	3.0	-90.54	-3.0	-320.0	320.0	314.0	6.02	53.171	
500.0	500.0	499.0	499.0	3.1	3.1	-90.54	-3.0	-320.0	320.0	314.0	6.03	53.061	
600.0	600.0	599.0	599.0	3.1	3.1	-90.54	-3.0	-320.0	320.0	314.0	6.05	52.923	
700.0	700.0	699.0	699.0	3.1	3.1	-90.54	-3.0	-320.0	320.0	313.9	6.07	52.758	
800.0	800.0	799.0	799.0	3.2	3.2	-90.54	-3.0	-320.0	320.0	313.9	6.09	52.567	
900.0	900.0	899.0	899.0	3.2	3.2	-90.54	-3.0	-320.0	320.0	313.9	6.11	52.351	
1,000.0	1,000.0	999.0	999.0	3.2	3.2	-90.54	-3.0	-320.0	320.0	313.9	6.14	52.111	
1,100.0	1,100.0	1,099.0	1,099.0	3.3	3.3	-90.54	-3.0	-320.0	320.0	313.8	6.17	51.847	
1,200.0	1,200.0	1,199.0	1,199.0	3.4	3.4	-90.54	-3.0	-320.0	320.0	313.8	6.21	51.561	
1,300.0	1,300.0	1,299.0	1,299.0	3.4	3.4	-90.54	-3.0	-320.0	320.0	313.8	6.24	51.254	
1,400.0	1,400.0	1,399.0	1,399.0	3.5	3.5	-90.54	-3.0	-320.0	320.0	313.7	6.28	50.927	
1,500.0	1,500.0	1,499.0	1,499.0	3.5	3.5	-90.54	-3.0	-320.0	320.0	313.7	6.33	50.582	
1,600.0	1,600.0	1,599.0	1,599.0	3.6	3.6	-90.54	-3.0	-320.0	320.0	313.6	6.37	50.220	
1,700.0	1,700.0	1,699.0	1,699.0	3.7	3.7	-90.54	-3.0	-320.0	320.0	313.6	6.42	49.841	
1,800.0	1,800.0	1,799.0	1,799.0	3.8	3.8	-90.54	-3.0	-320.0	320.0	313.5	6.47	49.448	
1,900.0	1,900.0	1,899.0	1,899.0	3.9	3.9	-90.54	-3.0	-320.0	320.0	313.5	6.53	49.042	
2,000.0	2,000.0	1,999.0	1,999.0	3.9	3.9	-90.54	-3.0	-320.0	320.0	313.4	6.58	48.624	
2,100.0	2,100.0	2,099.0	2,099.0	4.0	4.0	-90.54	-3.0	-320.0	320.0	313.4	6.64	48.195	
2,200.0	2,200.0	2,199.0	2,199.0	4.1	4.1	-90.54	-3.0	-320.0	320.0	313.3	6.70	47.756	
2,300.0	2,300.0	2,299.0	2,299.0	4.2	4.2	-90.54	-3.0	-320.0	320.0	313.2	6.76	47.309	
2,400.0	2,400.0	2,399.0	2,399.0	4.3	4.3	-90.54	-3.0	-320.0	320.0	313.2	6.83	46.854	
2,500.0	2,500.0	2,499.0	2,499.0	4.4	4.4	-90.54	-3.0	-320.0	320.0	313.1	6.90	46.394 CC, ES	
2,600.0	2,600.0	2,589.0	2,589.0	4.5	4.5	-90.53	-3.0	-321.4	321.5	314.6	6.96	46.177 SF	
2,700.0	2,700.0	2,678.8	2,678.7	4.6	4.5	-90.53	-3.0	-325.6	326.2	319.2	7.03	46.393	
2,800.0	2,800.0	2,770.3	2,769.9	4.7	4.5	-90.52	-3.0	-332.7	333.9	326.8	7.10	47.002	
2,900.0	2,900.0	2,869.9	2,869.1	4.8	4.5	-90.50	-3.0	-341.3	342.7	335.5	7.19	47.664	
3,000.0	3,000.0	2,969.5	2,968.4	4.9	4.6	-90.49	-3.0	-350.0	351.4	344.1	7.28	48.279	
3,100.0	3,100.0	3,069.1	3,067.6	5.0	4.6	-90.48	-3.0	-358.7	360.1	352.7	7.37	48.847	
3,200.0	3,200.0	3,168.8	3,166.9	5.1	4.7	-90.47	-3.0	-367.4	368.8	361.3	7.47	49.371	
3,300.0	3,300.0	3,268.4	3,266.1	5.2	4.7	-90.46	-3.0	-376.1	377.5	369.9	7.57	49.853	
3,400.0	3,400.0	3,368.0	3,365.3	5.3	4.8	-90.45	-3.0	-384.8	386.2	378.6	7.68	50.295	
3,500.0	3,500.0	3,467.6	3,464.6	5.4	4.8	-90.44	-3.0	-393.4	395.0	387.2	7.79	50.698	
3,600.0	3,600.0	3,567.2	3,563.8	5.5	4.9	-90.43	-3.0	-402.1	403.7	395.8	7.90	51.066	
3,700.0	3,700.0	3,666.9	3,663.1	5.7	5.0	-90.42	-3.0	-410.8	412.4	404.4	8.02	51.400	
3,800.0	3,800.0	3,766.5	3,762.3	5.8	5.0	-90.41	-3.0	-419.5	421.1	413.0	8.14	51.702	
3,900.0	3,900.0	3,866.1	3,861.5	5.9	5.1	-90.40	-3.0	-428.2	429.8	421.5	8.27	51.975	
4,000.0	4,000.0	3,965.7	3,960.8	6.0	5.2	-90.39	-3.0	-436.8	438.5	430.1	8.40	52.220	
4,100.0	4,100.0	4,065.3	4,060.0	6.1	5.2	-90.39	-3.0	-445.5	447.2	438.7	8.53	52.440	
4,200.0	4,200.0	4,165.0	4,159.3	6.2	5.3	-90.38	-3.0	-454.2	456.0	447.3	8.66	52.636	
4,300.0	4,300.0	4,264.6	4,258.5	6.3	5.4	-90.37	-3.0	-462.9	464.7	455.9	8.80	52.810	
4,400.0	4,400.0	4,364.2	4,357.7	6.5	5.5	-90.36	-3.0	-471.6	473.4	464.5	8.94	52.964	
4,500.0	4,500.0	4,463.8	4,457.0	6.6	5.6	-90.36	-3.0	-480.3	482.1	473.0	9.08	53.099	
4,600.0	4,600.0	4,563.4	4,556.2	6.7	5.6	-90.35	-3.0	-488.9	490.8	481.6	9.22	53.217	
4,700.0	4,700.0	4,663.1	4,655.5	6.8	5.7	-90.35	-3.0	-497.6	499.5	490.2	9.37	53.318	
4,800.0	4,800.0	4,762.7	4,754.7	6.9	5.8	-90.34	-3.0	-506.3	508.3	498.7	9.52	53.405	
4,900.0	4,900.0	4,862.3	4,853.9	7.0	5.9	-90.33	-3.0	-515.0	517.0	507.3	9.67	53.479	
5,000.0	5,000.0	4,961.9	4,953.2	7.2	6.0	-90.33	-3.0	-523.7	525.7	515.9	9.82	53.540	

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 703H
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 703H	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 501H - OWB - PWP													Offset Well Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10117-MWD+IFR1+FDIR														
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	5,061.5	5,052.4	7.3	6.1	-90.32	-3.0	-532.4	534.4	524.4	9.97	53.589		
5,200.0	5,200.0	5,161.2	5,151.7	7.4	6.2	-90.32	-3.0	-541.0	543.1	533.0	10.13	53.628		
5,300.0	5,300.0	5,260.8	5,250.9	7.5	6.3	-90.31	-3.0	-549.7	551.8	541.5	10.28	53.658		
5,400.0	5,400.0	5,360.4	5,350.1	7.6	6.4	-90.31	-3.0	-558.4	560.5	550.1	10.44	53.678		
5,500.0	5,500.0	5,460.0	5,449.4	7.8	6.5	-90.30	-3.0	-567.1	569.3	558.7	10.60	53.691		
5,600.0	5,600.0	5,559.5	5,548.5	7.8	6.6	160.52	-3.0	-575.8	579.6	568.8	10.77	53.838		
5,700.0	5,699.8	5,658.5	5,647.1	7.8	6.7	160.61	-3.0	-584.4	593.2	582.3	10.94	54.249		
5,740.7	5,740.4	5,698.7	5,687.1	7.8	6.7	160.66	-3.0	-587.9	599.7	588.7	11.01	54.491		
5,800.0	5,799.5	5,757.1	5,745.4	7.9	6.7	160.82	-3.0	-593.0	609.5	598.4	11.11	54.868		
5,900.0	5,899.2	5,855.7	5,843.6	7.9	6.8	161.07	-3.0	-601.6	626.1	614.9	11.29	55.480		
6,000.0	5,998.8	5,954.3	5,941.8	7.9	7.0	161.31	-3.0	-610.2	642.8	631.3	11.46	56.064		
6,100.0	6,098.4	6,052.9	6,040.0	7.9	7.1	161.53	-3.0	-618.8	659.4	647.7	11.65	56.620		
6,200.0	6,198.1	6,151.5	6,138.2	7.9	7.2	161.75	-3.0	-627.3	676.0	664.2	11.83	57.149		
6,300.0	6,297.7	6,250.0	6,236.4	7.9	7.3	161.95	-3.0	-635.9	692.6	680.6	12.01	57.653		
6,400.0	6,397.4	6,348.6	6,334.6	8.0	7.4	162.15	-3.0	-644.5	709.3	697.1	12.20	58.132		
6,500.0	6,497.0	6,447.2	6,432.8	8.0	7.5	162.33	-3.0	-653.1	725.9	713.5	12.39	58.588		
6,600.0	6,596.7	6,545.8	6,531.0	8.0	7.6	162.51	-3.0	-661.7	742.6	730.0	12.58	59.021		
6,700.0	6,696.3	6,644.3	6,629.2	8.1	7.7	162.68	-3.0	-670.3	759.2	746.5	12.77	59.433		
6,800.0	6,796.0	6,742.9	6,727.4	8.1	7.8	162.84	-3.0	-678.9	775.9	762.9	12.97	59.823		
6,900.0	6,895.6	6,841.5	6,825.6	8.1	7.9	163.00	-3.0	-687.5	792.6	779.4	13.17	60.195		
7,000.0	6,995.3	6,940.1	6,923.8	8.2	8.0	163.15	-3.0	-696.1	809.3	795.9	13.37	60.547		
7,100.0	7,094.9	7,038.6	7,022.0	8.2	8.1	163.29	-3.0	-704.7	826.0	812.4	13.57	60.881		
7,200.0	7,194.6	7,137.2	7,120.2	8.2	8.2	163.43	-3.0	-713.3	842.7	828.9	13.77	61.198		
7,300.0	7,294.2	7,235.8	7,218.4	8.3	8.3	163.56	-3.0	-721.9	859.3	845.4	13.97	61.499		
7,400.0	7,393.9	7,334.4	7,316.6	8.3	8.4	163.69	-3.0	-730.4	876.0	861.9	14.18	61.784		
7,500.0	7,493.5	7,433.0	7,414.8	8.4	8.6	163.81	-3.0	-739.0	892.8	878.4	14.39	62.055		
7,600.0	7,593.2	7,531.5	7,513.0	8.4	8.7	163.93	-3.0	-747.6	909.5	894.9	14.60	62.311		
7,700.0	7,692.8	7,630.1	7,611.2	8.5	8.8	164.04	-3.0	-756.2	926.2	911.4	14.81	62.554		
7,800.0	7,792.5	7,728.7	7,709.4	8.5	8.9	164.15	-3.0	-764.8	942.9	927.9	15.02	62.784		
7,900.0	7,892.1	7,827.3	7,807.6	8.6	9.0	164.25	-3.0	-773.4	959.6	944.4	15.23	63.002		
8,000.0	7,991.7	7,925.8	7,905.8	8.7	9.1	164.36	-3.0	-782.0	976.3	960.9	15.45	63.208		
8,100.0	8,091.4	8,024.4	8,004.0	8.7	9.2	164.46	-3.0	-790.6	993.1	977.4	15.66	63.404		

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 703H
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 703H	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						
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	-90.54	-2.7	-290.0	290.0				
100.0	100.0	99.0	99.0	3.0	3.0	-90.54	-2.7	-290.0	290.0	284.0	6.00	48.308	
200.0	200.0	199.0	199.0	3.0	3.0	-90.54	-2.7	-290.0	290.0	284.0	6.04	48.005	
300.0	300.0	299.0	299.0	3.0	3.1	-90.54	-2.7	-290.0	290.0	283.9	6.12	47.372	
400.0	400.0	399.0	399.0	3.0	3.2	-90.54	-2.7	-290.0	290.0	283.8	6.24	46.459	
500.0	500.0	499.0	499.0	3.1	3.4	-90.54	-2.7	-290.0	290.0	283.6	6.40	45.324	
600.0	600.0	599.0	599.0	3.1	3.6	-90.54	-2.7	-290.0	290.0	283.4	6.59	44.032	
700.0	700.0	699.0	699.0	3.1	3.8	-90.54	-2.7	-290.0	290.0	283.2	6.80	42.641	
800.0	800.0	799.0	799.0	3.2	4.0	-90.54	-2.7	-290.0	290.0	283.0	7.04	41.198	
900.0	900.0	899.0	899.0	3.2	4.2	-90.54	-2.7	-290.0	290.0	282.7	7.30	39.743	
1,000.0	1,000.0	999.0	999.0	3.2	4.5	-90.54	-2.7	-290.0	290.0	282.4	7.57	38.301	
1,100.0	1,100.0	1,099.0	1,099.0	3.3	4.8	-90.54	-2.7	-290.0	290.0	282.1	7.86	36.894	
1,200.0	1,200.0	1,199.0	1,199.0	3.4	5.1	-90.54	-2.7	-290.0	290.0	281.8	8.16	35.533	
1,300.0	1,300.0	1,299.0	1,299.0	3.4	5.4	-90.54	-2.7	-290.0	290.0	281.5	8.47	34.227	
1,400.0	1,400.0	1,399.0	1,399.0	3.5	5.7	-90.54	-2.7	-290.0	290.0	281.2	8.79	32.980	
1,500.0	1,500.0	1,499.0	1,499.0	3.5	6.0	-90.54	-2.7	-290.0	290.0	280.9	9.12	31.793	
1,600.0	1,600.0	1,599.0	1,599.0	3.6	6.3	-90.54	-2.7	-290.0	290.0	280.5	9.46	30.666	
1,700.0	1,700.0	1,699.0	1,699.0	3.7	6.6	-90.54	-2.7	-290.0	290.0	280.2	9.80	29.598	
1,800.0	1,800.0	1,799.0	1,799.0	3.8	6.9	-90.54	-2.7	-290.0	290.0	279.8	10.14	28.587	
1,900.0	1,900.0	1,899.0	1,899.0	3.9	7.2	-90.54	-2.7	-290.0	290.0	279.5	10.50	27.630	
2,000.0	2,000.0	1,999.0	1,999.0	3.9	7.6	-90.54	-2.7	-290.0	290.0	279.1	10.85	26.724	
2,100.0	2,100.0	2,099.0	2,099.0	4.0	7.9	-90.54	-2.7	-290.0	290.0	278.8	11.21	25.867	
2,200.0	2,200.0	2,199.0	2,199.0	4.1	8.2	-90.54	-2.7	-290.0	290.0	278.4	11.57	25.055	
2,300.0	2,300.0	2,299.0	2,299.0	4.2	8.6	-90.54	-2.7	-290.0	290.0	278.1	11.94	24.286	
2,400.0	2,400.0	2,399.0	2,399.0	4.3	8.9	-90.54	-2.7	-290.0	290.0	277.7	12.31	23.557	
2,500.0	2,500.0	2,499.0	2,499.0	4.4	9.2	-90.54	-2.7	-290.0	290.0	277.3	12.68	22.866 CC, ES	
2,600.0	2,600.0	2,590.3	2,590.3	4.5	9.5	-90.63	-3.2	-291.3	291.5	278.5	13.01	22.398	
2,700.0	2,700.0	2,681.4	2,681.3	4.6	9.8	-90.91	-4.7	-295.4	295.9	282.6	13.33	22.204	
2,800.0	2,800.0	2,779.4	2,779.0	4.7	10.1	-91.33	-7.0	-301.7	302.5	288.8	13.68	22.117	
2,900.0	2,900.0	2,879.1	2,878.5	4.8	10.5	-91.75	-9.4	-308.3	309.1	295.1	14.04	22.019	
3,000.0	3,000.0	2,978.9	2,978.0	4.9	10.8	-92.14	-11.8	-314.8	315.7	301.3	14.40	21.921	
3,100.0	3,100.0	3,078.6	3,077.6	5.0	11.1	-92.53	-14.2	-321.3	322.4	307.6	14.77	21.825	
3,200.0	3,200.0	3,178.4	3,177.1	5.1	11.5	-92.89	-16.6	-327.9	329.0	313.9	15.14	21.729	
3,300.0	3,300.0	3,278.1	3,276.6	5.2	11.8	-93.24	-18.9	-334.4	335.7	320.2	15.52	21.635	
3,400.0	3,400.0	3,377.9	3,376.1	5.3	12.1	-93.58	-21.3	-341.0	342.4	326.5	15.89	21.542	
3,500.0	3,500.0	3,477.7	3,475.6	5.4	12.5	-93.90	-23.7	-347.5	349.1	332.8	16.27	21.450	
3,600.0	3,600.0	3,577.4	3,575.1	5.5	12.8	-94.22	-26.1	-354.0	355.8	339.1	16.66	21.360	
3,700.0	3,700.0	3,677.2	3,674.6	5.7	13.1	-94.52	-28.5	-360.6	362.5	345.5	17.04	21.272	
3,800.0	3,800.0	3,776.9	3,774.1	5.8	13.5	-94.81	-30.9	-367.1	369.2	351.8	17.43	21.186	
3,900.0	3,900.0	3,876.7	3,873.7	5.9	13.8	-95.09	-33.3	-373.6	376.0	358.2	17.82	21.102	
4,000.0	4,000.0	3,976.4	3,973.2	6.0	14.2	-95.36	-35.7	-380.2	382.7	364.5	18.21	21.019	
4,100.0	4,100.0	4,076.2	4,072.7	6.1	14.5	-95.62	-38.0	-386.7	389.5	370.9	18.60	20.938	
4,200.0	4,200.0	4,176.0	4,172.2	6.2	14.8	-95.87	-40.4	-393.2	396.2	377.2	19.00	20.859	
4,300.0	4,300.0	4,275.7	4,271.7	6.3	15.2	-96.11	-42.8	-399.8	403.0	383.6	19.39	20.782	
4,400.0	4,400.0	4,375.5	4,371.2	6.5	15.5	-96.35	-45.2	-406.3	409.8	390.0	19.79	20.706	
4,500.0	4,500.0	4,475.2	4,470.7	6.6	15.9	-96.57	-47.6	-412.9	416.6	396.4	20.19	20.633	
4,600.0	4,600.0	4,575.0	4,570.3	6.7	16.2	-96.79	-50.0	-419.4	423.3	402.7	20.59	20.561	
4,700.0	4,700.0	4,674.7	4,669.8	6.8	16.6	-97.01	-52.4	-425.9	430.1	409.1	20.99	20.490	
4,800.0	4,800.0	4,774.5	4,769.3	6.9	16.9	-97.21	-54.7	-432.5	436.9	415.5	21.40	20.422	
4,900.0	4,900.0	4,874.3	4,868.8	7.0	17.3	-97.41	-57.1	-439.0	443.7	421.9	21.80	20.355	
5,000.0	5,000.0	4,974.0	4,968.3	7.2	17.6	-97.61	-59.5	-445.5	450.5	428.3	22.21	20.289	

