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District IV
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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

Form C-101
August 1, 2011

Permit 285678

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address		2. OGRID Number
COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701		229137
		3. API Number 30-015-47350
4. Property Code 328970	5. Property Name Boo Radley Com	6. Well No. 706H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
N	16	26S	28E	N	220	S	1400	W	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
E	33	26S	28E	5	200	S	550	W	Eddy

9. Pool Information

PURPLE SAGE;WOLFCAMP (GAS)	98220

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3036
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	22023	Wolfcamp		1/1/2021
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ **We will be using a closed-loop system in lieu of lined pits**

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	14.375	10.375	45.5	610	510	0
Int1	9.875	7.625	29.7	8730	1050	0
Prod	6.375	5.5	23	22023	1750	8230

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. **I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.** Signature:		**OIL CONSERVATION DIVISION**		
Printed Name:	Electronically filed by Diane Kuykendall	Approved By:	Scott Cox	
Title:	Production Accounting Director	Title:	Petroleum Engineer Supervisor	
Email Address:	dkuykendall@concho.com	Approved Date:	9/25/2020	Expiration Date: 9/25/2022
Date:	8/18/2020 Phone: 432-685-4372	Conditions of Approval Attached		

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Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015-	98220	Purple Sage; Wolfcamp (Gas)

Property Code	Property Name	Well Number
	BOO RADLEY COM	706H

OGRID No.	Operator Name	Elevation
229137	COG OPERATING, LLC	3036.6'

Surface Location

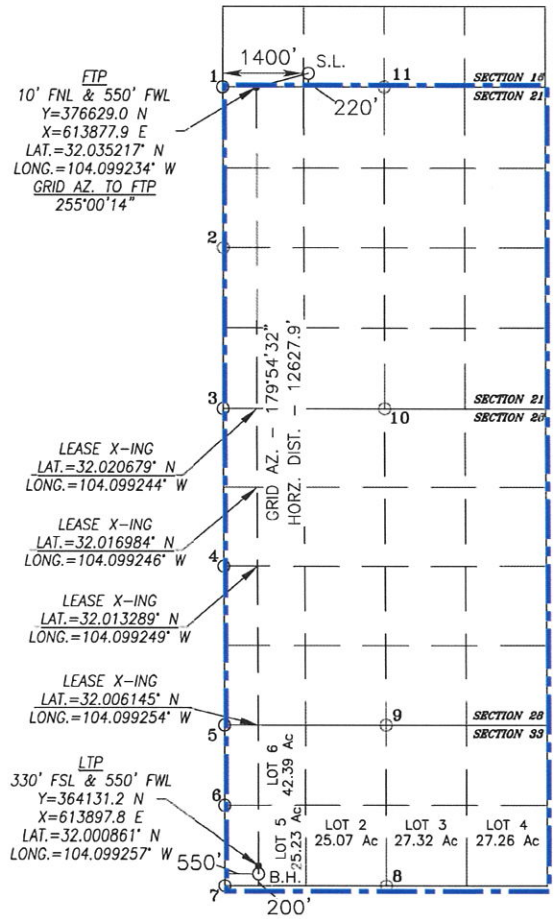
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	16	26-S	28-E		220	SOUTH	1400	WEST	EDDY

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
5	33	26-S	28-E		200	SOUTH	550	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
1547.27			

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



NAD 83 NME
SURFACE LOCATION
Y=376856.2 N
X=614726.0 E
LAT.=32.035837° N
LONG.=104.096495° W

POINT LEGEND	
1	Y=376640.8 N X=613327.9 E
2	Y=373994.3 N X=613329.4 E
3	Y=371341.9 N X=613334.9 E
4	Y=368648.2 N X=613339.0 E
5	Y=366056.4 N X=613343.5 E
6	Y=364641.9 N X=613346.7 E
7	Y=363800.2 N X=613348.4 E
8	Y=363811.4 N X=615965.2 E
9	Y=366042.7 N X=615960.0 E
10	Y=371335.2 N X=616078.1 E
11	Y=376631.8 N X=616063.7 E

NAD 83 NME
PROPOSED BOTTOM
HOLE LOCATION
Y=364001.2 N
X=613898.0 E
LAT.=32.000503° N
LONG.=104.099257° W

OPERATOR CERTIFICATION

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

Stan Wagner 8/18/20
Signature Date

Stan Wagner
Printed Name

E-mail Address

SURVEYOR CERTIFICATION

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

JULY 17, 2020
Date of Survey

Signature & Seal of Professional Surveyor

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 7/28/20

Certificate No. CHAD HARCROW 17777

W.O. # 20-960 DRAWN BY: AH

Intent [X] As Drilled [ ]

API #		
30-015		
Operator Name:	Property Name:	Well Number
COG Operating LLC	Boo Radley Com	706H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	16	26S	28E						Eddy
Latitude			Longitude						NAD
									83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
D	21	26S	28E		10	North	550	West	Eddy
Latitude			Longitude						NAD
32.035174			-104.090096						NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	33	26S	28E	5	330	South	550	West	Eddy
Latitude			Longitude						NAD
32.000861			-104.099257						NAD 83

Is this well the defining well for the Horizontal Spacing Unit? NO

Is 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 #		
30-015-		
Operator Name:	Property Name:	Well Number
COG Operating LLC	Boo Radley Com	704H

KZ 06/29/2018

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Oil Conservation Division
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Santa Fe, NM 87505

GAS CAPTURE PLAN

Date: 9/25/2020

☒ Original
☐ Amended - Reason for Amendment:

Operator & OGRID No.: [229137] COG OPERATING LLC

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Boo Radley Com #706H	30-015-47350	N-16-26S-28E	0220S 1400W	5700	None	Plant Located in Sec 35 Blk 57 T2 Cullberson County Texas

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to ETC FIELD SERVICES LLC and will be connected to ETC FIELD SERVICES LLC Low Pressure gathering system located in Eddy County, New Mexico. It will require 0' of pipeline to connect the facility to Low Pressure gathering system. COG OPERATING LLC provides (periodically) to ETC FIELD SERVICES LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, COG OPERATING LLC and ETC FIELD SERVICES LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at ETC FIELD SERVICES LLC Processing Plant located in Sec. 16, Twn. 26S, Rng. 28E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on ETC FIELD SERVICES LLC system at that time. Based on current information, it is COG OPERATING LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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1220 S. St Francis Dr.
Santa Fe, NM 87505

Form APD Comments

Permit 285678

PERMIT COMMENTS

Operator Name and Address:	API Number:
COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701	30-015-47350
	Well: Boo Radley Com #706H

Created By	Comment	Comment Date

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Oil Conservation Division
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Santa Fe, NM 87505

Form APD Conditions

Permit 285678

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701	30-015-47350
	Well: Boo Radley Com #706H

OCD Reviewer	Condition
ksimmons	Will require a directional survey with the C-104
ksimmons	Cement is required to circulate on both surface and intermediate1 strings of casing
ksimmons	Will require a administrative order for non-standard location prior to placing the well on production.
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days

Boo Radley Com 706H

Casing and Cement

String	Hole Size	Csg OD	PPF	Depth	Sx Cement	TOC
Surface	14 3/4”	10 3/4”	45.5#	610’	510	0’
Intermediate	9-7/8”	7-5/8”	29.7#	8,730’	1,050	0’
Production	6-3/4”	5-1/2”	23#	22,023’	1,750	8,230’

Well Plan

Drill 14-3/4” hole to ~610’ w/ fresh water. Run 10-3/4” 45.5# J-55 BTC casing to TD and cement to surface in one stage.

Drill 9-7/8” hole to ~8,730’ with cut brine emulsion. Run 7-5/8 29.7# L-80 BTC to TD and cement to surface in one stage.

Drill 6-3/4” vertical hole, curve & lateral to 22,023’ with OBM. Run 5-1/2” 23# P110 Talon HTQ casing from TD to surface and cement to 8,230’ in one stage.

Well Control

Type	Working Pressure	Test Pressure	Manufacture
Double Ram	5000 psi	5000 psi	Cameron

CONCHO

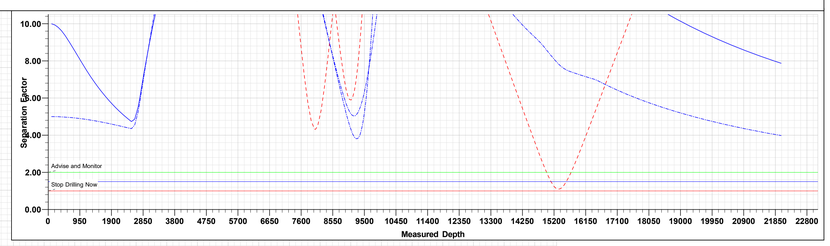
Project:	ATLAS PROSPECT (NM-E)
Site:	BOO RADLEY COM PROJECT
Well:	BOO RADLEY COM #706H
Wellbore:	OWB
Design:	PWP1
GL:	3036.6
*KB=30' @ 3066.6usft (TBD)	

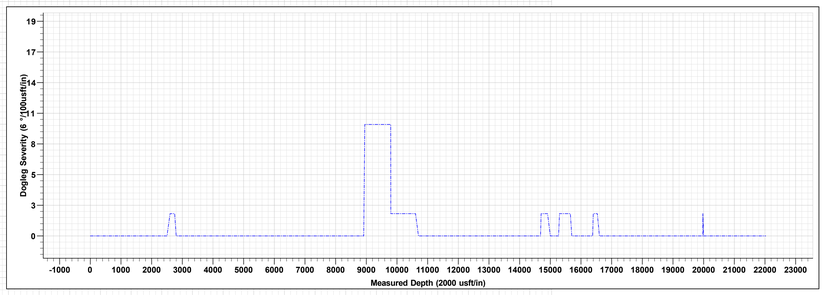
WELL DETAILS: BOO RADLEY COM #706H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	376799.00	573541.30	32° 2' 8.567 N	104° 5' 45.627 W

DESIGN TARGET DETAILS

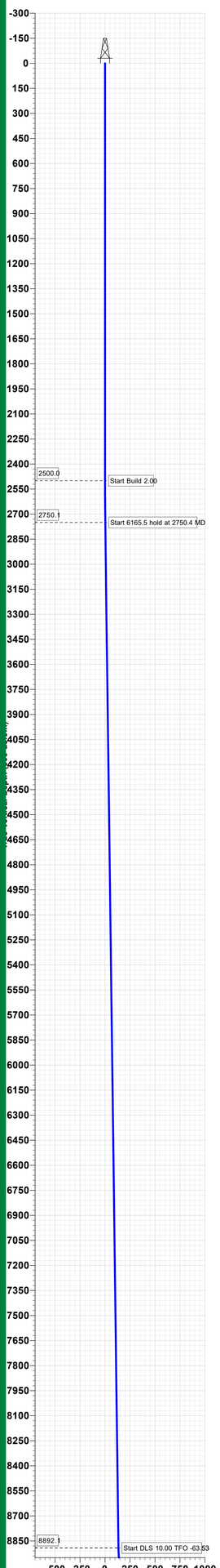
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LTP (BOO RADLEY COM #706H)	9386.0	-12724.8	-828.5	364074.20	572712.80	32° 0' 2.652 N	104° 5' 55.573 W
PBHL (BOO RADLEY COM #706H)	9386.0	-12854.8	-828.3	363944.20	572713.00	32° 0' 1.365 N	104° 5' 55.574 W
T3 (BOO RADLEY COM #706H)	9395.2	-10802.5	-832.7	365996.54	572708.57	32° 0' 21.677 N	104° 5' 55.574 W
T2 (BOO RADLEY COM #706H)	9416.3	-6100.0	-802.0	370699.00	572739.30	32° 1' 8.215 N	104° 5' 55.098 W
T1 (BOO RADLEY COM #706H)	9419.0	-5515.5	-841.3	371283.48	572700.03	32° 1' 14.000 N	104° 5' 55.540 W
FTP (BOO RADLEY COM #706H)	9441.0	-227.2	-848.1	376571.80	572693.20	32° 2' 6.336 N	104° 5' 55.486 W

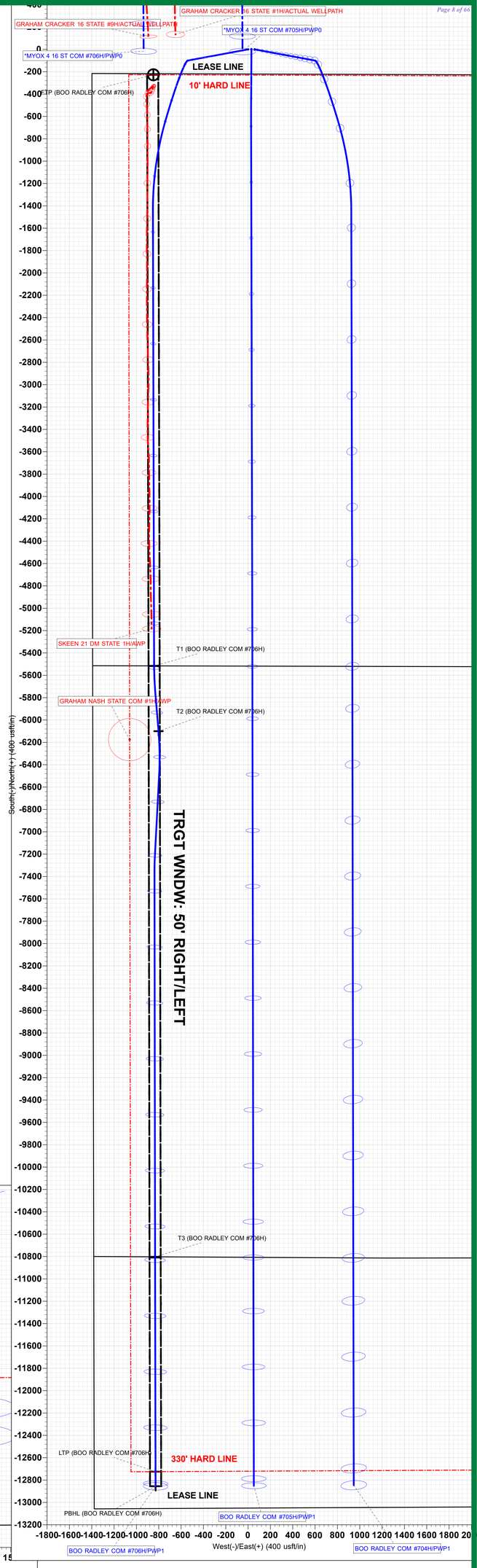


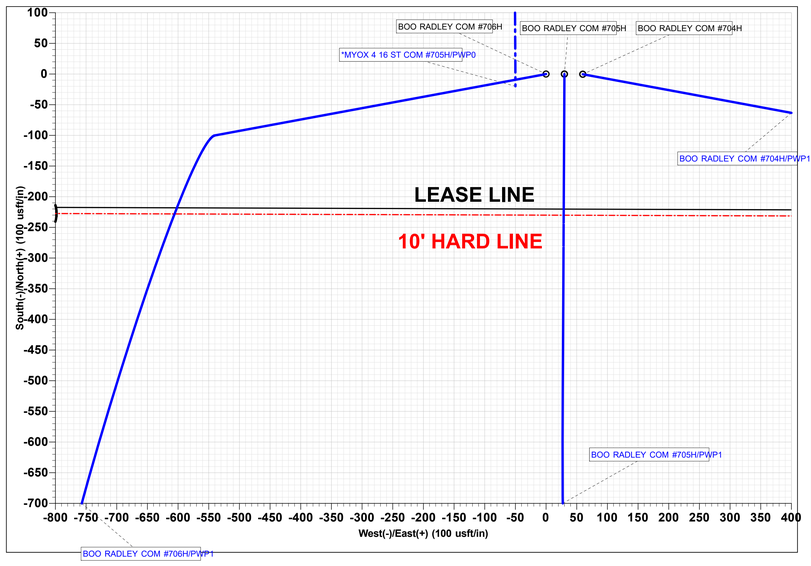


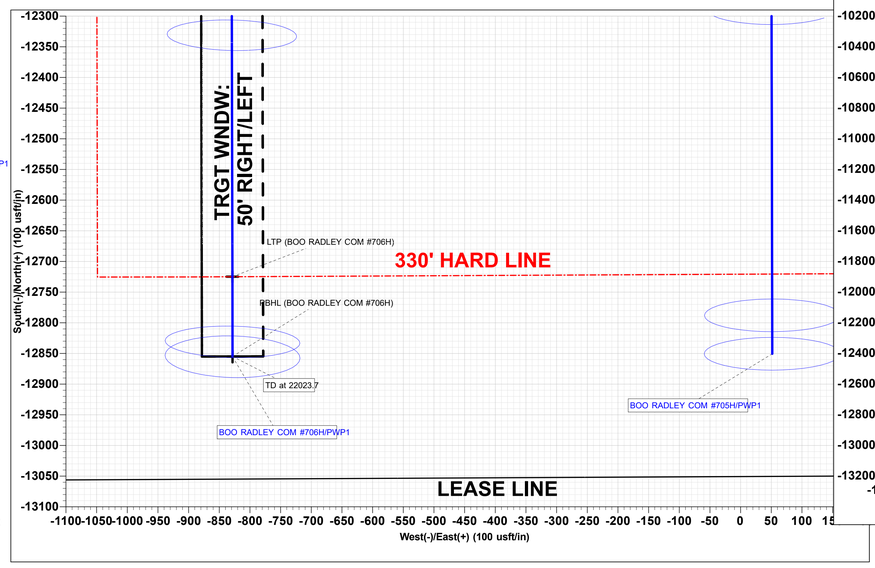
BOO RADLEY COM #706H

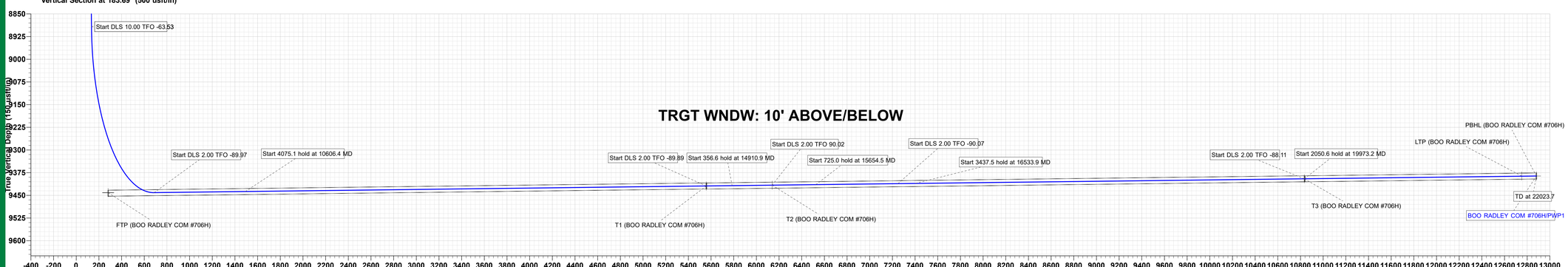
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2750.4	5.01	259.51	2750.1	-2.0	-10.8	2.00	259.51	2.7	Start 6165.5 hold at 2750.4 MD
8916.0	5.01	259.51	8892.1	-100.0	-540.0	0.00	0.00	134.5	Start DLS 10.00 TFO -63.53
9796.2	90.26	196.05	9441.0	-640.7	-740.5	10.00	-63.53	687.0	Start DLS 2.00 TFO -89.97
10606.4	90.26	179.85	9437.3	-1440.5	-852.2	2.00	-89.97	1492.3	Start 4075.1 hold at 10606.4 MD
14681.5	90.26	179.85	9419.0	-5515.5	-841.3	0.00	0.00	5558.2	Start DLS 2.00 TFO -89.89
14910.9	90.27	175.26	9418.0	-5744.6	-831.5	2.00	-89.89	5786.2	Start 356.6 hold at 14910.9 MD
15267.5	90.27	175.26	9416.3	-6100.0	-802.0	0.00	0.00	6138.9	Start DLS 2.00 TFO 90.02
15654.5	90.26	183.00	9414.5	-6486.7	-796.1	2.00	90.02	6524.5	Start 725.0 hold at 15654.5 MD
16379.5	90.26	183.00	9411.2	-7210.7	-834.1	0.00	0.00	7249.4	Start DLS 2.00 TFO -90.07
16533.9	90.26	179.91	9410.5	-7365.0	-838.0	2.00	-90.07	7403.7	Start 3437.5 hold at 16533.9 MD
19971.4	90.26	179.91	9395.2	-10802.5	-832.7	0.00	0.00	10833.7	Start DLS 2.00 TFO -88.11
19973.2	90.26	179.88	9395.2	-10804.3	-832.7	2.00	-88.11	10835.5	Start 2050.6 hold at 19973.2 MD
22023.7	90.26	179.88	9386.0	-12854.8	-828.3	0.00	0.00	12881.5	TD at 22023.7

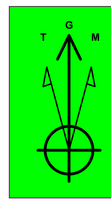












Azimuths to Grid North
True North: -0.13°
Magnetic North: 6.76°

Magnetic Field
Strength: 47429.3nT
Dip Angle: 59.68°
Date: 7/2/2020
Model: IGRF2020

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)
BOO RADLEY COM PROJECT
BOO RADLEY COM #706H

OWB

Plan: PWP1

Standard Survey Report

12 August, 2020

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Well:	BOO RADLEY COM #706H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP1	**Database:**	edm

Project ATLAS 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 BOO RADLEY COM #706H

Well Position	**+N/-S**	0.0 usft	**Northing:**	376,799.00 usft	**Latitude:**	32° 2' 8.567 N
	+E/-W	0.0 usft	**Easting:**	573,541.30 usft	**Longitude:**	104° 5' 45.627 W
Position Uncertainty		3.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,036.6 usft

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	7/2/2020	6.88	59.68	47,429.26548669

Design PWP1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	183.69

Survey Tool Program **Date** 8/12/2020

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	8,916.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
8,916.0	22,023.7	PWP1 (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
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Well:	BOO RADLEY COM #706H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP1	**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)
1,500.0	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
Start Build 2.00									
2,600.0	2.00	259.51	2,600.0	-0.3	-1.7	0.4	2.00	2.00	0.00
2,700.0	4.00	259.51	2,699.8	-1.3	-6.9	1.7	2.00	2.00	0.00
2,750.4	5.01	259.51	2,750.1	-2.0	-10.8	2.7	2.00	2.00	0.00
Start 6165.5 hold at 2750.4 MD									
2,800.0	5.01	259.51	2,799.5	-2.8	-15.0	3.7	0.00	0.00	0.00
2,900.0	5.01	259.51	2,899.1	-4.4	-23.6	5.9	0.00	0.00	0.00
3,000.0	5.01	259.51	2,998.7	-6.0	-32.2	8.0	0.00	0.00	0.00
3,100.0	5.01	259.51	3,098.3	-7.5	-40.8	10.2	0.00	0.00	0.00
3,200.0	5.01	259.51	3,198.0	-9.1	-49.3	12.3	0.00	0.00	0.00
3,300.0	5.01	259.51	3,297.6	-10.7	-57.9	14.4	0.00	0.00	0.00
3,400.0	5.01	259.51	3,397.2	-12.3	-66.5	16.6	0.00	0.00	0.00
3,500.0	5.01	259.51	3,496.8	-13.9	-75.1	18.7	0.00	0.00	0.00
3,600.0	5.01	259.51	3,596.4	-15.5	-83.7	20.8	0.00	0.00	0.00
3,700.0	5.01	259.51	3,696.1	-17.1	-92.3	23.0	0.00	0.00	0.00
3,800.0	5.01	259.51	3,795.7	-18.7	-100.9	25.1	0.00	0.00	0.00
3,900.0	5.01	259.51	3,895.3	-20.3	-109.4	27.3	0.00	0.00	0.00
4,000.0	5.01	259.51	3,994.9	-21.9	-118.0	29.4	0.00	0.00	0.00
4,100.0	5.01	259.51	4,094.5	-23.4	-126.6	31.5	0.00	0.00	0.00
4,200.0	5.01	259.51	4,194.1	-25.0	-135.2	33.7	0.00	0.00	0.00
4,300.0	5.01	259.51	4,293.8	-26.6	-143.8	35.8	0.00	0.00	0.00
4,400.0	5.01	259.51	4,393.4	-28.2	-152.4	38.0	0.00	0.00	0.00
4,500.0	5.01	259.51	4,493.0	-29.8	-160.9	40.1	0.00	0.00	0.00
4,600.0	5.01	259.51	4,592.6	-31.4	-169.5	42.2	0.00	0.00	0.00
4,700.0	5.01	259.51	4,692.2	-33.0	-178.1	44.4	0.00	0.00	0.00
4,800.0	5.01	259.51	4,791.9	-34.6	-186.7	46.5	0.00	0.00	0.00
4,900.0	5.01	259.51	4,891.5	-36.2	-195.3	48.6	0.00	0.00	0.00
5,000.0	5.01	259.51	4,991.1	-37.8	-203.9	50.8	0.00	0.00	0.00
5,100.0	5.01	259.51	5,090.7	-39.3	-212.4	52.9	0.00	0.00	0.00
5,200.0	5.01	259.51	5,190.3	-40.9	-221.0	55.1	0.00	0.00	0.00
5,300.0	5.01	259.51	5,289.9	-42.5	-229.6	57.2	0.00	0.00	0.00
5,400.0	5.01	259.51	5,389.6	-44.1	-238.2	59.3	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Well:	BOO RADLEY COM #706H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP1	**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)
5,500.0	5.01	259.51	5,489.2	-45.7	-246.8	61.5	0.00	0.00	0.00
5,600.0	5.01	259.51	5,588.8	-47.3	-255.4	63.6	0.00	0.00	0.00
5,700.0	5.01	259.51	5,688.4	-48.9	-263.9	65.7	0.00	0.00	0.00
5,800.0	5.01	259.51	5,788.0	-50.5	-272.5	67.9	0.00	0.00	0.00
5,900.0	5.01	259.51	5,887.7	-52.1	-281.1	70.0	0.00	0.00	0.00
6,000.0	5.01	259.51	5,987.3	-53.6	-289.7	72.2	0.00	0.00	0.00
6,100.0	5.01	259.51	6,086.9	-55.2	-298.3	74.3	0.00	0.00	0.00
6,200.0	5.01	259.51	6,186.5	-56.8	-306.9	76.4	0.00	0.00	0.00
6,300.0	5.01	259.51	6,286.1	-58.4	-315.4	78.6	0.00	0.00	0.00
6,400.0	5.01	259.51	6,385.7	-60.0	-324.0	80.7	0.00	0.00	0.00
6,500.0	5.01	259.51	6,485.4	-61.6	-332.6	82.9	0.00	0.00	0.00
6,600.0	5.01	259.51	6,585.0	-63.2	-341.2	85.0	0.00	0.00	0.00
6,700.0	5.01	259.51	6,684.6	-64.8	-349.8	87.1	0.00	0.00	0.00
6,800.0	5.01	259.51	6,784.2	-66.4	-358.4	89.3	0.00	0.00	0.00
6,900.0	5.01	259.51	6,883.8	-68.0	-367.0	91.4	0.00	0.00	0.00
7,000.0	5.01	259.51	6,983.5	-69.5	-375.5	93.5	0.00	0.00	0.00
7,100.0	5.01	259.51	7,083.1	-71.1	-384.1	95.7	0.00	0.00	0.00
7,200.0	5.01	259.51	7,182.7	-72.7	-392.7	97.8	0.00	0.00	0.00
7,300.0	5.01	259.51	7,282.3	-74.3	-401.3	100.0	0.00	0.00	0.00
7,400.0	5.01	259.51	7,381.9	-75.9	-409.9	102.1	0.00	0.00	0.00
7,500.0	5.01	259.51	7,481.5	-77.5	-418.5	104.2	0.00	0.00	0.00
7,600.0	5.01	259.51	7,581.2	-79.1	-427.0	106.4	0.00	0.00	0.00
7,700.0	5.01	259.51	7,680.8	-80.7	-435.6	108.5	0.00	0.00	0.00
7,800.0	5.01	259.51	7,780.4	-82.3	-444.2	110.7	0.00	0.00	0.00
7,900.0	5.01	259.51	7,880.0	-83.9	-452.8	112.8	0.00	0.00	0.00
8,000.0	5.01	259.51	7,979.6	-85.4	-461.4	114.9	0.00	0.00	0.00
8,100.0	5.01	259.51	8,079.3	-87.0	-470.0	117.1	0.00	0.00	0.00
8,200.0	5.01	259.51	8,178.9	-88.6	-478.5	119.2	0.00	0.00	0.00
8,300.0	5.01	259.51	8,278.5	-90.2	-487.1	121.3	0.00	0.00	0.00
8,400.0	5.01	259.51	8,378.1	-91.8	-495.7	123.5	0.00	0.00	0.00
8,500.0	5.01	259.51	8,477.7	-93.4	-504.3	125.6	0.00	0.00	0.00
8,600.0	5.01	259.51	8,577.3	-95.0	-512.9	127.8	0.00	0.00	0.00
8,700.0	5.01	259.51	8,677.0	-96.6	-521.5	129.9	0.00	0.00	0.00
8,800.0	5.01	259.51	8,776.6	-98.2	-530.0	132.0	0.00	0.00	0.00
8,900.0	5.01	259.51	8,876.2	-99.7	-538.6	134.2	0.00	0.00	0.00
8,916.0	5.01	259.51	8,892.1	-100.0	-540.0	134.5	0.00	0.00	0.00
Start DLS 10.00 TFO -63.53									
9,000.0	11.54	218.65	8,975.3	-107.2	-548.9	142.3	10.00	7.77	-48.61
9,100.0	21.10	207.79	9,071.2	-131.0	-563.5	167.0	10.00	9.56	-10.86
9,200.0	30.94	203.59	9,160.9	-170.6	-582.3	207.7	10.00	9.83	-4.20
9,300.0	40.85	201.27	9,241.8	-224.8	-604.5	263.2	10.00	9.91	-2.31
9,400.0	50.79	199.74	9,311.5	-291.9	-629.5	331.8	10.00	9.94	-1.53
9,500.0	60.74	198.59	9,367.6	-369.9	-656.5	411.4	10.00	9.95	-1.15
9,600.0	70.70	197.64	9,408.7	-456.4	-684.8	499.5	10.00	9.96	-0.94