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 703H
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 703H	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	5,073.8	5,067.8	7.3	18.0	-97.80	-61.9	-452.1	457.4	434.7	22.61	20.225	19.984 SF		
5,200.0	5,200.0	5,173.5	5,167.3	7.4	18.3	-97.98	-64.3	-458.6	464.2	441.2	23.02	20.163			
5,300.0	5,300.0	5,273.3	5,266.8	7.5	18.7	-98.16	-66.7	-465.2	471.0	447.6	23.43	20.102			
5,400.0	5,400.0	5,373.0	5,366.4	7.6	19.0	-98.33	-69.1	-471.7	477.8	454.0	23.84	20.043			
5,500.0	5,500.0	5,472.8	5,465.9	7.8	19.4	-98.50	-71.5	-478.2	484.7	460.4	24.25	19.984 SF			
5,600.0	5,600.0	5,572.4	5,565.3	7.8	19.7	152.19	-73.8	-484.8	493.0	468.4	24.67	19.986			
5,700.0	5,699.8	5,671.8	5,664.4	7.8	20.1	152.20	-76.2	-491.3	504.5	479.4	25.09	20.106			
5,740.7	5,740.4	5,712.0	5,704.5	7.8	20.2	152.25	-77.2	-493.9	510.0	484.8	25.26	20.189			
5,800.0	5,799.5	5,770.8	5,763.1	7.9	20.4	152.42	-78.6	-497.7	518.5	493.0	25.51	20.323			
5,900.0	5,899.2	5,869.7	5,861.8	7.9	20.8	152.68	-80.9	-504.2	532.7	506.8	25.93	20.542			
6,000.0	5,998.8	5,968.7	5,960.5	7.9	21.1	152.93	-83.3	-510.7	547.0	520.6	26.36	20.753			
6,100.0	6,098.4	6,067.6	6,059.2	7.9	21.5	153.17	-85.7	-517.2	561.2	534.5	26.78	20.957			
6,200.0	6,198.1	6,166.6	6,158.0	7.9	21.8	153.40	-88.1	-523.7	575.5	548.3	27.21	21.153			
6,300.0	6,297.7	6,265.5	6,256.7	7.9	22.2	153.61	-90.4	-530.2	589.8	562.2	27.63	21.342			
6,400.0	6,397.4	6,364.5	6,355.4	8.0	22.5	153.82	-92.8	-536.7	604.1	576.0	28.06	21.525			
6,500.0	6,497.0	6,463.4	6,454.1	8.0	22.9	154.01	-95.2	-543.1	618.4	589.9	28.50	21.700			
6,600.0	6,596.7	6,562.4	6,552.8	8.0	23.2	154.20	-97.5	-549.6	632.7	603.8	28.93	21.870			
6,700.0	6,696.3	6,661.3	6,651.5	8.1	23.6	154.38	-99.9	-556.1	647.0	617.6	29.36	22.033			
6,800.0	6,796.0	6,760.3	6,750.2	8.1	23.9	154.55	-102.3	-562.6	661.3	631.5	29.80	22.191			
6,900.0	6,895.6	6,859.2	6,848.9	8.1	24.3	154.71	-104.6	-569.1	675.6	645.4	30.24	22.344			
7,000.0	6,995.3	6,958.2	6,947.6	8.2	24.6	154.87	-107.0	-575.6	690.0	659.3	30.68	22.491			
7,100.0	7,094.9	7,057.1	7,046.3	8.2	25.0	155.02	-109.4	-582.0	704.3	673.2	31.12	22.633			
7,200.0	7,194.6	7,156.1	7,145.1	8.2	25.3	155.16	-111.7	-588.5	718.6	687.1	31.56	22.770			
7,300.0	7,294.2	7,255.0	7,243.8	8.3	25.7	155.30	-114.1	-595.0	733.0	701.0	32.00	22.903			
7,400.0	7,393.9	7,354.0	7,342.5	8.3	26.1	155.43	-116.5	-601.5	747.3	714.9	32.45	23.031			
7,500.0	7,493.5	7,452.9	7,441.2	8.4	26.4	155.56	-118.8	-608.0	761.7	728.8	32.89	23.155			
7,600.0	7,593.2	7,551.9	7,539.9	8.4	26.8	155.69	-121.2	-614.5	776.0	742.7	33.34	23.275			
7,700.0	7,692.8	7,650.8	7,638.6	8.5	27.1	155.81	-123.6	-620.9	790.4	756.6	33.79	23.391			
7,800.0	7,792.5	7,749.8	7,737.3	8.5	27.5	155.92	-125.9	-627.4	804.7	770.5	34.24	23.503			
7,900.0	7,892.1	7,855.6	7,842.9	8.6	27.8	156.04	-128.4	-634.2	818.9	784.2	34.70	23.597			
8,000.0	7,991.7	7,970.8	7,958.0	8.7	28.3	156.21	-130.4	-639.7	831.5	796.3	35.18	23.632			
8,100.0	8,091.4	8,086.5	8,073.6	8.7	28.7	156.41	-131.6	-643.0	842.1	806.5	35.66	23.614			
8,200.0	8,191.0	8,202.6	8,189.6	8.8	29.1	156.65	-132.0	-644.2	850.8	814.7	36.13	23.550			
8,300.0	8,290.7	8,302.6	8,289.7	8.8	29.4	156.87	-132.0	-644.2	858.6	822.0	36.56	23.481			
8,400.0	8,390.3	8,402.3	8,389.3	8.9	29.8	157.09	-132.0	-644.2	866.3	829.3	37.00	23.414			
8,500.0	8,490.0	8,501.9	8,489.0	9.0	30.1	157.31	-132.0	-644.2	874.0	836.6	37.44	23.348			
8,600.0	8,589.6	8,601.6	8,588.6	9.0	30.4	157.52	-132.0	-644.2	881.8	843.9	37.87	23.283			
8,700.0	8,689.3	8,701.2	8,688.3	9.1	30.8	157.72	-132.0	-644.2	889.5	851.2	38.31	23.219			
8,800.0	8,788.9	8,800.9	8,787.9	9.2	31.1	157.92	-132.0	-644.2	897.3	858.6	38.75	23.156			
8,900.0	8,888.6	8,900.5	8,887.6	9.3	31.5	158.12	-132.0	-644.2	905.1	865.9	39.19	23.094			
9,000.0	8,988.2	9,000.1	8,987.2	9.3	31.8	158.32	-132.0	-644.2	912.9	873.3	39.63	23.034			
9,100.0	9,087.9	9,099.8	9,086.9	9.4	32.2	158.51	-132.0	-644.2	920.7	880.6	40.08	22.974			
9,200.0	9,187.5	9,199.4	9,186.5	9.5	32.5	158.70	-132.0	-644.2	928.5	888.0	40.52	22.916			
9,300.0	9,287.2	9,299.1	9,286.2	9.6	32.9	158.89	-132.0	-644.2	936.3	895.4	40.96	22.858			
9,400.0	9,386.8	9,398.7	9,385.8	9.7	33.2	159.07	-132.0	-644.2	944.2	902.8	41.41	22.802			
9,500.0	9,486.5	9,498.4	9,485.5	9.7	33.5	159.25	-132.0	-644.2	952.0	910.2	41.85	22.746			
9,600.0	9,586.1	9,598.0	9,585.1	9.8	33.9	159.43	-132.0	-644.2	959.9	917.6	42.30	22.691			
9,700.0	9,685.8	9,697.7	9,684.8	9.9	34.2	159.60	-132.0	-644.2	967.7	925.0	42.75	22.638			
9,800.0	9,785.4	9,797.3	9,784.4	10.0	34.6	159.78	-132.0	-644.2	975.6	932.4	43.20	22.585			
9,900.0	9,885.0	9,897.0	9,884.0	10.1	34.9	159.95	-132.0	-644.2	983.5	939.8	43.65	22.533			
10,000.0	9,984.7	9,996.6	9,983.7	10.2	35.3	160.11	-132.0	-644.2	991.4	947.3	44.10	22.482			

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 703H
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 703H	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	
10,100.0	10,084.3	10,096.3	10,083.3	10.3	35.6	160.28	-132.0	-644.2	999.3	954.7	44.55	22.431	

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 703H
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 703H	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
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)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-90.54	-90.54	-2.4	-260.0	260.0				
100.0	100.0	99.0	99.0	3.0	3.0	-90.54	-90.54	-2.4	-260.0	260.0	254.0	6.00	43.334	
200.0	200.0	199.0	199.0	3.0	3.0	-90.54	-90.54	-2.4	-260.0	260.0	254.0	6.00	43.313	
300.0	300.0	299.0	299.0	3.0	3.0	-90.54	-90.54	-2.4	-260.0	260.0	254.0	6.01	43.270	
400.0	400.0	399.0	399.0	3.0	3.0	-90.54	-90.54	-2.4	-260.0	260.0	254.0	6.02	43.203	
500.0	500.0	499.0	499.0	3.1	3.1	-90.54	-90.54	-2.4	-260.0	260.0	254.0	6.03	43.113	
600.0	600.0	599.0	599.0	3.1	3.1	-90.54	-90.54	-2.4	-260.0	260.0	254.0	6.05	43.001	
700.0	700.0	699.0	699.0	3.1	3.1	-90.54	-90.54	-2.4	-260.0	260.0	253.9	6.07	42.867	
800.0	800.0	799.0	799.0	3.2	3.2	-90.54	-90.54	-2.4	-260.0	260.0	253.9	6.09	42.712	
900.0	900.0	899.0	899.0	3.2	3.2	-90.54	-90.54	-2.4	-260.0	260.0	253.9	6.11	42.537	
1,000.0	1,000.0	999.0	999.0	3.2	3.2	-90.54	-90.54	-2.4	-260.0	260.0	253.9	6.14	42.341	
1,100.0	1,100.0	1,099.0	1,099.0	3.3	3.3	-90.54	-90.54	-2.4	-260.0	260.0	253.8	6.17	42.127	
1,200.0	1,200.0	1,199.0	1,199.0	3.4	3.4	-90.54	-90.54	-2.4	-260.0	260.0	253.8	6.21	41.894	
1,300.0	1,300.0	1,299.0	1,299.0	3.4	3.4	-90.54	-90.54	-2.4	-260.0	260.0	253.8	6.24	41.645	
1,400.0	1,400.0	1,399.0	1,399.0	3.5	3.5	-90.54	-90.54	-2.4	-260.0	260.0	253.7	6.28	41.380	
1,500.0	1,500.0	1,499.0	1,499.0	3.5	3.5	-90.54	-90.54	-2.4	-260.0	260.0	253.7	6.33	41.099	
1,600.0	1,600.0	1,599.0	1,599.0	3.6	3.6	-90.54	-90.54	-2.4	-260.0	260.0	253.6	6.37	40.805	
1,700.0	1,700.0	1,699.0	1,699.0	3.7	3.7	-90.54	-90.54	-2.4	-260.0	260.0	253.6	6.42	40.497	
1,800.0	1,800.0	1,799.0	1,799.0	3.8	3.8	-90.54	-90.54	-2.4	-260.0	260.0	253.5	6.47	40.178	
1,900.0	1,900.0	1,899.0	1,899.0	3.9	3.9	-90.54	-90.54	-2.4	-260.0	260.0	253.5	6.53	39.848	
2,000.0	2,000.0	1,999.0	1,999.0	3.9	3.9	-90.54	-90.54	-2.4	-260.0	260.0	253.4	6.58	39.508	
2,100.0	2,100.0	2,099.0	2,099.0	4.0	4.0	-90.54	-90.54	-2.4	-260.0	260.0	253.4	6.64	39.159	
2,200.0	2,200.0	2,199.0	2,199.0	4.1	4.1	-90.54	-90.54	-2.4	-260.0	260.0	253.3	6.70	38.803	
2,300.0	2,300.0	2,299.0	2,299.0	4.2	4.2	-90.54	-90.54	-2.4	-260.0	260.0	253.2	6.76	38.440	
2,400.0	2,400.0	2,399.0	2,399.0	4.3	4.3	-90.54	-90.54	-2.4	-260.0	260.0	253.2	6.83	38.070	
2,500.0	2,500.0	2,499.0	2,499.0	4.4	4.4	-90.54	-90.54	-2.4	-260.0	260.0	253.1	6.90	37.696	
2,600.0	2,600.0	2,608.1	2,608.1	4.5	4.4	-90.70	-90.70	-3.2	-258.1	258.3	251.3	6.97	37.050	
2,700.0	2,700.0	2,712.1	2,711.9	4.6	4.5	-91.15	-91.15	-5.1	-253.1	253.5	246.5	7.05	35.963	
2,800.0	2,800.0	2,812.0	2,811.6	4.7	4.5	-91.62	-91.62	-7.0	-248.0	248.4	241.3	7.13	34.823	
2,900.0	2,900.0	2,911.8	2,911.3	4.8	4.5	-92.12	-92.12	-9.0	-242.9	243.4	236.1	7.22	33.683	
3,000.0	3,000.0	3,011.7	3,011.0	4.9	4.5	-92.64	-92.64	-11.0	-237.7	238.3	231.0	7.32	32.547	
3,100.0	3,100.0	3,111.5	3,110.7	5.0	4.5	-93.19	-93.19	-12.9	-232.6	233.3	225.8	7.42	31.418	
3,200.0	3,200.0	3,211.3	3,210.4	5.1	4.5	-93.75	-93.75	-14.9	-227.5	228.2	220.7	7.53	30.299	
3,300.0	3,300.0	3,311.2	3,310.1	5.2	4.6	-94.35	-94.35	-16.9	-222.3	223.2	215.6	7.65	29.193	
3,400.0	3,400.0	3,411.0	3,409.8	5.3	4.6	-94.97	-94.97	-18.9	-217.2	218.3	210.5	7.77	28.103	
3,500.0	3,500.0	3,510.9	3,509.5	5.4	4.6	-95.61	-95.61	-20.8	-212.0	213.3	205.4	7.89	27.030	
3,600.0	3,600.0	3,610.7	3,609.2	5.5	4.7	-96.29	-96.29	-22.8	-206.9	208.4	200.4	8.02	25.977	
3,700.0	3,700.0	3,710.6	3,708.9	5.7	4.7	-97.00	-97.00	-24.8	-201.8	203.5	195.4	8.16	24.945	
3,800.0	3,800.0	3,810.4	3,808.6	5.8	4.8	-97.75	-97.75	-26.8	-196.6	198.7	190.4	8.30	23.936	
3,900.0	3,900.0	3,910.3	3,908.3	5.9	4.8	-98.53	-98.53	-28.7	-191.5	193.9	185.4	8.45	22.950	
4,000.0	4,000.0	4,010.1	4,008.0	6.0	4.9	-99.36	-99.36	-30.7	-186.3	189.1	180.5	8.60	21.989	
4,100.0	4,100.0	4,110.0	4,107.7	6.1	4.9	-100.22	-100.22	-32.7	-181.2	184.3	175.6	8.76	21.053	
4,200.0	4,200.0	4,209.8	4,207.4	6.2	5.0	-101.13	-101.13	-34.6	-176.1	179.6	170.7	8.92	20.142	
4,300.0	4,300.0	4,309.7	4,307.1	6.3	5.1	-102.09	-102.09	-36.6	-170.9	175.0	165.9	9.09	19.257	
4,400.0	4,400.0	4,409.5	4,406.8	6.5	5.1	-103.10	-103.10	-38.6	-165.8	170.4	161.1	9.26	18.399	
4,500.0	4,500.0	4,509.4	4,506.5	6.6	5.2	-104.17	-104.17	-40.6	-160.7	165.9	156.4	9.44	17.567	
4,600.0	4,600.0	4,609.2	4,606.2	6.7	5.3	-105.30	-105.30	-42.5	-155.5	161.4	151.8	9.63	16.761	
4,700.0	4,700.0	4,709.1	4,705.9	6.8	5.3	-106.49	-106.49	-44.5	-150.4	157.0	147.2	9.82	15.983	
4,800.0	4,800.0	4,808.9	4,805.6	6.9	5.4	-107.75	-107.75	-46.5	-145.2	152.6	142.6	10.02	15.231	
4,900.0	4,900.0	4,908.8	4,905.3	7.0	5.5	-109.08	-109.08	-48.5	-140.1	148.4	138.1	10.23	14.507	
5,000.0	5,000.0	5,008.6	5,005.0	7.2	5.6	-110.49	-110.49	-50.4	-135.0	144.2	133.8	10.44	13.809	

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 703H
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 703H	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	5,108.5	5,104.7	7.3	5.6	-111.98	-52.4	-129.8	140.1	129.5	10.66	13.139		
5,200.0	5,200.0	5,208.3	5,204.4	7.4	5.7	-113.56	-54.4	-124.7	136.1	125.2	10.89	12.496		
5,300.0	5,300.0	5,308.2	5,304.0	7.5	5.8	-115.24	-56.3	-119.5	132.3	121.1	11.13	11.881		
5,400.0	5,400.0	5,408.0	5,403.7	7.6	5.9	-117.01	-58.3	-114.4	128.5	117.1	11.38	11.294		
5,500.0	5,500.0	5,507.9	5,503.4	7.8	6.0	-118.89	-60.3	-109.3	124.9	113.2	11.63	10.736		
5,600.0	5,600.0	5,607.8	5,603.2	7.8	6.1	130.62	-62.3	-104.1	122.5	110.7	11.87	10.325		
5,652.0	5,651.9	5,659.8	5,655.1	7.8	6.1	130.39	-63.3	-101.5	122.2	110.3	11.97	10.215 CC, ES		
5,700.0	5,699.8	5,707.8	5,703.1	7.8	6.1	130.47	-64.2	-99.0	122.5	110.4	12.05	10.167 SF		
5,740.7	5,740.4	5,748.4	5,743.6	7.8	6.2	130.75	-65.0	-96.9	123.1	111.0	12.10	10.171		
5,800.0	5,799.5	5,807.7	5,802.9	7.9	6.2	131.32	-66.2	-93.8	124.3	112.1	12.18	10.206		
5,900.0	5,899.2	5,907.7	5,902.7	7.9	6.3	132.25	-68.2	-88.7	126.4	114.1	12.31	10.264		
6,000.0	5,998.8	6,007.7	6,002.5	7.9	6.4	133.15	-70.2	-83.5	128.5	116.0	12.45	10.319		
6,100.0	6,098.4	6,107.6	6,102.3	7.9	6.5	134.02	-72.1	-78.4	130.6	118.0	12.59	10.372		
6,200.0	6,198.1	6,207.6	6,202.1	7.9	6.6	134.86	-74.1	-73.3	132.7	120.0	12.73	10.423		
6,300.0	6,297.7	6,307.5	6,301.9	7.9	6.7	135.68	-76.1	-68.1	134.9	122.0	12.88	10.471		
6,400.0	6,397.4	6,407.5	6,401.7	8.0	6.8	136.47	-78.1	-63.0	137.1	124.1	13.03	10.519		
6,500.0	6,497.0	6,507.4	6,501.5	8.0	6.9	137.23	-80.0	-57.8	139.3	126.1	13.19	10.564		
6,600.0	6,596.7	6,607.4	6,601.3	8.0	7.0	137.98	-82.0	-52.7	141.6	128.2	13.35	10.607		
6,700.0	6,696.3	6,707.4	6,701.1	8.1	7.1	138.69	-84.0	-47.5	143.9	130.4	13.51	10.649		
6,800.0	6,796.0	6,807.3	6,800.9	8.1	7.2	139.39	-86.0	-42.4	146.2	132.5	13.67	10.689		
6,900.0	6,895.6	6,907.3	6,900.7	8.1	7.3	140.06	-87.9	-37.3	148.5	134.6	13.84	10.728		
7,000.0	6,995.3	7,007.2	7,000.5	8.2	7.4	140.72	-89.9	-32.1	150.8	136.8	14.01	10.765		
7,100.0	7,094.9	7,107.2	7,100.3	8.2	7.5	141.35	-91.9	-27.0	153.2	139.0	14.18	10.801		
7,200.0	7,194.6	7,207.1	7,200.2	8.2	7.6	141.96	-93.9	-21.8	155.5	141.2	14.36	10.835		
7,300.0	7,294.2	7,307.1	7,300.0	8.3	7.7	142.56	-95.8	-16.7	157.9	143.4	14.53	10.868		
7,400.0	7,393.9	7,407.1	7,399.8	8.3	7.8	143.13	-97.8	-11.5	160.3	145.6	14.71	10.899		
7,500.0	7,493.5	7,507.0	7,499.6	8.4	7.9	143.69	-99.8	-6.4	162.8	147.9	14.89	10.930		
7,600.0	7,593.2	7,607.0	7,599.4	8.4	8.1	144.24	-101.8	-1.2	165.2	150.1	15.08	10.959		
7,700.0	7,692.8	7,706.9	7,699.2	8.5	8.2	144.77	-103.7	3.9	167.7	152.4	15.26	10.987		
7,800.0	7,792.5	7,806.9	7,799.0	8.5	8.3	145.28	-105.7	9.0	170.1	154.7	15.45	11.014		
7,900.0	7,892.1	7,906.9	7,898.8	8.6	8.4	145.78	-107.7	14.2	172.6	157.0	15.64	11.039		
8,000.0	7,991.7	8,006.8	7,998.6	8.7	8.5	146.26	-109.7	19.3	175.1	159.3	15.83	11.064		
8,100.0	8,091.4	8,106.8	8,098.4	8.7	8.6	146.73	-111.6	24.5	177.6	161.6	16.02	11.088		
8,200.0	8,191.0	8,206.7	8,198.2	8.8	8.7	147.19	-113.6	29.6	180.1	163.9	16.21	11.110		
8,300.0	8,290.7	8,306.7	8,298.0	8.8	8.8	147.63	-115.6	34.8	182.7	166.3	16.41	11.132		
8,400.0	8,390.3	8,406.6	8,397.8	8.9	8.9	148.06	-117.6	39.9	185.2	168.6	16.61	11.153		
8,500.0	8,490.0	8,506.6	8,497.6	9.0	9.1	148.48	-119.5	45.1	187.8	170.9	16.80	11.173		
8,600.0	8,589.6	8,606.6	8,597.4	9.0	9.2	148.89	-121.5	50.2	190.3	173.3	17.00	11.192		
8,700.0	8,689.3	8,706.5	8,697.2	9.1	9.3	149.29	-123.5	55.3	192.9	175.7	17.20	11.211		
8,800.0	8,788.9	8,806.5	8,797.1	9.2	9.4	149.68	-125.5	60.5	195.5	178.1	17.41	11.228		
8,900.0	8,888.6	8,906.4	8,896.9	9.3	9.5	150.06	-127.4	65.6	198.0	180.4	17.61	11.245		
9,000.0	8,988.2	9,006.4	8,996.7	9.3	9.6	150.42	-129.4	70.8	200.6	182.8	17.82	11.262		
9,100.0	9,087.9	9,106.4	9,096.5	9.4	9.7	150.78	-131.4	75.9	203.2	185.2	18.02	11.277		
9,200.0	9,187.5	9,206.3	9,196.3	9.5	9.9	151.13	-133.4	81.1	205.9	187.6	18.23	11.292		
9,300.0	9,287.2	9,306.3	9,296.1	9.6	10.0	151.47	-135.3	86.2	208.5	190.0	18.44	11.306		
9,400.0	9,386.8	9,406.2	9,395.9	9.7	10.1	151.81	-137.3	91.4	211.1	192.4	18.65	11.320		
9,500.0	9,486.5	9,506.2	9,495.7	9.7	10.2	152.13	-139.3	96.5	213.7	194.9	18.86	11.333		
9,600.0	9,586.1	9,606.1	9,595.5	9.8	10.3	152.45	-141.3	101.6	216.4	197.3	19.07	11.345		
9,700.0	9,685.8	9,706.1	9,695.3	9.9	10.4	152.75	-143.2	106.8	219.0	199.7	19.28	11.357		
9,800.0	9,785.4	9,806.1	9,795.1	10.0	10.6	153.06	-145.2	111.9	221.7	202.2	19.50	11.369		
9,900.0	9,885.0	9,906.0	9,894.9	10.1	10.7	153.35	-147.2	117.1	224.3	204.6	19.71	11.380		

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 703H
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 703H	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 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
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	
10,000.0	9,984.7	10,006.0	9,994.7	10.2	10.8	153.64	-149.1	122.2	227.0	207.1	19.93	11.392		
10,100.0	10,084.3	10,106.9	10,095.5	10.3	10.9	154.01	-150.8	127.4	229.6	209.5	20.07	11.440		
10,200.0	10,184.0	10,209.5	10,197.3	10.4	10.9	157.43	-140.0	132.6	231.3	211.2	20.06	11.528		
10,300.0	10,283.6	10,304.6	10,288.5	10.4	10.9	164.46	-114.0	137.1	234.3	214.5	19.87	11.794		
10,400.0	10,383.3	10,388.4	10,364.4	10.5	10.9	173.29	-78.8	140.8	244.5	224.5	19.97	12.240		
10,500.0	10,482.9	10,459.9	10,424.5	10.6	11.0	-177.96	-40.3	143.7	266.9	245.6	21.34	12.507		
10,600.0	10,582.6	10,519.8	10,470.9	10.7	11.0	-170.39	-2.5	145.8	303.9	279.8	24.05	12.635		
10,700.0	10,682.2	10,569.8	10,506.3	10.8	11.1	-164.30	32.6	147.5	354.2	327.0	27.20	13.021		
10,800.0	10,781.9	10,611.4	10,533.5	10.9	11.1	-159.54	64.2	148.7	415.4	385.3	30.12	13.794		
10,900.0	10,881.5	10,650.0	10,556.5	11.0	11.2	-155.47	95.1	149.7	484.8	452.4	32.43	14.950		
11,000.0	10,981.2	10,675.9	10,570.8	11.1	11.2	-152.92	116.7	150.3	560.3	525.8	34.58	16.204		
11,100.0	11,080.8	10,700.0	10,583.2	11.2	11.3	-150.71	137.4	150.8	640.4	604.1	36.26	17.659		
11,200.0	11,180.5	10,722.7	10,594.1	11.3	11.3	-148.74	157.3	151.2	723.9	686.3	37.62	19.243		
11,300.0	11,280.1	10,750.0	10,606.1	11.4	11.3	-146.54	181.8	151.7	810.2	771.5	38.64	20.969		
11,400.0	11,379.8	10,750.0	10,606.1	11.5	11.3	-146.54	181.8	151.7	898.4	858.4	39.93	22.497		
11,500.0	11,479.4	10,772.1	10,615.0	11.6	11.4	-144.87	202.0	152.0	988.2	947.5	40.72	24.269		

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 703H
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 703H	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	-90.53	-0.6	-60.0	60.0				
100.0	100.0	100.0	100.0	3.0	3.0	-90.53	-0.6	-60.0	60.0	54.0	6.00	9.998	
200.0	200.0	200.0	200.0	3.0	3.0	-90.53	-0.6	-60.0	60.0	54.0	6.00	9.994	
300.0	300.0	300.0	300.0	3.0	3.0	-90.53	-0.6	-60.0	60.0	54.0	6.01	9.984	
400.0	400.0	400.0	400.0	3.0	3.0	-90.53	-0.6	-60.0	60.0	54.0	6.02	9.968	
500.0	500.0	500.0	500.0	3.1	3.1	-90.53	-0.6	-60.0	60.0	54.0	6.03	9.947	
600.0	600.0	600.0	600.0	3.1	3.1	-90.53	-0.6	-60.0	60.0	53.9	6.05	9.922	
700.0	700.0	700.0	700.0	3.1	3.1	-90.53	-0.6	-60.0	60.0	53.9	6.07	9.891	
800.0	800.0	800.0	800.0	3.2	3.2	-90.53	-0.6	-60.0	60.0	53.9	6.09	9.855	
900.0	900.0	900.0	900.0	3.2	3.2	-90.53	-0.6	-60.0	60.0	53.9	6.11	9.814	
1,000.0	1,000.0	1,000.0	1,000.0	3.2	3.2	-90.53	-0.6	-60.0	60.0	53.9	6.14	9.769	
1,100.0	1,100.0	1,100.0	1,100.0	3.3	3.3	-90.53	-0.6	-60.0	60.0	53.8	6.17	9.720	
1,200.0	1,200.0	1,200.0	1,200.0	3.4	3.4	-90.53	-0.6	-60.0	60.0	53.8	6.21	9.666	
1,300.0	1,300.0	1,300.0	1,300.0	3.4	3.4	-90.53	-0.6	-60.0	60.0	53.7	6.24	9.609	
1,400.0	1,400.0	1,400.0	1,400.0	3.5	3.5	-90.53	-0.6	-60.0	60.0	53.7	6.28	9.547	
1,500.0	1,500.0	1,500.0	1,500.0	3.5	3.5	-90.53	-0.6	-60.0	60.0	53.7	6.33	9.483	
1,600.0	1,600.0	1,600.0	1,600.0	3.6	3.6	-90.53	-0.6	-60.0	60.0	53.6	6.37	9.415	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	3.7	-90.53	-0.6	-60.0	60.0	53.6	6.42	9.344	
1,800.0	1,800.0	1,800.0	1,800.0	3.8	3.8	-90.53	-0.6	-60.0	60.0	53.5	6.47	9.270	
1,900.0	1,900.0	1,900.0	1,900.0	3.9	3.9	-90.53	-0.6	-60.0	60.0	53.5	6.53	9.194	
2,000.0	2,000.0	2,000.0	2,000.0	3.9	3.9	-90.53	-0.6	-60.0	60.0	53.4	6.58	9.115	
2,100.0	2,100.0	2,100.0	2,100.0	4.0	4.0	-90.53	-0.6	-60.0	60.0	53.4	6.64	9.035	
2,200.0	2,200.0	2,200.0	2,200.0	4.1	4.1	-90.53	-0.6	-60.0	60.0	53.3	6.70	8.953	
2,300.0	2,300.0	2,300.0	2,300.0	4.2	4.2	-90.53	-0.6	-60.0	60.0	53.2	6.76	8.869	
2,400.0	2,400.0	2,400.0	2,400.0	4.3	4.3	-90.53	-0.6	-60.0	60.0	53.2	6.83	8.784	
2,500.0	2,500.0	2,500.0	2,500.0	4.4	4.4	-90.53	-0.6	-60.0	60.0	53.1	6.90	8.697 CC, ES, SF	
2,600.0	2,600.0	2,597.9	2,597.9	4.5	4.5	-90.52	-0.6	-61.7	61.7	54.7	6.97	8.857	
2,700.0	2,700.0	2,695.6	2,695.4	4.6	4.5	-90.48	-0.6	-66.7	66.8	59.8	7.04	9.495	
2,800.0	2,800.0	2,793.9	2,793.5	4.7	4.5	-90.43	-0.6	-74.7	75.0	67.9	7.12	10.542	
2,900.0	2,900.0	2,893.6	2,892.7	4.8	4.6	-90.38	-0.6	-83.4	83.7	76.5	7.20	11.627	
3,000.0	3,000.0	2,993.2	2,991.9	4.9	4.6	-90.35	-0.6	-92.1	92.4	85.1	7.29	12.679	
3,100.0	3,100.0	3,092.8	3,091.2	5.0	4.6	-90.32	-0.6	-100.8	101.2	93.8	7.39	13.696	
3,200.0	3,200.0	3,192.4	3,190.4	5.1	4.7	-90.29	-0.6	-109.5	109.9	102.4	7.49	14.678	
3,300.0	3,300.0	3,292.0	3,289.7	5.2	4.7	-90.27	-0.6	-118.1	118.6	111.0	7.59	15.626	
3,400.0	3,400.0	3,391.7	3,388.9	5.3	4.8	-90.25	-0.6	-126.8	127.3	119.6	7.70	16.539	
3,500.0	3,500.0	3,491.3	3,488.1	5.4	4.9	-90.24	-0.6	-135.5	136.0	128.2	7.81	17.419	
3,600.0	3,600.0	3,590.9	3,587.4	5.5	4.9	-90.22	-0.6	-144.2	144.7	136.8	7.92	18.264	
3,700.0	3,700.0	3,690.5	3,686.6	5.7	5.0	-90.21	-0.6	-152.9	153.4	145.4	8.04	19.077	
3,800.0	3,800.0	3,790.1	3,785.9	5.8	5.0	-90.20	-0.6	-161.5	162.2	154.0	8.17	19.859	
3,900.0	3,900.0	3,889.8	3,885.1	5.9	5.1	-90.19	-0.6	-170.2	170.9	162.6	8.29	20.609	
4,000.0	4,000.0	3,889.4	3,984.3	6.0	5.2	-90.18	-0.6	-178.9	179.6	171.2	8.42	21.328	
4,100.0	4,100.0	4,089.0	4,083.6	6.1	5.3	-90.17	-0.6	-187.6	188.3	179.8	8.55	22.019	
4,200.0	4,200.0	4,188.6	4,182.8	6.2	5.3	-90.16	-0.6	-196.3	197.0	188.3	8.69	22.681	
4,300.0	4,300.0	4,288.2	4,282.1	6.3	5.4	-90.16	-0.6	-205.0	205.7	196.9	8.82	23.317	
4,400.0	4,400.0	4,387.9	4,381.3	6.5	5.5	-90.15	-0.6	-213.6	214.5	205.5	8.96	23.926	
4,500.0	4,500.0	4,487.5	4,480.5	6.6	5.6	-90.14	-0.6	-222.3	223.2	214.1	9.11	24.510	
4,600.0	4,600.0	4,587.1	4,579.8	6.7	5.7	-90.14	-0.6	-231.0	231.9	222.6	9.25	25.070	
4,700.0	4,700.0	4,686.7	4,679.0	6.8	5.7	-90.13	-0.6	-239.7	240.6	231.2	9.40	25.607	
4,800.0	4,800.0	4,786.3	4,778.3	6.9	5.8	-90.13	-0.6	-248.4	249.3	239.8	9.54	26.122	
4,900.0	4,900.0	4,886.0	4,877.5	7.0	5.9	-90.12	-0.6	-257.1	258.0	248.3	9.69	26.616	
5,000.0	5,000.0	4,985.6	4,976.8	7.2	6.0	-90.12	-0.6	-265.7	266.8	256.9	9.85	27.090	