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Well:	BOO RADLEY COM #706H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP1	**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)
9,700.0	80.67	196.81	9,433.4	-548.9	-713.5	593.6	10.00	9.97	-0.83
9,796.2	90.26	196.05	9,441.0	-640.7	-740.5	687.0	10.00	9.97	-0.79
Start DLS 2.00 TFO -89.97									
9,800.0	90.26	195.97	9,441.0	-644.4	-741.6	690.8	2.00	0.00	-2.00
9,900.0	90.26	193.97	9,440.5	-741.0	-767.4	788.8	2.00	0.00	-2.00
10,000.0	90.26	191.97	9,440.1	-838.4	-789.9	887.5	2.00	0.00	-2.00
10,100.0	90.26	189.97	9,439.6	-936.6	-808.9	986.7	2.00	0.00	-2.00
10,200.0	90.26	187.97	9,439.2	-1,035.4	-824.5	1,086.3	2.00	0.00	-2.00
10,300.0	90.26	185.97	9,438.7	-1,134.6	-836.7	1,186.1	2.00	0.00	-2.00
10,400.0	90.26	183.97	9,438.3	-1,234.2	-845.3	1,286.1	2.00	0.00	-2.00
10,500.0	90.26	181.97	9,437.8	-1,334.1	-850.5	1,386.0	2.00	0.00	-2.00
10,600.0	90.26	179.97	9,437.3	-1,434.1	-852.2	1,485.9	2.00	0.00	-2.00
10,606.4	90.26	179.85	9,437.3	-1,440.5	-852.2	1,492.3	2.00	0.00	-2.00
Start 4075.1 hold at 10606.4 MD									
10,700.0	90.26	179.85	9,436.9	-1,534.1	-852.0	1,585.7	0.00	0.00	0.00
10,800.0	90.26	179.85	9,436.4	-1,634.1	-851.7	1,685.5	0.00	0.00	0.00
10,900.0	90.26	179.85	9,436.0	-1,734.1	-851.4	1,785.2	0.00	0.00	0.00
11,000.0	90.26	179.85	9,435.5	-1,834.1	-851.1	1,885.0	0.00	0.00	0.00
11,100.0	90.26	179.85	9,435.1	-1,934.1	-850.9	1,984.8	0.00	0.00	0.00
11,200.0	90.26	179.85	9,434.6	-2,034.1	-850.6	2,084.6	0.00	0.00	0.00
11,300.0	90.26	179.85	9,434.2	-2,134.1	-850.3	2,184.3	0.00	0.00	0.00
11,400.0	90.26	179.85	9,433.8	-2,234.1	-850.1	2,284.1	0.00	0.00	0.00
11,500.0	90.26	179.85	9,433.3	-2,334.1	-849.8	2,383.9	0.00	0.00	0.00
11,600.0	90.26	179.85	9,432.9	-2,434.1	-849.5	2,483.7	0.00	0.00	0.00
11,700.0	90.26	179.85	9,432.4	-2,534.1	-849.3	2,583.4	0.00	0.00	0.00
11,800.0	90.26	179.85	9,432.0	-2,634.1	-849.0	2,683.2	0.00	0.00	0.00
11,900.0	90.26	179.85	9,431.5	-2,734.1	-848.7	2,783.0	0.00	0.00	0.00
12,000.0	90.26	179.85	9,431.1	-2,834.1	-848.5	2,882.8	0.00	0.00	0.00
12,100.0	90.26	179.85	9,430.6	-2,934.1	-848.2	2,982.5	0.00	0.00	0.00
12,200.0	90.26	179.85	9,430.2	-3,034.1	-847.9	3,082.3	0.00	0.00	0.00
12,300.0	90.26	179.85	9,429.7	-3,134.1	-847.7	3,182.1	0.00	0.00	0.00
12,400.0	90.26	179.85	9,429.3	-3,234.1	-847.4	3,281.9	0.00	0.00	0.00
12,500.0	90.26	179.85	9,428.8	-3,334.1	-847.1	3,381.6	0.00	0.00	0.00
12,600.0	90.26	179.85	9,428.4	-3,434.1	-846.9	3,481.4	0.00	0.00	0.00
12,700.0	90.26	179.85	9,427.9	-3,534.1	-846.6	3,581.2	0.00	0.00	0.00
12,800.0	90.26	179.85	9,427.5	-3,634.1	-846.3	3,681.0	0.00	0.00	0.00
12,900.0	90.26	179.85	9,427.0	-3,734.1	-846.0	3,780.7	0.00	0.00	0.00
13,000.0	90.26	179.85	9,426.6	-3,834.1	-845.8	3,880.5	0.00	0.00	0.00
13,100.0	90.26	179.85	9,426.1	-3,934.1	-845.5	3,980.3	0.00	0.00	0.00
13,200.0	90.26	179.85	9,425.7	-4,034.1	-845.2	4,080.1	0.00	0.00	0.00
13,300.0	90.26	179.85	9,425.2	-4,134.1	-845.0	4,179.8	0.00	0.00	0.00
13,400.0	90.26	179.85	9,424.8	-4,234.0	-844.7	4,279.6	0.00	0.00	0.00
13,500.0	90.26	179.85	9,424.3	-4,334.0	-844.4	4,379.4	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Well:	BOO RADLEY COM #706H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP1	**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)
13,600.0	90.26	179.85	9,423.9	-4,434.0	-844.2	4,479.2	0.00	0.00	0.00
13,700.0	90.26	179.85	9,423.4	-4,534.0	-843.9	4,578.9	0.00	0.00	0.00
13,800.0	90.26	179.85	9,423.0	-4,634.0	-843.6	4,678.7	0.00	0.00	0.00
13,900.0	90.26	179.85	9,422.5	-4,734.0	-843.4	4,778.5	0.00	0.00	0.00
14,000.0	90.26	179.85	9,422.1	-4,834.0	-843.1	4,878.3	0.00	0.00	0.00
14,100.0	90.26	179.85	9,421.6	-4,934.0	-842.8	4,978.0	0.00	0.00	0.00
14,200.0	90.26	179.85	9,421.2	-5,034.0	-842.6	5,077.8	0.00	0.00	0.00
14,300.0	90.26	179.85	9,420.7	-5,134.0	-842.3	5,177.6	0.00	0.00	0.00
14,400.0	90.26	179.85	9,420.3	-5,234.0	-842.0	5,277.3	0.00	0.00	0.00
14,500.0	90.26	179.85	9,419.8	-5,334.0	-841.8	5,377.1	0.00	0.00	0.00
14,600.0	90.26	179.85	9,419.4	-5,434.0	-841.5	5,476.9	0.00	0.00	0.00
14,681.5	90.26	179.85	9,419.0	-5,515.5	-841.3	5,558.2	0.00	0.00	0.00
Start DLS 2.00 TFO -89.89									
14,700.0	90.26	179.48	9,418.9	-5,534.0	-841.2	5,576.7	2.00	0.00	-2.00
14,800.0	90.26	177.48	9,418.5	-5,634.0	-838.5	5,676.2	2.00	0.00	-2.00
14,900.0	90.27	175.48	9,418.0	-5,733.8	-832.4	5,775.5	2.00	0.00	-2.00
14,910.9	90.27	175.26	9,418.0	-5,744.6	-831.5	5,786.2	2.00	0.00	-2.00
Start 356.6 hold at 14910.9 MD									
15,000.0	90.27	175.26	9,417.5	-5,833.5	-824.1	5,874.4	0.00	0.00	0.00
15,100.0	90.27	175.26	9,417.1	-5,933.1	-815.8	5,973.3	0.00	0.00	0.00
15,200.0	90.27	175.26	9,416.6	-6,032.8	-807.6	6,072.2	0.00	0.00	0.00
15,267.5	90.27	175.26	9,416.3	-6,100.0	-802.0	6,138.9	0.00	0.00	0.00
Start DLS 2.00 TFO 90.02									
15,300.0	90.27	175.91	9,416.1	-6,132.4	-799.5	6,171.2	2.00	0.00	2.00
15,400.0	90.26	177.91	9,415.7	-6,232.3	-794.1	6,270.5	2.00	0.00	2.00
15,500.0	90.26	179.91	9,415.2	-6,332.3	-792.2	6,370.1	2.00	0.00	2.00
15,600.0	90.26	181.91	9,414.8	-6,432.2	-793.8	6,470.0	2.00	0.00	2.00
15,654.5	90.26	183.00	9,414.5	-6,486.7	-796.1	6,524.5	2.00	0.00	2.00
Start 725.0 hold at 15654.5 MD									
15,700.0	90.26	183.00	9,414.3	-6,532.1	-798.5	6,570.0	0.00	0.00	0.00
15,800.0	90.26	183.00	9,413.9	-6,632.0	-803.7	6,669.9	0.00	0.00	0.00
15,900.0	90.26	183.00	9,413.4	-6,731.9	-809.0	6,769.9	0.00	0.00	0.00
16,000.0	90.26	183.00	9,413.0	-6,831.7	-814.2	6,869.9	0.00	0.00	0.00
16,100.0	90.26	183.00	9,412.5	-6,931.6	-819.4	6,969.9	0.00	0.00	0.00
16,200.0	90.26	183.00	9,412.0	-7,031.4	-824.7	7,069.9	0.00	0.00	0.00
16,300.0	90.26	183.00	9,411.6	-7,131.3	-829.9	7,169.9	0.00	0.00	0.00
16,379.5	90.26	183.00	9,411.2	-7,210.7	-834.1	7,249.4	0.00	0.00	0.00
Start DLS 2.00 TFO -90.07									
16,400.0	90.26	182.59	9,411.1	-7,231.2	-835.1	7,269.9	2.00	0.00	-2.00
16,500.0	90.26	180.59	9,410.7	-7,331.1	-837.8	7,369.8	2.00	0.00	-2.00
16,533.9	90.26	179.91	9,410.5	-7,365.0	-838.0	7,403.7	2.00	0.00	-2.00
Start 3437.5 hold at 16533.9 MD									
16,600.0	90.26	179.91	9,410.2	-7,431.1	-837.9	7,469.6	0.00	0.00	0.00
16,700.0	90.26	179.91	9,409.8	-7,531.1	-837.7	7,569.4	0.00	0.00	0.00
16,800.0	90.26	179.91	9,409.4	-7,631.1	-837.6	7,669.2	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Well:	BOO RADLEY COM #706H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP1	**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)
16,900.0	90.26	179.91	9,408.9	-7,731.1	-837.4	7,769.0	0.00	0.00	0.00
17,000.0	90.26	179.91	9,408.5	-7,831.1	-837.3	7,868.7	0.00	0.00	0.00
17,100.0	90.26	179.91	9,408.0	-7,931.1	-837.1	7,968.5	0.00	0.00	0.00
17,200.0	90.26	179.91	9,407.6	-8,031.1	-837.0	8,068.3	0.00	0.00	0.00
17,300.0	90.26	179.91	9,407.1	-8,131.1	-836.8	8,168.1	0.00	0.00	0.00
17,400.0	90.26	179.91	9,406.7	-8,231.1	-836.7	8,267.9	0.00	0.00	0.00
17,500.0	90.26	179.91	9,406.2	-8,331.1	-836.5	8,367.7	0.00	0.00	0.00
17,600.0	90.26	179.91	9,405.8	-8,431.1	-836.4	8,467.4	0.00	0.00	0.00
17,700.0	90.26	179.91	9,405.3	-8,531.1	-836.2	8,567.2	0.00	0.00	0.00
17,800.0	90.26	179.91	9,404.9	-8,631.1	-836.1	8,667.0	0.00	0.00	0.00
17,900.0	90.26	179.91	9,404.4	-8,731.1	-835.9	8,766.8	0.00	0.00	0.00
18,000.0	90.26	179.91	9,404.0	-8,831.1	-835.7	8,866.6	0.00	0.00	0.00
18,100.0	90.26	179.91	9,403.5	-8,931.1	-835.6	8,966.4	0.00	0.00	0.00
18,200.0	90.26	179.91	9,403.1	-9,031.1	-835.4	9,066.1	0.00	0.00	0.00
18,300.0	90.26	179.91	9,402.7	-9,131.1	-835.3	9,165.9	0.00	0.00	0.00
18,400.0	90.26	179.91	9,402.2	-9,231.1	-835.1	9,265.7	0.00	0.00	0.00
18,500.0	90.26	179.91	9,401.8	-9,331.1	-835.0	9,365.5	0.00	0.00	0.00
18,600.0	90.26	179.91	9,401.3	-9,431.1	-834.8	9,465.3	0.00	0.00	0.00
18,700.0	90.26	179.91	9,400.9	-9,531.1	-834.7	9,565.0	0.00	0.00	0.00
18,800.0	90.26	179.91	9,400.4	-9,631.1	-834.5	9,664.8	0.00	0.00	0.00
18,900.0	90.26	179.91	9,400.0	-9,731.1	-834.4	9,764.6	0.00	0.00	0.00
19,000.0	90.26	179.91	9,399.5	-9,831.1	-834.2	9,864.4	0.00	0.00	0.00
19,100.0	90.26	179.91	9,399.1	-9,931.1	-834.1	9,964.2	0.00	0.00	0.00
19,200.0	90.26	179.91	9,398.6	-10,031.1	-833.9	10,064.0	0.00	0.00	0.00
19,300.0	90.26	179.91	9,398.2	-10,131.1	-833.8	10,163.7	0.00	0.00	0.00
19,400.0	90.26	179.91	9,397.7	-10,231.1	-833.6	10,263.5	0.00	0.00	0.00
19,500.0	90.26	179.91	9,397.3	-10,331.1	-833.5	10,363.3	0.00	0.00	0.00
19,600.0	90.26	179.91	9,396.9	-10,431.1	-833.3	10,463.1	0.00	0.00	0.00
19,700.0	90.26	179.91	9,396.4	-10,531.1	-833.1	10,562.9	0.00	0.00	0.00
19,800.0	90.26	179.91	9,396.0	-10,631.1	-833.0	10,662.6	0.00	0.00	0.00
19,900.0	90.26	179.91	9,395.5	-10,731.1	-832.8	10,762.4	0.00	0.00	0.00
19,971.4	90.26	179.91	9,395.2	-10,802.5	-832.7	10,833.7	0.00	0.00	0.00
Start DLS 2.00 TFO -88.11									
19,973.2	90.26	179.88	9,395.2	-10,804.3	-832.7	10,835.5	2.00	0.07	-2.00
Start 2050.6 hold at 19973.2 MD									
20,000.0	90.26	179.88	9,395.1	-10,831.1	-832.7	10,862.2	0.00	0.00	0.00
20,100.0	90.26	179.88	9,394.6	-10,931.1	-832.5	10,962.0	0.00	0.00	0.00
20,200.0	90.26	179.88	9,394.2	-11,031.1	-832.2	11,061.8	0.00	0.00	0.00
20,300.0	90.26	179.88	9,393.7	-11,131.1	-832.0	11,161.5	0.00	0.00	0.00
20,400.0	90.26	179.88	9,393.3	-11,231.1	-831.8	11,261.3	0.00	0.00	0.00
20,500.0	90.26	179.88	9,392.8	-11,331.1	-831.6	11,361.1	0.00	0.00	0.00
20,600.0	90.26	179.88	9,392.4	-11,431.1	-831.4	11,460.9	0.00	0.00	0.00
20,700.0	90.26	179.88	9,391.9	-11,531.1	-831.2	11,560.7	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Well:	BOO RADLEY COM #706H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP1	**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)
20,800.0	90.26	179.88	9,391.5	-11,631.1	-830.9	11,660.4	0.00	0.00	0.00
20,900.0	90.26	179.88	9,391.0	-11,731.1	-830.7	11,760.2	0.00	0.00	0.00
21,000.0	90.26	179.88	9,390.6	-11,831.1	-830.5	11,860.0	0.00	0.00	0.00
21,100.0	90.26	179.88	9,390.1	-11,931.1	-830.3	11,959.8	0.00	0.00	0.00
21,200.0	90.26	179.88	9,389.7	-12,031.1	-830.1	12,059.5	0.00	0.00	0.00
21,300.0	90.26	179.88	9,389.2	-12,131.1	-829.9	12,159.3	0.00	0.00	0.00
21,400.0	90.26	179.88	9,388.8	-12,231.1	-829.6	12,259.1	0.00	0.00	0.00
21,500.0	90.26	179.88	9,388.3	-12,331.1	-829.4	12,358.9	0.00	0.00	0.00
21,600.0	90.26	179.88	9,387.9	-12,431.1	-829.2	12,458.7	0.00	0.00	0.00
21,700.0	90.26	179.88	9,387.5	-12,531.1	-829.0	12,558.4	0.00	0.00	0.00
21,800.0	90.26	179.88	9,387.0	-12,631.1	-828.8	12,658.2	0.00	0.00	0.00
21,900.0	90.26	179.88	9,386.6	-12,731.1	-828.6	12,758.0	0.00	0.00	0.00
22,000.0	90.26	179.88	9,386.1	-12,831.1	-828.4	12,857.8	0.00	0.00	0.00
22,023.7	90.26	179.88	9,386.0	-12,854.8	-828.3	12,881.5	0.00	0.00	0.00
TD at 22023.7									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP (BOO RADLEY C	0.00	0.00	9,386.0	-12,724.8	-828.5	364,074.20	572,712.80	32° 0' 2.652 N	104° 5' 55.573 W
- plan misses target center by 0.6usft at 21893.7usft MD (9386.6 TVD, -12724.8 N, -828.6 E)									
- Point									
PBHL (BOO RADLEY	0.26	359.88	9,386.0	-12,854.8	-828.3	363,944.20	572,713.00	32° 0' 1.365 N	104° 5' 55.574 W
- plan hits target center									
- Rectangle (sides W100.0 H2,046.0 D20.0)									
T3 (BOO RADLEY CC	0.26	359.91	9,395.2	-10,802.5	-832.7	365,996.54	572,708.57	32° 0' 21.677 N	104° 5' 55.574 W
- plan hits target center									
- Rectangle (sides W100.0 H5,287.0 D20.0)									
T2 (BOO RADLEY CC	0.00	0.00	9,416.3	-6,100.0	-802.0	370,699.00	572,739.30	32° 1' 8.215 N	104° 5' 55.098 W
- plan hits target center									
- Point									
T1 (BOO RADLEY CC	0.26	359.86	9,419.0	-5,515.5	-841.3	371,283.48	572,700.04	32° 1' 14.000 N	104° 5' 55.540 W
- plan hits target center									
- Rectangle (sides W100.0 H5,288.0 D20.0)									
FTP (BOO RADLEY C	0.00	0.00	9,441.0	-227.2	-848.1	376,571.80	572,693.20	32° 2' 6.336 N	104° 5' 55.486 W
- plan misses target center by 248.6usft at 9481.7usft MD (9358.4 TVD, -354.9 N, -651.5 E)									
- Circle (radius 50.0)									

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Well:	BOO RADLEY COM #706H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP1	**Database:**	edm

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
2500	2500	0	0	Start Build 2.00
2750	2750	-2	-11	Start 6165.5 hold at 2750.4 MD
8916	8892	-100	-540	Start DLS 10.00 TFO -63.53
9796	9441	-641	-741	Start DLS 2.00 TFO -89.97
10,606	9437	-1440	-852	Start 4075.1 hold at 10606.4 MD
14,681	9419	-5516	-841	Start DLS 2.00 TFO -89.89
14,911	9418	-5745	-831	Start 356.6 hold at 14910.9 MD
15,267	9416	-6100	-802	Start DLS 2.00 TFO 90.02
15,655	9415	-6487	-796	Start 725.0 hold at 15654.5 MD
16,380	9411	-7211	-834	Start DLS 2.00 TFO -90.07
16,534	9411	-7365	-838	Start 3437.5 hold at 16533.9 MD
19,971	9395	-10,802	-833	Start DLS 2.00 TFO -88.11
19,973	9395	-10,804	-833	Start 2050.6 hold at 19973.2 MD
22,024	9386	-12,855	-828	TD at 22023.7

Checked By: _____ Approved By: _____ Date: _____

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)
BOO RADLEY COM PROJECT
BOO RADLEY COM #706H

OWB
PWP1

Anticollision Report

12 August, 2020

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Reference PWP1

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Maximum ellipse separation of 1,000.0 usft	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 8/12/2020

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	8,916.0	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
8,916.0	22,023.7	PWP1 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
BOO RADLEY COM PROJECT						
BOO RADLEY COM #704H - OWB - PWP1	2,500.0	2,499.6	60.0	47.3	4.733	CC, ES, SF
BOO RADLEY COM #705H - OWB - PWP1	2,500.0	2,499.7	30.0	23.1	4.350	CC, ES
BOO RADLEY COM #705H - OWB - PWP1	22,023.7	22,062.6	880.2	659.2	3.982	SF
SKEEN 21 DM STATE 1H - OWB - AWP	7,451.6	7,403.4	575.4	542.0	17.257	CC, ES, SF
HONEY GRAHAM STATE PROJECT (ATLAS 2628)						
GRAHAM CRACKER 16 STATE #1H - OWB - ACTUAL \	8,035.4	12,477.0	287.7	221.1	4.316	CC, ES, SF
GRAHAM CRACKER 16 STATE #9H - OWB - ACTUAL \	9,100.0	13,611.0	416.8	346.1	5.896	SF
GRAHAM CRACKER 16 STATE #9H - OWB - ACTUAL \	9,136.5	13,611.0	414.7	345.4	5.987	CC, ES
GRAHAM NASH STATE COM #1H - OWB - AWP	15,326.4	9,357.4	263.1	21.0	1.087	Shut in Produces, CC, ES
MYOX 4 28 & 16 ST COM PROJECT						
*MYOX 4 16 ST COM #705H - OWB - PWP0	9,200.0	22,738.2	613.4	491.5	5.032	SF
*MYOX 4 16 ST COM #705H - OWB - PWP0	9,228.3	22,738.2	612.4	491.1	5.050	CC, ES
*MYOX 4 16 ST COM #706H - OWB - PWP0	9,250.0	22,647.6	445.7	328.7	3.809	SF
*MYOX 4 16 ST COM #706H - OWB - PWP0	9,350.0	22,647.6	424.9	317.2	3.945	ES
*MYOX 4 16 ST COM #706H - OWB - PWP0	9,365.2	22,647.6	424.5	318.6	4.009	CC

Offset Design BOO RADLEY COM PROJECT - BOO RADLEY COM #704H - OWB - PWP1 — **Offset Site Error:** 3.0 usft

Survey Program: 0-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	90.19	-0.2	60.0	60.0				
100.0	100.0	99.6	99.6	3.0	3.0	90.19	-0.2	60.0	60.0	54.0	6.00	9.996	
200.0	200.0	199.6	199.6	3.0	3.0	90.19	-0.2	60.0	60.0	54.0	6.04	9.934	
300.0	300.0	299.6	299.6	3.0	3.1	90.19	-0.2	60.0	60.0	53.9	6.12	9.804	
400.0	400.0	399.6	399.6	3.0	3.2	90.19	-0.2	60.0	60.0	53.8	6.24	9.615	
500.0	500.0	499.6	499.6	3.1	3.4	90.19	-0.2	60.0	60.0	53.6	6.40	9.381	
600.0	600.0	599.6	599.6	3.1	3.6	90.19	-0.2	60.0	60.0	53.4	6.58	9.114	
700.0	700.0	699.6	699.6	3.1	3.8	90.19	-0.2	60.0	60.0	53.2	6.80	8.827	
800.0	800.0	799.6	799.6	3.2	4.0	90.19	-0.2	60.0	60.0	53.0	7.04	8.528	
900.0	900.0	899.6	899.6	3.2	4.2	90.19	-0.2	60.0	60.0	52.7	7.29	8.227	
1,000.0	1,000.0	999.6	999.6	3.2	4.5	90.19	-0.2	60.0	60.0	52.4	7.57	7.929	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - BOO RADLEY COM #704H - OWB - PWP1 — **Offset Site Error:** 3.0 usft

Survey Program: 0-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
1,100.0	1,100.0	1,099.6	1,099.6	3.3	4.8	90.19	-0.2	60.0	60.0	52.1	7.86	7.638	
1,200.0	1,200.0	1,199.6	1,199.6	3.4	5.1	90.19	-0.2	60.0	60.0	51.8	8.16	7.356	
1,300.0	1,300.0	1,299.6	1,299.6	3.4	5.3	90.19	-0.2	60.0	60.0	51.5	8.47	7.085	
1,400.0	1,400.0	1,399.6	1,399.6	3.5	5.6	90.19	-0.2	60.0	60.0	51.2	8.79	6.827	
1,500.0	1,500.0	1,499.6	1,499.6	3.5	6.0	90.19	-0.2	60.0	60.0	50.9	9.12	6.581	
1,600.0	1,600.0	1,599.6	1,599.6	3.6	6.3	90.19	-0.2	60.0	60.0	50.5	9.45	6.348	
1,700.0	1,700.0	1,699.6	1,699.6	3.7	6.6	90.19	-0.2	60.0	60.0	50.2	9.79	6.127	
1,800.0	1,800.0	1,799.6	1,799.6	3.8	6.9	90.19	-0.2	60.0	60.0	49.9	10.14	5.918	
1,900.0	1,900.0	1,899.6	1,899.6	3.9	7.2	90.19	-0.2	60.0	60.0	49.5	10.49	5.719	
2,000.0	2,000.0	1,999.6	1,999.6	3.9	7.6	90.19	-0.2	60.0	60.0	49.2	10.85	5.532	
2,100.0	2,100.0	2,099.6	2,099.6	4.0	7.9	90.19	-0.2	60.0	60.0	48.8	11.21	5.354	
2,200.0	2,200.0	2,199.6	2,199.6	4.1	8.2	90.19	-0.2	60.0	60.0	48.4	11.57	5.186	
2,300.0	2,300.0	2,299.6	2,299.6	4.2	8.6	90.19	-0.2	60.0	60.0	48.1	11.94	5.027	
2,400.0	2,400.0	2,399.6	2,399.6	4.3	8.9	90.19	-0.2	60.0	60.0	47.7	12.30	4.876	
2,500.0	2,500.0	2,499.6	2,499.6	4.4	9.2	90.19	-0.2	60.0	60.0	47.3	12.68	4.733	CC, ES, SF
2,600.0	2,600.0	2,597.5	2,597.5	4.5	9.6	-169.32	-0.5	61.6	63.4	50.4	13.03	4.864	
2,700.0	2,699.8	2,694.7	2,694.5	4.5	9.9	-169.33	-1.4	66.5	73.5	60.2	13.37	5.501	
2,750.4	2,750.1	2,743.2	2,742.9	4.5	10.0	-169.33	-2.1	70.1	81.2	67.6	13.53	5.998	
2,800.0	2,799.5	2,791.9	2,791.4	4.5	10.2	-169.35	-2.8	74.3	89.6	75.9	13.71	6.537	
2,900.0	2,899.1	2,890.5	2,889.6	4.5	10.5	-169.37	-4.4	82.7	106.7	92.6	14.08	7.576	
3,000.0	2,998.7	2,989.0	2,987.8	4.5	10.8	-169.39	-6.0	91.1	123.7	109.3	14.46	8.559	
3,100.0	3,098.3	3,087.5	3,085.9	4.6	11.2	-169.40	-7.5	99.5	140.8	126.0	14.84	9.489	
3,200.0	3,198.0	3,186.1	3,184.1	4.6	11.5	-169.41	-9.1	107.9	157.9	142.6	15.23	10.368	
3,300.0	3,297.6	3,284.6	3,282.3	4.7	11.8	-169.42	-10.6	116.3	174.9	159.3	15.62	11.200	
3,400.0	3,397.2	3,383.1	3,380.4	4.7	12.2	-169.43	-12.2	124.7	192.0	176.0	16.01	11.987	
3,500.0	3,496.8	3,481.7	3,478.6	4.8	12.5	-169.43	-13.7	133.2	209.0	192.6	16.42	12.733	
3,600.0	3,596.4	3,580.2	3,576.7	4.8	12.8	-169.44	-15.3	141.6	226.1	209.3	16.82	13.440	
3,700.0	3,696.1	3,678.7	3,674.9	4.9	13.2	-169.44	-16.9	150.0	243.1	225.9	17.23	14.110	
3,800.0	3,795.7	3,777.3	3,773.1	4.9	13.5	-169.45	-18.4	158.4	260.2	242.5	17.65	14.745	
3,900.0	3,895.3	3,875.8	3,871.2	5.0	13.8	-169.45	-20.0	166.8	277.2	259.2	18.06	15.349	
4,000.0	3,994.9	3,974.3	3,969.4	5.0	14.2	-169.45	-21.5	175.2	294.3	275.8	18.48	15.922	
4,100.0	4,094.5	4,072.9	4,067.6	5.1	14.5	-169.46	-23.1	183.6	311.4	292.4	18.91	16.467	
4,200.0	4,194.1	4,171.4	4,165.7	5.2	14.9	-169.46	-24.6	192.0	328.4	309.1	19.33	16.985	
4,300.0	4,293.8	4,269.9	4,263.9	5.2	15.2	-169.46	-26.2	200.4	345.5	325.7	19.76	17.479	
4,400.0	4,393.4	4,368.5	4,362.0	5.3	15.5	-169.46	-27.8	208.8	362.5	342.3	20.20	17.949	
4,500.0	4,493.0	4,467.0	4,460.2	5.4	15.9	-169.46	-29.3	217.2	379.6	358.9	20.63	18.397	
4,600.0	4,592.6	4,565.5	4,558.4	5.5	16.2	-169.47	-30.9	225.7	396.6	375.6	21.07	18.824	
4,700.0	4,692.2	4,664.1	4,656.5	5.6	16.6	-169.47	-32.4	234.1	413.7	392.2	21.51	19.232	
4,800.0	4,791.9	4,762.6	4,754.7	5.6	16.9	-169.47	-34.0	242.5	430.7	408.8	21.95	19.622	
4,900.0	4,891.5	4,861.1	4,852.9	5.7	17.3	-169.47	-35.5	250.9	447.8	425.4	22.40	19.994	
5,000.0	4,991.1	4,959.7	4,951.0	5.8	17.6	-169.47	-37.1	259.3	464.8	442.0	22.84	20.351	
5,100.0	5,090.7	5,058.2	5,049.2	5.9	18.0	-169.47	-38.7	267.7	481.9	458.6	23.29	20.692	
5,200.0	5,190.3	5,156.8	5,147.4	6.0	18.3	-169.47	-40.2	276.1	499.0	475.2	23.74	21.018	
5,300.0	5,289.9	5,255.3	5,245.5	6.1	18.7	-169.47	-41.8	284.5	516.0	491.8	24.19	21.331	
5,400.0	5,389.6	5,353.8	5,343.7	6.2	19.0	-169.47	-43.3	292.9	533.1	508.4	24.64	21.631	
5,500.0	5,489.2	5,452.4	5,441.8	6.3	19.4	-169.48	-44.9	301.3	550.1	525.0	25.10	21.919	
5,600.0	5,588.8	5,550.9	5,540.0	6.4	19.7	-169.48	-46.4	309.7	567.2	541.6	25.55	22.196	
5,700.0	5,688.4	5,649.4	5,638.2	6.4	20.1	-169.48	-48.0	318.2	584.2	558.2	26.01	22.462	
5,800.0	5,788.0	5,748.0	5,736.3	6.5	20.4	-169.48	-49.6	326.6	601.3	574.8	26.47	22.717	
5,900.0	5,887.7	5,846.5	5,834.5	6.6	20.8	-169.48	-51.1	335.0	618.3	591.4	26.93	22.963	
6,000.0	5,987.3	5,945.0	5,932.7	6.7	21.1	-169.48	-52.7	343.4	635.4	608.0	27.39	23.199	
6,100.0	6,086.9	6,043.6	6,030.8	6.8	21.5	-169.48	-54.2	351.8	652.5	624.6	27.85	23.427	

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

Concho Resources LLC

Anticollision Report

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Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
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Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - BOO RADLEY COM #704H - OWB - PWP1 — **Offset Site Error:** 3.0 usft

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6,200.0	6,186.5	6,142.1	6,129.0	6.9	21.8	-169.48	-55.8	360.2	669.5	641.2	28.31	23.646	
6,300.0	6,286.1	6,240.6	6,227.1	7.0	22.2	-169.48	-57.4	368.6	686.6	657.8	28.78	23.857	
6,400.0	6,385.7	6,339.2	6,325.3	7.1	22.5	-169.48	-58.9	377.0	703.6	674.4	29.24	24.061	
6,500.0	6,485.4	6,437.7	6,423.5	7.3	22.9	-169.48	-60.5	385.4	720.7	691.0	29.71	24.258	
6,600.0	6,585.0	6,536.2	6,521.6	7.4	23.2	-169.48	-62.0	393.8	737.7	707.6	30.18	24.448	
6,700.0	6,684.6	6,634.8	6,619.8	7.5	23.6	-169.48	-63.6	402.2	754.8	724.1	30.64	24.631	
6,800.0	6,784.2	6,733.3	6,718.0	7.6	23.9	-169.48	-65.1	410.7	771.8	740.7	31.11	24.808	
6,900.0	6,883.8	6,831.8	6,816.1	7.7	24.3	-169.48	-66.7	419.1	788.9	757.3	31.58	24.980	
7,000.0	6,983.5	6,930.4	6,914.3	7.8	24.6	-169.48	-68.3	427.5	805.9	773.9	32.05	25.145	
7,100.0	7,083.1	7,028.9	7,012.5	7.9	25.0	-169.48	-69.8	435.9	823.0	790.5	32.52	25.305	
7,200.0	7,182.7	7,127.5	7,110.6	8.0	25.3	-169.48	-71.4	444.3	840.1	807.1	32.99	25.461	
7,300.0	7,282.3	7,226.0	7,208.8	8.1	25.7	-169.48	-72.9	452.7	857.1	823.6	33.47	25.611	
7,400.0	7,381.9	7,324.5	7,306.9	8.2	26.0	-169.48	-74.5	461.1	874.2	840.2	33.94	25.756	
7,500.0	7,481.5	7,423.1	7,405.1	8.3	26.4	-169.48	-76.0	469.5	891.2	856.8	34.41	25.897	
7,600.0	7,581.2	7,521.6	7,503.3	8.5	26.7	-169.49	-77.6	477.9	908.3	873.4	34.89	26.034	
7,700.0	7,680.8	7,620.1	7,601.4	8.6	27.1	-169.49	-79.2	486.3	925.3	890.0	35.36	26.167	
7,800.0	7,780.4	7,718.7	7,699.6	8.7	27.5	-169.49	-80.7	494.7	942.4	906.6	35.84	26.295	
7,900.0	7,880.0	7,817.2	7,797.8	8.8	27.8	-169.49	-82.3	503.2	959.4	923.1	36.31	26.420	
8,000.0	7,979.6	7,915.7	7,895.9	8.9	28.2	-169.49	-83.8	511.6	976.5	939.7	36.79	26.541	
8,100.0	8,079.3	8,014.3	7,994.1	9.0	28.5	-169.49	-85.4	520.0	993.6	956.3	37.27	26.659	
8,200.0	8,178.9	8,112.8	8,092.2	9.1	28.9	-169.49	-86.9	528.4	1,010.6	972.9	37.75	26.773	
8,300.0	8,278.5	8,211.3	8,190.4	9.3	29.2	-169.49	-88.5	536.8	1,027.7	989.4	38.23	26.884	
8,400.0	8,378.1	8,309.9	8,288.6	9.4	29.6	-169.49	-90.1	545.2	1,044.7	1,006.0	38.70	26.992	
8,500.0	8,477.7	8,408.4	8,386.7	9.5	29.9	-169.49	-91.6	553.6	1,061.8	1,022.6	39.18	27.097	
8,600.0	8,577.3	8,506.9	8,484.9	9.6	30.3	-169.49	-93.2	562.0	1,078.8	1,039.2	39.66	27.200	
8,700.0	8,677.0	8,605.5	8,583.1	9.7	30.6	-169.49	-94.7	570.4	1,095.9	1,055.7	40.14	27.299	
8,800.0	8,776.6	8,704.0	8,681.2	9.8	31.0	-169.49	-96.3	578.8	1,112.9	1,072.3	40.62	27.396	
8,900.0	8,876.2	8,802.5	8,779.4	10.0	31.4	-169.49	-97.8	587.2	1,130.0	1,088.9	41.11	27.490	
8,916.0	8,892.1	8,818.3	8,795.1	10.0	31.4	-169.49	-98.1	588.6	1,132.7	1,091.5	41.18	27.505	
8,950.0	8,926.0	8,851.7	8,828.4	10.0	31.5	-143.99	-98.6	591.4	1,138.8	1,097.4	41.43	27.484	
9,000.0	8,975.3	8,900.5	8,877.0	10.0	31.7	-127.69	-99.4	595.6	1,148.7	1,107.1	41.62	27.600	
9,050.0	9,023.8	8,948.4	8,924.7	10.0	31.9	-120.26	-100.1	599.7	1,159.7	1,117.9	41.80	27.743	
9,100.0	9,071.2	8,980.1	8,956.3	10.0	32.0	-115.73	-101.3	602.6	1,172.1	1,130.2	41.96	27.933	
9,150.0	9,117.0	9,010.3	8,986.1	10.1	32.1	-112.45	-104.0	605.8	1,186.3	1,144.2	42.12	28.163	
9,200.0	9,160.9	9,040.1	9,015.4	10.1	32.2	-109.77	-108.1	609.4	1,202.1	1,159.8	42.28	28.429	
9,250.0	9,202.6	9,069.6	9,044.1	10.1	32.3	-107.39	-113.6	613.4	1,219.4	1,177.0	42.45	28.727	
9,300.0	9,241.8	9,100.0	9,073.3	10.2	32.4	-105.18	-120.7	617.9	1,238.2	1,195.6	42.62	29.053	
9,350.0	9,278.2	9,127.5	9,099.3	10.2	32.5	-102.99	-128.5	622.3	1,258.3	1,215.5	42.79	29.409	
9,400.0	9,311.5	9,150.0	9,120.3	10.3	32.6	-100.69	-135.7	626.1	1,279.6	1,236.7	42.95	29.793	
9,450.0	9,341.3	9,183.8	9,151.1	10.4	32.7	-98.67	-148.1	632.3	1,301.9	1,258.8	43.14	30.182	
9,500.0	9,367.6	9,211.4	9,175.7	10.5	32.8	-96.50	-159.5	637.7	1,325.2	1,281.9	43.31	30.595	
9,550.0	9,390.2	9,238.7	9,199.4	10.6	32.9	-94.30	-171.9	643.3	1,349.2	1,305.7	43.49	31.023	
9,600.0	9,408.7	9,265.6	9,222.1	10.8	33.0	-92.08	-185.1	649.1	1,373.9	1,330.3	43.67	31.463	
9,650.0	9,423.2	9,292.3	9,243.8	10.9	33.1	-89.87	-199.3	655.1	1,399.2	1,355.3	43.84	31.913	
9,700.0	9,433.4	9,318.6	9,264.7	11.1	33.2	-87.66	-214.2	661.3	1,424.8	1,380.8	44.02	32.371	
9,750.0	9,439.4	9,344.8	9,284.6	11.3	33.3	-85.49	-230.0	667.6	1,450.8	1,406.6	44.18	32.836	
9,796.2	9,441.0	9,368.8	9,302.1	11.4	33.3	-83.52	-245.2	673.5	1,474.9	1,430.5	44.33	33.271	
9,800.0	9,441.0	9,370.8	9,303.6	11.5	33.3	-83.59	-246.5	674.0	1,476.9	1,432.5	44.34	33.308	
9,900.0	9,440.5	9,429.9	9,343.7	11.9	33.5	-85.61	-287.1	689.4	1,529.0	1,484.3	44.69	34.210	
10,000.0	9,440.1	9,504.9	9,387.8	12.3	33.7	-87.67	-344.1	710.0	1,580.1	1,535.0	45.13	35.014	
10,100.0	9,439.6	9,598.9	9,431.4	12.8	34.0	-89.55	-422.7	737.0	1,629.1	1,583.4	45.67	35.672	
10,200.0	9,439.2	9,712.5	9,465.1	13.4	34.3	-90.87	-525.7	770.4	1,674.6	1,628.3	46.34	36.141	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - BOO RADLEY COM #704H - OWB - PWP1 — **Offset Site Error:** 3.0 usft