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 703H
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 703H	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 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	5,085.2	5,076.0	7.3	6.1	-90.12	-0.6	-274.4	275.5	265.5	10.00	27.545		
5,200.0	5,200.0	5,184.8	5,175.2	7.4	6.2	-90.11	-0.6	-283.1	284.2	274.0	10.16	27.981		
5,300.0	5,300.0	5,284.4	5,274.5	7.5	6.3	-90.11	-0.6	-291.8	292.9	282.6	10.31	28.399		
5,400.0	5,400.0	5,384.1	5,373.7	7.6	6.4	-90.11	-0.6	-300.5	301.6	291.1	10.47	28.801		
5,500.0	5,500.0	5,483.7	5,473.0	7.8	6.5	-90.10	-0.6	-309.1	310.3	299.7	10.63	29.187		
5,600.0	5,600.0	5,583.1	5,572.0	7.8	6.6	160.77	-0.6	-317.8	320.7	309.9	10.80	29.701		
5,700.0	5,699.8	5,682.2	5,670.7	7.8	6.7	160.98	-0.6	-326.4	334.3	323.3	10.97	30.477		
5,740.7	5,740.4	5,722.3	5,710.7	7.8	6.7	161.10	-0.6	-329.9	340.8	329.8	11.04	30.866		
5,800.0	5,799.5	5,780.8	5,768.9	7.9	6.8	161.36	-0.6	-335.0	350.7	339.5	11.15	31.457		
5,900.0	5,899.2	5,879.4	5,867.2	7.9	6.9	161.76	-0.6	-343.6	367.3	355.9	11.33	32.426		
6,000.0	5,998.8	5,978.0	5,965.4	7.9	7.0	162.13	-0.6	-352.2	383.9	372.4	11.51	33.362		
6,100.0	6,098.4	6,076.5	6,063.6	7.9	7.1	162.47	-0.6	-360.8	400.6	388.9	11.69	34.266		
6,200.0	6,198.1	6,175.1	6,161.8	7.9	7.2	162.78	-0.6	-369.4	417.2	405.4	11.87	35.139		
6,300.0	6,297.7	6,273.7	6,260.0	7.9	7.3	163.06	-0.6	-378.0	433.9	421.8	12.06	35.981		
6,400.0	6,397.4	6,372.3	6,358.2	8.0	7.4	163.33	-0.6	-386.6	450.6	438.3	12.25	36.793		
6,500.0	6,497.0	6,470.8	6,456.4	8.0	7.5	163.58	-0.6	-395.2	467.3	454.9	12.44	37.576		
6,600.0	6,596.7	6,569.4	6,554.6	8.0	7.6	163.81	-0.6	-403.8	484.0	471.4	12.63	38.331		
6,700.0	6,696.3	6,668.0	6,652.8	8.1	7.7	164.02	-0.6	-412.4	500.7	487.9	12.82	39.058		
6,800.0	6,796.0	6,766.6	6,751.0	8.1	7.8	164.22	-0.6	-421.0	517.4	504.4	13.01	39.760		
6,900.0	6,895.6	6,865.1	6,849.2	8.1	7.9	164.41	-0.6	-429.6	534.1	520.9	13.21	40.435		
7,000.0	6,995.3	6,963.7	6,947.4	8.2	8.0	164.58	-0.6	-438.1	550.9	537.5	13.41	41.086		
7,100.0	7,094.9	7,062.3	7,045.6	8.2	8.1	164.75	-0.6	-446.7	567.6	554.0	13.61	41.714		
7,200.0	7,194.6	7,160.9	7,143.8	8.2	8.3	164.91	-0.6	-455.3	584.3	570.5	13.81	42.318		
7,300.0	7,294.2	7,259.5	7,242.0	8.3	8.4	165.05	-0.6	-463.9	601.1	587.1	14.01	42.900		
7,400.0	7,393.9	7,358.0	7,340.2	8.3	8.5	165.19	-0.6	-472.5	617.8	603.6	14.22	43.461		
7,500.0	7,493.5	7,456.6	7,438.4	8.4	8.6	165.33	-0.6	-481.1	634.6	620.1	14.42	44.001		
7,600.0	7,593.2	7,555.2	7,536.6	8.4	8.7	165.45	-0.6	-489.7	651.3	636.7	14.63	44.521		
7,700.0	7,692.8	7,653.8	7,634.8	8.5	8.8	165.57	-0.6	-498.3	668.1	653.2	14.84	45.022		
7,800.0	7,792.5	7,752.3	7,733.0	8.5	8.9	165.69	-0.6	-506.9	684.8	669.8	15.05	45.505		
7,900.0	7,892.1	7,850.9	7,831.2	8.6	9.0	165.79	-0.6	-515.5	701.6	686.3	15.26	45.971		
8,000.0	7,991.7	7,949.5	7,929.4	8.7	9.2	165.90	-0.6	-524.1	718.3	702.9	15.48	46.419		
8,100.0	8,091.4	8,048.1	8,027.6	8.7	9.3	165.99	-0.6	-532.6	735.1	719.4	15.69	46.851		
8,200.0	8,191.0	8,146.7	8,125.8	8.8	9.4	166.09	-0.6	-541.2	751.9	736.0	15.91	47.268		
8,300.0	8,290.7	8,245.2	8,224.0	8.8	9.5	166.18	-0.6	-549.8	768.6	752.5	16.12	47.669		
8,400.0	8,390.3	8,343.8	8,322.2	8.9	9.6	166.26	-0.6	-558.4	785.4	769.1	16.34	48.057		
8,500.0	8,490.0	8,442.4	8,420.4	9.0	9.7	166.35	-0.6	-567.0	802.2	785.6	16.56	48.430		
8,600.0	8,589.6	8,541.0	8,518.6	9.0	9.8	166.43	-0.6	-575.6	818.9	802.2	16.79	48.790		
8,700.0	8,689.3	8,639.5	8,616.8	9.1	10.0	166.50	-0.6	-584.2	835.7	818.7	17.01	49.137		
8,800.0	8,788.9	8,738.1	8,715.0	9.2	10.1	166.57	-0.6	-592.8	852.5	835.3	17.23	49.472		
8,900.0	8,888.6	8,836.7	8,813.2	9.3	10.2	166.64	-0.6	-601.4	869.3	851.8	17.46	49.795		
9,000.0	8,988.2	8,935.3	8,911.4	9.3	10.3	166.71	-0.6	-610.0	886.1	868.4	17.68	50.107		
9,100.0	9,087.9	9,033.9	9,009.6	9.4	10.4	166.78	-0.6	-618.6	902.8	884.9	17.91	50.408		
9,200.0	9,187.5	9,132.4	9,107.8	9.5	10.6	166.84	-0.6	-627.2	919.6	901.5	18.14	50.699		
9,300.0	9,287.2	9,231.0	9,206.0	9.6	10.7	166.90	-0.6	-635.7	936.4	918.0	18.37	50.980		
9,400.0	9,386.8	9,329.6	9,304.2	9.7	10.8	166.96	-0.6	-644.3	953.2	934.6	18.60	51.251		
9,500.0	9,486.5	9,428.2	9,402.4	9.7	10.9	167.01	-0.6	-652.9	970.0	951.1	18.83	51.512		
9,600.0	9,586.1	9,526.7	9,500.6	9.8	11.0	167.07	-0.6	-661.5	986.7	967.7	19.06	51.765		

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 703H
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 703H	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 702H - OWB - PWP											Offset Site Error:		3.0 usft
Survey Program:		0-Standard Keeper 104, 11787-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	0.0	0.0	3.0	3.0	-90.57	-0.3	-30.0	30.0						
100.0	100.0	100.0	100.0	3.0	3.0	-90.57	-0.3	-30.0	30.0	24.0	6.00	5.003			
200.0	200.0	200.0	200.0	3.0	3.0	-90.57	-0.3	-30.0	30.0	24.0	6.00	5.001			
300.0	300.0	300.0	300.0	3.0	3.0	-90.57	-0.3	-30.0	30.0	24.0	6.01	4.996			
400.0	400.0	400.0	400.0	3.0	3.0	-90.57	-0.3	-30.0	30.0	24.0	6.02	4.988			
500.0	500.0	500.0	500.0	3.1	3.1	-90.57	-0.3	-30.0	30.0	24.0	6.03	4.978			
600.0	600.0	600.0	600.0	3.1	3.1	-90.57	-0.3	-30.0	30.0	24.0	6.05	4.965			
700.0	700.0	700.0	700.0	3.1	3.1	-90.57	-0.3	-30.0	30.0	24.0	6.07	4.949			
800.0	800.0	800.0	800.0	3.2	3.2	-90.57	-0.3	-30.0	30.0	23.9	6.09	4.932			
900.0	900.0	900.0	900.0	3.2	3.2	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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 703H
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 703H	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, 11787-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-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	-90.57	-0.3	-30.0	30.0	20.3	9.68	3.102 CC, ES, SF		
5,600.0	5,600.0	5,599.0	5,599.0	7.8	7.8	159.79	-1.2	-31.5	33.2	23.4	9.80	3.386		
5,700.0	5,699.8	5,697.9	5,697.8	7.8	7.8	158.92	-3.6	-35.7	42.4	32.4	9.93	4.268		
5,740.7	5,740.4	5,738.3	5,738.1	7.8	7.8	158.94	-4.8	-37.7	47.3	37.3	9.98	4.740		
5,800.0	5,799.5	5,797.1	5,796.8	7.9	7.8	159.15	-6.4	-40.5	54.8	44.8	10.05	5.459		
5,900.0	5,899.2	5,896.3	5,895.8	7.9	7.8	159.41	-9.2	-45.3	67.6	57.4	10.17	6.645		
6,000.0	5,998.8	5,995.5	5,994.9	7.9	7.8	159.58	-12.0	-50.1	80.3	70.0	10.29	7.800		
6,100.0	6,098.4	6,094.7	6,093.9	7.9	7.8	159.71	-14.8	-54.9	93.0	82.6	10.43	8.922		
6,200.0	6,198.1	6,193.9	6,192.9	7.9	7.8	159.81	-17.6	-59.7	105.8	95.2	10.56	10.013		
6,300.0	6,297.7	6,293.0	6,292.0	7.9	7.8	159.88	-20.4	-64.5	118.5	107.8	10.70	11.072		
6,400.0	6,397.4	6,392.2	6,391.0	8.0	7.8	159.94	-23.2	-69.3	131.2	120.4	10.85	12.099		
6,500.0	6,497.0	6,491.4	6,490.0	8.0	7.8	159.99	-26.0	-74.0	144.0	133.0	10.99	13.095		
6,600.0	6,596.7	6,590.6	6,589.1	8.0	7.9	160.03	-28.8	-78.8	156.7	145.5	11.14	14.060		
6,700.0	6,696.3	6,689.8	6,688.1	8.1	7.9	160.07	-31.6	-83.6	169.4	158.1	11.30	14.995		
6,800.0	6,796.0	6,789.0	6,787.1	8.1	7.9	160.10	-34.4	-88.4	182.2	170.7	11.46	15.901		
6,900.0	6,895.6	6,888.2	6,886.2	8.1	7.9	160.13	-37.2	-93.2	194.9	183.3	11.62	16.777		
7,000.0	6,995.3	6,987.3	6,985.2	8.2	7.9	160.15	-40.0	-98.0	207.6	195.8	11.78	17.626		
7,100.0	7,094.9	7,086.5	7,084.2	8.2	8.0	160.17	-42.8	-102.8	220.4	208.4	11.95	18.446		
7,200.0	7,194.6	7,185.7	7,183.2	8.2	8.0	160.19	-45.6	-107.6	233.1	221.0	12.11	19.240		
7,300.0	7,294.2	7,284.9	7,282.3	8.3	8.0	160.21	-48.3	-112.4	245.8	233.5	12.29	20.007		
7,400.0	7,393.9	7,384.1	7,381.3	8.3	8.0	160.22	-51.1	-117.2	258.6	246.1	12.46	20.750		
7,500.0	7,493.5	7,483.3	7,480.3	8.4	8.1	160.24	-53.9	-122.0	271.3	258.7	12.64	21.467		
7,600.0	7,593.2	7,582.5	7,579.4	8.4	8.1	160.25	-56.7	-126.8	284.0	271.2	12.82	22.161		
7,700.0	7,692.8	7,681.6	7,678.4	8.5	8.1	160.26	-59.5	-131.6	296.8	283.8	13.00	22.832		
7,800.0	7,792.5	7,780.8	7,777.4	8.5	8.2	160.27	-62.3	-136.3	309.5	296.3	13.18	23.480		
7,900.0	7,892.1	7,880.0	7,876.5	8.6	8.2	160.28	-65.1	-141.1	322.2	308.9	13.37	24.107		
8,000.0	7,991.7	7,979.2	7,975.5	8.7	8.3	160.29	-67.9	-145.9	335.0	321.4	13.55	24.713		
8,100.0	8,091.4	8,078.4	8,074.5	8.7	8.3	160.30	-70.7	-150.7	347.7	333.9	13.74	25.298		
8,200.0	8,191.0	8,177.6	8,173.6	8.8	8.4	160.30	-73.5	-155.5	360.4	346.5	13.93	25.865		
8,300.0	8,290.7	8,276.8	8,272.6	8.8	8.4	160.31	-76.3	-160.3	373.2	359.0	14.13	26.412		
8,400.0	8,390.3	8,376.0	8,371.6	8.9	8.5	160.32	-79.1	-165.1	385.9	371.6	14.32	26.942		
8,500.0	8,490.0	8,475.1	8,470.6	9.0	8.5	160.32	-81.9	-169.9	398.6	384.1	14.52	27.454		
8,600.0	8,589.6	8,574.3	8,569.7	9.0	8.6	160.33	-84.7	-174.7	411.4	396.6	14.72	27.949		
8,700.0	8,689.3	8,673.5	8,668.7	9.1	8.6	160.33	-87.5	-179.5	424.1	409.2	14.92	28.429		
8,800.0	8,788.9	8,772.7	8,767.7	9.2	8.7	160.34	-90.3	-184.3	436.8	421.7	15.12	28.892		
8,900.0	8,888.6	8,871.9	8,866.8	9.3	8.7	160.34	-93.1	-189.1	449.6	434.2	15.32	29.341		
9,000.0	8,988.2	8,971.1	8,965.8	9.3	8.8	160.35	-95.9	-193.9	462.3	446.8	15.53	29.775		
9,100.0	9,087.9	9,070.3	9,064.8	9.4	8.9	160.35	-98.7	-198.6	475.0	459.3	15.73	30.195		
9,200.0	9,187.5	9,169.4	9,163.9	9.5	8.9	160.36	-101.5	-203.4	487.8	471.8	15.94	30.602		
9,300.0	9,287.2	9,268.6	9,262.9	9.6	9.0	160.36	-104.3	-208.2	500.5	484.3	16.15	30.996		
9,400.0	9,386.8	9,367.8	9,361.9	9.7	9.1	160.36	-107.1	-213.0	513.2	496.9	16.36	31.377		
9,500.0	9,486.5	9,467.0	9,461.0	9.7	9.1	160.37	-109.8	-217.8	526.0	509.4	16.57	31.747		
9,600.0	9,586.1	9,566.2	9,560.0	9.8	9.2	160.37	-112.6	-222.6	538.7	521.9	16.78	32.105		
9,700.0	9,685.8	9,665.4	9,659.0	9.9	9.3	160.37	-115.4	-227.4	551.4	534.4	16.99	32.451		
9,800.0	9,785.4	9,764.6	9,758.0	10.0	9.3	160.38	-118.2	-232.2	564.2	546.9	17.21	32.787		
9,900.0	9,885.0	9,863.7	9,857.1	10.1	9.4	160.38	-121.0	-237.0	576.9	559.5	17.42	33.113		
10,000.0	9,984.7	9,962.9	9,956.1	10.2	9.5	160.38	-123.8	-241.8	589.6	572.0	17.64	33.429		

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 703H
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 703H	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, 11787-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	10,084.3	10,062.1	10,055.1	10.3	9.6	160.39	-126.6	-246.6	602.4	584.5	17.86	33.735	
10,200.0	10,184.0	10,161.3	10,154.2	10.4	9.7	160.39	-129.4	-251.4	615.1	597.0	18.07	34.032	
10,300.0	10,283.6	10,260.5	10,253.2	10.4	9.7	160.39	-132.2	-256.2	627.8	609.5	18.29	34.321	
10,400.0	10,383.3	10,359.7	10,352.2	10.5	9.8	160.39	-135.0	-260.9	640.6	622.0	18.51	34.600	
10,500.0	10,482.9	10,458.9	10,451.3	10.6	9.9	160.40	-137.8	-265.7	653.3	634.5	18.73	34.872	
10,600.0	10,582.6	10,558.0	10,550.3	10.7	10.0	160.40	-140.6	-270.5	666.0	647.1	18.96	35.135	
10,700.0	10,682.2	10,657.2	10,649.3	10.8	10.1	160.40	-143.4	-275.3	678.7	659.6	19.18	35.391	
10,800.0	10,781.9	10,756.4	10,748.4	10.9	10.1	160.40	-146.2	-280.1	691.5	672.1	19.40	35.639	
10,900.0	10,881.5	10,855.6	10,847.4	11.0	10.2	160.40	-149.0	-284.9	704.2	684.6	19.63	35.880	
11,000.0	10,981.2	10,954.8	10,946.4	11.1	10.3	160.41	-151.8	-289.7	716.9	697.1	19.85	36.114	
11,100.0	11,080.8	11,054.0	11,045.4	11.2	10.4	160.41	-154.6	-294.5	729.7	709.6	20.08	36.341	
11,200.0	11,180.5	11,153.2	11,144.5	11.3	10.5	160.41	-157.4	-299.3	742.4	722.1	20.31	36.562	
11,300.0	11,280.1	11,252.3	11,243.5	11.4	10.6	160.41	-160.2	-304.1	755.1	734.6	20.53	36.777	
11,400.0	11,379.8	11,351.5	11,342.5	11.5	10.7	160.41	-163.0	-308.9	767.9	747.1	20.76	36.986	
11,500.0	11,479.4	11,450.7	11,441.6	11.6	10.8	160.41	-165.8	-313.7	780.6	759.6	20.99	37.189	
11,600.0	11,579.1	11,549.9	11,540.6	11.7	10.9	160.42	-168.6	-318.5	793.3	772.1	21.22	37.386	
11,700.0	11,678.7	11,649.1	11,639.6	11.8	11.0	160.42	-171.3	-323.2	806.1	784.6	21.45	37.578	
11,802.5	11,780.8	11,750.7	11,741.1	11.9	11.0	160.42	-174.2	-328.2	819.1	797.4	21.78	37.615	
11,850.0	11,828.2	11,796.5	11,786.8	11.9	11.1	-144.96	-175.5	-330.4	825.2	803.4	21.82	37.819	
11,900.0	11,877.8	11,838.3	11,828.5	12.0	11.1	-118.44	-174.6	-332.7	831.8	809.9	21.90	37.985	
11,950.0	11,926.7	11,880.1	11,870.1	12.0	11.1	-107.98	-170.7	-335.4	838.9	816.9	21.99	38.154	
12,000.0	11,974.7	11,922.2	11,911.4	12.0	11.1	-102.60	-163.8	-338.5	846.3	824.3	22.08	38.331	
12,050.0	12,021.3	11,964.4	11,952.3	12.0	11.1	-99.29	-153.9	-342.0	854.1	831.9	22.17	38.517	
12,100.0	12,066.3	12,006.9	11,992.5	12.1	11.1	-97.01	-140.9	-345.9	862.1	839.8	22.27	38.718	
12,150.0	12,109.1	12,050.0	12,032.3	12.1	11.1	-95.31	-124.7	-350.2	870.3	848.0	22.35	38.942	
12,200.0	12,149.6	12,092.7	12,070.3	12.1	11.2	-93.98	-105.7	-354.7	878.7	856.3	22.44	39.166	
12,250.0	12,187.4	12,136.2	12,107.4	12.2	11.2	-92.91	-83.6	-359.7	887.2	864.7	22.51	39.412	
12,300.0	12,222.3	12,180.2	12,143.1	12.2	11.2	-92.03	-58.4	-365.0	895.8	873.3	22.58	39.667	
12,350.0	12,253.8	12,224.7	12,177.1	12.3	11.3	-91.30	-30.3	-370.6	904.4	881.8	22.65	39.925	
12,400.0	12,282.0	12,269.8	12,209.1	12.4	11.3	-90.68	0.8	-376.6	913.0	890.3	22.72	40.177	
12,450.0	12,306.4	12,315.6	12,239.0	12.4	11.4	-90.18	34.9	-382.8	921.5	898.7	22.80	40.411	
12,500.0	12,326.9	12,362.1	12,266.5	12.5	11.5	-89.76	71.9	-389.3	929.8	906.9	22.90	40.611	
12,550.0	12,343.4	12,409.5	12,291.3	12.6	11.5	-89.44	111.7	-396.0	937.9	914.9	23.01	40.764	
12,600.0	12,355.8	12,457.7	12,313.0	12.7	11.6	-89.20	154.2	-403.0	945.8	922.7	23.15	40.854	
12,650.0	12,363.9	12,507.0	12,331.3	12.8	11.7	-89.03	199.3	-410.1	953.4	930.1	23.33	40.870	
12,700.0	12,367.7	12,557.3	12,346.0	12.9	11.8	-88.95	246.8	-417.4	960.6	937.1	23.54	40.801	
12,717.4	12,368.0	12,575.0	12,350.1	12.9	11.8	-88.94	263.9	-419.9	963.0	939.4	23.63	40.756	
12,800.0	12,368.1	12,662.0	12,362.7	13.1	12.0	-89.69	349.0	-432.2	974.2	950.1	24.12	40.388	
12,900.0	12,368.3	12,797.8	12,364.3	13.4	12.4	-89.77	483.8	-449.1	986.1	961.1	24.97	39.495	
13,000.0	12,368.6	12,950.2	12,364.6	13.7	12.9	-89.78	635.7	-460.6	993.0	967.0	26.01	38.177	
13,100.0	12,368.8	13,092.6	12,365.0	14.1	13.5	-89.78	778.1	-464.1	994.7	967.6	27.11	36.698	
13,200.0	12,369.0	13,192.6	12,365.2	14.6	14.0	-89.78	878.1	-464.7	994.7	966.6	28.13	35.364	
13,300.0	12,369.2	13,292.6	12,365.5	15.0	14.6	-89.79	978.1	-465.3	994.7	965.5	29.22	34.046	
13,400.0	12,369.4	13,392.6	12,365.7	15.6	15.1	-89.79	1,078.1	-465.9	994.7	964.4	30.36	32.760	
13,500.0	12,369.6	13,492.6	12,365.9	16.1	15.7	-89.79	1,178.1	-466.5	994.7	963.2	31.56	31.515	
13,600.0	12,369.8	13,592.6	12,366.2	16.7	16.4	-89.79	1,278.0	-467.1	994.8	961.9	32.81	30.317	
13,700.0	12,370.0	13,692.6	12,366.4	17.3	17.0	-89.80	1,378.0	-467.7	994.8	960.7	34.10	29.171	
13,800.0	12,370.2	13,792.6	12,366.7	17.9	17.7	-89.80	1,478.0	-468.4	994.8	959.3	35.43	28.080	
13,900.0	12,370.4	13,892.6	12,366.9	18.6	18.3	-89.80	1,578.0	-469.0	994.8	958.0	36.78	27.043	
14,000.0	12,370.6	13,992.6	12,367.2	19.3	19.0	-89.80	1,678.0	-469.6	994.8	956.6	38.17	26.059	
14,100.0	12,370.8	14,092.6	12,367.4	20.0	19.8	-89.81	1,778.0	-470.2	994.8	955.2	39.59	25.128	

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 703H
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 703H	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, 11787-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference				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
14,200.0	12,371.0	14,192.6	12,367.6	20.7	20.5	-89.81	1,878.0	-470.8	994.8	953.7	41.03	24.247	
14,300.0	12,371.2	14,292.6	12,367.9	21.4	21.2	-89.81	1,978.0	-471.4	994.8	952.3	42.49	23.413	
14,400.0	12,371.4	14,392.6	12,368.1	22.1	21.9	-89.81	2,078.0	-472.1	994.8	950.8	43.97	22.626	
14,500.0	12,371.6	14,492.6	12,368.4	22.8	22.7	-89.81	2,178.0	-472.7	994.8	949.3	45.46	21.881	
14,600.0	12,371.8	14,592.6	12,368.6	23.6	23.5	-89.82	2,278.0	-473.3	994.8	947.8	46.98	21.177	
14,700.0	12,372.0	14,692.6	12,368.8	24.3	24.2	-89.82	2,378.0	-473.9	994.8	946.3	48.50	20.510	
14,800.0	12,372.2	14,792.6	12,369.1	25.1	25.0	-89.82	2,478.0	-474.5	994.8	944.7	50.04	19.879	
14,900.0	12,372.4	14,892.6	12,369.3	25.9	25.8	-89.82	2,578.0	-475.1	994.8	943.2	51.59	19.282	
15,000.0	12,372.6	14,992.6	12,369.6	26.6	26.6	-89.83	2,678.0	-475.7	994.8	941.6	53.15	18.715	
15,100.0	12,372.8	15,092.6	12,369.8	27.4	27.3	-89.83	2,778.0	-476.4	994.8	940.1	54.73	18.178	
15,200.0	12,373.0	15,192.6	12,370.1	28.2	28.1	-89.83	2,878.0	-477.0	994.8	938.5	56.31	17.667	
15,300.0	12,373.2	15,292.6	12,370.3	29.0	28.9	-89.83	2,978.0	-477.6	994.8	936.9	57.90	17.183	
15,400.0	12,373.4	15,392.6	12,370.5	29.8	29.7	-89.84	3,078.0	-478.2	994.8	935.3	59.49	16.721	
15,500.0	12,373.6	15,492.6	12,370.8	30.6	30.5	-89.84	3,178.0	-478.8	994.8	933.7	61.10	16.283	
15,600.0	12,373.8	15,592.6	12,371.0	31.4	31.3	-89.84	3,278.0	-479.4	994.8	932.1	62.71	15.865	
15,700.0	12,374.0	15,692.6	12,371.3	32.2	32.2	-89.84	3,378.0	-480.1	994.8	930.5	64.32	15.466	
15,800.0	12,374.2	15,792.6	12,371.5	33.0	33.0	-89.84	3,478.0	-480.7	994.8	928.9	65.94	15.086	
15,900.0	12,374.4	15,892.6	12,371.8	33.8	33.8	-89.85	3,578.0	-481.3	994.8	927.2	67.57	14.723	
16,000.0	12,374.6	15,992.6	12,372.0	34.6	34.6	-89.85	3,678.0	-481.9	994.8	925.6	69.20	14.376	
16,100.0	12,374.8	16,092.6	12,372.2	35.4	35.4	-89.85	3,778.0	-482.5	994.8	924.0	70.84	14.044	
16,200.0	12,375.0	16,192.6	12,372.5	36.3	36.2	-89.85	3,878.0	-483.1	994.8	922.3	72.48	13.726	
16,300.0	12,375.2	16,292.6	12,372.7	37.1	37.1	-89.86	3,978.0	-483.8	994.8	920.7	74.12	13.422	
16,400.0	12,375.4	16,392.6	12,373.0	37.9	37.9	-89.86	4,078.0	-484.4	994.8	919.1	75.77	13.130	
16,500.0	12,375.6	16,492.6	12,373.2	38.7	38.7	-89.86	4,178.0	-485.0	994.8	917.4	77.42	12.850	
16,600.0	12,375.8	16,592.6	12,373.5	39.5	39.5	-89.86	4,278.0	-485.6	994.8	915.8	79.07	12.581	
16,700.0	12,376.0	16,692.6	12,373.7	40.4	40.4	-89.87	4,378.0	-486.2	994.8	914.1	80.73	12.323	
16,800.0	12,376.2	16,792.6	12,373.9	41.2	41.2	-89.87	4,478.0	-486.8	994.8	912.4	82.39	12.075	
16,900.0	12,376.4	16,892.6	12,374.2	42.0	42.0	-89.87	4,578.0	-487.4	994.8	910.8	84.05	11.836	
17,000.0	12,376.6	16,992.6	12,374.4	42.9	42.9	-89.87	4,678.0	-488.1	994.8	909.1	85.72	11.606	
17,100.0	12,376.8	17,092.6	12,374.7	43.7	43.7	-89.87	4,778.0	-488.7	994.8	907.5	87.38	11.385	
17,200.0	12,377.0	17,192.6	12,374.9	44.5	44.5	-89.88	4,878.0	-489.3	994.8	905.8	89.05	11.171	
17,300.0	12,377.3	17,292.6	12,375.1	45.4	45.4	-89.88	4,978.0	-489.9	994.9	904.1	90.73	10.965	
17,400.0	12,377.5	17,392.6	12,375.4	46.2	46.2	-89.88	5,078.0	-490.5	994.9	902.5	92.40	10.767	
17,500.0	12,377.7	17,492.6	12,375.6	47.0	47.1	-89.88	5,178.0	-491.1	994.9	900.8	94.07	10.575	
17,600.0	12,377.9	17,592.6	12,375.9	47.9	47.9	-89.89	5,278.0	-491.8	994.9	899.1	95.75	10.390	
17,700.0	12,378.1	17,692.6	12,376.1	48.7	48.7	-89.89	5,378.0	-492.4	994.9	897.4	97.43	10.211	
17,800.0	12,378.3	17,792.6	12,376.4	49.5	49.6	-89.89	5,478.0	-493.0	994.9	895.8	99.11	10.038	
17,900.0	12,378.5	17,892.6	12,376.6	50.4	50.4	-89.89	5,578.0	-493.6	994.9	894.1	100.79	9.870	
18,000.0	12,378.7	17,992.6	12,376.8	51.2	51.3	-89.89	5,678.0	-494.2	994.9	892.4	102.48	9.708	
18,100.0	12,378.9	18,092.6	12,377.1	52.1	52.1	-89.90	5,778.0	-494.8	994.9	890.7	104.16	9.551	
18,200.0	12,379.1	18,192.6	12,377.3	52.9	52.9	-89.90	5,877.9	-495.4	994.9	889.0	105.85	9.399	
18,300.0	12,379.3	18,292.6	12,377.6	53.8	53.8	-89.90	5,977.9	-496.1	994.9	887.3	107.53	9.252	
18,400.0	12,379.5	18,392.6	12,377.8	54.6	54.6	-89.90	6,077.9	-496.7	994.9	885.7	109.22	9.109	
18,500.0	12,379.7	18,492.6	12,378.1	55.4	55.5	-89.91	6,177.9	-497.3	994.9	884.0	110.91	8.970	
18,600.0	12,379.9	18,592.6	12,378.3	56.3	56.3	-89.91	6,277.9	-497.9	994.9	882.3	112.60	8.835	
18,700.0	12,380.1	18,692.6	12,378.5	57.1	57.2	-89.91	6,377.9	-498.5	994.9	880.6	114.30	8.705	
18,800.0	12,380.3	18,792.6	12,378.8	58.0	58.0	-89.91	6,477.9	-499.1	994.9	878.9	115.99	8.578	
18,900.0	12,380.5	18,892.6	12,379.0	58.8	58.9	-89.92	6,577.9	-499.8	994.9	877.2	117.68	8.454	
19,000.0	12,380.7	18,992.6	12,379.3	59.7	59.7	-89.92	6,677.9	-500.4	994.9	875.5	119.38	8.334	
19,100.0	12,380.9	19,092.6	12,379.5	60.5	60.6	-89.92	6,777.9	-501.0	994.9	873.8	121.07	8.217	
19,200.0	12,381.1	19,192.6	12,379.7	61.4	61.4	-89.92	6,877.9	-501.6	994.9	872.1	122.77	8.104	

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 703H
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 703H	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, 11787-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	
19,300.0	12,381.3	19,292.6	12,380.0	62.2	62.3	-89.92	6,977.9	-502.2	994.9	870.4	124.46	7.993	
19,400.0	12,381.5	19,392.6	12,380.2	63.1	63.1	-89.93	7,077.9	-502.8	994.9	868.7	126.16	7.886	
19,500.0	12,381.7	19,492.6	12,380.5	63.9	64.0	-89.93	7,177.9	-503.5	994.9	867.0	127.86	7.781	
19,600.0	12,381.9	19,592.6	12,380.7	64.8	64.8	-89.93	7,277.9	-504.1	994.9	865.4	129.56	7.679	
19,700.0	12,382.1	19,692.6	12,381.0	65.6	65.7	-89.93	7,377.9	-504.7	994.9	863.7	131.26	7.580	
19,800.0	12,382.3	19,792.6	12,381.2	66.5	66.5	-89.94	7,477.9	-505.3	994.9	862.0	132.96	7.483	
19,900.0	12,382.5	19,892.6	12,381.4	67.3	67.4	-89.94	7,577.9	-505.9	994.9	860.3	134.66	7.388	
20,000.0	12,382.7	19,992.6	12,381.7	68.2	68.2	-89.94	7,677.9	-506.5	994.9	858.6	136.36	7.296	
20,100.0	12,382.9	20,092.6	12,381.9	69.0	69.1	-89.94	7,777.9	-507.1	994.9	856.9	138.07	7.206	
20,200.0	12,383.1	20,192.6	12,382.2	69.9	69.9	-89.95	7,877.9	-507.8	994.9	855.2	139.77	7.118	
20,300.0	12,383.3	20,292.6	12,382.4	70.7	70.8	-89.95	7,977.9	-508.4	994.9	853.5	141.47	7.033	
20,400.0	12,383.5	20,392.6	12,382.7	71.6	71.6	-89.95	8,077.9	-509.0	994.9	851.8	143.18	6.949	
20,500.0	12,383.7	20,492.6	12,382.9	72.4	72.5	-89.95	8,177.9	-509.6	994.9	850.1	144.88	6.867	
20,600.0	12,383.9	20,592.6	12,383.1	73.3	73.3	-89.95	8,277.9	-510.2	994.9	848.4	146.59	6.787	
20,700.0	12,384.1	20,692.6	12,383.4	74.1	74.2	-89.96	8,377.9	-510.8	994.9	846.7	148.29	6.709	
20,800.0	12,384.3	20,792.6	12,383.6	75.0	75.0	-89.96	8,477.9	-511.5	994.9	844.9	150.00	6.633	
20,900.0	12,384.5	20,892.6	12,383.9	75.8	75.9	-89.96	8,577.9	-512.1	994.9	843.2	151.70	6.558	
21,000.0	12,384.7	20,992.6	12,384.1	76.7	76.7	-89.96	8,677.9	-512.7	995.0	841.5	153.41	6.486	
21,100.0	12,384.9	21,092.6	12,384.4	77.5	77.6	-89.97	8,777.9	-513.3	995.0	839.8	155.12	6.414	
21,200.0	12,385.1	21,192.6	12,384.6	78.4	78.4	-89.97	8,877.9	-513.9	995.0	838.1	156.83	6.344	
21,300.0	12,385.3	21,292.6	12,384.8	79.2	79.3	-89.97	8,977.9	-514.5	995.0	836.4	158.53	6.276	
21,400.0	12,385.5	21,392.6	12,385.1	80.1	80.2	-89.97	9,077.9	-515.1	995.0	834.7	160.24	6.209	
21,500.0	12,385.8	21,492.6	12,385.3	80.9	81.0	-89.98	9,177.9	-515.8	995.0	833.0	161.95	6.144	
21,600.0	12,386.0	21,592.6	12,385.6	81.8	81.9	-89.98	9,277.9	-516.4	995.0	831.3	163.66	6.080	
21,700.0	12,386.2	21,692.6	12,385.8	82.7	82.7	-89.98	9,377.9	-517.0	995.0	829.6	165.37	6.017	
21,800.0	12,386.4	21,792.6	12,386.0	83.5	83.6	-89.98	9,477.9	-517.6	995.0	827.9	167.08	5.955	
21,900.0	12,386.6	21,892.6	12,386.3	84.4	84.4	-89.98	9,577.9	-518.2	995.0	826.2	168.79	5.895	
22,000.0	12,386.8	21,992.6	12,386.5	85.2	85.3	-89.99	9,677.9	-518.8	995.0	824.5	170.50	5.836	
22,100.0	12,387.0	22,092.6	12,386.8	86.1	86.1	-89.99	9,777.9	-519.5	995.0	822.8	172.21	5.778	
22,200.0	12,387.2	22,192.6	12,387.0	86.9	87.0	-89.99	9,877.9	-520.1	995.0	821.1	173.92	5.721	
22,300.0	12,387.4	22,292.6	12,387.3	87.8	87.9	-89.99	9,977.9	-520.7	995.0	819.4	175.63	5.665	
22,400.0	12,387.6	22,392.6	12,387.5	88.6	88.7	-90.00	10,077.9	-521.3	995.0	817.6	177.34	5.611	
22,500.0	12,387.8	22,492.6	12,387.7	89.5	89.6	-90.00	10,177.9	-521.9	995.0	815.9	179.05	5.557	
22,600.0	12,388.0	22,592.6	12,388.0	90.3	90.4	-90.00	10,277.9	-522.5	995.0	814.2	180.77	5.504	
22,600.0	12,388.0	22,592.7	12,388.0	90.3	90.4	-90.00	10,277.9	-522.5	995.0	814.2	180.77	5.504	
22,611.5	12,388.0	22,599.4	12,388.0	90.4	90.5	-90.00	10,284.7	-522.6	995.0	814.1	180.93	5.500	

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 703H
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 703H	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: 200-GYRO-NS, 10201-MWD													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		
9,400.0	9,386.8	9,388.5	9,388.3	9.7	36.1	-24.36	-14.9	1,294.6	999.0	955.8	43.20	23.126		
9,500.0	9,486.5	9,486.1	9,485.9	9.7	36.5	-24.55	-15.0	1,294.9	991.6	948.0	43.64	22.724		
9,600.0	9,586.1	9,583.0	9,582.8	9.8	36.9	-24.75	-14.9	1,295.3	984.5	940.4	44.07	22.337		
9,700.0	9,685.8	9,684.7	9,684.5	9.9	37.2	-24.97	-14.7	1,295.9	977.4	932.9	44.58	21.927		
9,800.0	9,785.4	9,787.3	9,787.2	10.0	37.6	-25.19	-14.5	1,296.2	970.1	925.0	45.10	21.512		
9,900.0	9,885.0	9,885.8	9,885.6	10.1	37.9	-25.40	-14.6	1,296.3	962.7	917.1	45.54	21.138		
10,000.0	9,984.7	9,983.8	9,983.6	10.2	38.2	-25.57	-15.3	1,296.7	955.4	909.5	45.98	20.779		
10,100.0	10,084.3	10,085.0	10,084.8	10.3	38.5	-25.74	-16.1	1,297.2	948.3	901.8	46.43	20.423		
10,200.0	10,184.0	10,189.7	10,189.5	10.4	38.8	-25.92	-16.9	1,297.0	940.4	893.5	46.87	20.065		
10,300.0	10,283.6	10,264.0	10,263.7	10.4	38.9	-26.30	-13.4	1,297.0	933.5	886.6	46.97	19.873		
10,400.0	10,383.3	10,327.0	10,325.6	10.5	38.9	-27.13	-2.1	1,298.5	930.7	883.7	47.06	19.776		
10,408.8	10,392.1	10,327.0	10,325.6	10.6	38.9	-27.13	-2.1	1,298.5	930.7	883.6	47.06	19.775		
10,500.0	10,482.9	10,429.4	10,423.4	10.6	38.9	-29.15	27.8	1,301.4	931.0	883.8	47.23	19.712		
10,562.3	10,545.0	10,492.1	10,481.0	10.7	38.9	-30.80	52.5	1,300.4	930.5	883.2	47.34	19.655 CC, ES		
10,600.0	10,582.6	10,520.5	10,506.2	10.7	38.9	-31.66	65.5	1,299.7	930.8	883.4	47.40	19.639 SF		
10,700.0	10,682.2	10,581.0	10,557.9	10.8	39.0	-33.72	97.0	1,297.6	934.5	887.0	47.54	19.659		
10,800.0	10,781.9	10,624.9	10,593.0	10.9	39.0	-35.39	123.2	1,296.4	944.6	896.9	47.70	19.802		
10,900.0	10,881.5	10,664.7	10,623.4	11.0	39.0	-36.99	148.9	1,296.0	961.7	913.8	47.90	20.077		
11,000.0	10,981.2	10,709.0	10,655.9	11.1	39.0	-38.81	179.0	1,296.2	985.6	937.5	48.13	20.480		