Survey Program: 0-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.0	9,438.7	9,846.8	9,476.9	13.9	34.6	-91.29	-653.4	809.5	1,715.5	1,668.3	47.14	36.389	
10,400.0	9,438.3	10,086.0	9,475.8	14.5	35.1	-91.22	-885.5	867.0	1,747.9	1,699.4	48.42	36.095	
10,500.0	9,437.8	10,339.2	9,474.6	15.1	35.7	-91.18	-1,135.5	906.5	1,768.6	1,718.8	49.83	35.495	
10,606.4	9,437.3	10,617.4	9,473.3	15.8	36.5	-91.17	-1,413.0	924.3	1,777.1	1,725.7	51.36	34.600	
10,700.0	9,436.9	10,734.7	9,472.8	16.4	36.9	-91.17	-1,530.3	924.8	1,777.2	1,724.8	52.32	33.964	
10,800.0	9,436.4	10,834.7	9,472.3	17.0	37.2	-91.17	-1,630.3	925.1	1,777.1	1,723.8	53.31	33.335	
10,900.0	9,436.0	10,934.7	9,471.9	17.7	37.6	-91.17	-1,730.3	925.3	1,777.1	1,722.7	54.33	32.708	
11,000.0	9,435.5	11,034.7	9,471.4	18.4	37.9	-91.17	-1,830.3	925.5	1,777.0	1,721.6	55.38	32.085	
11,100.0	9,435.1	11,134.7	9,471.0	19.1	38.3	-91.17	-1,930.3	925.7	1,777.0	1,720.5	56.47	31.470	
11,200.0	9,434.6	11,234.7	9,470.5	19.8	38.7	-91.17	-2,030.3	925.9	1,776.9	1,719.4	57.58	30.862	
11,300.0	9,434.2	11,334.7	9,470.0	20.5	39.1	-91.17	-2,130.3	926.2	1,776.9	1,718.2	58.71	30.265	
11,400.0	9,433.8	11,434.7	9,469.6	21.2	39.5	-91.17	-2,230.3	926.4	1,776.8	1,717.0	59.87	29.678	
11,500.0	9,433.3	11,534.7	9,469.1	22.0	39.9	-91.17	-2,330.3	926.6	1,776.8	1,715.7	61.05	29.102	
11,600.0	9,432.9	11,634.7	9,468.7	22.7	40.3	-91.17	-2,430.3	926.8	1,776.8	1,714.5	62.26	28.538	
11,700.0	9,432.4	11,734.7	9,468.2	23.5	40.8	-91.17	-2,530.3	927.1	1,776.7	1,713.2	63.48	27.987	
11,800.0	9,432.0	11,834.7	9,467.8	24.2	41.3	-91.17	-2,630.3	927.3	1,776.7	1,711.9	64.73	27.448	
11,900.0	9,431.5	11,934.7	9,467.3	25.0	41.8	-91.17	-2,730.3	927.5	1,776.6	1,710.6	65.99	26.923	
12,000.0	9,431.1	12,034.7	9,466.8	25.8	42.2	-91.17	-2,830.3	927.7	1,776.6	1,709.3	67.27	26.410	
12,100.0	9,430.6	12,134.7	9,466.4	26.6	42.7	-91.17	-2,930.3	928.0	1,776.5	1,708.0	68.56	25.910	
12,200.0	9,430.2	12,234.7	9,465.9	27.4	43.3	-91.17	-3,030.3	928.2	1,776.5	1,706.6	69.88	25.423	
12,300.0	9,429.7	12,334.7	9,465.5	28.2	43.8	-91.17	-3,130.3	928.4	1,776.4	1,705.2	71.20	24.949	
12,400.0	9,429.3	12,434.7	9,465.0	29.0	44.3	-91.17	-3,230.3	928.6	1,776.4	1,703.8	72.54	24.488	
12,500.0	9,428.8	12,534.7	9,464.5	29.8	44.9	-91.17	-3,330.3	928.9	1,776.3	1,702.4	73.90	24.038	
12,600.0	9,428.4	12,634.7	9,464.1	30.6	45.4	-91.17	-3,430.3	929.1	1,776.3	1,701.0	75.26	23.601	
12,700.0	9,427.9	12,734.7	9,463.6	31.4	46.0	-91.17	-3,530.3	929.3	1,776.3	1,699.6	76.64	23.176	
12,800.0	9,427.5	12,834.7	9,463.2	32.2	46.6	-91.16	-3,630.3	929.5	1,776.2	1,698.2	78.03	22.763	
12,900.0	9,427.0	12,934.7	9,462.7	33.0	47.1	-91.16	-3,730.3	929.7	1,776.2	1,696.7	79.43	22.361	
13,000.0	9,426.6	13,034.7	9,462.2	33.8	47.7	-91.16	-3,830.3	930.0	1,776.1	1,695.3	80.84	21.970	
13,100.0	9,426.1	13,134.7	9,461.8	34.6	48.3	-91.16	-3,930.3	930.2	1,776.1	1,693.8	82.27	21.589	
13,200.0	9,425.7	13,234.7	9,461.3	35.4	48.9	-91.16	-4,030.3	930.4	1,776.0	1,692.3	83.70	21.220	
13,300.0	9,425.2	13,334.7	9,460.9	36.2	49.5	-91.16	-4,130.3	930.6	1,776.0	1,690.8	85.14	20.860	
13,400.0	9,424.8	13,434.7	9,460.4	37.1	50.2	-91.16	-4,230.2	930.9	1,775.9	1,689.3	86.59	20.510	
13,500.0	9,424.3	13,534.7	9,460.0	37.9	50.8	-91.16	-4,330.2	931.1	1,775.9	1,687.8	88.05	20.170	
13,600.0	9,423.9	13,634.7	9,459.5	38.7	51.4	-91.16	-4,430.2	931.3	1,775.8	1,686.3	89.51	19.839	
13,700.0	9,423.4	13,734.7	9,459.0	39.5	52.1	-91.16	-4,530.2	931.5	1,775.8	1,684.8	90.99	19.517	
13,800.0	9,423.0	13,834.7	9,458.6	40.4	52.7	-91.16	-4,630.2	931.8	1,775.8	1,683.3	92.47	19.204	
13,900.0	9,422.5	13,934.7	9,458.1	41.2	53.4	-91.16	-4,730.2	932.0	1,775.7	1,681.8	93.96	18.899	
14,000.0	9,422.1	14,034.7	9,457.7	42.0	54.0	-91.16	-4,830.2	932.2	1,775.7	1,680.2	95.45	18.603	
14,100.0	9,421.6	14,134.7	9,457.2	42.9	54.7	-91.16	-4,930.2	932.4	1,775.6	1,678.7	96.95	18.314	
14,200.0	9,421.2	14,234.7	9,456.7	43.7	55.4	-91.16	-5,030.2	932.6	1,775.6	1,677.1	98.46	18.033	
14,300.0	9,420.7	14,334.7	9,456.3	44.5	56.0	-91.16	-5,130.2	932.9	1,775.5	1,675.6	99.98	17.759	
14,400.0	9,420.3	14,434.7	9,455.8	45.4	56.7	-91.16	-5,230.2	933.1	1,775.5	1,674.0	101.50	17.493	
14,500.0	9,419.8	14,534.7	9,455.4	46.2	57.4	-91.16	-5,330.2	933.3	1,775.4	1,672.4	103.02	17.233	
14,600.0	9,419.4	14,634.7	9,454.9	47.0	58.1	-91.16	-5,430.2	933.5	1,775.4	1,670.8	104.56	16.980	
14,681.5	9,419.0	14,716.2	9,454.5	47.7	58.6	-91.16	-5,511.7	933.7	1,775.4	1,669.6	105.81	16.779	
14,700.0	9,418.9	14,735.8	9,454.4	47.9	58.8	-91.16	-5,531.3	933.8	1,775.3	1,669.2	106.10	16.733	
14,800.0	9,418.5	14,835.8	9,454.0	48.7	59.5	-91.17	-5,631.3	933.9	1,772.8	1,665.1	107.64	16.470	
14,900.0	9,418.0	14,935.6	9,453.5	49.5	60.2	-91.19	-5,731.1	934.1	1,766.8	1,657.6	109.18	16.182	
14,910.9	9,418.0	14,946.4	9,453.5	49.6	60.3	-91.19	-5,741.9	934.1	1,765.9	1,656.6	109.35	16.149	
15,000.0	9,417.5	15,035.2	9,453.1	50.4	60.9	-91.20	-5,830.8	934.2	1,758.7	1,648.0	110.73	15.883	
15,100.0	9,417.1	15,134.9	9,452.6	51.2	61.6	-91.20	-5,930.4	934.4	1,750.6	1,638.3	112.28	15.591	
15,200.0	9,416.6	15,234.6	9,452.2	52.1	62.3	-91.21	-6,030.1	934.6	1,742.5	1,628.7	113.84	15.307	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - BOO RADLEY COM #704H - OWB - PWP1 — **Offset Site Error:** 3.0 usft

Survey Program: 0-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,267.5	9,416.3	15,301.8	9,451.9	52.6	62.8	-91.21	-6,097.4	934.7	1,737.0	1,622.2	114.89	15.119	
15,300.0	9,416.1	15,334.3	9,451.7	52.9	63.0	-91.21	-6,129.8	934.7	1,734.6	1,619.2	115.40	15.032	
15,400.0	9,415.7	15,434.1	9,451.3	53.7	63.7	-91.20	-6,229.7	934.9	1,729.4	1,612.4	116.96	14.785	
15,499.9	9,415.2	15,534.0	9,450.8	54.6	64.5	-91.19	-6,329.5	935.0	1,727.6	1,609.1	118.53	14.575	
15,500.0	9,415.2	15,534.1	9,450.8	54.6	64.5	-91.19	-6,329.6	935.0	1,727.6	1,609.1	118.54	14.575	
15,600.0	9,414.8	15,634.1	9,450.3	55.4	65.2	-91.18	-6,429.6	935.2	1,729.4	1,609.3	120.11	14.398	
15,654.5	9,414.5	15,688.6	9,450.1	55.9	65.6	-91.18	-6,484.1	935.3	1,731.8	1,610.8	120.97	14.316	
15,700.0	9,414.3	15,734.0	9,449.9	56.3	65.9	-91.18	-6,529.5	935.4	1,734.3	1,612.6	121.68	14.252	
15,800.0	9,413.9	15,833.8	9,449.4	57.1	66.7	-91.17	-6,629.3	935.5	1,739.6	1,616.4	123.26	14.113	
15,900.0	9,413.4	15,933.7	9,449.0	57.9	67.4	-91.17	-6,729.2	935.7	1,745.0	1,620.2	124.84	13.978	
16,000.0	9,413.0	16,033.5	9,448.5	58.8	68.1	-91.16	-6,829.1	935.9	1,750.4	1,624.0	126.43	13.845	
16,100.0	9,412.5	16,133.4	9,448.1	59.6	68.9	-91.16	-6,928.9	936.0	1,755.8	1,627.8	128.01	13.716	
16,200.0	9,412.0	16,233.2	9,447.6	60.5	69.6	-91.16	-7,028.8	936.2	1,761.2	1,631.6	129.60	13.589	
16,300.0	9,411.6	16,333.1	9,447.1	61.3	70.4	-91.15	-7,128.6	936.3	1,766.6	1,635.4	131.20	13.465	
16,379.5	9,411.2	16,412.5	9,446.8	62.0	71.0	-91.15	-7,208.0	936.5	1,770.9	1,638.4	132.46	13.369	
16,400.0	9,411.1	16,433.0	9,446.7	62.2	71.1	-91.15	-7,228.5	936.5	1,771.9	1,639.1	132.79	13.344	
16,500.0	9,410.7	16,532.9	9,446.2	63.0	71.9	-91.16	-7,328.4	936.7	1,774.9	1,640.5	134.39	13.207	
16,533.9	9,410.5	16,566.8	9,446.1	63.3	72.1	-91.16	-7,362.3	936.7	1,775.1	1,640.1	134.93	13.155	
16,600.0	9,410.2	16,632.9	9,445.8	63.9	72.6	-91.16	-7,428.4	936.8	1,775.1	1,639.1	136.00	13.052	
16,700.0	9,409.8	16,732.9	9,445.3	64.7	73.4	-91.16	-7,528.4	937.0	1,775.1	1,637.5	137.60	12.900	
16,800.0	9,409.4	16,832.9	9,444.9	65.5	74.1	-91.16	-7,628.4	937.1	1,775.1	1,635.9	139.22	12.751	
16,900.0	9,408.9	16,932.9	9,444.4	66.4	74.9	-91.16	-7,728.4	937.3	1,775.1	1,634.3	140.83	12.605	
17,000.0	9,408.5	17,032.9	9,443.9	67.2	75.7	-91.16	-7,828.4	937.5	1,775.1	1,632.7	142.44	12.462	
17,100.0	9,408.0	17,132.9	9,443.5	68.1	76.4	-91.16	-7,928.4	937.6	1,775.1	1,631.1	144.06	12.322	
17,200.0	9,407.6	17,232.9	9,443.0	68.9	77.2	-91.16	-8,028.4	937.8	1,775.1	1,629.4	145.68	12.185	
17,300.0	9,407.1	17,332.9	9,442.6	69.8	78.0	-91.16	-8,128.4	938.0	1,775.1	1,627.8	147.31	12.051	
17,400.0	9,406.7	17,432.9	9,442.1	70.6	78.7	-91.16	-8,228.4	938.1	1,775.1	1,626.2	148.93	11.919	
17,500.0	9,406.2	17,532.9	9,441.7	71.5	79.5	-91.16	-8,328.4	938.3	1,775.2	1,624.6	150.56	11.791	
17,600.0	9,405.8	17,632.9	9,441.2	72.3	80.3	-91.16	-8,428.4	938.4	1,775.2	1,623.0	152.18	11.665	
17,700.0	9,405.3	17,732.9	9,440.7	73.2	81.1	-91.16	-8,528.4	938.6	1,775.2	1,621.4	153.81	11.541	
17,800.0	9,404.9	17,832.9	9,440.3	74.0	81.8	-91.16	-8,628.4	938.8	1,775.2	1,619.7	155.45	11.420	
17,900.0	9,404.4	17,932.9	9,439.8	74.9	82.6	-91.16	-8,728.4	938.9	1,775.2	1,618.1	157.08	11.301	
18,000.0	9,404.0	18,032.9	9,439.4	75.7	83.4	-91.15	-8,828.4	939.1	1,775.2	1,616.5	158.71	11.185	
18,100.0	9,403.5	18,132.9	9,438.9	76.6	84.2	-91.15	-8,928.4	939.2	1,775.2	1,614.9	160.35	11.071	
18,200.0	9,403.1	18,232.9	9,438.5	77.4	85.0	-91.15	-9,028.4	939.4	1,775.2	1,613.2	161.99	10.959	
18,300.0	9,402.7	18,332.9	9,438.0	78.3	85.7	-91.15	-9,128.4	939.6	1,775.2	1,611.6	163.63	10.849	
18,400.0	9,402.2	18,432.9	9,437.5	79.1	86.5	-91.15	-9,228.4	939.7	1,775.2	1,610.0	165.27	10.741	
18,500.0	9,401.8	18,532.9	9,437.1	80.0	87.3	-91.15	-9,328.4	939.9	1,775.2	1,608.3	166.92	10.636	
18,600.0	9,401.3	18,632.9	9,436.6	80.8	88.1	-91.15	-9,428.4	940.1	1,775.2	1,606.7	168.56	10.532	
18,700.0	9,400.9	18,732.9	9,436.2	81.7	88.9	-91.15	-9,528.4	940.2	1,775.3	1,605.0	170.21	10.430	
18,800.0	9,400.4	18,832.9	9,435.7	82.6	89.7	-91.15	-9,628.4	940.4	1,775.3	1,603.4	171.85	10.330	
18,900.0	9,400.0	18,932.9	9,435.3	83.4	90.5	-91.15	-9,728.4	940.5	1,775.3	1,601.8	173.50	10.232	
19,000.0	9,399.5	19,032.9	9,434.8	84.3	91.3	-91.15	-9,828.4	940.7	1,775.3	1,600.1	175.15	10.136	
19,100.0	9,399.1	19,132.9	9,434.3	85.1	92.1	-91.15	-9,928.4	940.9	1,775.3	1,598.5	176.80	10.041	
19,200.0	9,398.6	19,232.9	9,433.9	86.0	92.9	-91.15	-10,028.4	941.0	1,775.3	1,596.8	178.46	9.948	
19,300.0	9,398.2	19,332.9	9,433.4	86.8	93.7	-91.15	-10,128.4	941.2	1,775.3	1,595.2	180.11	9.857	
19,400.0	9,397.7	19,432.9	9,433.0	87.7	94.5	-91.15	-10,228.4	941.3	1,775.3	1,593.6	181.76	9.767	
19,500.0	9,397.3	19,532.9	9,432.5	88.5	95.3	-91.15	-10,328.4	941.5	1,775.3	1,591.9	183.42	9.679	
19,600.0	9,396.9	19,632.9	9,432.1	89.4	96.1	-91.15	-10,428.4	941.7	1,775.3	1,590.3	185.08	9.592	
19,700.0	9,396.4	19,732.9	9,431.6	90.2	96.9	-91.15	-10,528.4	941.8	1,775.3	1,588.6	186.73	9.507	
19,800.0	9,396.0	19,832.9	9,431.1	91.1	97.7	-91.15	-10,628.4	942.0	1,775.3	1,587.0	188.39	9.424	
19,900.0	9,395.5	19,932.9	9,430.7	91.9	98.5	-91.15	-10,728.4	942.2	1,775.4	1,585.3	190.05	9.341	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - BOO RADLEY COM #704H - OWB - PWP1 — **Offset Site Error:** 3.0 usft

Survey Program: 0-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,971.4	9,395.2	20,004.3	9,430.4	92.5	99.1	-91.15	-10,799.8	942.3	1,775.4	1,584.1	191.24	9.283	
19,973.2	9,395.2	20,006.1	9,430.3	92.6	99.1	-91.15	-10,801.6	942.3	1,775.4	1,584.1	191.27	9.282	
20,000.0	9,395.1	20,032.0	9,430.2	92.8	99.3	-91.15	-10,827.5	942.3	1,775.4	1,583.6	191.71	9.261	
20,100.0	9,394.6	20,132.0	9,429.8	93.6	100.1	-91.15	-10,927.5	942.5	1,775.4	1,582.0	193.37	9.181	
20,200.0	9,394.2	20,232.0	9,429.3	94.5	100.9	-91.15	-11,027.5	942.7	1,775.3	1,580.3	195.03	9.103	
20,300.0	9,393.7	20,332.0	9,428.9	95.4	101.7	-91.15	-11,127.5	943.0	1,775.3	1,578.6	196.70	9.026	
20,400.0	9,393.3	20,432.0	9,428.4	96.2	102.5	-91.15	-11,227.5	943.2	1,775.3	1,577.0	198.36	8.950	
20,500.0	9,392.8	20,532.0	9,427.9	97.1	103.3	-91.15	-11,327.5	943.4	1,775.3	1,575.3	200.03	8.875	
20,600.0	9,392.4	20,632.0	9,427.5	97.9	104.1	-91.15	-11,427.5	943.6	1,775.3	1,573.6	201.70	8.802	
20,700.0	9,391.9	20,732.0	9,427.0	98.8	104.9	-91.15	-11,527.5	943.8	1,775.3	1,572.0	203.36	8.730	
20,800.0	9,391.5	20,832.0	9,426.6	99.6	105.8	-91.15	-11,627.5	944.0	1,775.3	1,570.3	205.03	8.659	
20,900.0	9,391.0	20,932.0	9,426.1	100.5	106.6	-91.15	-11,727.5	944.2	1,775.3	1,568.6	206.70	8.589	
21,000.0	9,390.6	21,032.0	9,425.7	101.3	107.4	-91.14	-11,827.5	944.4	1,775.3	1,566.9	208.37	8.520	
21,100.0	9,390.1	21,132.0	9,425.2	102.2	108.2	-91.14	-11,927.5	944.7	1,775.3	1,565.3	210.04	8.452	
21,200.0	9,389.7	21,232.0	9,424.7	103.0	109.0	-91.14	-12,027.5	944.9	1,775.3	1,563.6	211.71	8.385	
21,300.0	9,389.2	21,332.0	9,424.3	103.9	109.8	-91.14	-12,127.5	945.1	1,775.3	1,561.9	213.38	8.320	
21,400.0	9,388.8	21,432.0	9,423.8	104.8	110.6	-91.14	-12,227.5	945.3	1,775.3	1,560.2	215.06	8.255	
21,500.0	9,388.3	21,532.0	9,423.4	105.6	111.5	-91.14	-12,327.5	945.5	1,775.3	1,558.6	216.73	8.191	
21,600.0	9,387.9	21,632.0	9,422.9	106.5	112.3	-91.14	-12,427.5	945.7	1,775.3	1,556.9	218.41	8.128	
21,700.0	9,387.5	21,732.0	9,422.5	107.3	113.1	-91.14	-12,527.5	945.9	1,775.3	1,555.2	220.08	8.067	
21,800.0	9,387.0	21,832.0	9,422.0	108.2	113.9	-91.14	-12,627.5	946.1	1,775.3	1,553.5	221.76	8.006	
21,900.0	9,386.6	21,932.0	9,421.5	109.0	114.7	-91.14	-12,727.5	946.3	1,775.3	1,551.8	223.43	7.945	
22,000.0	9,386.1	22,032.0	9,421.1	109.9	115.6	-91.14	-12,827.5	946.6	1,775.3	1,550.2	225.11	7.886	
22,018.6	9,386.0	22,050.6	9,421.0	110.0	115.7	-91.14	-12,846.0	946.6	1,775.3	1,549.8	225.42	7.875	
22,023.7	9,386.0	22,050.6	9,421.0	110.1	115.7	-91.14	-12,846.0	946.6	1,775.3	1,549.8	225.47	7.874	
22,024.2	9,386.0	22,050.6	9,421.0	110.1	115.7	-91.14	-12,846.0	946.6	1,775.3	1,549.8	225.48	7.873	

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - BOO RADLEY COM #705H - OWB - PWP1 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8877-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	90.00	0.0	30.0	30.0				
100.0	100.0	99.7	99.7	3.0	3.0	90.00	0.0	30.0	30.0	24.0	6.00	5.000	
200.0	200.0	199.7	199.7	3.0	3.0	90.00	0.0	30.0	30.0	24.0	6.00	4.998	
300.0	300.0	299.7	299.7	3.0	3.0	90.00	0.0	30.0	30.0	24.0	6.01	4.993	
400.0	400.0	399.7	399.7	3.0	3.0	90.00	0.0	30.0	30.0	24.0	6.02	4.985	
500.0	500.0	499.7	499.7	3.1	3.1	90.00	0.0	30.0	30.0	24.0	6.03	4.975	
600.0	600.0	599.7	599.7	3.1	3.1	90.00	0.0	30.0	30.0	24.0	6.05	4.962	
700.0	700.0	699.7	699.7	3.1	3.1	90.00	0.0	30.0	30.0	23.9	6.07	4.946	
800.0	800.0	799.7	799.7	3.2	3.2	90.00	0.0	30.0	30.0	23.9	6.09	4.928	
900.0	900.0	899.7	899.7	3.2	3.2	90.00	0.0	30.0	30.0	23.9	6.11	4.908	
1,000.0	1,000.0	999.7	999.7	3.2	3.2	90.00	0.0	30.0	30.0	23.9	6.14	4.886	
1,100.0	1,100.0	1,099.7	1,099.7	3.3	3.3	90.00	0.0	30.0	30.0	23.8	6.17	4.861	
1,200.0	1,200.0	1,199.7	1,199.7	3.4	3.4	90.00	0.0	30.0	30.0	23.8	6.21	4.834	
1,300.0	1,300.0	1,299.7	1,299.7	3.4	3.4	90.00	0.0	30.0	30.0	23.8	6.24	4.806	
1,400.0	1,400.0	1,399.7	1,399.7	3.5	3.5	90.00	0.0	30.0	30.0	23.7	6.28	4.775	
1,500.0	1,500.0	1,499.7	1,499.7	3.5	3.5	90.00	0.0	30.0	30.0	23.7	6.33	4.743	
1,600.0	1,600.0	1,599.7	1,599.7	3.6	3.6	90.00	0.0	30.0	30.0	23.6	6.37	4.709	
1,700.0	1,700.0	1,699.7	1,699.7	3.7	3.7	90.00	0.0	30.0	30.0	23.6	6.42	4.673	
1,800.0	1,800.0	1,799.7	1,799.7	3.8	3.8	90.00	0.0	30.0	30.0	23.5	6.47	4.636	
1,900.0	1,900.0	1,899.7	1,899.7	3.9	3.9	90.00	0.0	30.0	30.0	23.5	6.52	4.598	
2,000.0	2,000.0	1,999.7	1,999.7	3.9	3.9	90.00	0.0	30.0	30.0	23.4	6.58	4.559	
2,100.0	2,100.0	2,099.7	2,099.7	4.0	4.0	90.00	0.0	30.0	30.0	23.4	6.64	4.519	
2,200.0	2,200.0	2,199.7	2,199.7	4.1	4.1	90.00	0.0	30.0	30.0	23.3	6.70	4.478	
2,300.0	2,300.0	2,299.7	2,299.7	4.2	4.2	90.00	0.0	30.0	30.0	23.2	6.76	4.436	
2,400.0	2,400.0	2,399.7	2,399.7	4.3	4.3	90.00	0.0	30.0	30.0	23.2	6.83	4.393	
2,500.0	2,500.0	2,499.7	2,499.7	4.4	4.4	90.00	0.0	30.0	30.0	23.1	6.90	4.350	CC, ES
2,600.0	2,600.0	2,599.7	2,599.7	4.5	4.5	-170.08	0.0	30.0	31.7	24.8	6.97	4.553	
2,700.0	2,699.8	2,699.5	2,699.5	4.5	4.6	-171.46	0.0	30.0	36.9	29.8	7.04	5.239	
2,750.4	2,750.1	2,749.8	2,749.8	4.5	4.6	-172.28	0.0	30.0	40.8	33.7	7.08	5.764	
2,800.0	2,799.5	2,799.2	2,799.2	4.5	4.7	-173.02	0.0	30.0	45.1	38.0	7.12	6.336	
2,900.0	2,899.1	2,898.8	2,898.8	4.5	4.8	-174.15	0.0	30.0	53.8	46.6	7.20	7.469	
3,000.0	2,998.7	2,998.4	2,998.4	4.5	4.9	-174.96	0.0	30.0	62.5	55.2	7.29	8.574	
3,100.0	3,098.3	3,098.0	3,098.0	4.6	5.0	-175.58	0.0	30.0	71.2	63.8	7.37	9.650	
3,200.0	3,198.0	3,197.7	3,197.7	4.6	5.1	-176.06	0.0	30.0	79.9	72.4	7.47	10.696	
3,300.0	3,297.6	3,297.3	3,297.3	4.7	5.2	-176.45	0.0	30.0	88.6	81.0	7.56	11.711	
3,400.0	3,397.2	3,396.9	3,396.9	4.7	5.3	-176.77	0.0	30.0	97.3	89.6	7.66	12.694	
3,500.0	3,496.8	3,496.5	3,496.5	4.8	5.4	-177.04	0.0	30.0	106.0	98.2	7.77	13.646	
3,600.0	3,596.4	3,596.1	3,596.1	4.8	5.5	-177.26	0.0	30.0	114.7	106.9	7.88	14.565	
3,700.0	3,696.1	3,695.8	3,695.8	4.9	5.6	-177.45	0.0	30.0	123.5	115.5	7.99	15.452	
3,800.0	3,795.7	3,795.4	3,795.4	4.9	5.8	-177.62	0.0	30.0	132.2	124.1	8.10	16.308	
3,900.0	3,895.3	3,895.0	3,895.0	5.0	5.9	-177.77	0.0	30.0	140.9	132.7	8.22	17.133	
4,000.0	3,994.9	3,994.6	3,994.6	5.0	6.0	-177.90	0.0	30.0	149.6	141.3	8.35	17.927	
4,100.0	4,094.5	4,094.2	4,094.2	5.1	6.1	-178.02	0.0	30.0	158.3	149.9	8.47	18.691	
4,200.0	4,194.1	4,193.8	4,193.8	5.2	6.2	-178.12	0.0	30.0	167.1	158.5	8.60	19.427	
4,300.0	4,293.8	4,293.5	4,293.5	5.2	6.3	-178.21	0.0	30.0	175.8	167.1	8.73	20.134	
4,400.0	4,393.4	4,393.1	4,393.1	5.3	6.4	-178.30	0.0	30.0	184.5	175.7	8.87	20.813	
4,500.0	4,493.0	4,492.7	4,492.7	5.4	6.6	-178.37	0.0	30.0	193.2	184.2	9.00	21.466	
4,600.0	4,592.6	4,592.3	4,592.3	5.5	6.7	-178.44	0.0	30.0	202.0	192.8	9.14	22.093	
4,700.0	4,692.2	4,691.9	4,691.9	5.6	6.8	-178.51	0.0	30.0	210.7	201.4	9.28	22.696	
4,800.0	4,791.9	4,791.6	4,791.6	5.6	6.9	-178.57	0.0	30.0	219.4	210.0	9.43	23.275	
4,900.0	4,891.5	4,891.2	4,891.2	5.7	7.0	-178.62	0.0	30.0	228.2	218.6	9.57	23.830	
5,000.0	4,991.1	4,990.8	4,990.8	5.8	7.2	-178.67	0.0	30.0	236.9	227.2	9.72	24.364	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - BOO RADLEY COM #705H - OWB - PWP1 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8877-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,090.7	5,090.4	5,090.4	5.9	7.3	-178.72	0.0	30.0	245.6	235.7	9.87	24.877	
5,200.0	5,190.3	5,190.0	5,190.0	6.0	7.4	-178.76	0.0	30.0	254.3	244.3	10.03	25.370	
5,300.0	5,289.9	5,289.6	5,289.6	6.1	7.5	-178.81	0.0	30.0	263.1	252.9	10.18	25.843	
5,400.0	5,389.6	5,389.3	5,389.3	6.2	7.6	-178.84	0.0	30.0	271.8	261.5	10.34	26.298	
5,500.0	5,489.2	5,488.9	5,488.9	6.3	7.8	-178.88	0.0	30.0	280.5	270.0	10.49	26.735	
5,600.0	5,588.8	5,588.5	5,588.5	6.4	7.9	-178.91	0.0	30.0	289.3	278.6	10.65	27.155	
5,700.0	5,688.4	5,688.1	5,688.1	6.4	8.0	-178.95	0.0	30.0	298.0	287.2	10.81	27.560	
5,800.0	5,788.0	5,787.7	5,787.7	6.5	8.1	-178.98	0.0	30.0	306.7	295.7	10.97	27.948	
5,900.0	5,887.7	5,887.4	5,887.4	6.6	8.2	-179.00	0.0	30.0	315.4	304.3	11.14	28.322	
6,000.0	5,987.3	5,987.0	5,987.0	6.7	8.4	-179.03	0.0	30.0	324.2	312.9	11.30	28.682	
6,100.0	6,086.9	6,086.6	6,086.6	6.8	8.5	-179.06	0.0	30.0	332.9	321.4	11.47	29.028	
6,200.0	6,186.5	6,186.2	6,186.2	6.9	8.6	-179.08	0.0	30.0	341.6	330.0	11.64	29.361	
6,300.0	6,286.1	6,285.8	6,285.8	7.0	8.7	-179.10	0.0	30.0	350.4	338.5	11.80	29.682	
6,400.0	6,385.7	6,385.4	6,385.4	7.1	8.9	-179.12	0.0	30.0	359.1	347.1	11.97	29.992	
6,500.0	6,485.4	6,485.1	6,485.1	7.3	9.0	-179.15	0.0	30.0	367.8	355.7	12.14	30.290	
6,600.0	6,585.0	6,584.7	6,584.7	7.4	9.1	-179.17	0.0	30.0	376.5	364.2	12.31	30.577	
6,700.0	6,684.6	6,684.3	6,684.3	7.5	9.2	-179.18	0.0	30.0	385.3	372.8	12.49	30.854	
6,800.0	6,784.2	6,783.9	6,783.9	7.6	9.4	-179.20	0.0	30.0	394.0	381.3	12.66	31.121	
6,900.0	6,883.8	6,883.5	6,883.5	7.7	9.5	-179.22	0.0	30.0	402.7	389.9	12.83	31.379	
7,000.0	6,983.5	6,983.2	6,983.2	7.8	9.6	-179.24	0.0	30.0	411.5	398.4	13.01	31.628	
7,100.0	7,083.1	7,082.8	7,082.8	7.9	9.7	-179.25	0.0	30.0	420.2	407.0	13.18	31.869	
7,200.0	7,182.7	7,182.4	7,182.4	8.0	9.9	-179.27	0.0	30.0	428.9	415.6	13.36	32.101	
7,300.0	7,282.3	7,282.0	7,282.0	8.1	10.0	-179.28	0.0	30.0	437.6	424.1	13.54	32.325	
7,400.0	7,381.9	7,381.6	7,381.6	8.2	10.1	-179.30	0.0	30.0	446.4	432.7	13.72	32.542	
7,500.0	7,481.5	7,481.2	7,481.2	8.3	10.2	-179.31	0.0	30.0	455.1	441.2	13.90	32.752	
7,600.0	7,581.2	7,580.9	7,580.9	8.5	10.4	-179.32	0.0	30.0	463.8	449.8	14.07	32.954	
7,700.0	7,680.8	7,680.5	7,680.5	8.6	10.5	-179.34	0.0	30.0	472.6	458.3	14.25	33.151	
7,800.0	7,780.4	7,780.1	7,780.1	8.7	10.6	-179.35	0.0	30.0	481.3	466.9	14.44	33.340	
7,900.0	7,880.0	7,879.7	7,879.7	8.8	10.7	-179.36	0.0	30.0	490.0	475.4	14.62	33.524	
8,000.0	7,979.6	7,979.3	7,979.3	8.9	10.9	-179.37	0.0	30.0	498.7	483.9	14.80	33.702	
8,100.0	8,079.3	8,079.0	8,079.0	9.0	11.0	-179.38	0.0	30.0	507.5	492.5	14.98	33.874	
8,200.0	8,178.9	8,178.6	8,178.6	9.1	11.1	-179.39	0.0	30.0	516.2	501.0	15.16	34.041	
8,300.0	8,278.5	8,278.2	8,278.2	9.3	11.2	-179.40	0.0	30.0	524.9	509.6	15.35	34.203	
8,400.0	8,378.1	8,377.8	8,377.8	9.4	11.4	-179.41	0.0	30.0	533.7	518.1	15.53	34.360	
8,500.0	8,477.7	8,477.4	8,477.4	9.5	11.5	-179.42	0.0	30.0	542.4	526.7	15.72	34.512	
8,600.0	8,577.3	8,577.0	8,577.0	9.6	11.6	-179.43	0.0	30.0	551.1	535.2	15.90	34.660	
8,700.0	8,677.0	8,676.7	8,676.7	9.7	11.7	-179.44	0.0	30.0	559.9	543.8	16.09	34.803	
8,800.0	8,776.6	8,776.3	8,776.3	9.8	11.9	-179.45	0.0	30.0	568.6	552.3	16.27	34.942	
8,900.0	8,876.2	8,875.9	8,875.9	10.0	12.0	-179.46	0.0	30.0	577.3	560.9	16.44	35.117	
8,916.0	8,892.1	8,893.3	8,893.3	10.0	12.0	-179.45	-0.1	30.0	578.7	562.2	16.46	35.156	
8,950.0	8,926.0	8,934.6	8,934.5	10.0	12.0	-154.12	-2.1	30.0	581.8	565.3	16.54	35.170	
9,000.0	8,975.3	8,995.1	8,994.4	10.0	12.0	-137.81	-10.5	29.9	587.2	570.6	16.55	35.485	
9,050.0	9,023.8	9,055.1	9,052.6	10.0	12.0	-130.06	-25.1	29.9	593.4	576.9	16.58	35.800	
9,100.0	9,071.2	9,114.6	9,108.5	10.0	12.0	-125.22	-45.4	29.8	600.6	584.0	16.63	36.114	
9,150.0	9,117.0	9,173.3	9,161.3	10.1	12.1	-121.59	-71.0	29.6	608.7	592.0	16.71	36.424	
9,200.0	9,160.9	9,231.3	9,210.6	10.1	12.1	-118.55	-101.5	29.5	617.7	600.8	16.82	36.729	
9,250.0	9,202.6	9,288.4	9,255.9	10.1	12.2	-115.80	-136.2	29.3	627.4	610.5	16.95	37.021	
9,300.0	9,241.8	9,344.5	9,296.8	10.2	12.2	-113.21	-174.6	29.1	637.9	620.8	17.11	37.294	
9,350.0	9,278.2	9,399.8	9,333.3	10.2	12.3	-110.72	-216.1	28.9	649.2	631.9	17.30	37.536	
9,400.0	9,311.5	9,454.2	9,365.1	10.3	12.4	-108.28	-260.2	28.6	661.1	643.6	17.52	37.735	
9,450.0	9,341.3	9,507.7	9,392.1	10.4	12.4	-105.90	-306.3	28.4	673.6	655.8	17.78	37.887	
9,500.0	9,367.6	9,560.3	9,414.5	10.5	12.5	-103.55	-354.0	28.1	686.5	668.4	18.07	37.985	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - BOO RADLEY COM #705H - OWB - PWP1 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8877-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,550.0	9,390.2	9,612.2	9,432.1	10.6	12.5	-101.25	-402.8	27.9	699.8	681.4	18.40	38.028	
9,600.0	9,408.7	9,663.4	9,445.1	10.8	12.6	-99.00	-452.3	27.6	713.4	694.6	18.76	38.019	
9,650.0	9,423.2	9,713.9	9,453.6	10.9	12.6	-96.81	-502.1	27.4	727.2	708.0	19.16	37.962	
9,700.0	9,433.4	9,763.9	9,457.6	11.1	12.6	-94.70	-551.9	27.1	741.0	721.4	19.57	37.866	
9,750.0	9,439.4	9,809.5	9,457.9	11.3	12.6	-92.75	-597.4	27.0	754.8	734.9	19.97	37.795	
9,796.2	9,441.0	9,851.0	9,457.7	11.4	12.6	-91.24	-639.0	27.1	767.8	747.4	20.36	37.707	
9,800.0	9,441.0	9,854.7	9,457.7	11.5	12.6	-91.24	-642.6	27.1	768.9	748.5	20.40	37.697	
9,900.0	9,440.5	9,951.2	9,457.2	11.9	12.6	-91.20	-739.2	27.3	794.9	773.6	21.34	37.245	
10,000.0	9,440.1	10,048.6	9,456.8	12.3	12.7	-91.16	-836.6	27.5	817.6	795.2	22.38	36.536	
10,100.0	9,439.6	10,146.7	9,456.3	12.8	12.7	-91.14	-934.7	27.8	836.9	813.4	23.49	35.625	
10,200.0	9,439.2	10,245.5	9,455.9	13.4	12.7	-91.12	-1,033.4	28.0	852.7	828.0	24.67	34.561	
10,300.0	9,438.7	10,344.7	9,455.5	13.9	12.8	-91.11	-1,132.6	28.2	865.1	839.2	25.91	33.385	
10,400.0	9,438.3	10,444.3	9,455.0	14.5	13.0	-91.10	-1,232.2	28.5	874.0	846.8	27.20	32.128	
10,500.0	9,437.8	10,544.1	9,454.6	15.1	13.8	-91.10	-1,332.1	28.7	879.4	850.9	28.54	30.817	
10,606.4	9,437.3	10,650.5	9,454.1	15.8	14.5	-91.11	-1,438.4	29.0	881.3	851.3	30.00	29.383	
10,700.0	9,436.9	10,744.1	9,453.7	16.4	15.2	-91.11	-1,532.1	29.2	881.3	850.0	31.31	28.149	
10,800.0	9,436.4	10,844.1	9,453.2	17.0	16.0	-91.11	-1,632.1	29.4	881.3	848.5	32.74	26.917	
10,900.0	9,436.0	10,944.1	9,452.8	17.7	16.8	-91.11	-1,732.1	29.7	881.3	847.1	34.20	25.769	
11,000.0	9,435.5	11,044.1	9,452.3	18.4	17.6	-91.11	-1,832.0	29.9	881.2	845.5	35.68	24.698	
11,100.0	9,435.1	11,144.1	9,451.9	19.1	18.4	-91.11	-1,932.0	30.2	881.2	844.0	37.18	23.700	
11,200.0	9,434.6	11,244.1	9,451.4	19.8	19.2	-91.11	-2,032.0	30.4	881.2	842.5	38.70	22.769	
11,300.0	9,434.2	11,344.1	9,451.0	20.5	20.0	-91.11	-2,132.0	30.6	881.1	840.9	40.23	21.900	
11,400.0	9,433.8	11,444.1	9,450.5	21.2	20.8	-91.11	-2,232.0	30.9	881.1	839.3	41.78	21.087	
11,500.0	9,433.3	11,544.1	9,450.1	22.0	21.6	-91.11	-2,332.0	31.1	881.1	837.7	43.35	20.327	
11,600.0	9,432.9	11,644.1	9,449.6	22.7	22.4	-91.11	-2,432.0	31.3	881.1	836.1	44.92	19.614	
11,700.0	9,432.4	11,744.1	9,449.2	23.5	23.2	-91.11	-2,532.0	31.6	881.0	834.5	46.50	18.946	
11,800.0	9,432.0	11,844.1	9,448.7	24.2	24.0	-91.11	-2,632.0	31.8	881.0	832.9	48.10	18.318	
11,900.0	9,431.5	11,944.1	9,448.3	25.0	24.8	-91.11	-2,732.0	32.1	881.0	831.3	49.70	17.727	
12,000.0	9,431.1	12,044.1	9,447.8	25.8	25.7	-91.11	-2,832.0	32.3	880.9	829.6	51.31	17.171	
12,100.0	9,430.6	12,144.1	9,447.4	26.6	26.5	-91.11	-2,932.0	32.5	880.9	828.0	52.92	16.646	
12,200.0	9,430.2	12,244.1	9,446.9	27.4	27.3	-91.11	-3,032.0	32.8	880.9	826.3	54.54	16.150	
12,300.0	9,429.7	12,344.1	9,446.5	28.2	28.1	-91.11	-3,132.0	33.0	880.9	824.7	56.17	15.682	
12,400.0	9,429.3	12,444.1	9,446.0	29.0	29.0	-91.11	-3,232.0	33.3	880.8	823.0	57.80	15.238	
12,500.0	9,428.8	12,544.1	9,445.6	29.8	29.8	-91.11	-3,332.0	33.5	880.8	821.4	59.44	14.818	
12,600.0	9,428.4	12,644.1	9,445.1	30.6	30.6	-91.11	-3,432.0	33.7	880.8	819.7	61.08	14.419	
12,700.0	9,427.9	12,744.1	9,444.7	31.4	31.5	-91.11	-3,532.0	34.0	880.7	818.0	62.73	14.040	
12,800.0	9,427.5	12,844.1	9,444.3	32.2	32.3	-91.11	-3,632.0	34.2	880.7	816.3	64.38	13.680	
12,900.0	9,427.0	12,944.1	9,443.8	33.0	33.2	-91.11	-3,732.0	34.5	880.7	814.6	66.03	13.337	
13,000.0	9,426.6	13,044.1	9,443.4	33.8	34.0	-91.11	-3,832.0	34.7	880.6	813.0	67.69	13.010	
13,100.0	9,426.1	13,144.1	9,442.9	34.6	34.8	-91.11	-3,932.0	34.9	880.6	811.3	69.35	12.698	
13,200.0	9,425.7	13,244.1	9,442.5	35.4	35.7	-91.11	-4,032.0	35.2	880.6	809.6	71.01	12.401	
13,300.0	9,425.2	13,344.1	9,442.0	36.2	36.5	-91.11	-4,132.0	35.4	880.6	807.9	72.68	12.116	
13,400.0	9,424.8	13,444.1	9,441.6	37.1	37.4	-91.11	-4,232.0	35.7	880.5	806.2	74.34	11.844	
13,500.0	9,424.3	13,544.1	9,441.1	37.9	38.2	-91.11	-4,332.0	35.9	880.5	804.5	76.01	11.583	
13,600.0	9,423.9	13,644.1	9,440.7	38.7	39.1	-91.11	-4,432.0	36.1	880.5	802.8	77.69	11.334	
13,700.0	9,423.4	13,744.1	9,440.2	39.5	39.9	-91.11	-4,532.0	36.4	880.4	801.1	79.36	11.094	
13,800.0	9,423.0	13,844.1	9,439.8	40.4	40.7	-91.11	-4,632.0	36.6	880.4	799.4	81.04	10.864	
13,900.0	9,422.5	13,944.1	9,439.3	41.2	41.6	-91.11	-4,732.0	36.9	880.4	797.7	82.71	10.644	
14,000.0	9,422.1	14,044.1	9,438.9	42.0	42.4	-91.11	-4,832.0	37.1	880.4	796.0	84.39	10.432	
14,100.0	9,421.6	14,144.1	9,438.4	42.9	43.3	-91.11	-4,932.0	37.3	880.3	794.3	86.07	10.227	
14,200.0	9,421.2	14,244.1	9,438.0	43.7	44.1	-91.11	-5,032.0	37.6	880.3	792.5	87.76	10.031	
14,300.0	9,420.7	14,344.1	9,437.5	44.5	45.0	-91.11	-5,132.0	37.8	880.3	790.8	89.44	9.842	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - BOO RADLEY COM #705H - OWB - PWP1 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8877-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,400.0	9,420.3	14,444.1	9,437.1	45.4	45.8	-91.11	-5,232.0	38.1	880.2	789.1	91.13	9.660	
14,500.0	9,419.8	14,544.1	9,436.6	46.2	46.7	-91.11	-5,332.0	38.3	880.2	787.4	92.81	9.484	
14,600.0	9,419.4	14,644.1	9,436.2	47.0	47.5	-91.11	-5,432.0	38.5	880.2	785.7	94.50	9.314	
14,681.5	9,419.0	14,725.6	9,435.8	47.7	48.2	-91.11	-5,513.5	38.7	880.2	784.3	95.87	9.180	
14,700.0	9,418.9	14,744.8	9,435.7	47.9	48.4	-91.12	-5,532.7	38.8	880.1	783.9	96.19	9.149	
14,800.0	9,418.5	14,844.8	9,435.3	48.7	49.2	-91.13	-5,632.7	38.9	877.6	779.7	97.88	8.966	
14,900.0	9,418.0	14,944.6	9,434.8	49.5	50.1	-91.15	-5,732.5	39.1	871.6	772.0	99.57	8.753	
14,910.9	9,418.0	14,955.4	9,434.8	49.6	50.2	-91.15	-5,743.3	39.1	870.7	771.0	99.76	8.729	
15,000.0	9,417.5	15,044.3	9,434.4	50.4	50.9	-91.16	-5,832.1	39.2	863.5	762.3	101.26	8.528	
15,100.0	9,417.1	15,143.9	9,433.9	51.2	51.8	-91.18	-5,931.8	39.4	855.4	752.5	102.95	8.309	
15,200.0	9,416.6	15,243.6	9,433.5	52.1	52.6	-91.19	-6,031.5	39.6	847.3	742.7	104.64	8.097	
15,267.5	9,416.3	15,310.8	9,433.2	52.6	53.2	-91.20	-6,098.7	39.7	841.9	736.1	105.78	7.959	
15,300.0	9,416.1	15,343.3	9,433.1	52.9	53.5	-91.20	-6,131.2	39.7	839.4	733.1	106.33	7.894	
15,400.0	9,415.7	15,443.1	9,432.6	53.7	54.3	-91.19	-6,231.0	39.9	834.2	726.1	108.02	7.722	
15,499.9	9,415.2	15,543.0	9,432.2	54.6	55.2	-91.19	-6,330.9	40.1	832.4	722.7	109.72	7.587	
15,500.0	9,415.2	15,543.1	9,432.2	54.6	55.2	-91.19	-6,331.0	40.1	832.4	722.7	109.72	7.587	
15,600.0	9,414.8	15,643.1	9,431.7	55.4	56.0	-91.18	-6,431.0	40.2	834.2	722.8	111.42	7.487	
15,654.5	9,414.5	15,697.6	9,431.5	55.9	56.5	-91.17	-6,485.4	40.3	836.6	724.3	112.34	7.447	
15,700.0	9,414.3	15,743.0	9,431.3	56.3	56.9	-91.17	-6,530.9	40.4	839.1	725.9	113.11	7.418	
15,800.0	9,413.9	15,842.8	9,430.8	57.1	57.7	-91.16	-6,630.7	40.5	844.4	729.6	114.80	7.356	
15,900.0	9,413.4	15,942.7	9,430.4	57.9	58.6	-91.15	-6,730.6	40.7	849.8	733.4	116.49	7.295	
16,000.0	9,413.0	16,042.5	9,429.9	58.8	59.4	-91.14	-6,830.4	40.9	855.2	737.1	118.19	7.236	
16,100.0	9,412.5	16,142.4	9,429.5	59.6	60.3	-91.14	-6,930.3	41.0	860.6	740.8	119.88	7.179	
16,200.0	9,412.0	16,242.2	9,429.0	60.5	61.1	-91.13	-7,030.1	41.2	866.0	744.4	121.57	7.123	
16,300.0	9,411.6	16,342.1	9,428.6	61.3	62.0	-91.12	-7,130.0	41.3	871.4	748.1	123.27	7.069	
16,379.5	9,411.2	16,421.5	9,428.2	62.0	62.7	-91.12	-7,209.4	41.5	875.7	751.1	124.62	7.027	
16,400.0	9,411.1	16,442.0	9,428.1	62.2	62.9	-91.12	-7,229.8	41.5	876.7	751.8	124.96	7.016	
16,500.0	9,410.7	16,541.9	9,427.7	63.0	63.7	-91.12	-7,329.8	41.7	879.7	753.0	126.66	6.945	
16,533.9	9,410.5	16,575.8	9,427.5	63.3	64.0	-91.13	-7,363.7	41.7	879.9	752.6	127.24	6.915	
16,600.0	9,410.2	16,641.9	9,427.2	63.9	64.6	-91.13	-7,429.8	41.8	879.9	751.5	128.36	6.855	
16,700.0	9,409.8	16,741.9	9,426.8	64.7	65.4	-91.13	-7,529.8	42.0	879.9	749.8	130.07	6.765	
16,800.0	9,409.4	16,841.9	9,426.3	65.5	66.3	-91.13	-7,629.8	42.1	879.9	748.1	131.77	6.678	
16,900.0	9,408.9	16,941.9	9,425.9	66.4	67.1	-91.13	-7,729.8	42.3	879.9	746.4	133.47	6.592	
17,000.0	9,408.5	17,041.9	9,425.4	67.2	68.0	-91.13	-7,829.8	42.5	879.9	744.7	135.18	6.509	
17,100.0	9,408.0	17,141.9	9,425.0	68.1	68.8	-91.13	-7,929.8	42.6	879.9	743.0	136.88	6.428	
17,200.0	9,407.6	17,241.9	9,424.5	68.9	69.7	-91.13	-8,029.8	42.8	879.9	741.4	138.58	6.349	
17,300.0	9,407.1	17,341.9	9,424.1	69.8	70.5	-91.13	-8,129.8	43.0	879.9	739.7	140.29	6.272	
17,400.0	9,406.7	17,441.9	9,423.6	70.6	71.4	-91.12	-8,229.8	43.1	880.0	738.0	141.99	6.197	
17,500.0	9,406.2	17,541.9	9,423.2	71.5	72.3	-91.12	-8,329.8	43.3	880.0	736.3	143.70	6.124	
17,600.0	9,405.8	17,641.9	9,422.8	72.3	73.1	-91.12	-8,429.8	43.4	880.0	734.6	145.40	6.052	
17,700.0	9,405.3	17,741.9	9,422.3	73.2	74.0	-91.12	-8,529.8	43.6	880.0	732.9	147.11	5.982	
17,800.0	9,404.9	17,841.9	9,421.9	74.0	74.8	-91.12	-8,629.8	43.8	880.0	731.2	148.82	5.913	
17,900.0	9,404.4	17,941.9	9,421.4	74.9	75.7	-91.12	-8,729.8	43.9	880.0	729.5	150.52	5.846	
18,000.0	9,404.0	18,041.9	9,421.0	75.7	76.5	-91.12	-8,829.8	44.1	880.0	727.8	152.23	5.781	
18,100.0	9,403.5	18,141.9	9,420.5	76.6	77.4	-91.12	-8,929.8	44.2	880.0	726.1	153.94	5.717	
18,200.0	9,403.1	18,241.9	9,420.1	77.4	78.2	-91.12	-9,029.8	44.4	880.0	724.4	155.64	5.654	
18,300.0	9,402.7	18,341.9	9,419.6	78.3	79.1	-91.12	-9,129.8	44.6	880.0	722.7	157.35	5.593	
18,400.0	9,402.2	18,441.9	9,419.2	79.1	80.0	-91.12	-9,229.8	44.7	880.0	721.0	159.06	5.533	
18,500.0	9,401.8	18,541.9	9,418.7	80.0	80.8	-91.12	-9,329.8	44.9	880.0	719.3	160.77	5.474	
18,600.0	9,401.3	18,641.9	9,418.3	80.8	81.7	-91.12	-9,429.8	45.1	880.1	717.6	162.48	5.417	
18,700.0	9,400.9	18,741.9	9,417.8	81.7	82.5	-91.12	-9,529.8	45.2	880.1	715.9	164.19	5.360	
18,800.0	9,400.4	18,841.9	9,417.4	82.6	83.4	-91.12	-9,629.8	45.4	880.1	714.2	165.89	5.305	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - BOO RADLEY COM #705H - OWB - PWP1 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8877-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,900.0	9,400.0	18,941.9	9,416.9	83.4	84.2	-91.12	-9,729.8	45.5	880.1	712.5	167.60	5.251	
19,000.0	9,399.5	19,041.9	9,416.5	84.3	85.1	-91.12	-9,829.8	45.7	880.1	710.8	169.31	5.198	
19,100.0	9,399.1	19,141.9	9,416.0	85.1	85.9	-91.12	-9,929.7	45.9	880.1	709.1	171.02	5.146	
19,200.0	9,398.6	19,241.9	9,415.6	86.0	86.8	-91.12	-10,029.7	46.0	880.1	707.4	172.73	5.095	
19,300.0	9,398.2	19,341.9	9,415.1	86.8	87.7	-91.12	-10,129.7	46.2	880.1	705.7	174.44	5.045	
19,400.0	9,397.7	19,441.9	9,414.7	87.7	88.5	-91.12	-10,229.7	46.3	880.1	704.0	176.15	4.996	
19,500.0	9,397.3	19,541.9	9,414.2	88.5	89.4	-91.12	-10,329.7	46.5	880.1	702.3	177.86	4.948	
19,600.0	9,396.9	19,641.9	9,413.8	89.4	90.2	-91.12	-10,429.7	46.7	880.1	700.6	179.57	4.901	
19,700.0	9,396.4	19,741.9	9,413.3	90.2	91.1	-91.12	-10,529.7	46.8	880.1	698.9	181.28	4.855	
19,800.0	9,396.0	19,841.9	9,412.9	91.1	91.9	-91.12	-10,629.7	47.0	880.2	697.2	182.99	4.810	
19,900.0	9,395.5	19,941.9	9,412.4	91.9	92.8	-91.12	-10,729.7	47.2	880.2	695.5	184.70	4.765	
19,971.4	9,395.2	20,013.3	9,412.1	92.5	93.4	-91.12	-10,801.1	47.3	880.2	694.2	185.92	4.734	
19,973.2	9,395.2	20,015.1	9,412.1	92.6	93.4	-91.12	-10,802.9	47.3	880.2	694.2	185.95	4.733	
19,979.4	9,395.2	20,020.8	9,412.1	92.6	93.5	-91.12	-10,808.7	47.3	880.2	694.1	186.05	4.731	
20,000.0	9,395.1	20,041.4	9,412.0	92.8	93.6	-91.12	-10,829.3	47.3	880.2	693.8	186.41	4.722	
20,100.0	9,394.6	20,141.4	9,411.6	93.6	94.5	-91.12	-10,929.3	47.5	880.2	692.1	188.12	4.679	
20,200.0	9,394.2	20,241.4	9,411.1	94.5	95.4	-91.12	-11,029.3	47.8	880.2	690.3	189.83	4.637	
20,300.0	9,393.7	20,341.4	9,410.7	95.4	96.2	-91.12	-11,129.3	48.0	880.2	688.6	191.54	4.595	
20,400.0	9,393.3	20,441.4	9,410.2	96.2	97.1	-91.12	-11,229.3	48.2	880.2	686.9	193.25	4.555	
20,500.0	9,392.8	20,541.4	9,409.8	97.1	97.9	-91.12	-11,329.2	48.4	880.2	685.2	194.96	4.515	
20,600.0	9,392.4	20,641.4	9,409.3	97.9	98.8	-91.12	-11,429.2	48.6	880.2	683.5	196.67	4.475	
20,700.0	9,391.9	20,741.4	9,408.9	98.8	99.6	-91.12	-11,529.2	48.8	880.2	681.8	198.39	4.437	
20,800.0	9,391.5	20,841.4	9,408.4	99.6	100.5	-91.12	-11,629.2	49.1	880.2	680.1	200.10	4.399	
20,900.0	9,391.0	20,941.4	9,408.0	100.5	101.4	-91.12	-11,729.2	49.3	880.2	678.4	201.81	4.361	
21,000.0	9,390.6	21,041.4	9,407.5	101.3	102.2	-91.12	-11,829.2	49.5	880.2	676.7	203.52	4.325	
21,100.0	9,390.1	21,141.4	9,407.1	102.2	103.1	-91.12	-11,929.2	49.7	880.2	674.9	205.23	4.289	
21,200.0	9,389.7	21,241.4	9,406.7	103.0	103.9	-91.12	-12,029.2	49.9	880.2	673.2	206.95	4.253	
21,300.0	9,389.2	21,341.4	9,406.2	103.9	104.8	-91.12	-12,129.2	50.1	880.2	671.5	208.66	4.218	
21,400.0	9,388.8	21,441.4	9,405.8	104.8	105.7	-91.12	-12,229.2	50.4	880.2	669.8	210.37	4.184	
21,500.0	9,388.3	21,541.4	9,405.3	105.6	106.5	-91.12	-12,329.2	50.6	880.2	668.1	212.08	4.150	
21,600.0	9,387.9	21,641.4	9,404.9	106.5	107.4	-91.12	-12,429.2	50.8	880.2	666.4	213.80	4.117	
21,700.0	9,387.5	21,741.4	9,404.4	107.3	108.2	-91.12	-12,529.2	51.0	880.2	664.7	215.51	4.084	
21,800.0	9,387.0	21,841.4	9,404.0	108.2	109.1	-91.13	-12,629.2	51.2	880.2	663.0	217.22	4.052	
21,900.0	9,386.6	21,941.4	9,403.5	109.0	109.9	-91.13	-12,729.2	51.4	880.2	661.2	218.94	4.020	
22,000.0	9,386.1	22,041.4	9,403.1	109.9	110.8	-91.13	-12,829.2	51.7	880.2	659.5	220.65	3.989	
22,001.7	9,386.1	22,043.1	9,403.1	109.9	110.8	-91.13	-12,830.9	51.7	880.2	659.5	220.68	3.989	
22,023.7	9,386.0	22,062.6	9,403.0	110.1	111.0	-91.13	-12,850.4	51.7	880.2	659.2	221.02	3.982	SF
22,024.2	9,386.0	22,062.6	9,403.0	110.1	111.0	-91.13	-12,850.4	51.7	880.2	659.2	221.03	3.982	