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 703H
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 703H	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)

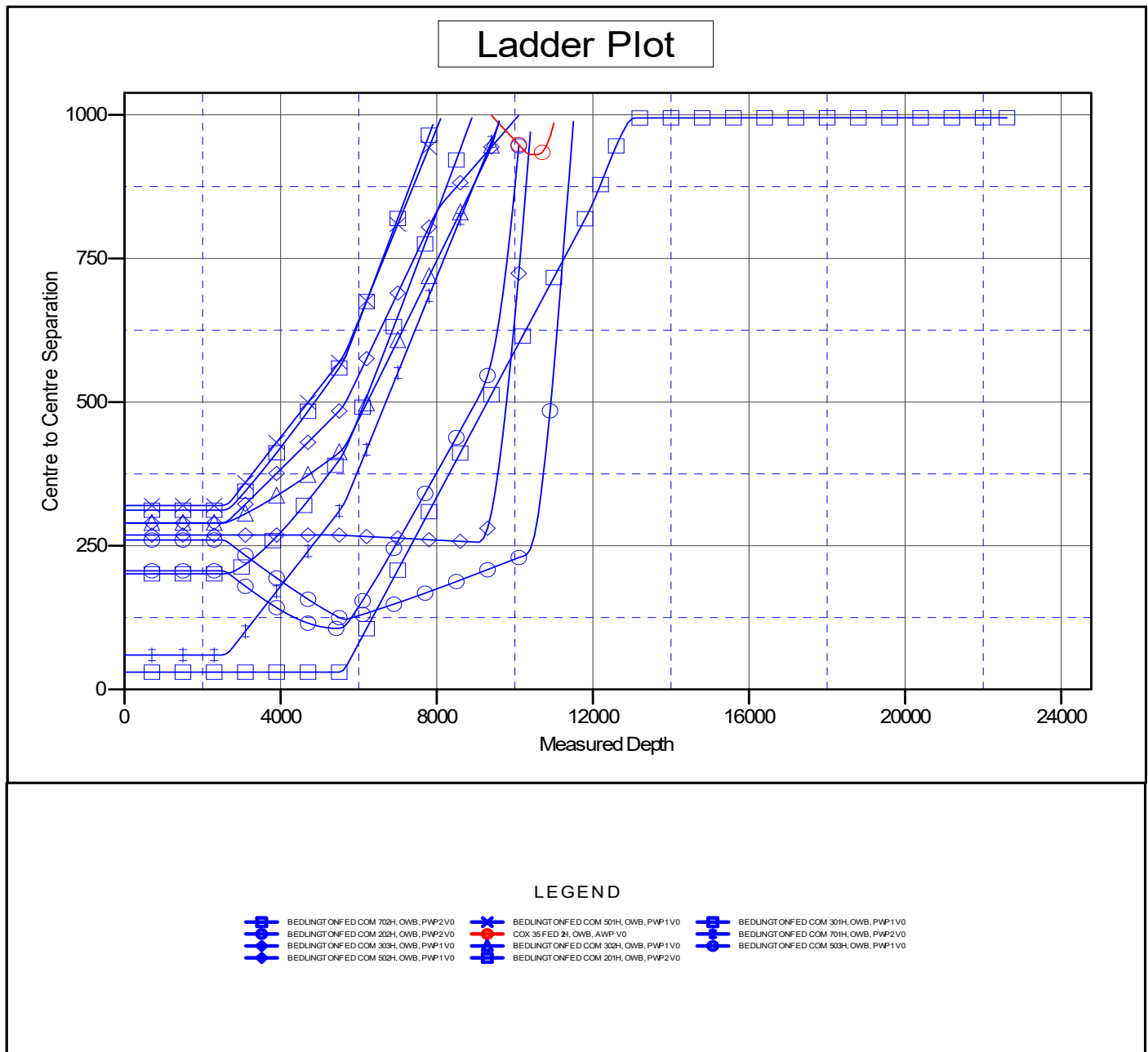
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: BEDLINGTON FED COM 703H

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

1/8/2021 7:49:30AM

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COMPASS 5000.15 Build 91E

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 703H
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 703H	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

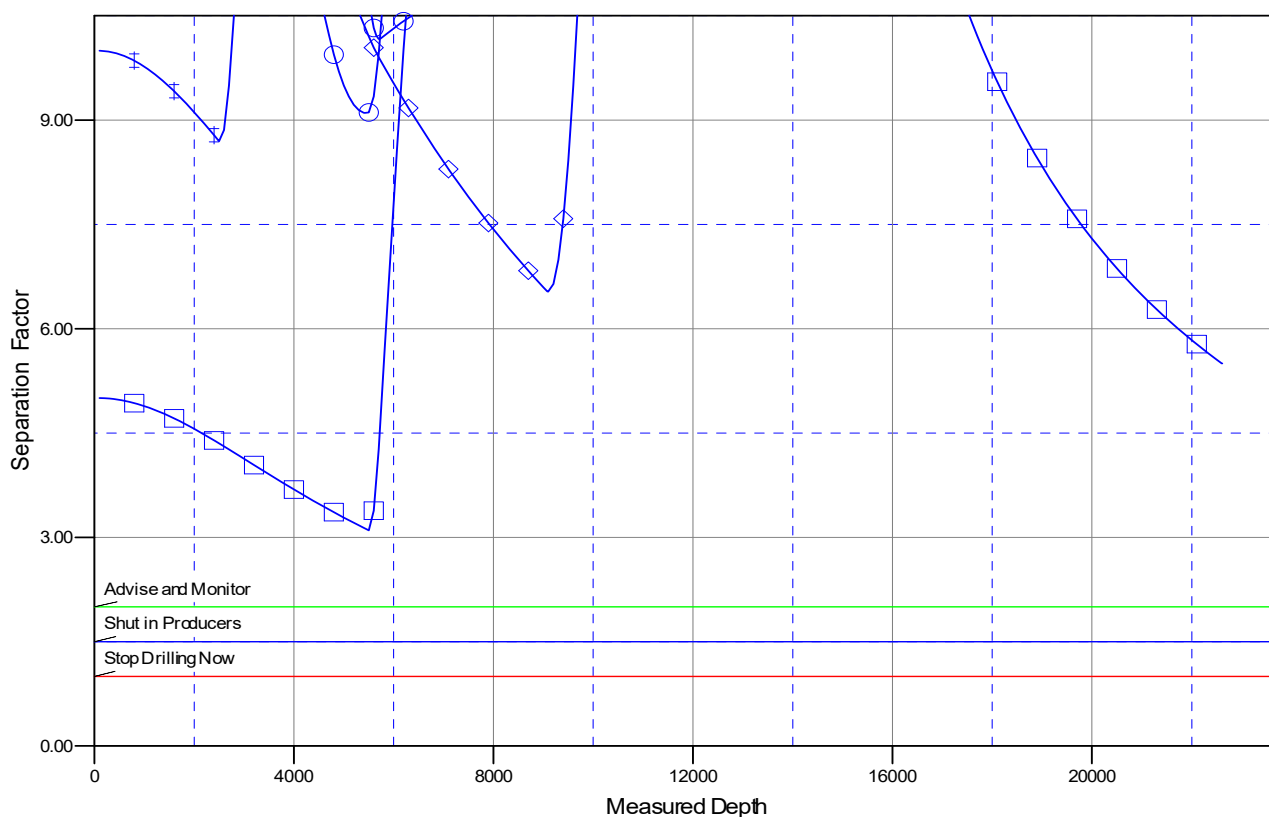
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: BEDLINGTON FED COM 703H

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 702H, OWB, PWP2 V0		BEDLINGTON FED COM 501H, OWB, PWP1 V0		BEDLINGTON FED COM 301H, OWB, PWP1 V0
	BEDLINGTON FED COM 202H, OWB, PWP2 V0		COK 35 FED 2H, OWB, AWP V0		BEDLINGTON FED COM 701H, OWB, PWP2 V0
	BEDLINGTON FED COM 303H, OWB, PWP1 V0		BEDLINGTON FED COM 302H, OWB, PWP1 V0		BEDLINGTON FED COM 503H, OWB, PWP1 V0
	BEDLINGTON FED COM 502H, OWB, PWP1 V0		BEDLINGTON FED COM 201H, OWB, PWP2 V0		

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)

BEDLINGTON FED COM 703H

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 703H
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 703H	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 703H		
Well Position	+N/-S	0.0 usft	Northing: 456,936.27 usfi
	+E/-W	0.0 usft	Easting: 711,943.43 usfi
Position Uncertainty		3.0 usft	Wellhead Elevation: usfi
			Latitude: 32° 15' 15.748 N
			Longitude: 103° 38' 51.867 W
			Ground Level: 3,623.0 usfi

Wellbore	OWB
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	1/8/2021	6.63	59.93	47,547.69195190