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - SKEEN 21 DM STATE 1H - OWB - AWP — **Offset Site Error:** 3.0 usft

Survey Program: 100-GYRO-NS, 7413-MWD — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	12.1	12.1	3.0	3.0	-112.21	-366.8	-898.4	970.4				
100.0	100.0	109.8	109.8	3.0	3.0	-112.22	-367.1	-898.4	970.5	964.5	6.02	161.310	
200.0	200.0	211.6	211.6	3.0	3.1	-112.24	-367.4	-898.4	970.6	964.5	6.10	159.001	
300.0	300.0	302.4	302.3	3.0	3.2	-112.25	-367.7	-898.8	971.2	965.0	6.22	156.028	
400.0	400.0	400.0	400.0	3.0	3.4	-112.25	-368.2	-900.0	972.5	966.1	6.39	152.123	
500.0	500.0	502.8	502.8	3.1	3.6	-112.24	-368.6	-901.2	973.7	967.1	6.58	147.895	
600.0	600.0	605.0	605.0	3.1	3.8	-112.23	-368.7	-902.1	974.6	967.8	6.78	143.648	
700.0	700.0	716.4	716.4	3.1	4.1	-112.22	-368.6	-902.3	974.7	967.7	7.01	139.067	
800.0	800.0	823.7	823.7	3.2	4.4	-112.25	-368.8	-901.3	973.9	966.6	7.26	134.203	
900.0	900.0	923.0	922.9	3.2	4.6	-112.28	-368.7	-900.0	972.7	965.2	7.51	129.513	
1,000.0	1,000.0	1,018.6	1,018.6	3.2	4.9	-112.32	-369.1	-899.0	971.9	964.1	7.76	125.164	
1,100.0	1,100.0	1,118.3	1,118.2	3.3	5.2	-112.38	-369.8	-898.1	971.3	963.2	8.05	120.724	
1,200.0	1,200.0	1,218.3	1,218.3	3.4	5.5	-112.46	-370.8	-897.0	970.6	962.3	8.34	116.338	
1,300.0	1,300.0	1,315.4	1,315.3	3.4	5.8	-112.52	-371.6	-896.1	970.2	961.5	8.65	112.184	
1,355.3	1,355.3	1,367.8	1,367.7	3.4	6.0	-112.55	-372.0	-895.9	970.1	961.2	8.82	109.928	
1,400.0	1,400.0	1,410.3	1,410.2	3.5	6.1	-112.56	-372.2	-895.9	970.1	961.2	8.97	108.150	
1,500.0	1,500.0	1,506.7	1,506.6	3.5	6.3	-112.57	-372.4	-896.2	970.5	961.2	9.31	104.234	
1,600.0	1,600.0	1,602.1	1,602.0	3.6	6.7	-112.55	-372.5	-897.1	971.4	961.7	9.63	100.830	
1,700.0	1,700.0	1,720.5	1,720.4	3.7	7.0	-112.48	-371.5	-897.7	971.6	961.5	10.07	96.473	
1,800.0	1,800.0	1,841.7	1,841.6	3.8	7.4	-112.34	-368.4	-896.3	969.5	958.9	10.62	91.304	
1,900.0	1,900.0	1,961.2	1,961.0	3.9	7.8	-112.17	-363.9	-893.1	965.6	954.5	11.09	87.035	
2,000.0	2,000.0	2,090.5	2,090.0	3.9	8.3	-111.97	-357.6	-886.6	959.1	947.5	11.68	82.149	
2,100.0	2,100.0	2,201.0	2,200.0	4.0	8.8	-111.76	-350.9	-878.9	950.4	938.3	12.15	78.231	
2,200.0	2,200.0	2,295.5	2,294.0	4.1	9.1	-111.62	-345.6	-871.9	941.5	929.0	12.50	75.292	
2,300.0	2,300.0	2,375.2	2,373.5	4.2	9.4	-111.55	-342.2	-866.7	933.8	921.0	12.88	72.527	
2,400.0	2,400.0	2,464.1	2,462.2	4.3	9.8	-111.50	-339.7	-862.2	928.0	914.8	13.27	69.910	
2,500.0	2,500.0	2,557.4	2,555.4	4.4	10.1	-111.48	-337.6	-858.0	923.0	909.4	13.65	67.629	
2,600.0	2,600.0	2,652.5	2,650.4	4.5	10.4	-11.00	-335.7	-854.3	916.9	903.0	13.98	65.572	
2,700.0	2,699.8	2,746.9	2,744.8	4.5	10.7	-11.07	-334.0	-851.0	907.9	893.6	14.30	63.476	
2,750.4	2,750.1	2,793.5	2,791.4	4.5	10.9	-11.12	-333.2	-849.6	902.3	887.9	14.46	62.386	
2,800.0	2,799.5	2,839.5	2,837.3	4.5	11.0	-11.16	-332.4	-848.4	896.6	882.0	14.62	61.311	
2,900.0	2,899.1	2,933.0	2,930.8	4.5	11.4	-11.23	-331.1	-846.4	885.5	870.6	14.95	59.226	
3,000.0	2,998.7	3,028.7	3,026.5	4.5	11.7	-11.31	-330.1	-844.8	875.1	859.8	15.29	57.226	
3,100.0	3,098.3	3,125.9	3,123.7	4.6	12.0	-11.41	-329.3	-843.4	864.8	849.2	15.64	55.292	
3,200.0	3,198.0	3,221.7	3,219.4	4.6	12.3	-11.51	-328.7	-842.4	855.1	839.1	15.99	53.474	
3,300.0	3,297.6	3,320.7	3,318.4	4.7	12.7	-11.62	-328.2	-841.5	845.5	829.1	16.35	51.702	
3,400.0	3,397.2	3,417.7	3,415.4	4.7	13.0	-11.72	-327.7	-840.8	836.0	819.3	16.72	50.017	
3,500.0	3,496.8	3,512.9	3,510.6	4.8	13.3	-11.82	-327.3	-840.5	827.1	810.0	17.08	48.419	
3,600.0	3,596.4	3,612.3	3,610.0	4.8	13.7	-11.93	-327.0	-840.5	818.4	800.9	17.46	46.862	
3,700.0	3,696.1	3,709.5	3,707.2	4.9	14.0	-12.04	-326.9	-840.6	809.9	792.1	17.82	45.447	
3,800.0	3,795.7	3,813.9	3,811.7	4.9	14.3	-12.17	-326.8	-840.4	801.2	782.9	18.21	43.995	
3,900.0	3,895.3	3,911.3	3,909.0	5.0	14.6	-12.31	-326.7	-840.1	792.3	773.7	18.58	42.636	
4,000.0	3,994.9	4,007.3	4,005.0	5.0	14.9	-12.44	-326.7	-840.2	783.8	764.9	18.95	41.368	
4,100.0	4,094.5	4,103.4	4,101.1	5.1	15.3	-12.57	-326.9	-840.6	775.8	756.5	19.32	40.152	
4,200.0	4,194.1	4,202.4	4,200.1	5.2	15.6	-12.71	-327.2	-841.4	768.1	748.4	19.72	38.959	
4,300.0	4,293.8	4,305.9	4,303.6	5.2	15.9	-12.86	-327.4	-841.9	760.2	740.0	20.13	37.766	
4,400.0	4,393.4	4,401.9	4,399.6	5.3	16.3	-12.99	-327.4	-842.5	752.2	731.7	20.51	36.676	
4,500.0	4,493.0	4,500.0	4,497.7	5.4	16.6	-13.14	-327.8	-843.4	744.7	723.8	20.91	35.623	
4,600.0	4,592.6	4,600.1	4,597.8	5.5	17.0	-13.32	-328.6	-844.2	737.3	716.0	21.32	34.580	
4,700.0	4,692.2	4,694.9	4,692.6	5.6	17.3	-13.51	-329.6	-845.2	730.1	708.4	21.72	33.620	
4,800.0	4,791.9	4,793.8	4,791.5	5.6	17.6	-13.75	-331.1	-846.3	723.4	701.2	22.13	32.684	
4,900.0	4,891.5	4,893.8	4,891.4	5.7	18.0	-14.01	-333.0	-847.4	716.6	694.1	22.55	31.774	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - SKEEN 21 DM STATE 1H - OWB - AWP — **Offset Site Error:** 3.0 usft

Survey Program: 100-GYRO-NS, 7413-MWD — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,991.1	4,993.3	4,990.9	5.8	18.3	-14.27	-334.7	-848.5	709.9	686.9	22.98	30.898	
5,100.0	5,090.7	5,092.8	5,090.4	5.9	18.7	-14.52	-336.2	-849.8	703.2	679.8	23.40	30.055	
5,200.0	5,190.3	5,190.7	5,188.3	6.0	19.0	-14.75	-337.6	-851.2	696.7	672.9	23.81	29.257	
5,300.0	5,289.9	5,294.4	5,292.0	6.1	19.4	-15.02	-339.4	-852.5	690.1	665.8	24.26	28.448	
5,400.0	5,389.6	5,392.2	5,389.7	6.2	19.7	-15.30	-341.0	-853.5	683.3	658.6	24.68	27.688	
5,500.0	5,489.2	5,496.4	5,493.9	6.3	20.1	-15.62	-342.9	-854.3	676.4	651.2	25.13	26.917	
5,600.0	5,588.8	5,595.8	5,593.3	6.4	20.4	-15.96	-344.9	-854.6	669.1	643.5	25.56	26.182	
5,700.0	5,688.4	5,698.4	5,695.9	6.4	20.7	-16.35	-347.1	-854.6	661.7	635.7	26.00	25.452	
5,800.0	5,788.0	5,797.0	5,794.5	6.5	21.1	-16.73	-349.2	-854.4	654.1	627.7	26.42	24.757	
5,900.0	5,887.7	5,895.9	5,893.3	6.6	21.4	-17.13	-351.4	-854.4	646.8	619.9	26.85	24.089	
6,000.0	5,987.3	5,991.7	5,989.1	6.7	21.7	-17.55	-354.0	-854.4	639.7	612.5	27.26	23.468	
6,100.0	6,086.9	6,088.3	6,085.6	6.8	22.1	-18.01	-357.1	-854.9	633.3	605.7	27.68	22.883	
6,200.0	6,186.5	6,185.8	6,183.1	6.9	22.4	-18.49	-360.5	-855.7	627.4	599.3	28.10	22.328	
6,300.0	6,286.1	6,283.0	6,280.2	7.0	22.7	-18.98	-364.1	-856.7	621.8	593.3	28.52	21.805	
6,400.0	6,385.7	6,377.6	6,374.8	7.1	23.1	-19.48	-367.9	-858.1	616.9	588.0	28.92	21.330	
6,500.0	6,485.4	6,473.3	6,470.3	7.3	23.4	-19.97	-372.0	-860.3	612.9	583.5	29.33	20.893	
6,600.0	6,585.0	6,572.8	6,569.6	7.4	23.8	-20.50	-376.7	-862.9	609.3	579.5	29.76	20.471	
6,700.0	6,684.6	6,675.4	6,672.1	7.5	24.1	-21.08	-381.5	-865.2	605.5	575.2	30.21	20.043	
6,800.0	6,784.2	6,778.3	6,774.9	7.6	24.5	-21.58	-385.3	-867.5	601.2	570.5	30.66	19.609	
6,900.0	6,883.8	6,881.2	6,877.8	7.7	24.8	-21.98	-387.8	-870.0	596.4	565.3	31.11	19.173	
7,000.0	6,983.5	6,974.8	6,971.3	7.8	25.2	-22.21	-389.0	-873.1	591.8	560.3	31.51	18.779	
7,100.0	7,083.1	7,073.1	7,069.5	7.9	25.5	-22.31	-389.5	-878.0	588.1	556.2	31.95	18.409	
7,200.0	7,182.7	7,173.1	7,169.4	8.0	25.9	-22.36	-389.5	-883.2	584.4	552.0	32.39	18.044	
7,300.0	7,282.3	7,275.2	7,271.3	8.1	26.2	-22.44	-389.7	-888.2	580.6	547.8	32.84	17.680	
7,400.0	7,381.9	7,374.6	7,370.7	8.2	26.5	-22.56	-390.1	-892.7	576.5	543.3	33.28	17.326	
7,451.6	7,433.3	7,403.4	7,399.3	8.3	26.6	-22.60	-390.5	-894.3	575.4	542.0	33.34	17.257	CC, ES, SF
7,500.0	7,481.5	7,426.1	7,422.0	8.3	26.7	-22.67	-391.7	-896.3	576.4	543.1	33.34	17.292	
7,600.0	7,581.2	7,482.4	7,477.4	8.5	26.7	-23.12	-399.1	-902.7	585.0	551.7	33.32	17.560	
7,700.0	7,680.8	7,569.1	7,560.7	8.6	26.8	-24.79	-421.4	-910.4	599.2	565.8	33.40	17.942	
7,800.0	7,780.4	7,642.9	7,629.4	8.7	26.9	-27.06	-448.4	-911.3	615.6	582.2	33.37	18.446	
7,900.0	7,880.0	7,707.4	7,686.4	8.8	26.9	-29.58	-478.3	-909.4	637.6	604.3	33.28	19.157	
8,000.0	7,979.6	7,762.0	7,732.7	8.9	26.9	-31.93	-507.2	-906.7	665.9	632.8	33.15	20.089	
8,100.0	8,079.3	7,808.7	7,770.5	9.0	27.0	-34.00	-534.4	-904.5	701.5	668.5	33.00	21.255	
8,200.0	8,178.9	7,848.2	7,801.2	9.1	27.0	-35.74	-559.2	-903.3	744.3	711.5	32.85	22.661	
8,300.0	8,278.5	7,889.0	7,831.1	9.3	27.1	-37.56	-587.0	-902.3	794.1	761.4	32.73	24.265	
8,400.0	8,378.1	7,907.6	7,843.9	9.4	27.1	-38.40	-600.6	-901.9	850.1	817.6	32.50	26.153	
8,500.0	8,477.7	7,933.1	7,860.5	9.5	27.2	-39.54	-619.8	-901.4	911.7	879.4	32.36	28.174	
8,600.0	8,577.3	7,952.0	7,872.3	9.6	27.2	-40.37	-634.6	-901.3	978.1	945.9	32.21	30.367	
8,700.0	8,677.0	7,983.0	7,890.4	9.7	27.3	-41.70	-659.7	-901.3	1,048.7	1,016.5	32.20	32.568	
8,800.0	8,776.6	7,983.0	7,890.4	9.8	27.3	-41.70	-659.7	-901.3	1,122.8	1,090.8	32.00	35.085	
8,900.0	8,876.2	8,015.0	7,907.4	10.0	27.4	-43.04	-686.9	-901.4	1,199.6	1,167.5	32.10	37.374	
8,916.0	8,892.1	8,015.0	7,907.4	10.0	27.4	-43.04	-686.9	-901.4	1,212.1	1,180.0	32.08	37.786	
8,950.0	8,926.0	8,015.0	7,907.4	10.0	27.4	-19.49	-686.9	-901.4	1,238.5	1,206.7	31.81	38.931	
9,000.0	8,975.3	8,027.1	7,913.4	10.0	27.4	-6.04	-697.4	-901.4	1,275.4	1,243.6	31.81	40.096	
9,050.0	9,023.8	8,046.0	7,922.1	10.0	27.4	-1.12	-714.1	-901.4	1,310.4	1,278.5	31.85	41.147	
9,100.0	9,071.2	8,046.0	7,922.1	10.0	27.4	1.48	-714.1	-901.4	1,342.8	1,311.0	31.74	42.302	
9,150.0	9,117.0	8,046.0	7,922.1	10.1	27.4	2.86	-714.1	-901.4	1,373.0	1,341.4	31.63	43.402	
9,200.0	9,160.9	8,065.4	7,930.4	10.1	27.5	3.27	-731.6	-901.3	1,400.5	1,368.8	31.66	44.239	
9,250.0	9,202.6	8,078.0	7,935.4	10.1	27.5	3.54	-743.2	-901.1	1,425.4	1,393.8	31.63	45.066	
9,300.0	9,241.8	8,078.0	7,935.4	10.2	27.5	3.86	-743.2	-901.1	1,447.8	1,416.3	31.51	45.940	
9,350.0	9,278.2	8,096.3	7,942.1	10.2	27.6	3.79	-760.3	-900.8	1,467.2	1,435.6	31.53	46.538	
9,400.0	9,311.5	8,110.0	7,946.7	10.3	27.7	3.76	-773.2	-900.7	1,483.8	1,452.3	31.51	47.093	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - SKEEN 21 DM STATE 1H - OWB - AWP — **Offset Site Error:** 3.0 usft