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	2.63

Survey Tool Program		Date	1/8/2021	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	0.0	PWP2 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
11,791.0	22,611.5	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 703H
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 703H	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 703H
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 703H	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	109.16	5,600.0	-0.6	1.6	-0.5	2.00	2.00	0.00
5,700.0	4.00	109.16	5,699.8	-2.3	6.6	-2.0	2.00	2.00	0.00
5,740.7	4.81	109.16	5,740.4	-3.3	9.5	-2.9	2.00	2.00	0.00
Start 6061.8 hold at 5740.7 MD									
5,800.0	4.81	109.16	5,799.5	-5.0	14.2	-4.3	0.00	0.00	0.00
5,900.0	4.81	109.16	5,899.2	-7.7	22.2	-6.7	0.00	0.00	0.00
6,000.0	4.81	109.16	5,998.8	-10.5	30.1	-9.1	0.00	0.00	0.00
6,100.0	4.81	109.16	6,098.4	-13.2	38.0	-11.5	0.00	0.00	0.00
6,200.0	4.81	109.16	6,198.1	-16.0	45.9	-13.8	0.00	0.00	0.00
6,300.0	4.81	109.16	6,297.7	-18.7	53.9	-16.2	0.00	0.00	0.00
6,400.0	4.81	109.16	6,397.4	-21.5	61.8	-18.6	0.00	0.00	0.00
6,500.0	4.81	109.16	6,497.0	-24.2	69.7	-21.0	0.00	0.00	0.00
6,600.0	4.81	109.16	6,596.7	-27.0	77.7	-23.4	0.00	0.00	0.00
6,700.0	4.81	109.16	6,696.3	-29.7	85.6	-25.8	0.00	0.00	0.00
6,800.0	4.81	109.16	6,796.0	-32.5	93.5	-28.2	0.00	0.00	0.00
6,900.0	4.81	109.16	6,895.6	-35.3	101.4	-30.6	0.00	0.00	0.00
7,000.0	4.81	109.16	6,995.3	-38.0	109.4	-33.0	0.00	0.00	0.00
7,100.0	4.81	109.16	7,094.9	-40.8	117.3	-35.3	0.00	0.00	0.00
7,200.0	4.81	109.16	7,194.6	-43.5	125.2	-37.7	0.00	0.00	0.00
7,300.0	4.81	109.16	7,294.2	-46.3	133.1	-40.1	0.00	0.00	0.00
7,400.0	4.81	109.16	7,393.9	-49.0	141.1	-42.5	0.00	0.00	0.00
7,500.0	4.81	109.16	7,493.5	-51.8	149.0	-44.9	0.00	0.00	0.00
7,600.0	4.81	109.16	7,593.2	-54.5	156.9	-47.3	0.00	0.00	0.00
7,700.0	4.81	109.16	7,692.8	-57.3	164.8	-49.7	0.00	0.00	0.00
7,800.0	4.81	109.16	7,792.5	-60.0	172.8	-52.1	0.00	0.00	0.00
7,900.0	4.81	109.16	7,892.1	-62.8	180.7	-54.5	0.00	0.00	0.00
8,000.0	4.81	109.16	7,991.7	-65.6	188.6	-56.8	0.00	0.00	0.00
8,100.0	4.81	109.16	8,091.4	-68.3	196.5	-59.2	0.00	0.00	0.00
8,200.0	4.81	109.16	8,191.0	-71.1	204.5	-61.6	0.00	0.00	0.00
8,300.0	4.81	109.16	8,290.7	-73.8	212.4	-64.0	0.00	0.00	0.00
8,400.0	4.81	109.16	8,390.3	-76.6	220.3	-66.4	0.00	0.00	0.00
8,500.0	4.81	109.16	8,490.0	-79.3	228.2	-68.8	0.00	0.00	0.00
8,600.0	4.81	109.16	8,589.6	-82.1	236.2	-71.2	0.00	0.00	0.00
8,700.0	4.81	109.16	8,689.3	-84.8	244.1	-73.6	0.00	0.00	0.00
8,800.0	4.81	109.16	8,788.9	-87.6	252.0	-75.9	0.00	0.00	0.00
8,900.0	4.81	109.16	8,888.6	-90.3	260.0	-78.3	0.00	0.00	0.00
9,000.0	4.81	109.16	8,988.2	-93.1	267.9	-80.7	0.00	0.00	0.00
9,100.0	4.81	109.16	9,087.9	-95.9	275.8	-83.1	0.00	0.00	0.00
9,200.0	4.81	109.16	9,187.5	-98.6	283.7	-85.5	0.00	0.00	0.00
9,300.0	4.81	109.16	9,287.2	-101.4	291.7	-87.9	0.00	0.00	0.00
9,400.0	4.81	109.16	9,386.8	-104.1	299.6	-90.3	0.00	0.00	0.00
9,500.0	4.81	109.16	9,486.5	-106.9	307.5	-92.7	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 703H
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 703H	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	4.81	109.16	9,586.1	-109.6	315.4	-95.1	0.00	0.00	0.00
9,700.0	4.81	109.16	9,685.8	-112.4	323.4	-97.4	0.00	0.00	0.00
9,800.0	4.81	109.16	9,785.4	-115.1	331.3	-99.8	0.00	0.00	0.00
9,900.0	4.81	109.16	9,885.0	-117.9	339.2	-102.2	0.00	0.00	0.00
10,000.0	4.81	109.16	9,984.7	-120.6	347.1	-104.6	0.00	0.00	0.00
10,100.0	4.81	109.16	10,084.3	-123.4	355.1	-107.0	0.00	0.00	0.00
10,200.0	4.81	109.16	10,184.0	-126.2	363.0	-109.4	0.00	0.00	0.00
10,300.0	4.81	109.16	10,283.6	-128.9	370.9	-111.8	0.00	0.00	0.00
10,400.0	4.81	109.16	10,383.3	-131.7	378.8	-114.2	0.00	0.00	0.00
10,500.0	4.81	109.16	10,482.9	-134.4	386.8	-116.6	0.00	0.00	0.00
10,600.0	4.81	109.16	10,582.6	-137.2	394.7	-118.9	0.00	0.00	0.00
10,700.0	4.81	109.16	10,682.2	-139.9	402.6	-121.3	0.00	0.00	0.00
10,800.0	4.81	109.16	10,781.9	-142.7	410.5	-123.7	0.00	0.00	0.00
10,900.0	4.81	109.16	10,881.5	-145.4	418.5	-126.1	0.00	0.00	0.00
11,000.0	4.81	109.16	10,981.2	-148.2	426.4	-128.5	0.00	0.00	0.00
11,100.0	4.81	109.16	11,080.8	-150.9	434.3	-130.9	0.00	0.00	0.00
11,200.0	4.81	109.16	11,180.5	-153.7	442.2	-133.3	0.00	0.00	0.00
11,300.0	4.81	109.16	11,280.1	-156.5	450.2	-135.7	0.00	0.00	0.00
11,400.0	4.81	109.16	11,379.8	-159.2	458.1	-138.1	0.00	0.00	0.00
11,500.0	4.81	109.16	11,479.4	-162.0	466.0	-140.4	0.00	0.00	0.00
11,600.0	4.81	109.16	11,579.1	-164.7	474.0	-142.8	0.00	0.00	0.00
11,700.0	4.81	109.16	11,678.7	-167.5	481.9	-145.2	0.00	0.00	0.00
11,800.0	4.81	109.16	11,778.3	-170.2	489.8	-147.6	0.00	0.00	0.00
11,802.5	4.81	109.16	11,780.8	-170.3	490.0	-147.7	0.00	0.00	0.00
Start DLS 10.00 TFO -109.46									
11,900.0	9.32	28.57	11,877.8	-164.7	497.7	-141.7	10.00	4.62	-82.63
12,000.0	18.69	13.21	11,974.7	-141.9	505.2	-118.6	10.00	9.37	-15.36
12,100.0	28.48	8.05	12,066.3	-102.6	512.2	-79.0	10.00	9.79	-5.16
12,200.0	38.37	5.39	12,149.6	-48.0	518.5	-24.2	10.00	9.89	-2.66
12,300.0	48.31	3.69	12,222.3	20.4	523.8	44.3	10.00	9.93	-1.70
12,400.0	58.26	2.45	12,282.0	100.3	528.1	124.4	10.00	9.95	-1.24
12,500.0	68.22	1.46	12,326.9	189.4	531.1	213.6	10.00	9.96	-1.00
12,600.0	78.18	0.59	12,355.8	285.0	532.8	309.1	10.00	9.97	-0.87
12,700.0	88.15	359.79	12,367.7	384.2	533.1	408.2	10.00	9.97	-0.80
12,717.4	89.88	359.65	12,368.0	401.6	533.0	425.6	10.00	9.97	-0.79
Start 9894.2 hold at 12717.4 MD									
12,800.0	89.88	359.65	12,368.1	484.2	532.5	508.1	0.00	0.00	0.00
12,900.0	89.88	359.65	12,368.3	584.2	531.9	607.9	0.00	0.00	0.00
13,000.0	89.88	359.65	12,368.6	684.2	531.3	707.8	0.00	0.00	0.00
13,100.0	89.88	359.65	12,368.8	784.2	530.7	807.7	0.00	0.00	0.00
13,200.0	89.88	359.65	12,369.0	884.2	530.0	907.5	0.00	0.00	0.00
13,300.0	89.88	359.65	12,369.2	984.2	529.4	1,007.4	0.00	0.00	0.00
13,400.0	89.88	359.65	12,369.4	1,084.2	528.8	1,107.3	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 703H
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 703H	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)
13,500.0	89.88	359.65	12,369.6	1,184.2	528.2	1,207.1	0.00	0.00	0.00
13,600.0	89.88	359.65	12,369.8	1,284.2	527.6	1,307.0	0.00	0.00	0.00
13,700.0	89.88	359.65	12,370.0	1,384.2	527.0	1,406.9	0.00	0.00	0.00
13,800.0	89.88	359.65	12,370.2	1,484.2	526.4	1,506.7	0.00	0.00	0.00
13,900.0	89.88	359.65	12,370.4	1,584.2	525.8	1,606.6	0.00	0.00	0.00
14,000.0	89.88	359.65	12,370.6	1,684.2	525.1	1,706.5	0.00	0.00	0.00
14,100.0	89.88	359.65	12,370.8	1,784.2	524.5	1,806.3	0.00	0.00	0.00
14,200.0	89.88	359.65	12,371.0	1,884.2	523.9	1,906.2	0.00	0.00	0.00
14,300.0	89.88	359.65	12,371.2	1,984.1	523.3	2,006.0	0.00	0.00	0.00
14,400.0	89.88	359.65	12,371.4	2,084.1	522.7	2,105.9	0.00	0.00	0.00
14,500.0	89.88	359.65	12,371.6	2,184.1	522.1	2,205.8	0.00	0.00	0.00
14,600.0	89.88	359.65	12,371.8	2,284.1	521.5	2,305.6	0.00	0.00	0.00
14,700.0	89.88	359.65	12,372.0	2,384.1	520.9	2,405.5	0.00	0.00	0.00
14,800.0	89.88	359.65	12,372.2	2,484.1	520.2	2,505.4	0.00	0.00	0.00
14,900.0	89.88	359.65	12,372.4	2,584.1	519.6	2,605.2	0.00	0.00	0.00
15,000.0	89.88	359.65	12,372.6	2,684.1	519.0	2,705.1	0.00	0.00	0.00
15,100.0	89.88	359.65	12,372.8	2,784.1	518.4	2,805.0	0.00	0.00	0.00
15,200.0	89.88	359.65	12,373.0	2,884.1	517.8	2,904.8	0.00	0.00	0.00
15,300.0	89.88	359.65	12,373.2	2,984.1	517.2	3,004.7	0.00	0.00	0.00
15,400.0	89.88	359.65	12,373.4	3,084.1	516.6	3,104.6	0.00	0.00	0.00
15,500.0	89.88	359.65	12,373.6	3,184.1	516.0	3,204.4	0.00	0.00	0.00
15,600.0	89.88	359.65	12,373.8	3,284.1	515.3	3,304.3	0.00	0.00	0.00
15,700.0	89.88	359.65	12,374.0	3,384.1	514.7	3,404.2	0.00	0.00	0.00
15,800.0	89.88	359.65	12,374.2	3,484.1	514.1	3,504.0	0.00	0.00	0.00
15,900.0	89.88	359.65	12,374.4	3,584.1	513.5	3,603.9	0.00	0.00	0.00
16,000.0	89.88	359.65	12,374.6	3,684.1	512.9	3,703.7	0.00	0.00	0.00
16,100.0	89.88	359.65	12,374.8	3,784.1	512.3	3,803.6	0.00	0.00	0.00
16,200.0	89.88	359.65	12,375.0	3,884.1	511.7	3,903.5	0.00	0.00	0.00
16,300.0	89.88	359.65	12,375.2	3,984.1	511.0	4,003.3	0.00	0.00	0.00
16,400.0	89.88	359.65	12,375.4	4,084.1	510.4	4,103.2	0.00	0.00	0.00
16,500.0	89.88	359.65	12,375.6	4,184.1	509.8	4,203.1	0.00	0.00	0.00
16,600.0	89.88	359.65	12,375.8	4,284.1	509.2	4,302.9	0.00	0.00	0.00
16,700.0	89.88	359.65	12,376.0	4,384.1	508.6	4,402.8	0.00	0.00	0.00
16,800.0	89.88	359.65	12,376.2	4,484.1	508.0	4,502.7	0.00	0.00	0.00
16,900.0	89.88	359.65	12,376.4	4,584.1	507.4	4,602.5	0.00	0.00	0.00
17,000.0	89.88	359.65	12,376.6	4,684.1	506.8	4,702.4	0.00	0.00	0.00
17,100.0	89.88	359.65	12,376.8	4,784.1	506.1	4,802.3	0.00	0.00	0.00
17,200.0	89.88	359.65	12,377.0	4,884.1	505.5	4,902.1	0.00	0.00	0.00
17,300.0	89.88	359.65	12,377.3	4,984.1	504.9	5,002.0	0.00	0.00	0.00
17,400.0	89.88	359.65	12,377.5	5,084.1	504.3	5,101.9	0.00	0.00	0.00
17,500.0	89.88	359.65	12,377.7	5,184.1	503.7	5,201.7	0.00	0.00	0.00
17,600.0	89.88	359.65	12,377.9	5,284.1	503.1	5,301.6	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 703H
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 703H	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)
17,700.0	89.88	359.65	12,378.1	5,384.1	502.5	5,401.5	0.00	0.00	0.00
17,800.0	89.88	359.65	12,378.3	5,484.1	501.9	5,501.3	0.00	0.00	0.00
17,900.0	89.88	359.65	12,378.5	5,584.1	501.2	5,601.2	0.00	0.00	0.00
18,000.0	89.88	359.65	12,378.7	5,684.1	500.6	5,701.0	0.00	0.00	0.00
18,100.0	89.88	359.65	12,378.9	5,784.1	500.0	5,800.9	0.00	0.00	0.00
18,200.0	89.88	359.65	12,379.1	5,884.1	499.4	5,900.8	0.00	0.00	0.00
18,300.0	89.88	359.65	12,379.3	5,984.1	498.8	6,000.6	0.00	0.00	0.00
18,400.0	89.88	359.65	12,379.5	6,084.1	498.2	6,100.5	0.00	0.00	0.00
18,500.0	89.88	359.65	12,379.7	6,184.1	497.6	6,200.4	0.00	0.00	0.00
18,600.0	89.88	359.65	12,379.9	6,284.1	497.0	6,300.2	0.00	0.00	0.00
18,700.0	89.88	359.65	12,380.1	6,384.1	496.3	6,400.1	0.00	0.00	0.00
18,800.0	89.88	359.65	12,380.3	6,484.1	495.7	6,500.0	0.00	0.00	0.00
18,900.0	89.88	359.65	12,380.5	6,584.1	495.1	6,599.8	0.00	0.00	0.00
19,000.0	89.88	359.65	12,380.7	6,684.1	494.5	6,699.7	0.00	0.00	0.00
19,100.0	89.88	359.65	12,380.9	6,784.0	493.9	6,799.6	0.00	0.00	0.00
19,200.0	89.88	359.65	12,381.1	6,884.0	493.3	6,899.4	0.00	0.00	0.00
19,300.0	89.88	359.65	12,381.3	6,984.0	492.7	6,999.3	0.00	0.00	0.00
19,400.0	89.88	359.65	12,381.5	7,084.0	492.1	7,099.2	0.00	0.00	0.00
19,500.0	89.88	359.65	12,381.7	7,184.0	491.4	7,199.0	0.00	0.00	0.00
19,600.0	89.88	359.65	12,381.9	7,284.0	490.8	7,298.9	0.00	0.00	0.00
19,700.0	89.88	359.65	12,382.1	7,384.0	490.2	7,398.7	0.00	0.00	0.00
19,800.0	89.88	359.65	12,382.3	7,484.0	489.6	7,498.6	0.00	0.00	0.00
19,900.0	89.88	359.65	12,382.5	7,584.0	489.0	7,598.5	0.00	0.00	0.00
20,000.0	89.88	359.65	12,382.7	7,684.0	488.4	7,698.3	0.00	0.00	0.00
20,100.0	89.88	359.65	12,382.9	7,784.0	487.8	7,798.2	0.00	0.00	0.00
20,200.0	89.88	359.65	12,383.1	7,884.0	487.1	7,898.1	0.00	0.00	0.00
20,300.0	89.88	359.65	12,383.3	7,984.0	486.5	7,997.9	0.00	0.00	0.00
20,400.0	89.88	359.65	12,383.5	8,084.0	485.9	8,097.8	0.00	0.00	0.00
20,500.0	89.88	359.65	12,383.7	8,184.0	485.3	8,197.7	0.00	0.00	0.00
20,600.0	89.88	359.65	12,383.9	8,284.0	484.7	8,297.5	0.00	0.00	0.00
20,700.0	89.88	359.65	12,384.1	8,384.0	484.1	8,397.4	0.00	0.00	0.00
20,800.0	89.88	359.65	12,384.3	8,484.0	483.5	8,497.3	0.00	0.00	0.00
20,900.0	89.88	359.65	12,384.5	8,584.0	482.9	8,597.1	0.00	0.00	0.00
21,000.0	89.88	359.65	12,384.7	8,684.0	482.2	8,697.0	0.00	0.00	0.00
21,100.0	89.88	359.65	12,384.9	8,784.0	481.6	8,796.9	0.00	0.00	0.00
21,200.0	89.88	359.65	12,385.1	8,884.0	481.0	8,896.7	0.00	0.00	0.00
21,300.0	89.88	359.65	12,385.3	8,984.0	480.4	8,996.6	0.00	0.00	0.00
21,400.0	89.88	359.65	12,385.5	9,084.0	479.8	9,096.4	0.00	0.00	0.00
21,500.0	89.88	359.65	12,385.8	9,184.0	479.2	9,196.3	0.00	0.00	0.00
21,600.0	89.88	359.65	12,386.0	9,284.0	478.6	9,296.2	0.00	0.00	0.00
21,700.0	89.88	359.65	12,386.2	9,384.0	478.0	9,396.0	0.00	0.00	0.00
21,800.0	89.88	359.65	12,386.4	9,484.0	477.3	9,495.9	0.00	0.00	0.00
21,900.0	89.88	359.65	12,386.6	9,584.0	476.7	9,595.8	0.00	0.00	0.00

Concho Resources LLC

Survey Report

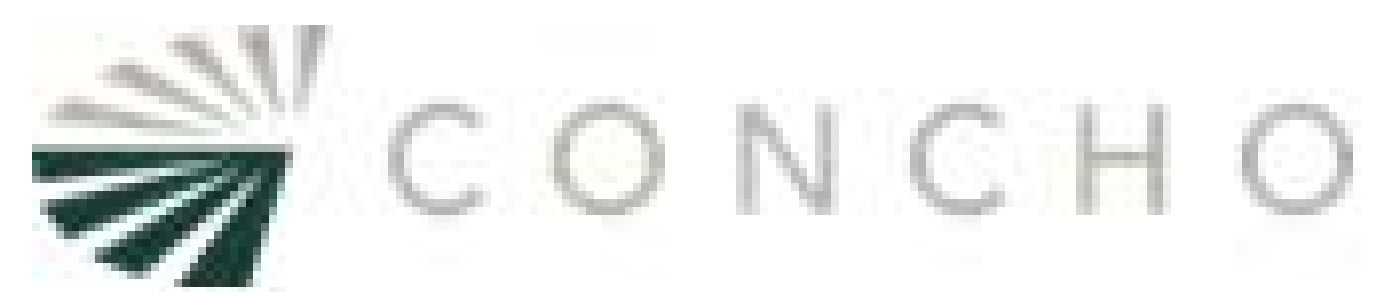
Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well BEDLINGTON FED COM 703H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3649.0usft (McVay 8)
Site:	BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=26' @ 3649.0usft (McVay 8)
Well:	BEDLINGTON FED COM 703H	North Reference:	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)	
22,000.0	89.88	359.65	12,386.8	9,684.0	476.1	9,695.6	0.00	0.00	0.00	
22,100.0	89.88	359.65	12,387.0	9,784.0	475.5	9,795.5	0.00	0.00	0.00	
22,200.0	89.88	359.65	12,387.2	9,884.0	474.9	9,895.4	0.00	0.00	0.00	
22,300.0	89.88	359.65	12,387.4	9,984.0	474.3	9,995.2	0.00	0.00	0.00	
22,400.0	89.88	359.65	12,387.6	10,084.0	473.7	10,095.1	0.00	0.00	0.00	
22,500.0	89.88	359.65	12,387.8	10,184.0	473.1	10,195.0	0.00	0.00	0.00	
22,600.0	89.88	359.65	12,388.0	10,284.0	472.4	10,294.8	0.00	0.00	0.00	
22,611.5	89.88	359.65	12,388.0	10,295.5	472.4	10,306.3	0.00	0.00	0.00	
TD at 22611.5										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
FTP (BEDLINGTON F - hit/miss target - Shape	0.00	0.00	12,368.0	-120.0	535.7	456,816.26	712,479.10	32° 15' 14.526 N	103° 38' 45.638 W	
- plan misses target center by 202.7usft at 12300.0usft MD (12222.3 TVD, 20.4 N, 523.8 E)										
- Circle (radius 50.0)										
LTP (BEDLINGTON F - plan misses target center by 0.1usft at 22561.5usft MD (12387.9 TVD, 10245.5 N, 472.7 E)	0.00	0.00	12,388.0	10,245.5	472.7	467,181.79	712,416.12	32° 16' 57.103 N	103° 38' 45.598 W	
- Point										
PBHL (BEDLINGTON - plan hits target center - Rectangle (sides W100.0 H10,415.0 D20.0)	-0.12	179.65	12,388.0	10,295.5	472.4	467,231.78	712,415.80	32° 16' 57.598 N	103° 38' 45.598 W	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
5500	5500	0	0	Start Build 2.00	
5741	5740	-3	10	Start 6061.8 hold at 5740.7 MD	
11,802	11,781	-170	490	Start DLS 10.00 TFO -109.46	
12,717	12,368	402	533	Start 9894.2 hold at 12717.4 MD	
22,612	12,388	10,296	472	TD at 22611.5	

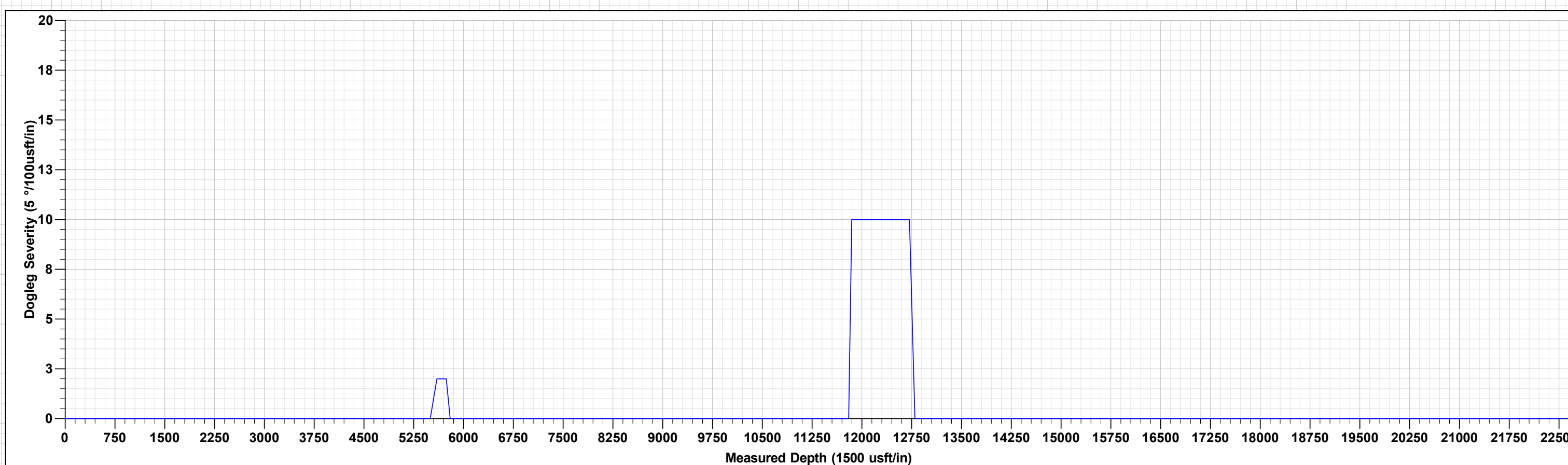
Checked By: _____ Approved By: _____ Date: _____