Survey Program: 100-GYRO-NS, 7413-MWD — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,450.0	9,341.3	8,110.0	7,946.7	10.4	27.7	3.89	-773.2	-900.7	1,497.7	1,466.3	31.41	47.688	
9,500.0	9,367.6	8,127.5	7,951.9	10.5	27.7	3.77	-789.8	-900.5	1,508.4	1,477.0	31.43	47.997	
9,550.0	9,390.2	8,142.0	7,955.8	10.6	27.8	3.69	-803.8	-900.4	1,516.4	1,484.9	31.44	48.232	
9,600.0	9,408.7	8,142.0	7,955.8	10.8	27.8	3.78	-803.8	-900.4	1,521.3	1,489.9	31.37	48.497	
9,650.0	9,423.2	8,159.9	7,959.9	10.9	27.9	3.68	-821.2	-900.4	1,523.1	1,491.7	31.42	48.473	
9,700.0	9,433.4	8,173.0	7,962.5	11.1	27.9	3.64	-834.1	-900.4	1,522.0	1,490.6	31.46	48.379	
9,750.0	9,439.4	8,173.0	7,962.5	11.3	27.9	3.74	-834.1	-900.4	1,518.0	1,486.5	31.44	48.280	
9,796.2	9,441.0	8,205.0	7,967.5	11.4	28.1	3.53	-865.7	-900.5	1,511.3	1,479.7	31.60	47.834	
9,800.0	9,441.0	8,205.0	7,967.5	11.5	28.1	3.54	-865.7	-900.5	1,510.7	1,479.1	31.60	47.810	
9,900.0	9,440.5	8,216.0	7,968.8	11.9	28.1	3.71	-876.6	-900.4	1,496.3	1,464.6	31.69	47.221	
10,000.0	9,440.1	8,271.7	7,973.4	12.3	28.4	3.42	-932.1	-900.0	1,486.1	1,453.9	32.17	46.196	
10,100.0	9,439.6	8,313.0	7,975.4	12.8	28.6	3.22	-973.4	-899.7	1,479.9	1,447.3	32.64	45.339	
10,200.0	9,439.2	8,377.0	7,975.5	13.4	29.0	2.88	-1,037.4	-899.7	1,477.9	1,444.6	33.34	44.336	
10,218.6	9,439.1	8,377.0	7,975.5	13.5	29.0	2.88	-1,037.4	-899.7	1,477.8	1,444.4	33.41	44.234	
10,300.0	9,438.7	8,425.5	7,974.1	13.9	29.3	2.65	-1,085.8	-900.3	1,479.2	1,445.3	33.88	43.657	
10,400.0	9,438.3	8,509.0	7,971.0	14.5	29.9	2.34	-1,169.3	-901.5	1,482.2	1,447.7	34.51	42.949	
10,500.0	9,437.8	8,594.5	7,966.8	15.1	30.5	2.09	-1,254.7	-902.0	1,486.4	1,451.3	35.12	42.320	
10,606.4	9,437.3	8,816.0	7,967.5	15.8	32.4	1.96	-1,476.0	-902.8	1,483.5	1,447.3	36.29	40.878	
10,700.0	9,436.9	8,885.6	7,968.7	16.4	33.1	2.01	-1,545.6	-904.0	1,481.6	1,444.6	36.96	40.082	
10,800.0	9,436.4	9,036.7	7,973.1	17.0	34.6	2.11	-1,696.6	-905.9	1,478.1	1,440.1	38.04	38.855	
10,900.0	9,436.0	9,105.0	7,974.9	17.7	35.3	2.13	-1,764.9	-906.2	1,474.9	1,436.0	38.84	37.975	
11,000.0	9,435.5	9,232.0	7,979.9	18.4	36.7	2.09	-1,891.8	-904.6	1,470.2	1,430.2	39.99	36.763	
11,100.0	9,435.1	9,267.8	7,980.4	19.1	37.1	2.08	-1,927.6	-904.3	1,468.1	1,427.3	40.78	36.001	
11,100.0	9,435.1	9,267.8	7,980.4	19.1	37.1	2.08	-1,927.6	-904.3	1,468.1	1,427.3	40.78	36.001	
11,200.0	9,434.6	9,318.7	7,979.0	19.8	37.7	2.09	-1,978.4	-904.4	1,470.1	1,428.4	41.66	35.290	
11,300.0	9,434.2	9,484.0	7,977.2	20.5	39.6	2.14	-2,143.7	-905.2	1,470.5	1,427.4	43.03	34.171	
11,360.0	9,433.9	9,527.9	7,977.5	20.9	40.1	2.15	-2,187.6	-905.5	1,469.8	1,426.2	43.62	33.698	
11,400.0	9,433.8	9,548.0	7,977.3	21.2	40.4	2.16	-2,207.7	-905.6	1,470.1	1,426.1	43.97	33.434	
11,500.0	9,433.3	9,664.6	7,975.8	22.0	41.8	2.16	-2,324.3	-905.2	1,471.0	1,425.9	45.13	32.594	
11,600.0	9,432.9	9,758.7	7,975.2	22.7	43.0	2.13	-2,418.4	-904.3	1,471.2	1,424.9	46.25	31.813	
11,700.0	9,432.4	9,883.0	7,975.3	23.5	44.7	2.07	-2,542.6	-902.3	1,470.5	1,423.0	47.48	30.971	
11,767.4	9,432.1	9,935.3	7,975.3	24.0	45.4	2.02	-2,595.0	-900.9	1,470.2	1,422.0	48.19	30.506	
11,800.0	9,432.0	9,960.0	7,975.1	24.2	45.7	2.00	-2,619.6	-900.3	1,470.3	1,421.7	48.54	30.292	
11,900.0	9,431.5	10,038.7	7,973.6	25.0	46.8	1.91	-2,698.3	-897.9	1,471.6	1,422.0	49.61	29.660	
12,000.0	9,431.1	10,117.0	7,970.8	25.8	47.8	1.81	-2,776.5	-895.2	1,474.6	1,423.9	50.70	29.082	
12,100.0	9,430.6	10,228.4	7,967.6	26.6	49.4	1.72	-2,887.8	-892.5	1,476.8	1,424.8	52.01	28.397	
12,200.0	9,430.2	10,336.9	7,964.5	27.4	50.9	1.71	-2,996.2	-892.1	1,479.2	1,425.9	53.29	27.758	
12,300.0	9,429.7	10,475.3	7,962.2	28.2	52.8	1.84	-3,134.6	-895.3	1,480.7	1,425.9	54.78	27.031	
12,400.0	9,429.3	10,559.0	7,962.2	29.0	54.0	1.94	-3,218.2	-897.5	1,480.4	1,424.4	56.00	26.436	
12,426.6	9,429.1	10,607.0	7,962.4	29.2	54.7	1.98	-3,266.2	-898.4	1,480.0	1,423.6	56.46	26.215	
12,500.0	9,428.8	10,686.0	7,963.3	29.8	55.8	2.04	-3,345.2	-899.6	1,478.8	1,421.4	57.44	25.746	
12,539.7	9,428.6	10,708.0	7,963.4	30.1	56.2	2.05	-3,367.2	-899.9	1,478.6	1,420.7	57.87	25.548	
12,600.0	9,428.4	10,749.0	7,962.7	30.6	56.7	2.06	-3,408.2	-900.1	1,479.2	1,420.6	58.57	25.256	
12,700.0	9,427.9	10,861.1	7,961.8	31.4	58.4	1.95	-3,520.2	-896.9	1,479.4	1,419.5	59.98	24.666	
12,800.0	9,427.5	11,002.0	7,962.4	32.2	60.5	1.63	-3,660.9	-888.4	1,478.3	1,416.8	61.51	24.035	
12,900.0	9,427.0	11,065.4	7,963.1	33.0	61.5	1.60	-3,724.2	-887.2	1,477.0	1,414.3	62.69	23.561	
12,945.6	9,426.8	11,197.1	7,966.4	33.4	63.4	1.54	-3,855.8	-885.4	1,475.3	1,411.5	63.74	23.145	
13,000.0	9,426.6	11,233.0	7,968.0	33.8	64.0	1.51	-3,891.7	-884.5	1,472.6	1,408.2	64.40	22.867	
13,100.0	9,426.1	11,318.0	7,970.7	34.6	65.2	1.46	-3,976.6	-882.8	1,468.9	1,403.2	65.69	22.361	
13,200.0	9,425.7	11,392.0	7,972.3	35.4	66.4	1.43	-4,050.7	-881.9	1,466.3	1,399.4	66.93	21.908	
13,277.1	9,425.3	11,446.0	7,972.5	36.1	67.2	1.45	-4,104.6	-882.3	1,465.7	1,397.8	67.88	21.594	
13,300.0	9,425.2	11,462.3	7,972.4	36.2	67.4	1.47	-4,121.0	-882.5	1,465.8	1,397.6	68.16	21.506	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - SKEEN 21 DM STATE 1H - OWB - AWP — **Offset Site Error:** 3.0 usft

Survey Program: 100-GYRO-NS, 7413-MWD — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,400.0	9,424.8	11,538.0	7,971.0	37.1	68.6	1.53	-4,196.6	-884.0	1,467.2	1,397.8	69.40	21.140	
13,500.0	9,424.3	11,680.3	7,968.9	37.9	70.7	1.64	-4,338.9	-886.5	1,468.4	1,397.3	71.04	20.671	
13,576.8	9,424.0	11,746.1	7,969.1	38.5	71.7	1.62	-4,404.6	-885.9	1,467.9	1,395.8	72.05	20.373	
13,600.0	9,423.9	11,762.0	7,969.0	38.7	72.0	1.61	-4,420.5	-885.6	1,467.9	1,395.6	72.33	20.294	
13,700.0	9,423.4	11,859.6	7,967.8	39.5	73.5	1.49	-4,518.1	-882.2	1,468.6	1,394.9	73.71	19.923	
13,800.0	9,423.0	11,953.0	7,966.6	40.4	74.9	1.31	-4,611.3	-877.4	1,469.3	1,394.3	75.06	19.574	
13,900.0	9,422.5	12,094.2	7,965.4	41.2	77.1	1.11	-4,752.4	-871.8	1,469.9	1,393.2	76.69	19.166	
14,000.0	9,422.1	12,173.5	7,966.2	42.0	78.3	1.09	-4,831.7	-871.1	1,468.6	1,390.6	78.01	18.826	
14,010.6	9,422.0	12,179.9	7,966.1	42.1	78.4	1.09	-4,838.1	-871.1	1,468.6	1,390.4	78.14	18.795	
14,100.0	9,421.6	12,230.1	7,965.3	42.9	79.2	1.07	-4,888.3	-870.5	1,469.7	1,390.5	79.18	18.560	
14,200.0	9,421.2	12,328.6	7,961.0	43.7	80.8	0.97	-4,986.6	-867.6	1,473.6	1,393.0	80.63	18.276	
14,300.0	9,420.7	12,470.0	7,957.8	44.5	83.0	0.84	-5,127.9	-863.9	1,475.5	1,393.2	82.31	17.925	
14,301.2	9,420.7	12,470.7	7,957.8	44.5	83.0	0.84	-5,128.6	-863.9	1,475.5	1,393.1	82.33	17.922	
14,400.0	9,420.3	12,525.0	7,957.4	45.4	83.8	0.81	-5,182.9	-863.1	1,476.3	1,392.9	83.47	17.687	
14,500.0	9,419.8	12,525.0	7,957.4	46.2	83.8	0.81	-5,182.9	-863.1	1,482.7	1,398.6	84.09	17.632	
14,600.0	9,419.4	12,525.0	7,957.4	47.0	83.8	0.81	-5,182.9	-863.1	1,495.8	1,411.4	84.44	17.715	
14,681.5	9,419.0	12,525.0	7,957.4	47.7	83.8	0.81	-5,182.9	-863.1	1,511.3	1,426.7	84.52	17.880	
14,700.0	9,418.9	12,525.0	7,957.4	47.9	83.8	0.73	-5,182.9	-863.1	1,515.4	1,430.8	84.52	17.929	
14,800.0	9,418.5	12,525.0	7,957.4	48.7	83.8	0.18	-5,182.9	-863.1	1,541.2	1,456.8	84.36	18.269	
14,900.0	9,418.0	12,525.0	7,957.4	49.5	83.8	-0.50	-5,182.9	-863.1	1,573.0	1,489.0	84.00	18.726	
14,910.9	9,418.0	12,525.0	7,957.4	49.6	83.8	-0.58	-5,182.9	-863.1	1,576.8	1,492.8	83.95	18.782	
15,000.0	9,417.5	12,525.0	7,957.4	50.4	83.8	-0.58	-5,182.9	-863.1	1,610.3	1,526.9	83.47	19.293	
15,100.0	9,417.1	12,525.0	7,957.4	51.2	83.8	-0.58	-5,182.9	-863.1	1,652.9	1,570.1	82.79	19.966	
15,200.0	9,416.6	12,525.0	7,957.4	52.1	83.8	-0.58	-5,182.9	-863.1	1,700.3	1,618.3	82.00	20.736	
15,267.5	9,416.3	12,525.0	7,957.4	52.6	83.8	-0.58	-5,182.9	-863.1	1,734.8	1,653.4	81.42	21.308	
15,300.0	9,416.1	12,525.0	7,957.4	52.9	83.8	-0.17	-5,182.9	-863.1	1,752.1	1,671.0	81.13	21.598	
15,400.0	9,415.7	12,525.0	7,957.4	53.7	83.8	1.19	-5,182.9	-863.1	1,808.0	1,727.8	80.18	22.548	
15,500.0	9,415.2	12,525.0	7,957.4	54.6	83.8	2.68	-5,182.9	-863.1	1,867.5	1,788.3	79.19	23.582	
15,600.0	9,414.8	12,525.0	7,957.4	55.4	83.8	4.30	-5,182.9	-863.1	1,930.3	1,852.1	78.18	24.691	
15,654.5	9,414.5	12,525.0	7,957.4	55.9	83.8	5.23	-5,182.9	-863.1	1,965.7	1,888.1	77.62	25.325	
15,700.0	9,414.3	12,525.0	7,957.4	56.3	83.8	5.23	-5,182.9	-863.1	1,995.9	1,918.7	77.15	25.869	
15,800.0	9,413.9	12,525.0	7,957.4	57.1	83.8	5.23	-5,182.9	-863.1	2,064.2	1,988.1	76.15	27.108	
15,900.0	9,413.4	12,525.0	7,957.4	57.9	83.8	5.23	-5,182.9	-863.1	2,135.1	2,059.9	75.17	28.403	
16,000.0	9,413.0	12,525.0	7,957.4	58.8	83.8	5.23	-5,182.9	-863.1	2,208.1	2,133.9	74.23	29.749	
16,100.0	9,412.5	12,525.0	7,957.4	59.6	83.8	5.23	-5,182.9	-863.1	2,283.3	2,210.0	73.32	31.141	
16,200.0	9,412.0	12,525.0	7,957.4	60.5	83.8	5.23	-5,182.9	-863.1	2,360.3	2,287.8	72.46	32.575	
16,300.0	9,411.6	12,525.0	7,957.4	61.3	83.8	5.23	-5,182.9	-863.1	2,438.9	2,367.3	71.63	34.047	
16,379.5	9,411.2	12,525.0	7,957.4	62.0	83.8	5.23	-5,182.9	-863.1	2,502.5	2,431.5	71.01	35.241	
16,400.0	9,411.1	12,525.0	7,957.4	62.2	83.8	4.67	-5,182.9	-863.1	2,519.1	2,448.2	70.86	35.552	
16,500.0	9,410.7	12,525.0	7,957.4	63.0	83.8	1.84	-5,182.9	-863.1	2,600.7	2,530.6	70.12	37.087	
16,533.9	9,410.5	12,525.0	7,957.4	63.3	83.8	0.85	-5,182.9	-863.1	2,628.7	2,558.8	69.89	37.614	
16,600.0	9,410.2	12,525.0	7,957.4	63.9	83.8	0.85	-5,182.9	-863.1	2,683.7	2,614.2	69.44	38.649	
16,700.0	9,409.8	12,525.0	7,957.4	64.7	83.8	0.85	-5,182.9	-863.1	2,767.7	2,698.9	68.79	40.235	
16,800.0	9,409.4	12,525.0	7,957.4	65.5	83.8	0.85	-5,182.9	-863.1	2,852.8	2,784.7	68.18	41.842	
16,900.0	9,408.9	12,525.0	7,957.4	66.4	83.8	0.85	-5,182.9	-863.1	2,938.9	2,871.3	67.61	43.468	
17,000.0	9,408.5	12,525.0	7,957.4	67.2	83.8	0.85	-5,182.9	-863.1	3,025.8	2,958.7	67.07	45.111	
17,100.0	9,408.0	12,525.0	7,957.4	68.1	83.8	0.85	-5,182.9	-863.1	3,113.5	3,046.9	66.57	46.769	
17,200.0	9,407.6	12,525.0	7,957.4	68.9	83.8	0.85	-5,182.9	-863.1	3,201.9	3,135.8	66.10	48.439	
17,300.0	9,407.1	12,525.0	7,957.4	69.8	83.8	0.85	-5,182.9	-863.1	3,291.0	3,225.3	65.66	50.120	
17,400.0	9,406.7	12,525.0	7,957.4	70.6	83.8	0.85	-5,182.9	-863.1	3,380.6	3,315.4	65.25	51.810	
17,500.0	9,406.2	12,525.0	7,957.4	71.5	83.8	0.85	-5,182.9	-863.1	3,470.9	3,406.0	64.87	53.508	
17,600.0	9,405.8	12,525.0	7,957.4	72.3	83.8	0.85	-5,182.9	-863.1	3,561.7	3,497.1	64.51	55.212	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - SKEEN 21 DM STATE 1H - OWB - AWP — **Offset Site Error:** 3.0 usft

Survey Program: 100-GYRO-NS, 7413-MWD — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,700.0	9,405.3	12,525.0	7,957.4	73.2	83.8	0.85	-5,182.9	-863.1	3,652.9	3,588.7	64.17	56.922	
17,800.0	9,404.9	12,525.0	7,957.4	74.0	83.8	0.85	-5,182.9	-863.1	3,744.6	3,680.7	63.86	58.635	
17,900.0	9,404.4	12,525.0	7,957.4	74.9	83.8	0.85	-5,182.9	-863.1	3,836.7	3,773.1	63.57	60.351	
18,000.0	9,404.0	12,525.0	7,957.4	75.7	83.8	0.85	-5,182.9	-863.1	3,929.2	3,865.9	63.30	62.069	
18,100.0	9,403.5	12,525.0	7,957.4	76.6	83.8	0.85	-5,182.9	-863.1	4,022.1	3,959.0	63.05	63.788	
18,200.0	9,403.1	12,525.0	7,957.4	77.4	83.8	0.85	-5,182.9	-863.1	4,115.3	4,052.4	62.82	65.508	
18,300.0	9,402.7	12,525.0	7,957.4	78.3	83.8	0.85	-5,182.9	-863.1	4,208.8	4,146.2	62.61	67.226	
18,400.0	9,402.2	12,525.0	7,957.4	79.1	83.8	0.85	-5,182.9	-863.1	4,302.6	4,240.2	62.41	68.944	
18,500.0	9,401.8	12,525.0	7,957.4	80.0	83.8	0.85	-5,182.9	-863.1	4,396.6	4,334.4	62.22	70.660	
18,600.0	9,401.3	12,525.0	7,957.4	80.8	83.8	0.85	-5,182.9	-863.1	4,491.0	4,428.9	62.05	72.373	
18,700.0	9,400.9	12,525.0	7,957.4	81.7	83.8	0.85	-5,182.9	-863.1	4,585.5	4,523.6	61.90	74.083	
18,800.0	9,400.4	12,525.0	7,957.4	82.6	83.8	0.85	-5,182.9	-863.1	4,680.3	4,618.6	61.75	75.790	
18,900.0	9,400.0	12,525.0	7,957.4	83.4	83.8	0.85	-5,182.9	-863.1	4,775.3	4,713.7	61.62	77.492	
19,000.0	9,399.5	12,525.0	7,957.4	84.3	83.8	0.85	-5,182.9	-863.1	4,870.5	4,809.0	61.50	79.191	
19,100.0	9,399.1	12,525.0	7,957.4	85.1	83.8	0.85	-5,182.9	-863.1	4,965.9	4,904.5	61.40	80.884	
19,200.0	9,398.6	12,525.0	7,957.4	86.0	83.8	0.85	-5,182.9	-863.1	5,061.5	5,000.2	61.30	82.573	
19,300.0	9,398.2	12,525.0	7,957.4	86.8	83.8	0.85	-5,182.9	-863.1	5,157.2	5,096.0	61.21	84.256	
19,400.0	9,397.7	12,525.0	7,957.4	87.7	83.8	0.85	-5,182.9	-863.1	5,253.1	5,192.0	61.13	85.933	
19,500.0	9,397.3	12,525.0	7,957.4	88.5	83.8	0.85	-5,182.9	-863.1	5,349.2	5,288.1	61.06	87.605	
19,600.0	9,396.9	12,525.0	7,957.4	89.4	83.8	0.85	-5,182.9	-863.1	5,445.4	5,384.4	61.00	89.270	
19,700.0	9,396.4	12,525.0	7,957.4	90.2	83.8	0.85	-5,182.9	-863.1	5,541.7	5,480.7	60.95	90.928	
19,800.0	9,396.0	12,525.0	7,957.4	91.1	83.8	0.85	-5,182.9	-863.1	5,638.1	5,577.2	60.90	92.581	
19,900.0	9,395.5	12,525.0	7,957.4	91.9	83.8	0.85	-5,182.9	-863.1	5,734.7	5,673.9	60.86	94.226	
19,971.4	9,395.2	12,525.0	7,957.4	92.5	83.8	0.85	-5,182.9	-863.1	5,803.7	5,742.9	60.84	95.396	
19,973.2	9,395.2	12,525.0	7,957.4	92.6	83.8	0.71	-5,182.9	-863.1	5,805.5	5,744.6	60.84	95.425	
20,000.0	9,395.1	12,525.0	7,957.4	92.8	83.8	0.71	-5,182.9	-863.1	5,831.4	5,770.6	60.83	95.864	
20,100.0	9,394.6	12,525.0	7,957.4	93.6	83.8	0.71	-5,182.9	-863.1	5,928.2	5,867.4	60.81	97.495	
20,200.0	9,394.2	12,525.0	7,957.4	94.5	83.8	0.71	-5,182.9	-863.1	6,025.1	5,964.3	60.79	99.118	
20,300.0	9,393.7	12,525.0	7,957.4	95.4	83.8	0.71	-5,182.9	-863.1	6,122.1	6,061.3	60.77	100.734	
20,400.0	9,393.3	12,525.0	7,957.4	96.2	83.8	0.71	-5,182.9	-863.1	6,219.2	6,158.4	60.77	102.343	
20,500.0	9,392.8	12,525.0	7,957.4	97.1	83.8	0.71	-5,182.9	-863.1	6,316.4	6,255.6	60.77	103.944	
20,600.0	9,392.4	12,525.0	7,957.4	97.9	83.8	0.71	-5,182.9	-863.1	6,413.7	6,352.9	60.77	105.537	
20,700.0	9,391.9	12,525.0	7,957.4	98.8	83.8	0.71	-5,182.9	-863.1	6,511.0	6,450.3	60.78	107.123	
20,800.0	9,391.5	12,525.0	7,957.4	99.6	83.8	0.71	-5,182.9	-863.1	6,608.5	6,547.7	60.80	108.700	
20,900.0	9,391.0	12,525.0	7,957.4	100.5	83.8	0.71	-5,182.9	-863.1	6,706.0	6,645.2	60.81	110.269	
21,000.0	9,390.6	12,525.0	7,957.4	101.3	83.8	0.71	-5,182.9	-863.1	6,803.6	6,742.7	60.84	111.831	
21,100.0	9,390.1	12,525.0	7,957.4	102.2	83.8	0.71	-5,182.9	-863.1	6,901.2	6,840.4	60.87	113.384	
21,200.0	9,389.7	12,525.0	7,957.4	103.0	83.8	0.71	-5,182.9	-863.1	6,998.9	6,938.1	60.90	114.929	
21,300.0	9,389.2	12,525.0	7,957.4	103.9	83.8	0.71	-5,182.9	-863.1	7,096.7	7,035.8	60.93	116.466	
21,400.0	9,388.8	12,525.0	7,957.4	104.8	83.8	0.71	-5,182.9	-863.1	7,194.6	7,133.6	60.97	117.995	
21,500.0	9,388.3	12,525.0	7,957.4	105.6	83.8	0.71	-5,182.9	-863.1	7,292.5	7,231.5	61.02	119.516	
21,600.0	9,387.9	12,525.0	7,957.4	106.5	83.8	0.71	-5,182.9	-863.1	7,390.4	7,329.4	61.06	121.029	
21,700.0	9,387.5	12,525.0	7,957.4	107.3	83.8	0.71	-5,182.9	-863.1	7,488.5	7,427.3	61.11	122.533	
21,800.0	9,387.0	12,525.0	7,957.4	108.2	83.8	0.71	-5,182.9	-863.1	7,586.5	7,525.4	61.17	124.029	
21,900.0	9,386.6	12,525.0	7,957.4	109.0	83.8	0.71	-5,182.9	-863.1	7,684.6	7,623.4	61.22	125.516	
22,000.0	9,386.1	12,525.0	7,957.4	109.9	83.8	0.71	-5,182.9	-863.1	7,782.8	7,721.5	61.28	126.996	
22,023.7	9,386.0	12,525.0	7,957.4	110.1	83.8	0.71	-5,182.9	-863.1	7,806.1	7,744.8	61.30	127.346	
22,024.2	9,386.0	12,525.0	7,957.4	110.1	83.8	0.71	-5,182.9	-863.1	7,806.5	7,739.9	66.63	117.170	

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design HONEY GRAHAM STATE PROJECT (ATLAS 2628) - GRAHAM CRACKER 16 STATE #1H - OWB - AC — **Offset Site Error:** 0.0 usft

Survey Program: 100-GYRO-NS, 7477-MWD — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	4.2	0.0	-7.26	4,903.3	-624.3	4,942.9				
100.0	100.0	87.0	87.0	4.2	0.3	-7.26	4,903.5	-624.6	4,943.2	4,938.7	4.52	1,093.411	
200.0	200.0	166.5	166.5	4.2	0.7	-7.27	4,904.0	-625.3	4,944.0	4,939.0	4.99	990.673	
300.0	300.0	285.9	285.9	4.3	1.3	-7.27	4,905.1	-625.6	4,944.9	4,939.4	5.49	901.244	
400.0	400.0	507.2	507.1	4.3	2.9	-7.20	4,903.6	-619.5	4,943.5	4,936.3	7.15	691.354	
500.0	500.0	600.0	599.8	4.3	3.2	-7.16	4,902.3	-615.7	4,941.5	4,934.1	7.45	663.456	
600.0	600.0	674.3	674.0	4.3	3.5	-7.13	4,901.4	-613.2	4,939.9	4,932.2	7.73	639.287	
700.0	700.0	740.5	740.2	4.3	3.7	-7.12	4,901.0	-611.8	4,939.1	4,931.1	7.97	619.828	
785.3	785.3	800.0	799.7	4.3	3.9	-7.11	4,900.9	-611.0	4,938.9	4,930.7	8.18	603.811	
800.0	800.0	810.2	809.9	4.4	4.0	-7.11	4,900.9	-611.0	4,938.9	4,930.7	8.21	601.683	
900.0	900.0	900.0	899.7	4.4	4.2	-7.10	4,901.2	-610.7	4,939.1	4,930.6	8.46	583.929	
1,000.0	1,000.0	1,007.1	1,006.8	4.4	4.4	-7.10	4,901.5	-610.5	4,939.4	4,930.6	8.77	563.059	
1,100.0	1,100.0	1,100.0	1,099.7	4.5	4.7	-7.10	4,901.7	-610.4	4,939.6	4,930.5	9.07	544.814	
1,200.0	1,200.0	1,223.8	1,223.5	4.5	5.0	-7.10	4,901.6	-610.6	4,939.5	4,930.0	9.46	522.238	
1,239.2	1,239.2	1,253.9	1,253.6	4.5	5.1	-7.10	4,901.6	-610.6	4,939.5	4,929.9	9.56	516.545	
1,300.0	1,300.0	1,301.0	1,300.7	4.5	5.3	-7.10	4,901.6	-610.7	4,939.6	4,929.8	9.73	507.841	
1,400.0	1,400.0	1,425.3	1,425.1	4.6	5.6	-7.10	4,901.5	-610.6	4,939.4	4,929.3	10.14	486.899	
1,451.6	1,451.6	1,466.3	1,466.0	4.6	5.8	-7.10	4,901.5	-610.6	4,939.4	4,929.1	10.30	479.737	
1,500.0	1,500.0	1,506.5	1,506.2	4.6	5.9	-7.10	4,901.5	-610.5	4,939.4	4,929.0	10.44	472.924	
1,600.0	1,600.0	1,618.0	1,617.7	4.7	6.2	-7.10	4,901.6	-610.3	4,939.5	4,928.6	10.85	455.263	
1,700.0	1,700.0	1,724.9	1,724.6	4.8	6.6	-7.09	4,901.4	-610.0	4,939.3	4,928.0	11.27	438.098	
1,750.3	1,750.3	1,765.0	1,764.7	4.8	6.7	-7.09	4,901.4	-610.0	4,939.2	4,927.8	11.43	431.948	
1,800.0	1,800.0	1,805.9	1,805.6	4.8	6.9	-7.09	4,901.5	-609.9	4,939.3	4,927.7	11.60	425.895	
1,900.0	1,900.0	1,907.6	1,907.3	4.9	7.2	-7.09	4,901.6	-609.7	4,939.4	4,927.4	11.98	412.183	
2,000.0	2,000.0	2,003.3	2,003.0	5.0	7.5	-7.09	4,901.9	-609.3	4,939.6	4,927.2	12.36	399.660	
2,100.0	2,100.0	2,100.0	2,099.7	5.0	7.8	-7.08	4,902.2	-609.0	4,939.9	4,927.1	12.74	387.762	
2,200.0	2,200.0	2,213.5	2,213.2	5.1	8.2	-7.08	4,902.3	-609.0	4,940.0	4,926.8	13.18	374.710	
2,300.0	2,300.0	2,300.0	2,299.7	5.2	8.5	-7.08	4,902.5	-608.9	4,940.2	4,926.6	13.54	364.808	
2,400.0	2,400.0	2,409.3	2,409.0	5.2	8.8	-7.08	4,902.7	-608.9	4,940.4	4,926.4	13.98	353.268	
2,500.0	2,500.0	2,509.3	2,509.0	5.3	9.2	-7.08	4,902.8	-608.7	4,940.5	4,926.1	14.39	343.241	
2,600.0	2,600.0	2,600.0	2,599.7	5.4	9.5	93.43	4,902.9	-608.5	4,940.7	4,925.9	14.75	334.935	
2,700.0	2,699.8	2,689.4	2,689.2	5.4	9.8	93.47	4,903.2	-608.3	4,941.3	4,926.2	15.07	327.961	
2,750.4	2,750.1	2,750.0	2,749.8	5.4	10.0	93.52	4,903.5	-608.2	4,941.8	4,926.5	15.28	323.451	
2,800.0	2,799.5	2,816.8	2,816.5	5.4	10.2	93.59	4,903.6	-607.9	4,942.1	4,926.6	15.51	318.630	
2,900.0	2,899.1	2,900.0	2,899.7	5.4	10.5	93.68	4,903.9	-607.5	4,942.9	4,927.1	15.81	312.608	
3,000.0	2,998.7	3,014.5	3,014.2	5.4	10.9	93.80	4,904.1	-607.1	4,943.6	4,927.4	16.22	304.730	
3,100.0	3,098.3	12,477.0	8,016.8	5.5	82.5	60.12	133.3	-650.3	4,943.8	4,899.5	44.25	111.713	
3,200.0	3,198.0	12,477.0	8,016.8	5.5	82.5	60.12	133.3	-650.3	4,844.0	4,799.5	44.40	109.086	
3,300.0	3,297.6	12,477.0	8,016.8	5.5	82.5	60.12	133.3	-650.3	4,744.1	4,699.6	44.56	106.472	
3,400.0	3,397.2	12,477.0	8,016.8	5.6	82.5	60.12	133.3	-650.3	4,644.3	4,599.6	44.71	103.870	
3,500.0	3,496.8	12,477.0	8,016.8	5.6	82.5	60.12	133.3	-650.3	4,544.5	4,499.6	44.87	101.281	
3,600.0	3,596.4	12,477.0	8,016.8	5.7	82.5	60.12	133.3	-650.3	4,444.7	4,399.7	45.03	98.705	
3,700.0	3,696.1	12,477.0	8,016.8	5.7	82.5	60.12	133.3	-650.3	4,344.9	4,299.7	45.19	96.142	
3,800.0	3,795.7	12,477.0	8,016.8	5.8	82.5	60.12	133.3	-650.3	4,245.2	4,199.8	45.36	93.592	
3,900.0	3,895.3	12,477.0	8,016.8	5.8	82.5	60.12	133.3	-650.3	4,145.4	4,099.9	45.53	91.055	
4,000.0	3,994.9	12,477.0	8,016.8	5.9	82.5	60.12	133.3	-650.3	4,045.6	3,999.9	45.70	88.531	
4,100.0	4,094.5	12,477.0	8,016.8	5.9	82.5	60.12	133.3	-650.3	3,945.9	3,900.0	45.87	86.021	
4,200.0	4,194.1	12,477.0	8,016.8	6.0	82.5	60.12	133.3	-650.3	3,846.2	3,800.1	46.05	83.525	
4,300.0	4,293.8	12,477.0	8,016.8	6.0	82.5	60.12	133.3	-650.3	3,746.5	3,700.2	46.23	81.042	
4,400.0	4,393.4	12,477.0	8,016.8	6.1	82.5	60.12	133.3	-650.3	3,646.8	3,600.4	46.41	78.574	
4,500.0	4,493.0	12,477.0	8,016.8	6.2	82.5	60.12	133.3	-650.3	3,547.1	3,500.5	46.60	76.120	
4,600.0	4,592.6	12,477.0	8,016.8	6.2	82.5	60.12	133.3	-650.3	3,447.4	3,400.6	46.79	73.680	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design HONEY GRAHAM STATE PROJECT (ATLAS 2628) - GRAHAM CRACKER 16 STATE #1H - OWB - AC — **Offset Site Error:** 0.0 usft

Survey Program: 100-GYRO-NS, 7477-MWD — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,700.0	4,692.2	12,477.0	8,016.8	6.3	82.5	60.12	133.3	-650.3	3,347.8	3,300.8	46.98	71.254	
4,800.0	4,791.9	12,477.0	8,016.8	6.4	82.5	60.12	133.3	-650.3	3,248.2	3,201.0	47.18	68.844	
4,900.0	4,891.5	12,477.0	8,016.8	6.5	82.5	60.12	133.3	-650.3	3,148.6	3,101.2	47.38	66.448	
5,000.0	4,991.1	12,477.0	8,016.8	6.5	82.5	60.12	133.3	-650.3	3,049.0	3,001.4	47.59	64.067	
5,100.0	5,090.7	12,477.0	8,016.8	6.6	82.5	60.12	133.3	-650.3	2,949.5	2,901.7	47.80	61.701	
5,200.0	5,190.3	12,477.0	8,016.8	6.7	82.5	60.12	133.3	-650.3	2,850.0	2,801.9	48.02	59.351	
5,300.0	5,289.9	12,477.0	8,016.8	6.8	82.5	60.12	133.3	-650.3	2,750.5	2,702.3	48.24	57.016	
5,400.0	5,389.6	12,477.0	8,016.8	6.9	82.5	60.12	133.3	-650.3	2,651.1	2,602.6	48.47	54.697	
5,500.0	5,489.2	12,477.0	8,016.8	6.9	82.5	60.12	133.3	-650.3	2,551.7	2,503.0	48.70	52.395	
5,600.0	5,588.8	12,477.0	8,016.8	7.0	82.5	60.12	133.3	-650.3	2,452.3	2,403.4	48.94	50.108	
5,700.0	5,688.4	12,477.0	8,016.8	7.1	82.5	60.12	133.3	-650.3	2,353.1	2,303.9	49.19	47.838	
5,800.0	5,788.0	12,477.0	8,016.8	7.2	82.5	60.12	133.3	-650.3	2,253.8	2,204.4	49.44	45.584	
5,900.0	5,887.7	12,477.0	8,016.8	7.3	82.5	60.12	133.3	-650.3	2,154.7	2,105.0	49.71	43.347	
6,000.0	5,987.3	12,477.0	8,016.8	7.4	82.5	60.12	133.3	-650.3	2,055.6	2,005.7	49.98	41.128	
6,100.0	6,086.9	12,477.0	8,016.8	7.5	82.5	60.12	133.3	-650.3	1,956.7	1,906.4	50.27	38.925	
6,200.0	6,186.5	12,477.0	8,016.8	7.6	82.5	60.12	133.3	-650.3	1,857.8	1,807.3	50.57	36.741	
6,300.0	6,286.1	12,477.0	8,016.8	7.7	82.5	60.12	133.3	-650.3	1,759.1	1,708.2	50.88	34.575	
6,400.0	6,385.7	12,477.0	8,016.8	7.8	82.5	60.12	133.3	-650.3	1,660.5	1,609.3	51.21	32.427	
6,500.0	6,485.4	12,477.0	8,016.8	7.8	82.5	60.12	133.3	-650.3	1,562.1	1,510.6	51.56	30.298	
6,600.0	6,585.0	12,477.0	8,016.8	7.9	82.5	60.12	133.3	-650.3	1,464.0	1,412.0	51.93	28.190	
6,700.0	6,684.6	12,477.0	8,016.8	8.0	82.5	60.12	133.3	-650.3	1,366.0	1,313.7	52.34	26.101	
6,800.0	6,784.2	12,477.0	8,016.8	8.1	82.5	60.12	133.3	-650.3	1,268.5	1,215.7	52.78	24.034	
6,900.0	6,883.8	12,477.0	8,016.8	8.2	82.5	60.12	133.3	-650.3	1,171.3	1,118.0	53.26	21.991	
7,000.0	6,983.5	12,477.0	8,016.8	8.3	82.5	60.12	133.3	-650.3	1,074.6	1,020.8	53.81	19.972	
7,100.0	7,083.1	12,477.0	8,016.8	8.4	82.5	60.12	133.3	-650.3	978.7	924.2	54.43	17.981	
7,200.0	7,182.7	12,477.0	8,016.8	8.6	82.5	60.12	133.3	-650.3	883.6	828.4	55.15	16.022	
7,300.0	7,282.3	12,477.0	8,016.8	8.7	82.5	60.12	133.3	-650.3	789.7	733.7	56.00	14.102	
7,400.0	7,381.9	12,477.0	8,016.8	8.8	82.5	60.12	133.3	-650.3	697.5	640.5	57.04	12.229	
7,500.0	7,481.5	12,477.0	8,016.8	8.9	82.5	60.12	133.3	-650.3	607.8	549.5	58.33	10.421	
7,600.0	7,581.2	12,477.0	8,016.8	9.0	82.5	60.12	133.3	-650.3	521.9	461.9	59.96	8.704	
7,700.0	7,680.8	12,477.0	8,016.8	9.1	82.5	60.12	133.3	-650.3	441.9	379.9	61.99	7.128	
7,800.0	7,780.4	12,477.0	8,016.8	9.2	82.5	60.12	133.3	-650.3	371.8	307.4	64.37	5.776	
7,900.0	7,880.0	12,477.0	8,016.8	9.3	82.5	60.12	133.3	-650.3	318.0	251.5	66.49	4.783	
8,000.0	7,979.6	12,477.0	8,016.8	9.4	82.5	60.12	133.3	-650.3	289.9	222.9	67.06	4.323	
8,035.4	8,014.9	12,477.0	8,016.8	9.4	82.5	60.12	133.3	-650.3	287.7	221.1	66.68	4.316	CC, ES, SF
8,100.0	8,079.3	12,477.0	8,016.8	9.5	82.5	60.12	133.3	-650.3	294.9	229.7	65.24	4.520	
8,200.0	8,178.9	12,477.0	8,016.8	9.6	82.5	60.12	133.3	-650.3	331.5	269.4	62.10	5.338	
8,300.0	8,278.5	12,477.0	8,016.8	9.7	82.5	60.12	133.3	-650.3	390.9	331.7	59.23	6.600	
8,400.0	8,378.1	12,477.0	8,016.8	9.8	82.5	60.12	133.3	-650.3	464.5	407.2	57.28	8.109	
8,500.0	8,477.7	12,477.0	8,016.8	9.9	82.5	60.12	133.3	-650.3	546.5	490.4	56.13	9.736	
8,600.0	8,577.3	12,477.0	8,016.8	10.1	82.5	60.12	133.3	-650.3	633.7	578.2	55.53	11.413	
8,700.0	8,677.0	12,477.0	8,016.8	10.2	82.5	60.12	133.3	-650.3	724.2	669.0	55.25	13.107	
8,800.0	8,776.6	12,477.0	8,016.8	10.3	82.5	60.12	133.3	-650.3	817.0	761.8	55.19	14.803	
8,900.0	8,876.2	12,477.0	8,016.8	10.4	82.5	60.12	133.3	-650.3	911.2	856.0	55.25	16.492	
8,916.0	8,892.1	12,477.0	8,016.8	10.4	82.5	60.12	133.3	-650.3	926.4	871.1	55.27	16.761	
8,950.0	8,926.0	12,477.0	8,016.8	10.5	82.5	75.27	133.3	-650.3	958.9	903.4	55.50	17.278	
9,000.0	8,975.3	12,477.0	8,016.8	10.5	82.5	72.45	133.3	-650.3	1,007.3	951.8	55.53	18.139	
9,050.0	9,023.8	12,477.0	8,016.8	10.5	82.5	58.68	133.3	-650.3	1,055.9	1,000.4	55.55	19.010	
9,100.0	9,071.2	12,477.0	8,016.8	10.5	82.5	44.38	133.3	-650.3	1,104.4	1,048.8	55.55	19.881	
9,150.0	9,117.0	12,477.0	8,016.8	10.5	82.5	33.44	133.3	-650.3	1,152.4	1,096.9	55.54	20.749	
9,200.0	9,160.9	12,477.0	8,016.8	10.5	82.5	25.83	133.3	-650.3	1,199.7	1,144.1	55.52	21.607	
9,250.0	9,202.6	12,477.0	8,016.8	10.6	82.5	20.56	133.3	-650.3	1,245.9	1,190.4	55.49	22.452	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design HONEY GRAHAM STATE PROJECT (ATLAS 2628) - GRAHAM CRACKER 16 STATE #1H - OWB - AC — **Offset Site Error:** 0.0 usft

Survey Program: 100-GYRO-NS, 7477-MWD — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,300.0	9,241.8	12,477.0	8,016.8	10.6	82.5	16.82	133.3	-650.3	1,291.0	1,235.5	55.45	23.280	
9,350.0	9,278.2	12,477.0	8,016.8	10.7	82.5	14.09	133.3	-650.3	1,334.6	1,279.2	55.40	24.089	
9,400.0	9,311.5	12,477.0	8,016.8	10.7	82.5	12.03	133.3	-650.3	1,376.5	1,321.2	55.34	24.877	
9,450.0	9,341.3	12,477.0	8,016.8	10.8	82.5	10.43	133.3	-650.3	1,416.8	1,361.5	55.25	25.641	
9,500.0	9,367.6	12,477.0	8,016.8	10.9	82.5	9.17	133.3	-650.3	1,455.1	1,399.9	55.16	26.380	
9,550.0	9,390.2	12,477.0	8,016.8	11.0	82.5	8.14	133.3	-650.3	1,491.3	1,436.3	55.05	27.092	
9,600.0	9,408.7	12,477.0	8,016.8	11.2	82.5	7.30	133.3	-650.3	1,525.4	1,470.5	54.92	27.776	
9,650.0	9,423.2	12,477.0	8,016.8	11.3	82.5	6.59	133.3	-650.3	1,557.2	1,502.4	54.77	28.432	
9,700.0	9,433.4	12,477.0	8,016.8	11.5	82.5	5.99	133.3	-650.3	1,586.6	1,532.0	54.60	29.056	
9,750.0	9,439.4	12,477.0	8,016.8	11.7	82.5	5.47	133.3	-650.3	1,613.5	1,559.1	54.42	29.649	
9,796.2	9,441.0	12,477.0	8,016.8	11.8	82.5	5.04	133.3	-650.3	1,636.1	1,581.9	54.23	30.168	
9,800.0	9,441.0	12,477.0	8,016.8	11.8	82.5	5.00	133.3	-650.3	1,637.9	1,583.7	54.21	30.212	
9,900.0	9,440.5	12,477.0	8,016.8	12.2	82.5	3.86	133.3	-650.3	1,687.1	1,633.3	53.82	31.350	
10,000.0	9,440.1	12,477.0	8,016.8	12.7	82.5	2.58	133.3	-650.3	1,740.9	1,687.5	53.42	32.592	
10,100.0	9,439.6	12,477.0	8,016.8	13.2	82.5	1.15	133.3	-650.3	1,798.8	1,745.8	53.01	33.933	
10,200.0	9,439.2	12,477.0	8,016.8	13.7	82.5	-0.42	133.3	-650.3	1,860.2	1,807.7	52.60	35.368	
10,300.0	9,438.7	12,477.0	8,016.8	14.3	82.5	-2.12	133.3	-650.3	1,925.0	1,872.8	52.18	36.890	
10,400.0	9,438.3	12,477.0	8,016.8	14.8	82.5	-3.96	133.3	-650.3	1,992.5	1,940.7	51.76	38.494	
10,500.0	9,437.8	12,477.0	8,016.8	15.4	82.5	-5.92	133.3	-650.3	2,062.5	2,011.1	51.34	40.172	
10,606.4	9,437.3	12,477.0	8,016.8	16.0	82.5	-8.14	133.3	-650.3	2,139.3	2,088.4	50.90	42.029	
10,700.0	9,436.9	12,477.0	8,016.8	16.6	82.5	-8.14	133.3	-650.3	2,208.8	2,158.3	50.53	43.712	
10,800.0	9,436.4	12,477.0	8,016.8	17.3	82.5	-8.14	133.3	-650.3	2,284.9	2,234.7	50.17	45.547	
10,900.0	9,436.0	12,477.0	8,016.8	17.9	82.5	-8.14	133.3	-650.3	2,362.8	2,313.0	49.83	47.415	
11,000.0	9,435.5	12,477.0	8,016.8	18.6	82.5	-8.14	133.3	-650.3	2,442.3	2,392.8	49.53	49.311	
11,100.0	9,435.1	12,477.0	8,016.8	19.3	82.5	-8.14	133.3	-650.3	2,523.3	2,474.0	49.25	51.233	
11,200.0	9,434.6	12,477.0	8,016.8	20.0	82.5	-8.14	133.3	-650.3	2,605.6	2,556.6	49.00	53.174	
11,300.0	9,434.2	12,477.0	8,016.8	20.7	82.5	-8.14	133.3	-650.3	2,689.1	2,640.3	48.77	55.133	
11,400.0	9,433.8	12,477.0	8,016.8	21.4	82.5	-8.14	133.3	-650.3	2,773.7	2,725.1	48.57	57.106	
11,500.0	9,433.3	12,477.0	8,016.8	22.2	82.5	-8.14	133.3	-650.3	2,859.3	2,810.9	48.39	59.091	
11,600.0	9,432.9	12,477.0	8,016.8	22.9	82.5	-8.14	133.3	-650.3	2,945.7	2,897.5	48.22	61.085	
11,700.0	9,432.4	12,477.0	8,016.8	23.7	82.5	-8.14	133.3	-650.3	3,033.1	2,985.0	48.08	63.086	
11,800.0	9,432.0	12,477.0	8,016.8	24.4	82.5	-8.14	133.3	-650.3	3,121.2	3,073.2	47.95	65.093	
11,900.0	9,431.5	12,477.0	8,016.8	25.2	82.5	-8.14	133.3	-650.3	3,209.9	3,162.1	47.84	67.103	
12,000.0	9,431.1	12,477.0	8,016.8	26.0	82.5	-8.14	133.3	-650.3	3,299.4	3,251.6	47.74	69.116	
12,100.0	9,430.6	12,477.0	8,016.8	26.7	82.5	-8.14	133.3	-650.3	3,389.4	3,341.7	47.65	71.129	
12,200.0	9,430.2	12,477.0	8,016.8	27.5	82.5	-8.14	133.3	-650.3	3,479.9	3,432.4	47.58	73.143	
12,300.0	9,429.7	12,477.0	8,016.8	28.3	82.5	-8.14	133.3	-650.3	3,571.0	3,523.5	47.51	75.155	
12,400.0	9,429.3	12,477.0	8,016.8	29.1	82.5	-8.14	133.3	-650.3	3,662.5	3,615.1	47.46	77.165	
12,500.0	9,428.8	12,477.0	8,016.8	29.9	82.5	-8.14	133.3	-650.3	3,754.5	3,707.1	47.42	79.173	
12,600.0	9,428.4	12,477.0	8,016.8	30.7	82.5	-8.14	133.3	-650.3	3,846.8	3,799.5	47.39	81.176	
12,700.0	9,427.9	12,477.0	8,016.8	31.5	82.5	-8.14	133.3	-650.3	3,939.6	3,892.2	47.36	83.175	
12,800.0	9,427.5	12,477.0	8,016.8	32.3	82.5	-8.14	133.3	-650.3	4,032.7	3,985.3	47.35	85.170	
12,900.0	9,427.0	12,477.0	8,016.8	33.1	82.5	-8.14	133.3	-650.3	4,126.1	4,078.7	47.34	87.158	
13,000.0	9,426.6	12,477.0	8,016.8	33.9	82.5	-8.14	133.3	-650.3	4,219.8	4,172.4	47.34	89.141	
13,100.0	9,426.1	12,477.0	8,016.8	34.7	82.5	-8.14	133.3	-650.3	4,313.8	4,266.4	47.34	91.118	
13,200.0	9,425.7	12,477.0	8,016.8	35.6	82.5	-8.14	133.3	-650.3	4,408.0	4,360.7	47.35	93.087	
13,300.0	9,425.2	12,477.0	8,016.8	36.4	82.5	-8.14	133.3	-650.3	4,502.5	4,455.2	47.37	95.049	
13,400.0	9,424.8	12,477.0	8,016.8	37.2	82.5	-8.14	133.3	-650.3	4,597.3	4,549.9	47.39	97.004	
13,500.0	9,424.3	12,477.0	8,016.8	38.0	82.5	-8.14	133.3	-650.3	4,692.2	4,644.8	47.42	98.951	
13,600.0	9,423.9	12,477.0	8,016.8	38.8	82.5	-8.14	133.3	-650.3	4,787.4	4,739.9	47.45	100.890	
13,700.0	9,423.4	12,477.0	8,016.8	39.7	82.5	-8.14	133.3	-650.3	4,882.7	4,835.2	47.49	102.820	
13,800.0	9,423.0	12,477.0	8,016.8	40.5	82.5	-8.14	133.3	-650.3	4,978.3	4,930.7	47.53	104.742	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design HONEY GRAHAM STATE PROJECT (ATLAS 2628) - GRAHAM CRACKER 16 STATE #1H - OWB - AC — **Offset Site Error:** 0.0 usft

Survey Program: 100-GYRO-NS, 7477-MWD — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,900.0	9,422.5	12,477.0	8,016.8	41.3	82.5	-8.14	133.3	-650.3	5,074.0	5,026.4	47.57	106.655	
14,000.0	9,422.1	12,477.0	8,016.8	42.1	82.5	-8.14	133.3	-650.3	5,169.8	5,122.2	47.62	108.559	
14,100.0	9,421.6	12,477.0	8,016.8	43.0	82.5	-8.14	133.3	-650.3	5,265.9	5,218.2	47.67	110.454	
14,200.0	9,421.2	12,477.0	8,016.8	43.8	82.5	-8.14	133.3	-650.3	5,362.0	5,314.3	47.73	112.339	
14,300.0	9,420.7	12,477.0	8,016.8	44.6	82.5	-8.14	133.3	-650.3	5,458.3	5,410.6	47.79	114.215	
14,400.0	9,420.3	12,477.0	8,016.8	45.5	82.5	-8.14	133.3	-650.3	5,554.8	5,506.9	47.85	116.081	
14,500.0	9,419.8	12,477.0	8,016.8	46.3	82.5	-8.14	133.3	-650.3	5,651.3	5,603.4	47.92	117.938	
14,600.0	9,419.4	12,477.0	8,016.8	47.1	82.5	-8.14	133.3	-650.3	5,748.0	5,700.0	47.99	119.785	
14,681.5	9,419.0	12,477.0	8,016.8	47.8	82.5	-8.14	133.3	-650.3	5,826.9	5,778.8	48.04	121.282	
14,700.0	9,418.9	12,477.0	8,016.8	48.0	82.5	-9.55	133.3	-650.3	5,844.8	5,796.8	48.06	121.622	
14,800.0	9,418.5	12,477.0	8,016.8	48.8	82.5	-17.04	133.3	-650.3	5,941.6	5,893.5	48.13	123.453	
14,900.0	9,418.0	12,477.0	8,016.8	49.6	82.5	-24.07	133.3	-650.3	6,038.2	5,990.0	48.20	125.279	
14,910.9	9,418.0	12,477.0	8,016.8	49.7	82.5	-24.80	133.3	-650.3	6,048.7	6,000.5	48.21	125.477	
15,000.0	9,417.5	12,477.0	8,016.8	50.5	82.5	-24.80	133.3	-650.3	6,134.8	6,086.5	48.27	127.093	
15,100.0	9,417.1	12,477.0	8,016.8	51.3	82.5	-24.80	133.3	-650.3	6,231.4	6,183.1	48.34	128.895	
15,200.0	9,416.6	12,477.0	8,016.8	52.1	82.5	-24.80	133.3	-650.3	6,328.1	6,279.7	48.42	130.686	
15,267.5	9,416.3	12,477.0	8,016.8	52.7	82.5	-24.80	133.3	-650.3	6,393.5	6,345.0	48.48	131.887	
15,300.0	9,416.1	12,477.0	8,016.8	53.0	82.5	-22.44	133.3	-650.3	6,425.0	6,376.5	48.50	132.465	
15,400.0	9,415.7	12,477.0	8,016.8	53.8	82.5	-14.61	133.3	-650.3	6,522.2	6,473.6	48.59	134.232	
15,500.0	9,415.2	12,477.0	8,016.8	54.7	82.5	-6.02	133.3	-650.3	6,619.7	6,571.0	48.68	135.986	
15,600.0	9,414.8	12,477.0	8,016.8	55.5	82.5	2.99	133.3	-650.3	6,717.3	6,668.5	48.77	137.727	
15,654.5	9,414.5	12,477.0	8,016.8	56.0	82.5	7.93	133.3	-650.3	6,770.5	6,721.7	48.83	138.669	
15,700.0	9,414.3	12,477.0	8,016.8	56.3	82.5	7.93	133.3	-650.3	6,815.0	6,766.1	48.87	139.452	
15,800.0	9,413.9	12,477.0	8,016.8	57.2	82.5	7.93	133.3	-650.3	6,912.7	6,863.7	48.97	141.165	
15,900.0	9,413.4	12,477.0	8,016.8	58.0	82.5	7.93	133.3	-650.3	7,010.5	6,961.4	49.07	142.867	
16,000.0	9,413.0	12,477.0	8,016.8	58.9	82.5	7.93	133.3	-650.3	7,108.3	7,059.1	49.17	144.559	
16,100.0	9,412.5	12,477.0	8,016.8	59.7	82.5	7.93	133.3	-650.3	7,206.2	7,157.0	49.28	146.241	
16,200.0	9,412.0	12,477.0	8,016.8	60.5	82.5	7.93	133.3	-650.3	7,304.2	7,254.8	49.38	147.912	
16,300.0	9,411.6	12,477.0	8,016.8	61.4	82.5	7.93	133.3	-650.3	7,402.2	7,352.7	49.49	149.573	
16,379.5	9,411.2	12,477.0	8,016.8	62.1	82.5	7.93	133.3	-650.3	7,480.2	7,430.6	49.57	150.887	
16,400.0	9,411.1	12,477.0	8,016.8	62.2	82.5	5.87	133.3	-650.3	7,500.3	7,450.7	49.60	151.224	
16,500.0	9,410.7	12,477.0	8,016.8	63.1	82.5	-4.39	133.3	-650.3	7,598.4	7,548.7	49.71	152.870	
16,533.9	9,410.5	12,477.0	8,016.8	63.4	82.5	-7.87	133.3	-650.3	7,631.7	7,582.0	49.74	153.427	
16,600.0	9,410.2	12,477.0	8,016.8	63.9	82.5	-7.87	133.3	-650.3	7,696.6	7,646.8	49.81	154.511	
16,700.0	9,409.8	12,477.0	8,016.8	64.8	82.5	-7.87	133.3	-650.3	7,794.8	7,744.9	49.92	156.141	
16,800.0	9,409.4	12,477.0	8,016.8	65.6	82.5	-7.87	133.3	-650.3	7,893.1	7,843.1	50.03	157.762	
16,900.0	9,408.9	12,477.0	8,016.8	66.5	82.5	-7.87	133.3	-650.3	7,991.4	7,941.3	50.14	159.372	
17,000.0	9,408.5	12,477.0	8,016.8	67.3	82.5	-7.87	133.3	-650.3	8,089.8	8,039.5	50.26	160.971	
17,100.0	9,408.0	12,477.0	8,016.8	68.2	82.5	-7.87	133.3	-650.3	8,188.1	8,137.8	50.37	162.561	
17,200.0	9,407.6	12,477.0	8,016.8	69.0	82.5	-7.87	133.3	-650.3	8,286.6	8,236.1	50.48	164.140	
17,300.0	9,407.1	12,477.0	8,016.8	69.9	82.5	-7.87	133.3	-650.3	8,385.0	8,334.4	50.60	165.709	
17,400.0	9,406.7	12,477.0	8,016.8	70.7	82.5	-7.87	133.3	-650.3	8,483.5	8,432.8	50.72	167.269	
17,500.0	9,406.2	12,477.0	8,016.8	71.6	82.5	-7.87	133.3	-650.3	8,582.1	8,531.2	50.84	168.818	
17,600.0	9,405.8	12,477.0	8,016.8	72.4	82.5	-7.87	133.3	-650.3	8,680.6	8,629.7	50.96	170.357	
17,700.0	9,405.3	12,477.0	8,016.8	73.3	82.5	-7.87	133.3	-650.3	8,779.2	8,728.2	51.08	171.886	
17,800.0	9,404.9	12,477.0	8,016.8	74.1	82.5	-7.87	133.3	-650.3	8,877.9	8,826.7	51.20	173.405	
17,900.0	9,404.4	12,477.0	8,016.8	74.9	82.5	-7.87	133.3	-650.3	8,976.5	8,925.2	51.32	174.914	
18,000.0	9,404.0	12,477.0	8,016.8	75.8	82.5	-7.87	133.3	-650.3	9,075.2	9,023.8	51.44	176.413	
18,100.0	9,403.5	12,477.0	8,016.8	76.7	82.5	-7.87	133.3	-650.3	9,173.9	9,122.4	51.57	177.903	
18,200.0	9,403.1	12,477.0	8,016.8	77.5	82.5	-7.87	133.3	-650.3	9,272.7	9,221.0	51.69	179.383	
18,300.0	9,402.7	12,477.0	8,016.8	78.4	82.5	-7.87	133.3	-650.3	9,371.5	9,319.7	51.82	180.853	
18,400.0	9,402.2	12,477.0	8,016.8	79.2	82.5	-7.87	133.3	-650.3	9,470.3	9,418.3	51.94	182.314	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design HONEY GRAHAM STATE PROJECT (ATLAS 2628) - GRAHAM CRACKER 16 STATE #1H - OWB - AC — **Offset Site Error:** 0.0 usft

Survey Program: 100-GYRO-NS, 7477-MWD — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,500.0	9,401.8	12,477.0	8,016.8	80.1	82.5	-7.87	133.3	-650.3	9,569.1	9,517.0	52.07	183.765	
18,600.0	9,401.3	12,477.0	8,016.8	80.9	82.5	-7.87	133.3	-650.3	9,667.9	9,615.7	52.20	185.206	
18,700.0	9,400.9	12,477.0	8,016.8	81.8	82.5	-7.87	133.3	-650.3	9,766.8	9,714.5	52.33	186.638	
18,800.0	9,400.4	12,477.0	8,016.8	82.6	82.5	-7.87	133.3	-650.3	9,865.7	9,813.2	52.46	188.061	
18,900.0	9,400.0	12,477.0	8,016.8	83.5	82.5	-7.87	133.3	-650.3	9,964.6	9,912.0	52.59	189.474	

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design HONEY GRAHAM STATE PROJECT (ATLAS 2628) - GRAHAM CRACKER 16 STATE #9H - OWB - AC — **Offset Site Error:** 0.0 usft

Survey Program: 100- VES GyroFlex, 7922-MWD — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	12.0	12.0	4.2	3.0	-12.21	4,846.4	-1,048.6	4,958.5				
100.0	100.0	120.4	120.4	4.2	3.0	-12.21	4,846.5	-1,048.3	4,958.6	4,951.3	7.24	684.581	
200.0	200.0	267.2	267.1	4.2	3.0	-12.19	4,845.7	-1,046.5	4,957.7	4,950.4	7.25	683.777	
300.0	300.0	411.2	411.1	4.3	3.0	-12.17	4,844.0	-1,044.3	4,956.2	4,949.0	7.27	681.643	
400.0	400.0	554.1	554.0	4.3	3.1	-12.15	4,840.9	-1,042.1	4,953.8	4,946.5	7.31	677.644	
500.0	500.0	667.5	667.3	4.3	3.1	-12.14	4,837.7	-1,040.3	4,950.7	4,943.4	7.36	672.746	
600.0	600.0	762.2	762.0	4.3	3.2	-12.12	4,835.1	-1,038.7	4,947.6	4,940.2	7.41	667.389	
700.0	700.0	837.1	836.9	4.3	3.2	-12.11	4,833.2	-1,037.4	4,944.8	4,937.3	7.47	662.112	
800.0	800.0	900.4	900.1	4.4	3.2	-12.10	4,832.0	-1,036.3	4,942.7	4,935.1	7.52	656.935	
900.0	900.0	1,012.7	1,012.4	4.4	3.3	-12.09	4,830.2	-1,034.4	4,940.7	4,933.1	7.61	649.544	
1,000.0	1,000.0	1,100.0	1,099.7	4.4	3.4	-12.07	4,828.8	-1,032.9	4,938.8	4,931.1	7.69	642.595	
1,100.0	1,100.0	1,191.5	1,191.2	4.5	3.4	-12.06	4,827.4	-1,031.4	4,937.0	4,929.2	7.77	635.045	
1,200.0	1,200.0	1,288.5	1,288.2	4.5	3.5	-12.05	4,826.1	-1,030.1	4,935.4	4,927.6	7.87	626.814	
1,300.0	1,300.0	1,406.6	1,406.2	4.5	3.6	-12.04	4,824.4	-1,028.6	4,933.7	4,925.7	8.00	616.934	
1,400.0	1,400.0	1,467.6	1,467.2	4.6	3.7	-12.03	4,823.6	-1,028.0	4,932.3	4,924.2	8.09	609.938	
1,500.0	1,500.0	1,537.5	1,537.1	4.6	3.7	-12.02	4,823.2	-1,027.4	4,931.5	4,923.3	8.18	602.872	
1,600.0	1,600.0	1,615.9	1,615.5	4.7	3.8	-12.02	4,823.1	-1,027.1	4,931.2	4,923.0	8.27	596.135	
1,633.2	1,633.2	1,646.0	1,645.6	4.7	3.8	-12.02	4,823.1	-1,027.1	4,931.2	4,922.9	8.30	594.239	
1,700.0	1,700.0	1,708.1	1,707.7	4.8	3.8	-12.02	4,823.1	-1,027.3	4,931.3	4,922.9	8.35	590.371	
1,800.0	1,800.0	1,821.7	1,821.3	4.8	3.8	-12.03	4,823.0	-1,027.7	4,931.2	4,922.8	8.45	583.865	
1,900.0	1,900.0	1,924.4	1,924.0	4.9	3.8	-12.02	4,822.8	-1,026.9	4,930.9	4,922.4	8.55	576.654	
1,940.5	1,940.5	1,953.3	1,952.9	4.9	3.9	-12.02	4,822.8	-1,026.5	4,930.9	4,922.3	8.59	574.327	
2,000.0	2,000.0	2,000.0	1,999.6	5.0	3.9	-12.01	4,823.1	-1,025.7	4,931.0	4,922.3	8.64	570.819	
2,100.0	2,100.0	2,300.0	2,299.4	5.0	4.2	-11.96	4,817.0	-1,020.0	4,927.4	4,918.5	8.89	554.180	
2,200.0	2,200.0	2,376.2	2,375.6	5.1	4.2	-11.97	4,813.9	-1,020.3	4,923.6	4,914.6	9.03	545.129	
2,300.0	2,300.0	2,433.5	2,432.8	5.2	4.2	-11.98	4,812.1	-1,021.1	4,920.7	4,911.6	9.15	537.577	
2,400.0	2,400.0	2,500.0	2,499.3	5.2	4.3	-12.00	4,810.5	-1,022.3	4,918.7	4,909.4	9.28	529.990	
2,500.0	2,500.0	2,576.7	2,576.0	5.3	4.3	-12.02	4,809.1	-1,023.8	4,917.3	4,907.9	9.41	522.585	
2,600.0	2,600.0	2,662.7	2,662.0	5.4	4.3	88.49	4,807.7	-1,025.4	4,916.1	4,906.6	9.52	516.574	
2,700.0	2,699.8	2,753.4	2,752.6	5.4	4.3	88.55	4,806.6	-1,027.0	4,915.1	4,905.5	9.60	512.103	
2,750.4	2,750.1	2,800.0	2,799.2	5.4	4.4	88.59	4,806.0	-1,027.8	4,914.6	4,904.9	9.64	509.853	
2,800.0	2,799.5	2,843.0	2,842.2	5.4	4.4	88.63	4,805.6	-1,028.5	4,914.1	4,904.4	9.68	507.849	
2,900.0	2,899.1	2,929.5	2,928.7	5.4	4.4	88.70	4,804.9	-1,029.6	4,913.4	4,903.7	9.75	503.961	
3,000.0	2,998.7	3,027.0	3,026.2	5.4	4.4	88.78	4,804.4	-1,031.1	4,913.0	4,903.1	9.82	500.054	
3,100.0	3,098.3	3,128.6	3,127.8	5.5	4.5	88.87	4,803.6	-1,032.5	4,912.4	4,902.4	9.90	496.032	
3,200.0	3,198.0	3,207.7	3,206.9	5.5	4.5	88.93	4,803.3	-1,033.5	4,912.1	4,902.1	9.97	492.823	
3,300.0	3,297.6	3,322.1	3,321.3	5.5	4.5	89.04	4,803.0	-1,034.8	4,911.8	4,901.8	10.04	489.004	
3,400.0	3,397.2	3,426.1	3,425.3	5.6	4.6	89.13	4,802.4	-1,036.1	4,911.4	4,901.3	10.13	484.881	
3,500.0	3,496.8	3,524.0	3,523.1	5.6	4.6	89.21	4,801.8	-1,037.5	4,911.0	4,900.7	10.21	480.940	
3,600.0	3,596.4	3,617.8	3,616.9	5.7	4.7	89.28	4,801.3	-1,039.0	4,910.6	4,900.3	10.29	477.273	
3,700.0	3,696.1	3,710.7	3,709.8	5.7	4.7	89.36	4,800.9	-1,040.7	4,910.4	4,900.1	10.36	473.848	
3,800.0	3,795.7	3,818.4	3,817.5	5.8	4.8	89.45	4,800.3	-1,042.6	4,910.2	4,899.7	10.44	470.155	
3,866.2	3,861.7	3,871.2	3,870.2	5.8	4.8	89.49	4,800.1	-1,043.4	4,910.1	4,899.6	10.49	467.979	
3,900.0	3,895.3	3,900.0	3,899.1	5.8	4.8	89.51	4,800.1	-1,043.9	4,910.1	4,899.6	10.52	466.934	
4,000.0	3,994.9	4,004.8	4,003.9	5.9	4.9	89.60	4,799.9	-1,045.5	4,910.2	4,899.6	10.59	463.751	
4,100.0	4,094.5	4,110.7	4,109.8	5.9	4.9	89.69	4,799.6	-1,047.2	4,910.1	4,899.5	10.67	460.200	
4,200.0	4,194.1	4,220.3	4,219.3	6.0	5.0	89.78	4,799.1	-1,048.8	4,909.9	4,899.2	10.76	456.191	
4,300.0	4,293.8	4,333.4	4,332.4	6.0	5.1	89.87	4,798.3	-1,050.7	4,909.5	4,898.7	10.87	451.678	
4,400.0	4,393.4	13,611.0	9,158.9	6.1	78.1	43.98	113.7	-892.4	4,812.4	4,765.4	47.04	102.308	
4,500.0	4,493.0	13,611.0	9,158.9	6.2	78.1	43.98	113.7	-892.4	4,712.8	4,665.6	47.22	99.800	
4,600.0	4,592.6	13,611.0	9,158.9	6.2	78.1	43.98	113.7	-892.4	4,613.1	4,565.7	47.41	97.305	
4,700.0	4,692.2	13,611.0	9,158.9	6.3	78.1	43.98	113.7	-892.4	4,513.5	4,465.9	47.60	94.823	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design HONEY GRAHAM STATE PROJECT (ATLAS 2628) - GRAHAM CRACKER 16 STATE #9H - OWB - AC — **Offset Site Error:** 0.0 usft

Survey Program: 100- VES GyroFlex, 7922-MWD — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.0	4,791.9	13,611.0	9,158.9	6.4	78.1	43.98	113.7	-892.4	4,413.9	4,366.1	47.79	92.356	
4,900.0	4,891.5	13,611.0	9,158.9	6.5	78.1	43.98	113.7	-892.4	4,314.3	4,266.3	47.99	89.902	
5,000.0	4,991.1	13,611.0	9,158.9	6.5	78.1	43.98	113.7	-892.4	4,214.7	4,166.6	48.19	87.462	
5,100.0	5,090.7	13,611.0	9,158.9	6.6	78.1	43.98	113.7	-892.4	4,115.2	4,066.8	48.39	85.036	
5,200.0	5,190.3	13,611.0	9,158.9	6.7	78.1	43.98	113.7	-892.4	4,015.7	3,967.1	48.60	82.625	
5,300.0	5,289.9	13,611.0	9,158.9	6.8	78.1	43.98	113.7	-892.4	3,916.2	3,867.4	48.81	80.228	
5,400.0	5,389.6	13,611.0	9,158.9	6.9	78.1	43.98	113.7	-892.4	3,816.7	3,767.7	49.03	77.846	
5,500.0	5,489.2	13,611.0	9,158.9	6.9	78.1	43.98	113.7	-892.4	3,717.2	3,668.0	49.25	75.478	
5,600.0	5,588.8	13,611.0	9,158.9	7.0	78.1	43.98	113.7	-892.4	3,617.8	3,568.3	49.47	73.126	
5,700.0	5,688.4	13,611.0	9,158.9	7.1	78.1	43.98	113.7	-892.4	3,518.4	3,468.7	49.70	70.789	
5,800.0	5,788.0	13,611.0	9,158.9	7.2	78.1	43.98	113.7	-892.4	3,419.1	3,369.1	49.94	68.467	
5,900.0	5,887.7	13,611.0	9,158.9	7.3	78.1	43.98	113.7	-892.4	3,319.8	3,269.6	50.18	66.161	
6,000.0	5,987.3	13,611.0	9,158.9	7.4	78.1	43.98	113.7	-892.4	3,220.5	3,170.1	50.42	63.870	
6,100.0	6,086.9	13,611.0	9,158.9	7.5	78.1	43.98	113.7	-892.4	3,121.3	3,070.6	50.67	61.595	
6,200.0	6,186.5	13,611.0	9,158.9	7.6	78.1	43.98	113.7	-892.4	3,022.1	2,971.2	50.93	59.337	
6,300.0	6,286.1	13,611.0	9,158.9	7.7	78.1	43.98	113.7	-892.4	2,923.0	2,871.8	51.20	57.095	
6,400.0	6,385.7	13,611.0	9,158.9	7.8	78.1	43.98	113.7	-892.4	2,824.0	2,772.5	51.47	54.869	
6,500.0	6,485.4	13,611.0	9,158.9	7.8	78.1	43.98	113.7	-892.4	2,725.0	2,673.2	51.75	52.660	
6,600.0	6,585.0	13,611.0	9,158.9	7.9	78.1	43.98	113.7	-892.4	2,626.1	2,574.0	52.04	50.467	
6,700.0	6,684.6	13,611.0	9,158.9	8.0	78.1	43.98	113.7	-892.4	2,527.3	2,474.9	52.33	48.292	
6,800.0	6,784.2	13,611.0	9,158.9	8.1	78.1	43.98	113.7	-892.4	2,428.5	2,375.9	52.64	46.134	
6,900.0	6,883.8	13,611.0	9,158.9	8.2	78.1	43.98	113.7	-892.4	2,329.9	2,277.0	52.96	43.993	
7,000.0	6,983.5	13,611.0	9,158.9	8.3	78.1	43.98	113.7	-892.4	2,231.4	2,178.1	53.29	41.871	
7,100.0	7,083.1	13,611.0	9,158.9	8.4	78.1	43.98	113.7	-892.4	2,133.1	2,079.4	53.64	39.766	
7,200.0	7,182.7	13,611.0	9,158.9	8.6	78.1	43.98	113.7	-892.4	2,034.9	1,980.9	54.00	37.680	
7,300.0	7,282.3	13,611.0	9,158.9	8.7	78.1	43.98	113.7	-892.4	1,936.9	1,882.5	54.39	35.613	
7,400.0	7,381.9	13,611.0	9,158.9	8.8	78.1	43.98	113.7	-892.4	1,839.1	1,784.3	54.79	33.565	
7,500.0	7,481.5	13,611.0	9,158.9	8.9	78.1	43.98	113.7	-892.4	1,741.6	1,686.4	55.22	31.537	
7,600.0	7,581.2	13,611.0	9,158.9	9.0	78.1	43.98	113.7	-892.4	1,644.3	1,588.7	55.68	29.530	
7,700.0	7,680.8	13,611.0	9,158.9	9.1	78.1	43.98	113.7	-892.4	1,547.5	1,491.3	56.18	27.545	
7,800.0	7,780.4	13,611.0	9,158.9	9.2	78.1	43.98	113.7	-892.4	1,451.0	1,394.3	56.72	25.582	
7,900.0	7,880.0	13,611.0	9,158.9	9.3	78.1	43.98	113.7	-892.4	1,355.0	1,297.7	57.31	23.643	
8,000.0	7,979.6	13,611.0	9,158.9	9.4	78.1	43.98	113.7	-892.4	1,259.7	1,201.7	57.97	21.731	
8,100.0	8,079.3	13,611.0	9,158.9	9.5	78.1	43.98	113.7	-892.4	1,165.2	1,106.5	58.70	19.849	
8,200.0	8,178.9	13,611.0	9,158.9	9.6	78.1	43.98	113.7	-892.4	1,071.6	1,012.1	59.54	17.999	
8,300.0	8,278.5	13,611.0	9,158.9	9.7	78.1	43.98	113.7	-892.4	979.4	918.9	60.50	16.188	
8,400.0	8,378.1	13,611.0	9,158.9	9.8	78.1	43.98	113.7	-892.4	888.8	827.2	61.62	14.423	
8,500.0	8,477.7	13,611.0	9,158.9	9.9	78.1	43.98	113.7	-892.4	800.4	737.5	62.94	12.717	
8,600.0	8,577.3	13,611.0	9,158.9	10.1	78.1	43.98	113.7	-892.4	715.2	650.7	64.51	11.087	
8,700.0	8,677.0	13,611.0	9,158.9	10.2	78.1	43.98	113.7	-892.4	634.2	567.8	66.35	9.558	
8,800.0	8,776.6	13,611.0	9,158.9	10.3	78.1	43.98	113.7	-892.4	559.4	491.0	68.48	8.170	
8,900.0	8,876.2	13,611.0	9,158.9	10.4	78.1	43.98	113.7	-892.4	493.7	422.9	70.75	6.978	
8,916.0	8,892.1	13,611.0	9,158.9	10.4	78.1	43.98	113.7	-892.4	484.3	413.2	71.10	6.811	
8,950.0	8,926.0	13,611.0	9,158.9	10.5	78.1	71.05	113.7	-892.4	465.7	393.9	71.81	6.485	
9,000.0	8,975.3	13,611.0	9,158.9	10.5	78.1	89.02	113.7	-892.4	442.8	370.6	72.22	6.132	
9,050.0	9,023.8	13,611.0	9,158.9	10.5	78.1	97.44	113.7	-892.4	426.2	354.4	71.88	5.930	
9,100.0	9,071.2	13,611.0	9,158.9	10.5	78.1	101.99	113.7	-892.4	416.8	346.1	70.68	5.896	SF
9,136.5	9,104.8	13,611.0	9,158.9	10.5	78.1	103.93	113.7	-892.4	414.7	345.4	69.26	5.987	CC, ES
9,150.0	9,117.0	13,611.0	9,158.9	10.5	78.1	104.43	113.7	-892.4	415.0	346.3	68.62	6.047	
9,200.0	9,160.9	13,611.0	9,158.9	10.5	78.1	105.40	113.7	-892.4	421.0	355.1	65.85	6.393	
9,250.0	9,202.6	13,611.0	9,158.9	10.6	78.1	105.20	113.7	-892.4	434.4	371.8	62.59	6.940	
9,300.0	9,241.8	13,611.0	9,158.9	10.6	78.1	103.96	113.7	-892.4	454.5	395.4	59.12	7.688	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design HONEY GRAHAM STATE PROJECT (ATLAS 2628) - GRAHAM CRACKER 16 STATE #9H - OWB - AC — **Offset Site Error:** 0.0 usft