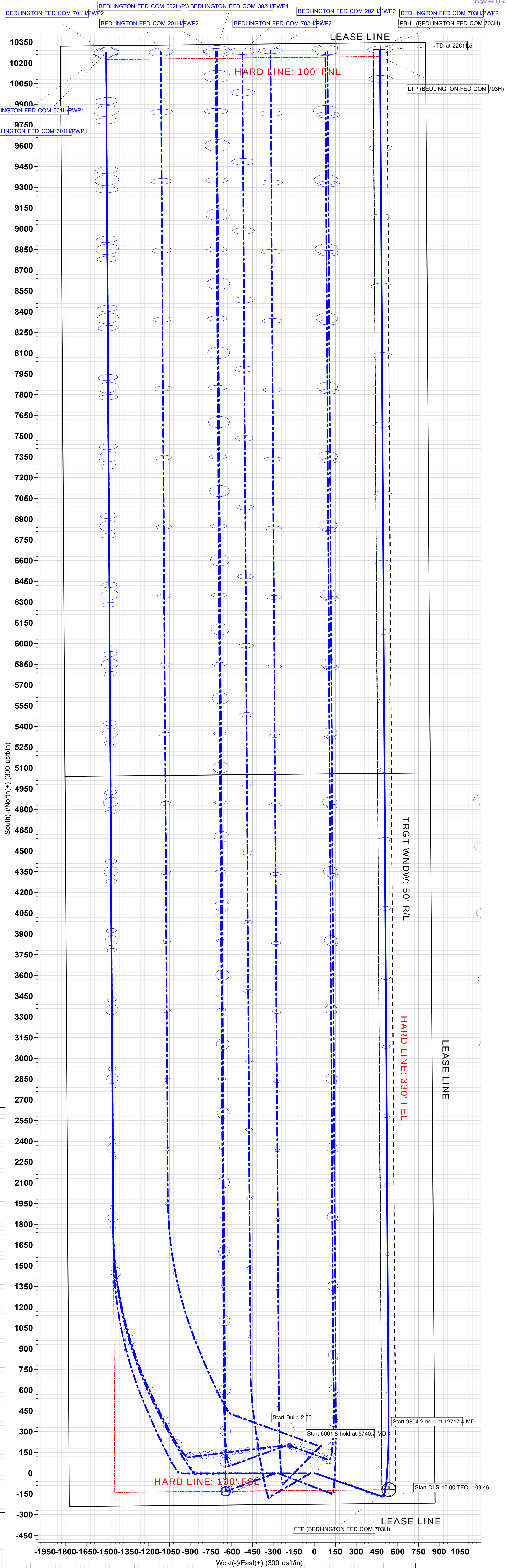
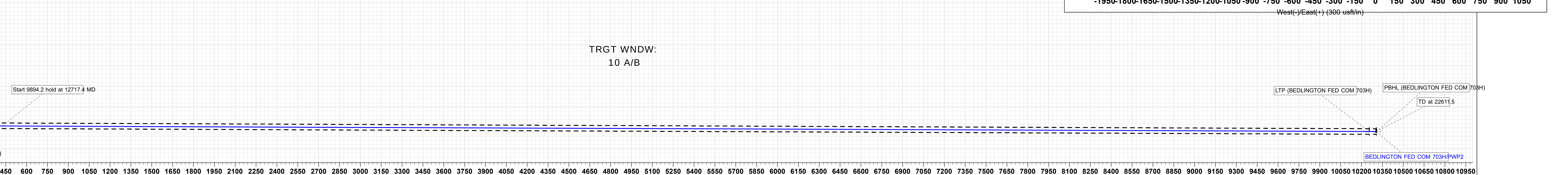
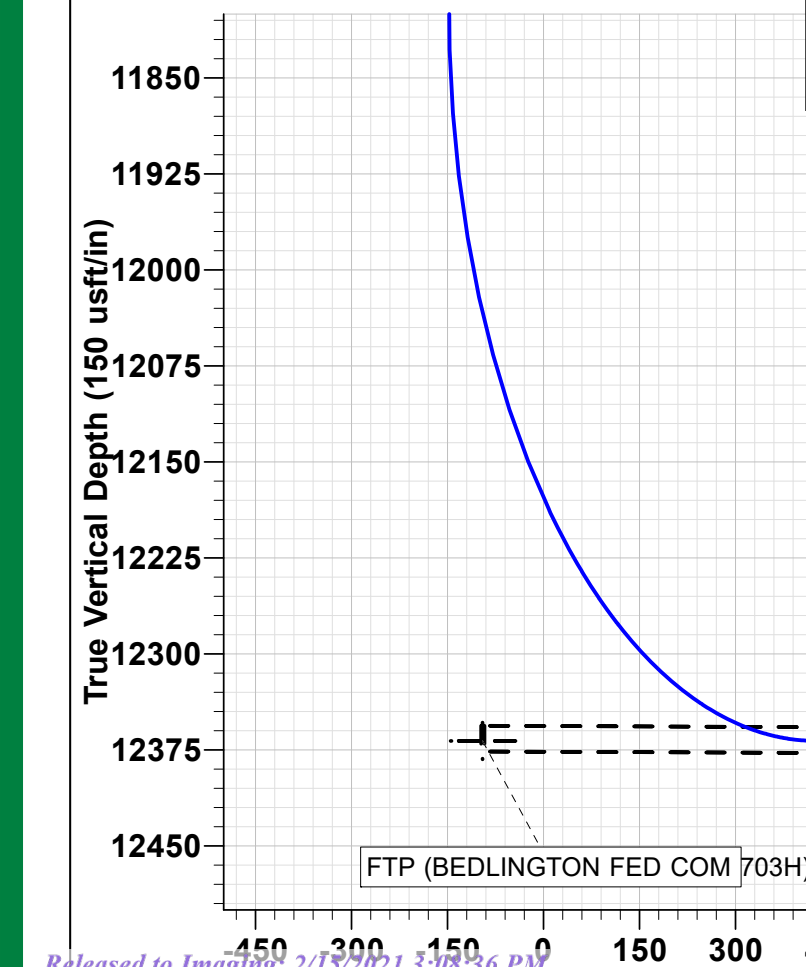
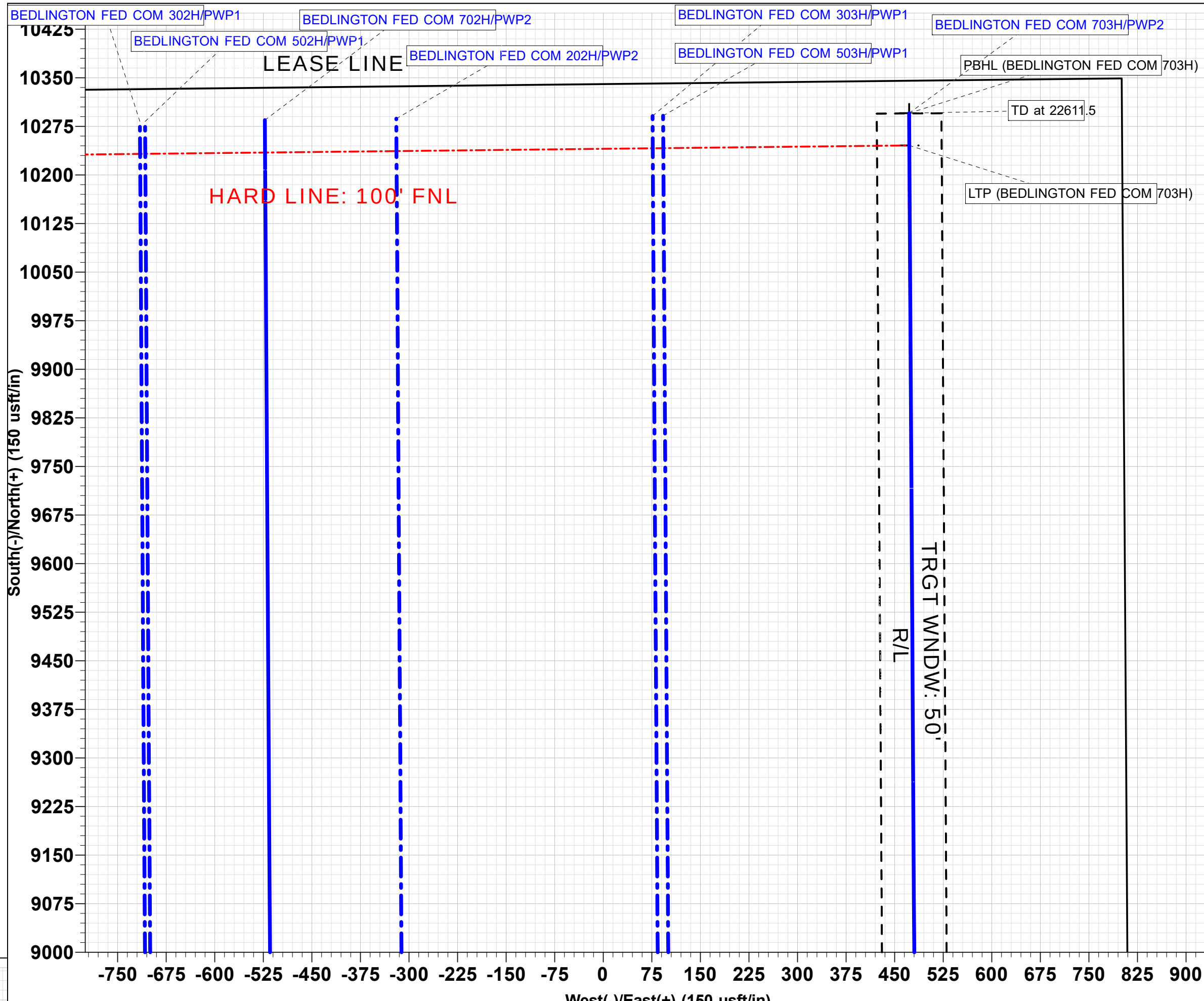
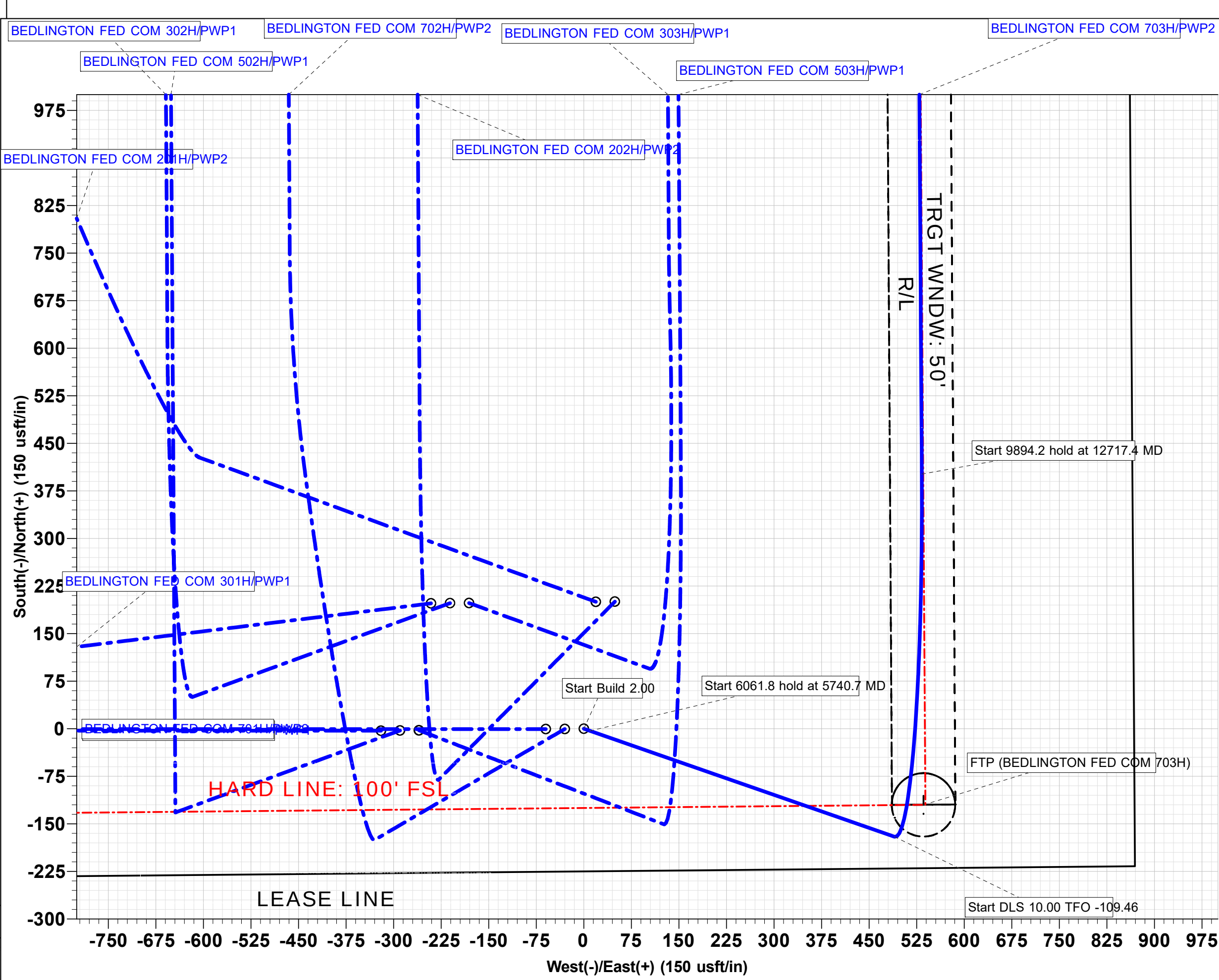
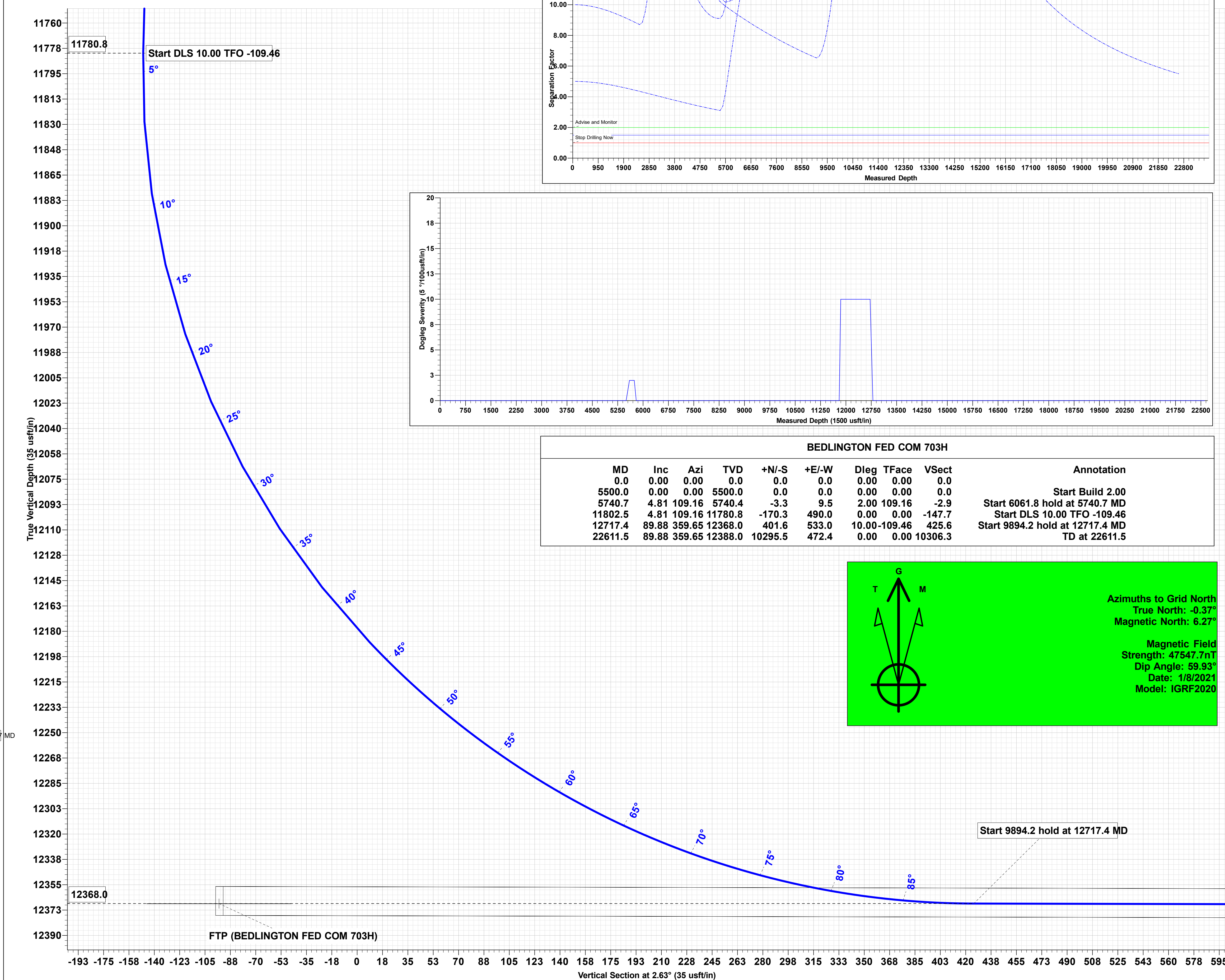
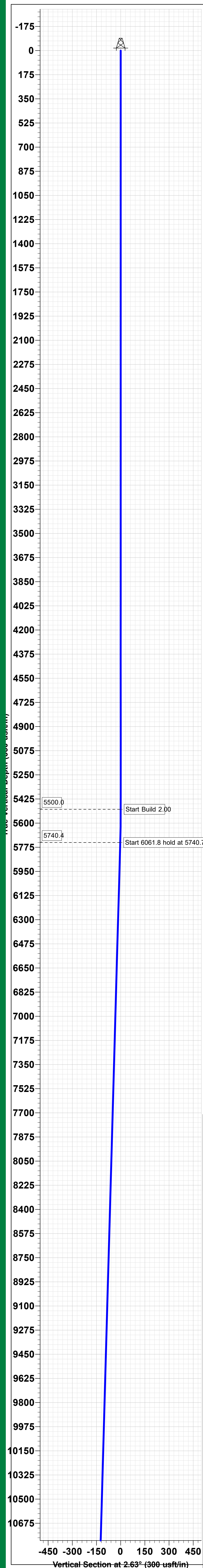
Project: BULLDOG PROSPECT (NM-E)
Site: BEDLINGTON FEDERAL PROJECT (BULLDOG 2332)
Well: BEDLINGTON FED COM 703H
Wellbore: OWB
Design: PWP2
GL: 3623.0
KB=26' @ 3649.0usft (McVay 8)

WELL DETAILS: BEDLINGTON FED COM 703H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	456936.27	711943.43	32° 15' 15.748 N	103° 38' 51.867 W

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
FTP (BEDLINGTON FED COM 703H)	12368.0	-120.0	535.7	456816.26	712479.11	32° 15' 14.526 N
LTP (BEDLINGTON FED COM 703H)	12388.0	10245.5	472.7	467181.79	712416.12	32° 16' 57.103 N
PBHL (BEDLINGTON FED COM 703H)	12388.0	10295.5	472.4	467231.78	712415.80	32° 16' 57.598 N



BEDLINGTON FED COM 703H									
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	
5500.0	0.00	0.00	5500.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
5740.7	4.81	109.16	5740.4	-3.3	9.5	2.00	109.16	-2.9	Start 6061.8 hold at 5740.7 MD
11802.5	4.81	109.16	11780.8	-170.3	490.0	0.00	0.00	-147.7	Start DLS 10.00 TFO -109.46
12717.4	89.88	359.65	12368.0	401.6	533.0	10.00	109.46	425.6	Start 9894.2 hold at 12717.4 MD
22611.5	89.88	359.65	12388.0	10295.5	472.4	0.00	0.00	10306.3	TD at 22611.5



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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 15838

CONDITIONS OF APPROVAL

Operator:	COG OPERATING LLC	600 W Illinois Ave	Midland, TX79701	OGRID:	229137	Action Number:	15838	Action Type:	C-103A
OCD Reviewer	Condition								
pkautz	None								