Survey Program: 100- VES GyroFlex, 7922-MWD — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,350.0	9,278.2	13,611.0	9,158.9	10.7	78.1	101.72	113.7	-892.4	480.3	424.6	55.65	8.631	
9,400.0	9,311.5	13,611.0	9,158.9	10.7	78.1	98.49	113.7	-892.4	510.7	458.4	52.33	9.759	
9,450.0	9,341.3	13,611.0	9,158.9	10.8	78.1	94.28	113.7	-892.4	544.8	495.6	49.26	11.059	
9,500.0	9,367.6	13,611.0	9,158.9	10.9	78.1	89.14	113.7	-892.4	581.7	535.2	46.48	12.516	
9,550.0	9,390.2	13,611.0	9,158.9	11.0	78.1	83.16	113.7	-892.4	620.6	576.7	43.97	14.114	
9,600.0	9,408.7	13,611.0	9,158.9	11.2	78.1	76.53	113.7	-892.4	661.0	619.3	41.73	15.840	
9,650.0	9,423.2	13,611.0	9,158.9	11.3	78.1	69.54	113.7	-892.4	702.2	662.5	39.71	17.683	
9,700.0	9,433.4	13,611.0	9,158.9	11.5	78.1	62.52	113.7	-892.4	743.9	706.0	37.89	19.631	
9,750.0	9,439.4	13,611.0	9,158.9	11.7	78.1	55.77	113.7	-892.4	785.6	749.4	36.24	21.678	
9,796.2	9,441.0	13,611.0	9,158.9	11.8	78.1	49.98	113.7	-892.4	824.0	789.2	34.84	23.651	
9,800.0	9,441.0	13,611.0	9,158.9	11.8	78.1	49.91	113.7	-892.4	827.1	792.4	34.73	23.820	
9,900.0	9,440.5	13,611.0	9,158.9	12.2	78.1	47.74	113.7	-892.4	912.5	880.1	32.38	28.181	
10,000.0	9,440.1	13,611.0	9,158.9	12.7	78.1	45.00	113.7	-892.4	1,001.6	970.8	30.84	32.478	
10,100.0	9,439.6	13,611.0	9,158.9	13.2	78.1	41.57	113.7	-892.4	1,093.6	1,063.8	29.85	36.642	
10,200.0	9,439.2	13,611.0	9,158.9	13.7	78.1	37.26	113.7	-892.4	1,187.7	1,158.5	29.20	40.677	
10,300.0	9,438.7	13,611.0	9,158.9	14.3	78.1	31.89	113.7	-892.4	1,283.3	1,254.5	28.76	44.623	
10,400.0	9,438.3	13,611.0	9,158.9	14.8	78.1	25.23	113.7	-892.4	1,380.0	1,351.5	28.44	48.522	
10,500.0	9,437.8	13,611.0	9,158.9	15.4	78.1	17.11	113.7	-892.4	1,477.4	1,449.2	28.19	52.409	
10,606.4	9,437.3	13,611.0	9,158.9	16.0	78.1	6.89	113.7	-892.4	1,581.6	1,553.7	27.97	56.554	
10,700.0	9,436.9	13,611.0	9,158.9	16.6	78.1	6.89	113.7	-892.4	1,673.7	1,645.9	27.80	60.200	
10,800.0	9,436.4	13,611.0	9,158.9	17.3	78.1	6.89	113.7	-892.4	1,772.1	1,744.5	27.66	64.067	
10,900.0	9,436.0	13,611.0	9,158.9	17.9	78.1	6.89	113.7	-892.4	1,870.8	1,843.2	27.55	67.902	
11,000.0	9,435.5	13,611.0	9,158.9	18.6	78.1	6.89	113.7	-892.4	1,969.5	1,942.1	27.47	71.706	
11,100.0	9,435.1	13,611.0	9,158.9	19.3	78.1	6.89	113.7	-892.4	2,068.4	2,041.0	27.40	75.478	
11,200.0	9,434.6	13,611.0	9,158.9	20.0	78.1	6.89	113.7	-892.4	2,167.4	2,140.1	27.36	79.217	
11,300.0	9,434.2	13,611.0	9,158.9	20.7	78.1	6.89	113.7	-892.4	2,266.5	2,239.2	27.33	82.924	
11,400.0	9,433.8	13,611.0	9,158.9	21.4	78.1	6.89	113.7	-892.4	2,365.6	2,338.3	27.32	86.596	
11,500.0	9,433.3	13,611.0	9,158.9	22.2	78.1	6.89	113.7	-892.4	2,464.9	2,437.6	27.32	90.236	
11,600.0	9,432.9	13,611.0	9,158.9	22.9	78.1	6.89	113.7	-892.4	2,564.2	2,536.8	27.32	93.841	
11,700.0	9,432.4	13,611.0	9,158.9	23.7	78.1	6.89	113.7	-892.4	2,663.5	2,636.2	27.34	97.413	
11,800.0	9,432.0	13,611.0	9,158.9	24.4	78.1	6.89	113.7	-892.4	2,762.9	2,735.5	27.37	100.951	
11,900.0	9,431.5	13,611.0	9,158.9	25.2	78.1	6.89	113.7	-892.4	2,862.3	2,834.9	27.40	104.454	
12,000.0	9,431.1	13,611.0	9,158.9	26.0	78.1	6.89	113.7	-892.4	2,961.8	2,934.3	27.44	107.923	
12,100.0	9,430.6	13,611.0	9,158.9	26.7	78.1	6.89	113.7	-892.4	3,061.3	3,033.8	27.49	111.358	
12,200.0	9,430.2	13,611.0	9,158.9	27.5	78.1	6.89	113.7	-892.4	3,160.8	3,133.3	27.54	114.759	
12,300.0	9,429.7	13,611.0	9,158.9	28.3	78.1	6.89	113.7	-892.4	3,260.4	3,232.8	27.60	118.125	
12,400.0	9,429.3	13,611.0	9,158.9	29.1	78.1	6.89	113.7	-892.4	3,360.0	3,332.3	27.66	121.457	
12,500.0	9,428.8	13,611.0	9,158.9	29.9	78.1	6.89	113.7	-892.4	3,459.6	3,431.8	27.73	124.754	
12,600.0	9,428.4	13,611.0	9,158.9	30.7	78.1	6.89	113.7	-892.4	3,559.2	3,531.4	27.80	128.017	
12,700.0	9,427.9	13,611.0	9,158.9	31.5	78.1	6.89	113.7	-892.4	3,658.9	3,631.0	27.88	131.246	
12,800.0	9,427.5	13,611.0	9,158.9	32.3	78.1	6.89	113.7	-892.4	3,758.5	3,730.6	27.96	134.441	
12,900.0	9,427.0	13,611.0	9,158.9	33.1	78.1	6.89	113.7	-892.4	3,858.2	3,830.2	28.04	137.601	
13,000.0	9,426.6	13,611.0	9,158.9	33.9	78.1	6.89	113.7	-892.4	3,957.9	3,929.8	28.12	140.728	
13,100.0	9,426.1	13,611.0	9,158.9	34.7	78.1	6.89	113.7	-892.4	4,057.7	4,029.4	28.21	143.821	
13,200.0	9,425.7	13,611.0	9,158.9	35.6	78.1	6.89	113.7	-892.4	4,157.4	4,129.1	28.30	146.880	
13,300.0	9,425.2	13,611.0	9,158.9	36.4	78.1	6.89	113.7	-892.4	4,257.1	4,228.7	28.40	149.905	
13,400.0	9,424.8	13,611.0	9,158.9	37.2	78.1	6.89	113.7	-892.4	4,356.9	4,328.4	28.50	152.897	
13,500.0	9,424.3	13,611.0	9,158.9	38.0	78.1	6.89	113.7	-892.4	4,456.7	4,428.1	28.59	155.856	
13,600.0	9,423.9	13,611.0	9,158.9	38.8	78.1	6.89	113.7	-892.4	4,556.4	4,527.7	28.70	158.782	
13,700.0	9,423.4	13,611.0	9,158.9	39.7	78.1	6.89	113.7	-892.4	4,656.2	4,627.4	28.80	161.675	
13,800.0	9,423.0	13,611.0	9,158.9	40.5	78.1	6.89	113.7	-892.4	4,756.0	4,727.1	28.91	164.536	
13,900.0	9,422.5	13,611.0	9,158.9	41.3	78.1	6.89	113.7	-892.4	4,855.8	4,826.8	29.01	167.364	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design HONEY GRAHAM STATE PROJECT (ATLAS 2628) - GRAHAM CRACKER 16 STATE #9H - OWB - AC — **Offset Site Error:** 0.0 usft

Survey Program: 100- VES GyroFlex, 7922-MWD — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.0	9,422.1	13,611.0	9,158.9	42.1	78.1	6.89	113.7	-892.4	4,955.6	4,926.5	29.12	170.160	
14,100.0	9,421.6	13,611.0	9,158.9	43.0	78.1	6.89	113.7	-892.4	5,055.5	5,026.2	29.23	172.925	
14,200.0	9,421.2	13,611.0	9,158.9	43.8	78.1	6.89	113.7	-892.4	5,155.3	5,125.9	29.35	175.658	
14,300.0	9,420.7	13,611.0	9,158.9	44.6	78.1	6.89	113.7	-892.4	5,255.1	5,225.7	29.46	178.360	
14,400.0	9,420.3	13,611.0	9,158.9	45.5	78.1	6.89	113.7	-892.4	5,355.0	5,325.4	29.58	181.031	
14,500.0	9,419.8	13,611.0	9,158.9	46.3	78.1	6.89	113.7	-892.4	5,454.8	5,425.1	29.70	183.672	
14,600.0	9,419.4	13,611.0	9,158.9	47.1	78.1	6.89	113.7	-892.4	5,554.7	5,524.8	29.82	186.282	
14,681.5	9,419.0	13,611.0	9,158.9	47.8	78.1	6.89	113.7	-892.4	5,636.0	5,606.1	29.92	188.386	
14,700.0	9,418.9	13,611.0	9,158.9	48.0	78.1	-0.08	113.7	-892.4	5,654.5	5,624.6	29.94	188.863	
14,800.0	9,418.5	13,611.0	9,158.9	48.8	78.1	-33.75	113.7	-892.4	5,754.4	5,724.3	30.05	191.464	
14,900.0	9,418.0	13,611.0	9,158.9	49.6	78.1	-53.36	113.7	-892.4	5,854.1	5,823.9	30.16	194.106	
14,910.9	9,418.0	13,611.0	9,158.9	49.7	78.1	-54.82	113.7	-892.4	5,864.9	5,834.7	30.17	194.396	
15,000.0	9,417.5	13,611.0	9,158.9	50.5	78.1	-54.82	113.7	-892.4	5,953.7	5,923.4	30.26	196.753	
15,100.0	9,417.1	13,611.0	9,158.9	51.3	78.1	-54.82	113.7	-892.4	6,053.3	6,023.0	30.36	199.364	
15,200.0	9,416.6	13,611.0	9,158.9	52.1	78.1	-54.82	113.7	-892.4	6,153.0	6,122.5	30.47	201.941	
15,267.5	9,416.3	13,611.0	9,158.9	52.7	78.1	-54.82	113.7	-892.4	6,220.2	6,189.7	30.54	203.662	
15,300.0	9,416.1	13,611.0	9,158.9	53.0	78.1	-49.77	113.7	-892.4	6,252.6	6,222.0	30.58	204.483	
15,400.0	9,415.7	13,611.0	9,158.9	53.8	78.1	-24.06	113.7	-892.4	6,352.4	6,321.7	30.70	206.947	
15,500.0	9,415.2	13,611.0	9,158.9	54.7	78.1	16.79	113.7	-892.4	6,452.3	6,421.5	30.82	209.322	
15,600.0	9,414.8	13,611.0	9,158.9	55.5	78.1	46.73	113.7	-892.4	6,552.2	6,521.2	30.96	211.611	
15,654.5	9,414.5	13,611.0	9,158.9	56.0	78.1	55.99	113.7	-892.4	6,606.5	6,575.5	31.04	212.821	
15,700.0	9,414.3	13,611.0	9,158.9	56.3	78.1	55.99	113.7	-892.4	6,651.9	6,620.8	31.11	213.815	
15,800.0	9,413.9	13,611.0	9,158.9	57.2	78.1	55.99	113.7	-892.4	6,751.6	6,720.3	31.26	215.978	
15,900.0	9,413.4	13,611.0	9,158.9	58.0	78.1	55.99	113.7	-892.4	6,851.2	6,819.8	31.41	218.114	
16,000.0	9,413.0	13,611.0	9,158.9	58.9	78.1	55.99	113.7	-892.4	6,950.9	6,919.4	31.56	220.225	
16,100.0	9,412.5	13,611.0	9,158.9	59.7	78.1	55.99	113.7	-892.4	7,050.7	7,018.9	31.72	222.309	
16,200.0	9,412.0	13,611.0	9,158.9	60.5	78.1	55.99	113.7	-892.4	7,150.4	7,118.5	31.87	224.368	
16,300.0	9,411.6	13,611.0	9,158.9	61.4	78.1	55.99	113.7	-892.4	7,250.1	7,218.1	32.02	226.403	
16,379.5	9,411.2	13,611.0	9,158.9	62.1	78.1	55.99	113.7	-892.4	7,329.4	7,297.3	32.15	228.003	
16,400.0	9,411.1	13,611.0	9,158.9	62.2	78.1	52.57	113.7	-892.4	7,349.8	7,317.7	32.18	228.414	
16,500.0	9,410.7	13,611.0	9,158.9	63.1	78.1	23.80	113.7	-892.4	7,449.7	7,417.4	32.33	230.449	
16,533.9	9,410.5	13,611.0	9,158.9	63.4	78.1	8.22	113.7	-892.4	7,483.6	7,451.2	32.38	231.148	
16,600.0	9,410.2	13,611.0	9,158.9	63.9	78.1	8.22	113.7	-892.4	7,549.6	7,517.1	32.47	232.514	
16,700.0	9,409.8	13,611.0	9,158.9	64.8	78.1	8.22	113.7	-892.4	7,649.5	7,616.9	32.61	234.561	
16,800.0	9,409.4	13,611.0	9,158.9	65.6	78.1	8.22	113.7	-892.4	7,749.5	7,716.7	32.76	236.586	
16,900.0	9,408.9	13,611.0	9,158.9	66.5	78.1	8.22	113.7	-892.4	7,849.4	7,816.5	32.90	238.587	
17,000.0	9,408.5	13,611.0	9,158.9	67.3	78.1	8.22	113.7	-892.4	7,949.3	7,916.3	33.04	240.566	
17,100.0	9,408.0	13,611.0	9,158.9	68.2	78.1	8.22	113.7	-892.4	8,049.2	8,016.0	33.19	242.522	
17,200.0	9,407.6	13,611.0	9,158.9	69.0	78.1	8.22	113.7	-892.4	8,149.2	8,115.8	33.34	244.457	
17,300.0	9,407.1	13,611.0	9,158.9	69.9	78.1	8.22	113.7	-892.4	8,249.1	8,215.6	33.48	246.370	
17,400.0	9,406.7	13,611.0	9,158.9	70.7	78.1	8.22	113.7	-892.4	8,349.0	8,315.4	33.63	248.262	
17,500.0	9,406.2	13,611.0	9,158.9	71.6	78.1	8.22	113.7	-892.4	8,449.0	8,415.2	33.78	250.133	
17,600.0	9,405.8	13,611.0	9,158.9	72.4	78.1	8.22	113.7	-892.4	8,548.9	8,515.0	33.93	251.983	
17,700.0	9,405.3	13,611.0	9,158.9	73.3	78.1	8.22	113.7	-892.4	8,648.8	8,614.8	34.08	253.813	
17,800.0	9,404.9	13,611.0	9,158.9	74.1	78.1	8.22	113.7	-892.4	8,748.8	8,714.6	34.23	255.623	
17,900.0	9,404.4	13,611.0	9,158.9	74.9	78.1	8.22	113.7	-892.4	8,848.7	8,814.4	34.38	257.413	
18,000.0	9,404.0	13,611.0	9,158.9	75.8	78.1	8.22	113.7	-892.4	8,948.7	8,914.1	34.53	259.183	
18,100.0	9,403.5	13,611.0	9,158.9	76.7	78.1	8.22	113.7	-892.4	9,048.6	9,013.9	34.68	260.934	
18,200.0	9,403.1	13,611.0	9,158.9	77.5	78.1	8.22	113.7	-892.4	9,148.6	9,113.7	34.83	262.666	
18,300.0	9,402.7	13,611.0	9,158.9	78.4	78.1	8.22	113.7	-892.4	9,248.5	9,213.5	34.98	264.379	
18,400.0	9,402.2	13,611.0	9,158.9	79.2	78.1	8.22	113.7	-892.4	9,348.5	9,313.3	35.13	266.074	
18,500.0	9,401.8	13,611.0	9,158.9	80.1	78.1	8.22	113.7	-892.4	9,448.4	9,413.1	35.29	267.750	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design HONEY GRAHAM STATE PROJECT (ATLAS 2628) - GRAHAM CRACKER 16 STATE #9H - OWB - AC — **Offset Site Error:** 0.0 usft

Survey Program: 100- VES GyroFlex, 7922-MWD — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,600.0	9,401.3	13,611.0	9,158.9	80.9	78.1	8.22	113.7	-892.4	9,548.4	9,512.9	35.44	269.409	
18,700.0	9,400.9	13,611.0	9,158.9	81.8	78.1	8.22	113.7	-892.4	9,648.3	9,612.7	35.60	271.050	
18,800.0	9,400.4	13,611.0	9,158.9	82.6	78.1	8.22	113.7	-892.4	9,748.3	9,712.5	35.75	272.673	
18,900.0	9,400.0	13,611.0	9,158.9	83.5	78.1	8.22	113.7	-892.4	9,848.2	9,812.3	35.91	274.280	
19,000.0	9,399.5	13,611.0	9,158.9	84.3	78.1	8.22	113.7	-892.4	9,948.2	9,912.1	36.06	275.869	

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design HONEY GRAHAM STATE PROJECT (ATLAS 2628) - GRAHAM NASH STATE COM #1H - OWB - AWP — **Offset Site Error:** 0.0 usft

Survey Program: 9400-INC-ONLY — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	4.2	3.0	-170.26	-6,175.1	-1,060.3	6,265.7				
100.0	100.0	41.4	41.4	4.2	3.1	-170.26	-6,175.1	-1,060.3	6,265.5	6,258.1	7.36	851.596	
200.0	200.0	141.4	141.4	4.2	4.1	-170.26	-6,175.1	-1,060.3	6,265.5	6,257.1	8.39	746.864	
300.0	300.0	241.4	241.4	4.3	5.7	-170.26	-6,175.1	-1,060.3	6,265.5	6,255.5	9.98	627.806	
400.0	400.0	341.4	341.4	4.3	7.5	-170.26	-6,175.1	-1,060.3	6,265.5	6,253.7	11.79	531.549	
500.0	500.0	441.4	441.4	4.3	9.4	-170.26	-6,175.1	-1,060.3	6,265.5	6,251.8	13.69	457.669	
600.0	600.0	541.4	541.4	4.3	11.3	-170.26	-6,175.1	-1,060.3	6,265.5	6,249.8	15.64	400.540	
700.0	700.0	641.4	641.4	4.3	13.3	-170.26	-6,175.1	-1,060.3	6,265.5	6,247.8	17.62	355.489	
800.0	800.0	741.4	741.4	4.4	15.3	-170.26	-6,175.1	-1,060.3	6,265.5	6,245.8	19.63	319.226	
900.0	900.0	841.4	841.4	4.4	17.3	-170.26	-6,175.1	-1,060.3	6,265.5	6,243.8	21.64	289.486	
1,000.0	1,000.0	941.4	941.4	4.4	19.3	-170.26	-6,175.1	-1,060.3	6,265.5	6,241.8	23.67	264.694	
1,100.0	1,100.0	1,041.4	1,041.4	4.5	21.3	-170.26	-6,175.1	-1,060.3	6,265.5	6,239.8	25.71	243.730	
1,200.0	1,200.0	1,141.4	1,141.4	4.5	23.3	-170.26	-6,175.1	-1,060.3	6,265.5	6,237.7	27.75	225.783	
1,300.0	1,300.0	1,241.4	1,241.4	4.5	25.3	-170.26	-6,175.1	-1,060.3	6,265.5	6,235.7	29.80	210.254	
1,400.0	1,400.0	1,341.4	1,341.4	4.6	27.3	-170.26	-6,175.1	-1,060.3	6,265.5	6,233.6	31.85	196.689	
1,500.0	1,500.0	1,441.4	1,441.4	4.6	29.3	-170.26	-6,175.1	-1,060.3	6,265.5	6,231.6	33.91	184.741	
1,600.0	1,600.0	1,541.4	1,541.4	4.7	31.3	-170.26	-6,175.1	-1,060.3	6,265.5	6,229.5	35.98	174.139	
1,700.0	1,700.0	1,641.4	1,641.4	4.8	33.3	-170.26	-6,175.1	-1,060.3	6,265.5	6,227.4	38.05	164.670	
1,800.0	1,800.0	1,741.4	1,741.4	4.8	35.3	-170.26	-6,175.1	-1,060.3	6,265.5	6,225.3	40.12	156.163	
1,900.0	1,900.0	1,841.4	1,841.4	4.9	37.3	-170.26	-6,175.1	-1,060.3	6,265.5	6,223.3	42.20	148.479	
2,000.0	2,000.0	1,941.4	1,941.4	5.0	39.3	-170.26	-6,175.1	-1,060.3	6,265.5	6,221.2	44.28	141.505	
2,100.0	2,100.0	2,041.4	2,041.4	5.0	41.4	-170.26	-6,175.1	-1,060.3	6,265.5	6,219.1	46.36	135.147	
2,200.0	2,200.0	2,141.4	2,141.4	5.1	43.4	-170.26	-6,175.1	-1,060.3	6,265.5	6,217.0	48.45	129.328	
2,300.0	2,300.0	2,241.4	2,241.4	5.2	45.4	-170.26	-6,175.1	-1,060.3	6,265.5	6,214.9	50.53	123.983	
2,400.0	2,400.0	2,341.4	2,341.4	5.2	47.4	-170.26	-6,175.1	-1,060.3	6,265.5	6,212.8	52.63	119.056	
2,500.0	2,500.0	2,441.4	2,441.4	5.3	49.4	-170.26	-6,175.1	-1,060.3	6,265.5	6,210.7	54.72	114.501	
2,600.0	2,600.0	2,541.4	2,541.4	5.4	51.4	-69.79	-6,175.1	-1,060.3	6,264.9	6,208.1	56.78	110.340	
2,700.0	2,699.8	2,641.2	2,641.2	5.4	53.5	-69.87	-6,175.1	-1,060.3	6,263.1	6,204.3	58.80	106.520	
2,750.4	2,750.1	2,691.5	2,691.5	5.4	54.5	-69.93	-6,175.1	-1,060.3	6,261.7	6,201.9	59.81	104.686	
2,800.0	2,799.5	2,740.9	2,740.9	5.4	55.5	-69.97	-6,175.1	-1,060.3	6,260.2	6,199.4	60.81	102.940	
2,900.0	2,899.1	2,840.5	2,840.5	5.4	57.5	-70.04	-6,175.1	-1,060.3	6,257.2	6,194.4	62.83	99.586	
3,000.0	2,998.7	2,940.1	2,940.1	5.4	59.5	-70.12	-6,175.1	-1,060.3	6,254.2	6,189.4	64.85	96.438	
3,100.0	3,098.3	3,039.7	3,039.7	5.5	61.5	-70.19	-6,175.1	-1,060.3	6,251.3	6,184.4	66.87	93.477	
3,200.0	3,198.0	3,139.4	3,139.4	5.5	63.5	-70.27	-6,175.1	-1,060.3	6,248.3	6,179.4	68.90	90.689	
3,300.0	3,297.6	3,239.0	3,239.0	5.5	65.5	-70.34	-6,175.1	-1,060.3	6,245.3	6,174.4	70.92	88.058	
3,400.0	3,397.2	3,338.6	3,338.6	5.6	67.5	-70.42	-6,175.1	-1,060.3	6,242.4	6,169.4	72.95	85.571	
3,500.0	3,496.8	3,438.2	3,438.2	5.6	69.5	-70.49	-6,175.1	-1,060.3	6,239.5	6,164.5	74.98	83.216	
3,600.0	3,596.4	3,537.8	3,537.8	5.7	71.5	-70.57	-6,175.1	-1,060.3	6,236.5	6,159.5	77.01	80.984	
3,700.0	3,696.1	3,637.5	3,637.5	5.7	73.6	-70.64	-6,175.1	-1,060.3	6,233.6	6,154.6	79.04	78.866	
3,800.0	3,795.7	3,737.1	3,737.1	5.8	75.6	-70.72	-6,175.1	-1,060.3	6,230.7	6,149.7	81.07	76.852	
3,900.0	3,895.3	3,836.7	3,836.7	5.8	77.6	-70.79	-6,175.1	-1,060.3	6,227.9	6,144.7	83.11	74.935	
4,000.0	3,994.9	3,936.3	3,936.3	5.9	79.6	-70.87	-6,175.1	-1,060.3	6,225.0	6,139.8	85.15	73.108	
4,100.0	4,094.5	4,035.9	4,035.9	5.9	81.6	-70.95	-6,175.1	-1,060.3	6,222.1	6,134.9	87.19	71.366	
4,200.0	4,194.1	4,135.5	4,135.5	6.0	83.6	-71.02	-6,175.1	-1,060.3	6,219.3	6,130.0	89.23	69.702	
4,300.0	4,293.8	4,235.2	4,235.2	6.0	85.6	-71.10	-6,175.1	-1,060.3	6,216.4	6,125.1	91.27	68.111	
4,400.0	4,393.4	4,334.8	4,334.8	6.1	87.6	-71.17	-6,175.1	-1,060.3	6,213.6	6,120.3	93.31	66.589	
4,500.0	4,493.0	4,434.4	4,434.4	6.2	89.6	-71.25	-6,175.1	-1,060.3	6,210.8	6,115.4	95.36	65.131	
4,600.0	4,592.6	4,534.0	4,534.0	6.2	91.7	-71.33	-6,175.1	-1,060.3	6,207.9	6,110.5	97.41	63.733	
4,700.0	4,692.2	4,633.6	4,633.6	6.3	93.7	-71.40	-6,175.1	-1,060.3	6,205.1	6,105.7	99.45	62.392	
4,800.0	4,791.9	4,733.3	4,733.3	6.4	95.7	-71.48	-6,175.1	-1,060.3	6,202.4	6,100.9	101.50	61.104	
4,900.0	4,891.5	4,832.9	4,832.9	6.5	97.7	-71.55	-6,175.1	-1,060.3	6,199.6	6,096.0	103.56	59.866	
5,000.0	4,991.1	4,932.5	4,932.5	6.5	99.7	-71.63	-6,175.1	-1,060.3	6,196.8	6,091.2	105.61	58.676	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design HONEY GRAHAM STATE PROJECT (ATLAS 2628) - GRAHAM NASH STATE COM #1H - OWB - AWP — **Offset Site Error:** 0.0 usft

Survey Program: 9400-INC-ONLY — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,090.7	5,032.1	5,032.1	6.6	101.7	-71.71	-6,175.1	-1,060.3	6,194.1	6,086.4	107.67	57.530	
5,200.0	5,190.3	5,131.7	5,131.7	6.7	103.7	-71.78	-6,175.1	-1,060.3	6,191.3	6,081.6	109.72	56.427	
5,300.0	5,289.9	5,231.3	5,231.3	6.8	105.7	-71.86	-6,175.1	-1,060.3	6,188.6	6,076.8	111.78	55.363	
5,400.0	5,389.6	5,331.0	5,331.0	6.9	107.8	-71.94	-6,175.1	-1,060.3	6,185.9	6,072.0	113.84	54.338	
5,500.0	5,489.2	5,430.6	5,430.6	6.9	109.8	-72.01	-6,175.1	-1,060.3	6,183.2	6,067.2	115.90	53.348	
5,600.0	5,588.8	5,530.2	5,530.2	7.0	111.8	-72.09	-6,175.1	-1,060.3	6,180.5	6,062.5	117.97	52.392	
5,700.0	5,688.4	5,629.8	5,629.8	7.1	113.8	-72.17	-6,175.1	-1,060.3	6,177.8	6,057.7	120.03	51.468	
5,800.0	5,788.0	5,729.4	5,729.4	7.2	115.8	-72.24	-6,175.1	-1,060.3	6,175.1	6,053.0	122.10	50.575	
5,900.0	5,887.7	5,829.1	5,829.1	7.3	117.8	-72.32	-6,175.1	-1,060.3	6,172.4	6,048.3	124.16	49.712	
6,000.0	5,987.3	5,928.7	5,928.7	7.4	119.8	-72.40	-6,175.1	-1,060.3	6,169.8	6,043.5	126.23	48.876	
6,100.0	6,086.9	6,028.3	6,028.3	7.5	121.8	-72.47	-6,175.1	-1,060.3	6,167.1	6,038.8	128.30	48.066	
6,200.0	6,186.5	6,127.9	6,127.9	7.6	123.9	-72.55	-6,175.1	-1,060.3	6,164.5	6,034.1	130.38	47.282	
6,300.0	6,286.1	6,227.5	6,227.5	7.7	125.9	-72.63	-6,175.1	-1,060.3	6,161.9	6,029.4	132.45	46.522	
6,400.0	6,385.7	6,327.1	6,327.1	7.8	127.9	-72.71	-6,175.1	-1,060.3	6,159.3	6,024.7	134.52	45.785	
6,500.0	6,485.4	6,426.8	6,426.8	7.8	129.9	-72.78	-6,175.1	-1,060.3	6,156.7	6,020.1	136.60	45.070	
6,600.0	6,585.0	6,526.4	6,526.4	7.9	131.9	-72.86	-6,175.1	-1,060.3	6,154.1	6,015.4	138.68	44.377	
6,700.0	6,684.6	6,626.0	6,626.0	8.0	133.9	-72.94	-6,175.1	-1,060.3	6,151.5	6,010.7	140.76	43.703	
6,800.0	6,784.2	6,725.6	6,725.6	8.1	135.9	-73.01	-6,175.1	-1,060.3	6,148.9	6,006.1	142.84	43.048	
6,900.0	6,883.8	6,825.2	6,825.2	8.2	137.9	-73.09	-6,175.1	-1,060.3	6,146.4	6,001.5	144.92	42.412	
7,000.0	6,983.5	6,924.9	6,924.9	8.3	139.9	-73.17	-6,175.1	-1,060.3	6,143.8	5,996.8	147.00	41.794	
7,100.0	7,083.1	7,024.5	7,024.5	8.4	142.0	-73.25	-6,175.1	-1,060.3	6,141.3	5,992.2	149.09	41.193	
7,200.0	7,182.7	7,124.1	7,124.1	8.6	144.0	-73.33	-6,175.1	-1,060.3	6,138.8	5,987.6	151.17	40.608	
7,300.0	7,282.3	7,223.7	7,223.7	8.7	146.0	-73.40	-6,175.1	-1,060.3	6,136.3	5,983.0	153.26	40.039	
7,400.0	7,381.9	7,323.3	7,323.3	8.8	148.0	-73.48	-6,175.1	-1,060.3	6,133.8	5,978.4	155.35	39.484	
7,500.0	7,481.5	7,422.9	7,422.9	8.9	150.0	-73.56	-6,175.1	-1,060.3	6,131.3	5,973.9	157.44	38.945	
7,600.0	7,581.2	7,522.6	7,522.6	9.0	152.0	-73.64	-6,175.1	-1,060.3	6,128.8	5,969.3	159.53	38.419	
7,700.0	7,680.8	7,622.2	7,622.2	9.1	154.0	-73.72	-6,175.1	-1,060.3	6,126.4	5,964.7	161.62	37.906	
7,800.0	7,780.4	7,721.8	7,721.8	9.2	156.0	-73.79	-6,175.1	-1,060.3	6,123.9	5,960.2	163.71	37.407	
7,900.0	7,880.0	7,821.4	7,821.4	9.3	158.1	-73.87	-6,175.1	-1,060.3	6,121.5	5,955.7	165.81	36.920	
8,000.0	7,979.6	7,921.0	7,921.0	9.4	160.1	-73.95	-6,175.1	-1,060.3	6,119.0	5,951.1	167.90	36.444	
8,100.0	8,079.3	8,020.7	8,020.7	9.5	162.1	-74.03	-6,175.1	-1,060.3	6,116.6	5,946.6	170.00	35.981	
8,200.0	8,178.9	8,120.3	8,120.3	9.6	164.1	-74.11	-6,175.1	-1,060.3	6,114.2	5,942.1	172.09	35.528	
8,300.0	8,278.5	8,219.9	8,219.9	9.7	166.1	-74.18	-6,175.1	-1,060.3	6,111.8	5,937.6	174.19	35.086	
8,400.0	8,378.1	8,319.5	8,319.5	9.8	168.1	-74.26	-6,175.1	-1,060.3	6,109.4	5,933.2	176.29	34.655	
8,500.0	8,477.7	8,419.1	8,419.1	9.9	170.1	-74.34	-6,175.1	-1,060.3	6,107.1	5,928.7	178.39	34.234	
8,600.0	8,577.3	8,518.7	8,518.7	10.1	172.1	-74.42	-6,175.1	-1,060.3	6,104.7	5,924.2	180.50	33.822	
8,700.0	8,677.0	8,618.4	8,618.4	10.2	174.2	-74.50	-6,175.1	-1,060.3	6,102.4	5,919.8	182.60	33.419	
8,800.0	8,776.6	8,718.0	8,718.0	10.3	176.2	-74.58	-6,175.1	-1,060.3	6,100.0	5,915.3	184.70	33.026	
8,900.0	8,876.2	8,817.6	8,817.6	10.4	178.2	-74.66	-6,175.1	-1,060.3	6,097.7	5,910.9	186.81	32.642	
8,916.0	8,892.1	8,833.5	8,833.5	10.4	178.5	-74.67	-6,175.1	-1,060.3	6,097.3	5,910.2	187.14	32.581	
8,950.0	8,926.0	8,867.4	8,867.4	10.5	179.2	-49.77	-6,175.1	-1,060.3	6,095.6	5,907.7	187.89	32.441	
9,000.0	8,975.3	8,916.7	8,916.7	10.5	180.2	-34.38	-6,175.1	-1,060.3	6,089.4	5,900.5	188.90	32.235	
9,050.0	9,023.8	8,965.2	8,965.2	10.5	181.2	-27.86	-6,175.1	-1,060.3	6,079.0	5,889.1	189.91	32.011	
9,100.0	9,071.2	9,012.6	9,012.6	10.5	182.1	-24.56	-6,175.1	-1,060.3	6,064.4	5,873.5	190.89	31.769	
9,150.0	9,117.0	9,058.4	9,058.4	10.5	183.0	-22.79	-6,175.1	-1,060.3	6,045.9	5,854.0	191.86	31.512	
9,200.0	9,160.9	9,102.3	9,102.3	10.5	183.9	-21.91	-6,175.1	-1,060.3	6,023.5	5,830.7	192.80	31.242	
9,250.0	9,202.6	9,144.0	9,144.0	10.6	184.8	-21.64	-6,175.1	-1,060.3	5,997.4	5,803.7	193.71	30.961	
9,300.0	9,241.8	9,183.2	9,183.2	10.6	185.6	-21.87	-6,175.1	-1,060.3	5,967.7	5,773.2	194.57	30.672	
9,350.0	9,278.2	9,219.6	9,219.6	10.7	186.3	-22.57	-6,175.1	-1,060.3	5,934.9	5,739.5	195.38	30.376	
9,400.0	9,311.5	9,252.9	9,252.9	10.7	187.0	-23.76	-6,175.1	-1,060.3	5,899.0	5,702.8	196.13	30.077	
9,450.0	9,341.3	9,282.7	9,282.7	10.8	187.6	-25.53	-6,175.1	-1,060.3	5,860.3	5,663.5	196.82	29.775	
9,500.0	9,367.6	9,309.0	9,309.0	10.9	188.1	-28.07	-6,175.1	-1,060.3	5,819.2	5,621.8	197.44	29.474	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design HONEY GRAHAM STATE PROJECT (ATLAS 2628) - GRAHAM NASH STATE COM #1H - OWB - AWP — **Offset Site Error:** 0.0 usft

Survey Program: 9400-INC-ONLY — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,550.0	9,390.2	9,331.6	9,331.6	11.0	188.6	-31.66	-6,175.1	-1,060.3	5,776.0	5,578.0	197.97	29.176	
9,600.0	9,408.7	9,350.1	9,350.1	11.2	188.9	-36.80	-6,175.1	-1,060.3	5,731.0	5,532.5	198.43	28.882	
9,650.0	9,423.2	9,364.6	9,364.6	11.3	189.2	-44.32	-6,175.1	-1,060.3	5,684.5	5,485.7	198.79	28.595	
9,700.0	9,433.4	9,374.8	9,374.8	11.5	189.4	-55.52	-6,175.1	-1,060.3	5,636.9	5,437.8	199.06	28.317	
9,750.0	9,439.4	9,380.8	9,380.8	11.7	189.6	-71.83	-6,175.1	-1,060.3	5,588.6	5,389.3	199.24	28.050	
9,796.2	9,441.0	9,382.4	9,382.4	11.8	189.6	-91.15	-6,175.1	-1,060.3	5,543.6	5,344.3	199.31	27.814	
9,800.0	9,441.0	9,382.4	9,382.4	11.8	189.6	-91.16	-6,175.1	-1,060.3	5,539.9	5,340.6	199.31	27.795	
9,900.0	9,440.5	9,381.9	9,381.9	12.2	189.6	-91.36	-6,175.1	-1,060.3	5,442.0	5,242.6	199.38	27.295	
10,000.0	9,440.1	9,381.5	9,381.5	12.7	189.6	-91.64	-6,175.1	-1,060.3	5,343.5	5,144.1	199.45	26.791	
10,100.0	9,439.6	9,381.0	9,381.0	13.2	189.6	-92.06	-6,175.1	-1,060.3	5,244.5	5,045.0	199.52	26.286	
10,200.0	9,439.2	9,380.6	9,380.6	13.7	189.6	-92.79	-6,175.1	-1,060.3	5,145.1	4,945.5	199.58	25.780	
10,300.0	9,438.7	9,380.1	9,380.1	14.3	189.5	-94.34	-6,175.1	-1,060.3	5,045.4	4,845.8	199.64	25.272	
10,400.0	9,438.3	9,379.7	9,379.7	14.8	189.5	-99.95	-6,175.1	-1,060.3	4,945.5	4,745.8	199.70	24.765	
10,500.0	9,437.8	9,379.2	9,379.2	15.4	189.5	117.04	-6,175.1	-1,060.3	4,845.5	4,645.8	199.75	24.258	
10,606.4	9,437.3	9,378.7	9,378.7	16.0	189.5	95.50	-6,175.1	-1,060.3	4,739.2	4,539.4	199.79	23.720	
10,700.0	9,436.9	9,378.3	9,378.3	16.6	189.5	95.40	-6,175.1	-1,060.3	4,645.7	4,445.9	199.83	23.248	
10,800.0	9,436.4	9,377.8	9,377.8	17.3	189.5	95.28	-6,175.1	-1,060.3	4,545.8	4,345.9	199.88	22.743	
10,900.0	9,436.0	9,377.4	9,377.4	17.9	189.5	95.17	-6,175.1	-1,060.3	4,445.9	4,246.0	199.93	22.238	
11,000.0	9,435.5	9,376.9	9,376.9	18.6	189.5	95.05	-6,175.1	-1,060.3	4,346.1	4,146.1	199.98	21.733	
11,100.0	9,435.1	9,376.5	9,376.5	19.3	189.5	94.93	-6,175.1	-1,060.3	4,246.2	4,046.2	200.03	21.228	
11,200.0	9,434.6	9,376.0	9,376.0	20.0	189.5	94.82	-6,175.1	-1,060.3	4,146.3	3,946.2	200.09	20.723	
11,300.0	9,434.2	9,375.6	9,375.6	20.7	189.5	94.70	-6,175.1	-1,060.3	4,046.5	3,846.3	200.15	20.218	
11,400.0	9,433.8	9,375.2	9,375.2	21.4	189.4	94.59	-6,175.1	-1,060.3	3,946.6	3,746.4	200.21	19.713	
11,500.0	9,433.3	9,374.7	9,374.7	22.2	189.4	94.47	-6,175.1	-1,060.3	3,846.8	3,646.5	200.27	19.208	
11,600.0	9,432.9	9,374.3	9,374.3	22.9	189.4	94.35	-6,175.1	-1,060.3	3,747.0	3,546.6	200.34	18.703	
11,700.0	9,432.4	9,373.8	9,373.8	23.7	189.4	94.24	-6,175.1	-1,060.3	3,647.1	3,446.7	200.41	18.199	
11,800.0	9,432.0	9,373.4	9,373.4	24.4	189.4	94.12	-6,175.1	-1,060.3	3,547.3	3,346.8	200.48	17.694	
11,900.0	9,431.5	9,372.9	9,372.9	25.2	189.4	94.01	-6,175.1	-1,060.3	3,447.5	3,247.0	200.55	17.190	
12,000.0	9,431.1	9,372.5	9,372.5	26.0	189.4	93.89	-6,175.1	-1,060.3	3,347.7	3,147.1	200.63	16.686	
12,100.0	9,430.6	9,372.0	9,372.0	26.7	189.4	93.77	-6,175.1	-1,060.3	3,248.0	3,047.3	200.71	16.183	
12,200.0	9,430.2	9,371.6	9,371.6	27.5	189.4	93.66	-6,175.1	-1,060.3	3,148.2	2,947.4	200.79	15.679	
12,300.0	9,429.7	9,371.1	9,371.1	28.3	189.4	93.54	-6,175.1	-1,060.3	3,048.5	2,847.6	200.87	15.176	
12,400.0	9,429.3	9,370.7	9,370.7	29.1	189.4	93.43	-6,175.1	-1,060.3	2,948.7	2,747.8	200.96	14.673	
12,500.0	9,428.8	9,370.2	9,370.2	29.9	189.3	93.31	-6,175.1	-1,060.3	2,849.0	2,648.0	201.05	14.170	
12,600.0	9,428.4	9,369.8	9,369.8	30.7	189.3	93.19	-6,175.1	-1,060.3	2,749.3	2,548.2	201.15	13.668	
12,700.0	9,427.9	9,369.3	9,369.3	31.5	189.3	93.08	-6,175.1	-1,060.3	2,649.7	2,448.4	201.25	13.166	
12,800.0	9,427.5	9,368.9	9,368.9	32.3	189.3	92.96	-6,175.1	-1,060.3	2,550.0	2,348.7	201.35	12.665	
12,900.0	9,427.0	9,368.4	9,368.4	33.1	189.3	92.84	-6,175.1	-1,060.3	2,450.4	2,249.0	201.45	12.164	
13,000.0	9,426.6	9,368.0	9,368.0	33.9	189.3	92.73	-6,175.1	-1,060.3	2,350.9	2,149.3	201.56	11.663	
13,100.0	9,426.1	9,367.5	9,367.5	34.7	189.3	92.61	-6,175.1	-1,060.3	2,251.3	2,049.6	201.68	11.163	
13,200.0	9,425.7	9,367.1	9,367.1	35.6	189.3	92.50	-6,175.1	-1,060.3	2,151.8	1,950.0	201.80	10.663	
13,300.0	9,425.2	9,366.6	9,366.6	36.4	189.3	92.38	-6,175.1	-1,060.3	2,052.4	1,850.4	201.93	10.164	
13,400.0	9,424.8	9,366.2	9,366.2	37.2	189.3	92.26	-6,175.1	-1,060.3	1,953.0	1,750.9	202.07	9.665	
13,500.0	9,424.3	9,365.7	9,365.7	38.0	189.3	92.15	-6,175.1	-1,060.3	1,853.7	1,651.4	202.22	9.166	
13,600.0	9,423.9	9,365.3	9,365.3	38.8	189.2	92.03	-6,175.1	-1,060.3	1,754.4	1,552.0	202.39	8.669	
13,700.0	9,423.4	9,364.8	9,364.8	39.7	189.2	91.91	-6,175.1	-1,060.3	1,655.3	1,452.7	202.57	8.171	
13,800.0	9,423.0	9,364.4	9,364.4	40.5	189.2	91.80	-6,175.1	-1,060.3	1,556.2	1,353.4	202.77	7.675	
13,900.0	9,422.5	9,363.9	9,363.9	41.3	189.2	91.68	-6,175.1	-1,060.3	1,457.3	1,254.3	203.01	7.179	
14,000.0	9,422.1	9,363.5	9,363.5	42.1	189.2	91.56	-6,175.1	-1,060.3	1,358.5	1,155.3	203.27	6.683	
14,100.0	9,421.6	9,363.0	9,363.0	43.0	189.2	91.45	-6,175.1	-1,060.3	1,260.0	1,056.4	203.59	6.189	
14,200.0	9,421.2	9,362.6	9,362.6	43.8	189.2	91.33	-6,175.1	-1,060.3	1,161.7	957.7	203.97	5.695	
14,300.0	9,420.7	9,362.1	9,362.1	44.6	189.2	91.21	-6,175.1	-1,060.3	1,063.6	859.2	204.44	5.203	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design HONEY GRAHAM STATE PROJECT (ATLAS 2628) - GRAHAM NASH STATE COM #1H - OWB - AWP — **Offset Site Error:** 0.0 usft

Survey Program: 9400-INC-ONLY — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,400.0	9,420.3	9,361.7	9,361.7	45.5	189.2	91.10	-6,175.1	-1,060.3	966.0	761.0	205.03	4.712	
14,500.0	9,419.8	9,361.2	9,361.2	46.3	189.2	90.98	-6,175.1	-1,060.3	869.0	663.2	205.81	4.222	
14,600.0	9,419.4	9,360.8	9,360.8	47.1	189.2	90.86	-6,175.1	-1,060.3	772.7	565.9	206.84	3.736	
14,681.5	9,419.0	9,360.4	9,360.4	47.8	189.2	90.77	-6,175.1	-1,060.3	695.0	487.0	207.95	3.342	
14,700.0	9,418.9	9,360.3	9,360.3	48.0	189.1	90.73	-6,175.1	-1,060.3	677.5	469.2	208.25	3.253	
14,800.0	9,418.5	9,359.9	9,359.9	48.8	189.1	90.57	-6,175.1	-1,060.3	584.8	374.4	210.38	2.780	
14,900.0	9,418.0	9,359.4	9,359.4	49.6	189.1	90.43	-6,175.1	-1,060.3	496.7	283.0	213.70	2.324	
14,910.9	9,418.0	9,359.4	9,359.4	49.7	189.1	90.41	-6,175.1	-1,060.3	487.5	273.4	214.15	2.277	
15,000.0	9,417.5	9,358.9	9,358.9	50.5	189.1	90.32	-6,175.1	-1,060.3	415.3	196.7	218.68	1.899	Advise and Monitor
15,100.0	9,417.1	9,358.5	9,358.5	51.3	189.1	90.22	-6,175.1	-1,060.3	344.0	118.3	225.64	1.524	Advise and Monitor
15,200.0	9,416.6	9,358.0	9,358.0	52.1	189.1	90.12	-6,175.1	-1,060.3	290.0	55.9	234.13	1.239	Shut in Produces
15,267.5	9,416.3	9,357.7	9,357.7	52.7	189.1	90.05	-6,175.1	-1,060.3	269.0	29.7	239.30	1.124	Shut in Produces
15,300.0	9,416.1	9,357.5	9,357.5	53.0	189.1	90.02	-6,175.1	-1,060.3	264.3	23.2	241.08	1.096	Shut in Produces
15,326.4	9,416.0	9,357.4	9,357.4	53.2	189.1	90.00	-6,175.1	-1,060.3	263.1	21.0	242.03	1.087	Shut in Produces, CC, ES, SF
15,400.0	9,415.7	9,357.1	9,357.1	53.8	189.1	89.93	-6,175.1	-1,060.3	272.3	30.1	242.15	1.124	Shut in Produces
15,500.0	9,415.2	9,356.6	9,356.6	54.7	189.1	89.85	-6,175.1	-1,060.3	310.8	73.0	237.77	1.307	Shut in Produces
15,600.0	9,414.8	9,356.2	9,356.2	55.5	189.1	89.76	-6,175.1	-1,060.3	370.3	138.7	231.68	1.598	Advise and Monitor
15,654.5	9,414.5	9,355.9	9,355.9	56.0	189.1	89.72	-6,175.1	-1,060.3	408.5	180.0	228.52	1.788	Advise and Monitor
15,700.0	9,414.3	9,355.7	9,355.7	56.3	189.1	89.68	-6,175.1	-1,060.3	442.7	216.6	226.14	1.958	Advise and Monitor
15,800.0	9,413.9	9,355.3	9,355.3	57.2	189.0	89.59	-6,175.1	-1,060.3	524.0	302.2	221.81	2.362	
15,900.0	9,413.4	9,354.8	9,354.8	58.0	189.0	89.50	-6,175.1	-1,060.3	610.9	392.3	218.60	2.794	
16,000.0	9,413.0	9,354.4	9,354.4	58.9	189.0	89.40	-6,175.1	-1,060.3	701.2	485.0	216.22	3.243	
16,100.0	9,412.5	9,353.9	9,353.9	59.7	189.0	89.31	-6,175.1	-1,060.3	793.9	579.4	214.46	3.702	
16,200.0	9,412.0	9,353.4	9,353.4	60.5	189.0	89.22	-6,175.1	-1,060.3	888.2	675.0	213.13	4.167	
16,300.0	9,411.6	9,353.0	9,353.0	61.4	189.0	89.12	-6,175.1	-1,060.3	983.6	771.4	212.12	4.637	
16,379.5	9,411.2	9,352.6	9,352.6	62.1	189.0	89.05	-6,175.1	-1,060.3	1,060.0	848.5	211.49	5.012	
16,400.0	9,411.1	9,352.5	9,352.5	62.2	189.0	89.01	-6,175.1	-1,060.3	1,079.8	868.5	211.35	5.109	
16,500.0	9,410.7	9,352.1	9,352.1	63.1	189.0	88.74	-6,175.1	-1,060.3	1,177.2	966.4	210.83	5.584	
16,533.9	9,410.5	9,351.9	9,351.9	63.4	189.0	88.62	-6,175.1	-1,060.3	1,210.5	999.8	210.70	5.745	
16,600.0	9,410.2	9,351.6	9,351.6	63.9	189.0	88.54	-6,175.1	-1,060.3	1,275.6	1,065.1	210.48	6.060	
16,700.0	9,409.8	9,351.2	9,351.2	64.8	189.0	88.43	-6,175.1	-1,060.3	1,374.2	1,163.9	210.23	6.537	
16,800.0	9,409.4	9,350.8	9,350.8	65.6	189.0	88.31	-6,175.1	-1,060.3	1,473.0	1,262.9	210.03	7.013	
16,900.0	9,408.9	9,350.3	9,350.3	66.5	188.9	88.20	-6,175.1	-1,060.3	1,571.9	1,362.0	209.89	7.489	
17,000.0	9,408.5	9,349.9	9,349.9	67.3	188.9	88.08	-6,175.1	-1,060.3	1,671.0	1,461.2	209.78	7.965	
17,100.0	9,408.0	9,349.4	9,349.4	68.2	188.9	87.96	-6,175.1	-1,060.3	1,770.1	1,560.4	209.71	8.441	
17,200.0	9,407.6	9,349.0	9,349.0	69.0	188.9	87.85	-6,175.1	-1,060.3	1,869.4	1,659.7	209.67	8.916	
17,300.0	9,407.1	9,348.5	9,348.5	69.9	188.9	87.73	-6,175.1	-1,060.3	1,968.7	1,759.1	209.65	9.391	
17,400.0	9,406.7	9,348.1	9,348.1	70.7	188.9	87.62	-6,175.1	-1,060.3	2,068.1	1,858.5	209.65	9.865	
17,500.0	9,406.2	9,347.6	9,347.6	71.6	188.9	87.50	-6,175.1	-1,060.3	2,167.6	1,957.9	209.66	10.339	
17,600.0	9,405.8	9,347.2	9,347.2	72.4	188.9	87.39	-6,175.1	-1,060.3	2,267.1	2,057.4	209.69	10.812	
17,700.0	9,405.3	9,346.7	9,346.7	73.3	188.9	87.27	-6,175.1	-1,060.3	2,366.6	2,156.9	209.73	11.284	
17,800.0	9,404.9	9,346.3	9,346.3	74.1	188.9	87.15	-6,175.1	-1,060.3	2,466.2	2,256.4	209.78	11.756	
17,900.0	9,404.4	9,345.8	9,345.8	74.9	188.9	87.04	-6,175.1	-1,060.3	2,565.8	2,356.0	209.84	12.227	
18,000.0	9,404.0	9,345.4	9,345.4	75.8	188.8	86.92	-6,175.1	-1,060.3	2,665.5	2,455.6	209.91	12.698	
18,100.0	9,403.5	9,344.9	9,344.9	76.7	188.8	86.81	-6,175.1	-1,060.3	2,765.1	2,555.2	209.99	13.168	
18,200.0	9,403.1	9,344.5	9,344.5	77.5	188.8	86.69	-6,175.1	-1,060.3	2,864.8	2,654.8	210.07	13.638	
18,300.0	9,402.7	9,344.1	9,344.1	78.4	188.8	86.58	-6,175.1	-1,060.3	2,964.6	2,754.4	210.16	14.106	
18,400.0	9,402.2	9,343.6	9,343.6	79.2	188.8	86.46	-6,175.1	-1,060.3	3,064.3	2,854.0	210.25	14.575	
18,500.0	9,401.8	9,343.2	9,343.2	80.1	188.8	86.35	-6,175.1	-1,060.3	3,164.0	2,953.7	210.35	15.042	
18,600.0	9,401.3	9,342.7	9,342.7	80.9	188.8	86.23	-6,175.1	-1,060.3	3,263.8	3,053.3	210.45	15.509	
18,700.0	9,400.9	9,342.3	9,342.3	81.8	188.8	86.11	-6,175.1	-1,060.3	3,363.6	3,153.0	210.55	15.975	
18,800.0	9,400.4	9,341.8	9,341.8	82.6	188.8	86.00	-6,175.1	-1,060.3	3,463.4	3,252.7	210.66	16.441	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design HONEY GRAHAM STATE PROJECT (ATLAS 2628) - GRAHAM NASH STATE COM #1H - OWB - AWP — **Offset Site Error:** 0.0 usft

Survey Program: 9400-INC-ONLY — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,900.0	9,400.0	9,341.4	9,341.4	83.5	188.8	85.88	-6,175.1	-1,060.3	3,563.2	3,352.4	210.77	16.905	
19,000.0	9,399.5	9,340.9	9,340.9	84.3	188.8	85.77	-6,175.1	-1,060.3	3,663.0	3,452.1	210.89	17.370	
19,100.0	9,399.1	9,340.5	9,340.5	85.2	188.7	85.65	-6,175.1	-1,060.3	3,762.8	3,551.8	211.00	17.833	
19,200.0	9,398.6	9,340.0	9,340.0	86.0	188.7	85.54	-6,175.1	-1,060.3	3,862.6	3,651.5	211.12	18.296	
19,300.0	9,398.2	9,339.6	9,339.6	86.9	188.7	85.42	-6,175.1	-1,060.3	3,962.5	3,751.2	211.24	18.758	
19,400.0	9,397.7	9,339.1	9,339.1	87.7	188.7	85.31	-6,175.1	-1,060.3	4,062.3	3,851.0	211.37	19.219	
19,500.0	9,397.3	9,338.7	9,338.7	88.6	188.7	85.19	-6,175.1	-1,060.3	4,162.2	3,950.7	211.49	19.680	
19,600.0	9,396.9	9,338.3	9,338.3	89.4	188.7	85.08	-6,175.1	-1,060.3	4,262.0	4,050.4	211.62	20.140	
19,700.0	9,396.4	9,337.8	9,337.8	90.3	188.7	84.96	-6,175.1	-1,060.3	4,361.9	4,150.2	211.75	20.600	
19,800.0	9,396.0	9,337.4	9,337.4	91.1	188.7	84.85	-6,175.1	-1,060.3	4,461.8	4,249.9	211.88	21.058	
19,900.0	9,395.5	9,336.9	9,336.9	92.0	188.7	84.73	-6,175.1	-1,060.3	4,561.7	4,349.7	212.01	21.517	
19,971.4	9,395.2	9,336.6	9,336.6	92.6	188.7	84.65	-6,175.1	-1,060.3	4,633.0	4,420.9	212.10	21.843	
19,973.2	9,395.2	9,336.6	9,336.6	92.6	188.7	84.55	-6,175.1	-1,060.3	4,634.8	4,422.7	212.10	21.851	
20,000.0	9,395.1	9,336.5	9,336.5	92.8	188.7	84.52	-6,175.1	-1,060.3	4,661.5	4,449.4	212.14	21.974	
20,100.0	9,394.6	9,336.0	9,336.0	93.7	188.7	84.40	-6,175.1	-1,060.3	4,761.4	4,549.2	212.27	22.431	
20,200.0	9,394.2	9,335.6	9,335.6	94.5	188.6	84.29	-6,175.1	-1,060.3	4,861.3	4,648.9	212.41	22.887	
20,300.0	9,393.7	9,335.1	9,335.1	95.4	188.6	84.17	-6,175.1	-1,060.3	4,961.2	4,748.7	212.55	23.342	
20,400.0	9,393.3	9,334.7	9,334.7	96.3	188.6	84.05	-6,175.1	-1,060.3	5,061.1	4,848.5	212.68	23.797	
20,500.0	9,392.8	9,334.2	9,334.2	97.1	188.6	83.94	-6,175.1	-1,060.3	5,161.0	4,948.2	212.82	24.251	
20,600.0	9,392.4	9,333.8	9,333.8	98.0	188.6	83.82	-6,175.1	-1,060.3	5,261.0	5,048.0	212.96	24.704	
20,700.0	9,391.9	9,333.3	9,333.3	98.8	188.6	83.70	-6,175.1	-1,060.3	5,360.9	5,147.8	213.10	25.156	
20,800.0	9,391.5	9,332.9	9,332.9	99.7	188.6	83.59	-6,175.1	-1,060.3	5,460.8	5,247.5	213.24	25.608	
20,900.0	9,391.0	9,332.4	9,332.4	100.5	188.6	83.47	-6,175.1	-1,060.3	5,560.7	5,347.3	213.38	26.060	
21,000.0	9,390.6	9,332.0	9,332.0	101.4	188.6	83.35	-6,175.1	-1,060.3	5,660.6	5,447.1	213.53	26.510	
21,100.0	9,390.1	9,331.5	9,331.5	102.2	188.6	83.24	-6,175.1	-1,060.3	5,760.6	5,546.9	213.67	26.960	
21,200.0	9,389.7	9,331.1	9,331.1	103.1	188.6	83.12	-6,175.1	-1,060.3	5,860.5	5,646.7	213.82	27.409	
21,300.0	9,389.2	9,330.6	9,330.6	103.9	188.5	83.00	-6,175.1	-1,060.3	5,960.4	5,746.5	213.96	27.858	
21,400.0	9,388.8	9,330.2	9,330.2	104.8	188.5	82.89	-6,175.1	-1,060.3	6,060.4	5,846.3	214.11	28.305	
21,500.0	9,388.3	9,329.7	9,329.7	105.6	188.5	82.77	-6,175.1	-1,060.3	6,160.3	5,946.0	214.25	28.753	
21,600.0	9,387.9	9,329.3	9,329.3	106.5	188.5	82.65	-6,175.1	-1,060.3	6,260.2	6,045.8	214.40	29.199	
21,700.0	9,387.5	9,328.9	9,328.9	107.4	188.5	82.54	-6,175.1	-1,060.3	6,360.2	6,145.6	214.55	29.645	
21,800.0	9,387.0	9,328.4	9,328.4	108.2	188.5	82.42	-6,175.1	-1,060.3	6,460.1	6,245.4	214.69	30.090	
21,900.0	9,386.6	9,328.0	9,328.0	109.1	188.5	82.31	-6,175.1	-1,060.3	6,560.1	6,345.2	214.84	30.534	
22,000.0	9,386.1	9,327.5	9,327.5	109.9	188.5	82.19	-6,175.1	-1,060.3	6,660.0	6,445.0	214.99	30.978	
22,023.7	9,386.0	9,327.4	9,327.4	110.1	188.5	82.16	-6,175.1	-1,060.3	6,683.7	6,468.7	215.02	31.084	
22,024.2	9,386.0	9,327.4	9,327.4	110.1	188.5	82.16	-6,175.1	-1,060.3	6,684.2	6,461.1	223.07	29.964	

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design MYOX 4 28 & 16 ST COM PROJECT - *MYOX 4 16 ST COM #705H - OWB - PWP0 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8802-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	22,718.6	9,375.0	4.2	117.0	-90.33	-0.3	-49.9	9,425.7				
100.0	100.0	22,718.6	9,375.0	4.2	117.0	-90.33	-0.3	-49.9	9,325.7	9,218.6	107.14	87.043	
200.0	200.0	22,718.6	9,375.0	4.2	117.0	-90.33	-0.3	-49.9	9,225.7	9,118.5	107.25	86.020	
300.0	300.0	22,718.6	9,375.0	4.3	117.0	-90.33	-0.3	-49.9	9,125.7	9,018.4	107.36	84.999	
400.0	400.0	22,718.6	9,375.0	4.3	117.0	-90.33	-0.3	-49.9	9,025.7	8,918.3	107.47	83.980	
500.0	500.0	22,718.6	9,375.0	4.3	117.0	-90.33	-0.3	-49.9	8,925.7	8,818.2	107.59	82.963	
600.0	600.0	22,718.6	9,375.0	4.3	117.0	-90.33	-0.3	-49.9	8,825.7	8,718.0	107.70	81.947	
700.0	700.0	22,718.6	9,375.0	4.3	117.0	-90.33	-0.3	-49.9	8,725.7	8,617.9	107.81	80.934	
800.0	800.0	22,718.6	9,375.0	4.4	117.0	-90.33	-0.3	-49.9	8,625.7	8,517.8	107.93	79.922	
900.0	900.0	22,718.6	9,375.0	4.4	117.0	-90.33	-0.3	-49.9	8,525.7	8,417.7	108.04	78.912	
1,000.0	1,000.0	22,718.6	9,375.0	4.4	117.0	-90.33	-0.3	-49.9	8,425.7	8,317.6	108.16	77.904	
1,100.0	1,100.0	22,718.6	9,375.0	4.5	117.0	-90.33	-0.3	-49.9	8,325.7	8,217.5	108.27	76.897	
1,200.0	1,200.0	22,718.6	9,375.0	4.5	117.0	-90.33	-0.3	-49.9	8,225.8	8,117.4	108.39	75.892	
1,300.0	1,300.0	22,718.6	9,375.0	4.5	117.0	-90.33	-0.3	-49.9	8,125.8	8,017.2	108.50	74.889	
1,400.0	1,400.0	22,718.6	9,375.0	4.6	117.0	-90.33	-0.3	-49.9	8,025.8	7,917.1	108.62	73.887	
1,500.0	1,500.0	22,718.6	9,375.0	4.6	117.0	-90.33	-0.3	-49.9	7,925.8	7,817.0	108.74	72.887	
1,600.0	1,600.0	22,718.6	9,375.0	4.7	117.0	-90.33	-0.3	-49.9	7,825.8	7,716.9	108.86	71.889	
1,700.0	1,700.0	22,718.6	9,375.0	4.8	117.0	-90.33	-0.3	-49.9	7,725.8	7,616.8	108.98	70.892	
1,800.0	1,800.0	22,718.6	9,375.0	4.8	117.0	-90.33	-0.3	-49.9	7,625.8	7,516.7	109.10	69.896	
1,900.0	1,900.0	22,718.6	9,375.0	4.9	117.0	-90.33	-0.3	-49.9	7,525.8	7,416.5	109.22	68.903	
2,000.0	2,000.0	22,718.6	9,375.0	5.0	117.0	-90.33	-0.3	-49.9	7,425.8	7,316.4	109.35	67.910	
2,100.0	2,100.0	22,718.6	9,375.0	5.0	117.0	-90.33	-0.3	-49.9	7,325.8	7,216.3	109.47	66.919	
2,200.0	2,200.0	22,718.6	9,375.0	5.1	117.0	-90.33	-0.3	-49.9	7,225.8	7,116.2	109.60	65.930	
2,300.0	2,300.0	22,718.6	9,375.0	5.2	117.0	-90.33	-0.3	-49.9	7,125.8	7,016.1	109.72	64.942	
2,400.0	2,400.0	22,718.6	9,375.0	5.2	117.0	-90.33	-0.3	-49.9	7,025.8	6,915.9	109.85	63.956	
2,500.0	2,500.0	22,718.6	9,375.0	5.3	117.0	-90.33	-0.3	-49.9	6,925.8	6,815.8	109.98	62.971	
2,600.0	2,600.0	22,718.9	9,375.0	5.4	117.0	177.45	-0.6	-49.9	6,825.8	6,715.7	110.12	61.987	
2,700.0	2,699.8	22,719.8	9,375.0	5.4	117.0	178.98	-1.5	-49.9	6,725.9	6,615.6	110.26	61.002	
2,750.4	2,750.1	22,720.5	9,375.0	5.4	117.0	179.27	-2.2	-49.9	6,675.6	6,565.3	110.33	60.506	
2,800.0	2,799.5	22,721.3	9,375.0	5.4	117.0	179.35	-3.0	-49.9	6,626.2	6,515.8	110.40	60.019	
2,900.0	2,899.1	22,722.8	9,375.0	5.4	117.0	179.51	-4.5	-49.9	6,526.5	6,416.0	110.55	59.038	
3,000.0	2,998.7	22,724.4	9,375.0	5.4	117.0	179.67	-6.1	-49.9	6,426.9	6,316.2	110.70	58.058	
3,100.0	3,098.3	22,725.9	9,375.0	5.5	117.0	179.83	-7.6	-49.9	6,327.3	6,216.4	110.85	57.080	
3,200.0	3,198.0	22,727.4	9,375.0	5.5	117.0	179.99	-9.1	-49.9	6,227.6	6,116.6	111.00	56.104	
3,300.0	3,297.6	22,729.0	9,375.0	5.5	117.0	-179.85	-10.7	-49.9	6,128.0	6,016.9	111.16	55.130	
3,400.0	3,397.2	22,730.5	9,375.0	5.6	117.1	-179.69	-12.2	-49.9	6,028.4	5,917.1	111.31	54.158	
3,500.0	3,496.8	22,732.1	9,375.0	5.6	117.1	-179.53	-13.8	-49.9	5,928.8	5,817.4	111.47	53.188	
3,600.0	3,596.4	22,733.6	9,375.0	5.7	117.1	-179.37	-15.3	-49.8	5,829.3	5,717.6	111.63	52.220	
3,700.0	3,696.1	22,735.1	9,375.0	5.7	117.1	-179.21	-16.8	-49.8	5,729.7	5,617.9	111.79	51.253	
3,800.0	3,795.7	22,736.7	9,375.0	5.8	117.1	-179.05	-18.4	-49.8	5,630.2	5,518.2	111.96	50.289	
3,900.0	3,895.3	22,738.2	9,375.0	5.8	117.1	-178.89	-19.8	-49.8	5,530.6	5,418.5	112.12	49.328	
4,000.0	3,994.9	22,738.2	9,375.0	5.9	117.1	-178.89	-19.8	-49.8	5,431.1	5,318.8	112.28	48.373	
4,100.0	4,094.5	22,738.2	9,375.0	5.9	117.1	-178.89	-19.8	-49.8	5,331.6	5,219.2	112.43	47.420	
4,200.0	4,194.1	22,738.2	9,375.0	6.0	117.1	-178.89	-19.8	-49.8	5,232.2	5,119.6	112.59	46.470	
4,300.0	4,293.8	22,738.2	9,375.0	6.0	117.1	-178.89	-19.8	-49.8	5,132.7	5,019.9	112.75	45.521	
4,400.0	4,393.4	22,738.2	9,375.0	6.1	117.1	-178.89	-19.8	-49.8	5,033.3	4,920.4	112.92	44.575	
4,500.0	4,493.0	22,738.2	9,375.0	6.2	117.1	-178.89	-19.8	-49.8	4,933.9	4,820.8	113.08	43.630	
4,600.0	4,592.6	22,738.2	9,375.0	6.2	117.1	-178.89	-19.8	-49.8	4,834.5	4,721.2	113.25	42.688	
4,700.0	4,692.2	22,738.2	9,375.0	6.3	117.1	-178.89	-19.8	-49.8	4,735.1	4,621.7	113.42	41.748	
4,800.0	4,791.9	22,738.2	9,375.0	6.4	117.1	-178.89	-19.8	-49.8	4,635.8	4,522.2	113.59	40.810	
4,900.0	4,891.5	22,738.2	9,375.0	6.5	117.1	-178.89	-19.8	-49.8	4,536.5	4,422.7	113.77	39.875	
5,000.0	4,991.1	22,738.2	9,375.0	6.5	117.1	-178.89	-19.8	-49.8	4,437.2	4,323.3	113.95	38.942	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design MYOX 4 28 & 16 ST COM PROJECT - *MYOX 4 16 ST COM #705H - OWB - PWP0 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8802-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,090.7	22,738.2	9,375.0	6.6	117.1	-178.89	-19.8	-49.8	4,338.0	4,223.9	114.13	38.011	
5,200.0	5,190.3	22,738.2	9,375.0	6.7	117.1	-178.89	-19.8	-49.8	4,238.8	4,124.5	114.31	37.082	
5,300.0	5,289.9	22,738.2	9,375.0	6.8	117.1	-178.89	-19.8	-49.8	4,139.6	4,025.1	114.49	36.157	
5,400.0	5,389.6	22,738.2	9,375.0	6.9	117.1	-178.89	-19.8	-49.8	4,040.5	3,925.8	114.68	35.234	
5,500.0	5,489.2	22,738.2	9,375.0	6.9	117.1	-178.89	-19.8	-49.8	3,941.4	3,826.6	114.87	34.313	
5,600.0	5,588.8	22,738.2	9,375.0	7.0	117.1	-178.89	-19.8	-49.8	3,842.4	3,727.3	115.06	33.395	
5,700.0	5,688.4	22,738.2	9,375.0	7.1	117.1	-178.89	-19.8	-49.8	3,743.4	3,628.2	115.25	32.480	
5,800.0	5,788.0	22,738.2	9,375.0	7.2	117.1	-178.89	-19.8	-49.8	3,644.5	3,529.1	115.45	31.568	
5,900.0	5,887.7	22,738.2	9,375.0	7.3	117.1	-178.89	-19.8	-49.8	3,545.6	3,430.0	115.65	30.659	
6,000.0	5,987.3	22,738.2	9,375.0	7.4	117.1	-178.89	-19.8	-49.8	3,446.8	3,331.0	115.85	29.752	
6,100.0	6,086.9	22,738.2	9,375.0	7.5	117.1	-178.89	-19.8	-49.8	3,348.1	3,232.1	116.06	28.849	
6,200.0	6,186.5	22,738.2	9,375.0	7.6	117.1	-178.89	-19.8	-49.8	3,249.5	3,133.2	116.26	27.949	
6,300.0	6,286.1	22,738.2	9,375.0	7.7	117.1	-178.89	-19.8	-49.8	3,150.9	3,034.5	116.47	27.053	
6,400.0	6,385.7	22,738.2	9,375.0	7.8	117.1	-178.89	-19.8	-49.8	3,052.5	2,935.8	116.69	26.159	
6,500.0	6,485.4	22,738.2	9,375.0	7.8	117.1	-178.89	-19.8	-49.8	2,954.1	2,837.2	116.90	25.270	
6,600.0	6,585.0	22,738.2	9,375.0	7.9	117.1	-178.89	-19.8	-49.8	2,855.8	2,738.7	117.12	24.384	
6,700.0	6,684.6	22,738.2	9,375.0	8.0	117.1	-178.89	-19.8	-49.8	2,757.7	2,640.4	117.34	23.501	
6,800.0	6,784.2	22,738.2	9,375.0	8.1	117.1	-178.89	-19.8	-49.8	2,659.7	2,542.2	117.57	22.623	
6,900.0	6,883.8	22,738.2	9,375.0	8.2	117.1	-178.89	-19.8	-49.8	2,561.9	2,444.1	117.80	21.749	
7,000.0	6,983.5	22,738.2	9,375.0	8.3	117.1	-178.89	-19.8	-49.8	2,464.3	2,346.2	118.03	20.878	
7,100.0	7,083.1	22,738.2	9,375.0	8.4	117.1	-178.89	-19.8	-49.8	2,366.8	2,248.5	118.26	20.013	
7,200.0	7,182.7	22,738.2	9,375.0	8.6	117.1	-178.89	-19.8	-49.8	2,269.6	2,151.1	118.50	19.152	
7,300.0	7,282.3	22,738.2	9,375.0	8.7	117.1	-178.89	-19.8	-49.8	2,172.6	2,053.8	118.75	18.296	
7,400.0	7,381.9	22,738.2	9,375.0	8.8	117.1	-178.89	-19.8	-49.8	2,075.9	1,956.9	118.99	17.445	
7,500.0	7,481.5	22,738.2	9,375.0	8.9	117.1	-178.89	-19.8	-49.8	1,979.5	1,860.3	119.25	16.600	
7,600.0	7,581.2	22,738.2	9,375.0	9.0	117.1	-178.89	-19.8	-49.8	1,883.5	1,764.0	119.50	15.761	
7,700.0	7,680.8	22,738.2	9,375.0	9.1	117.1	-178.89	-19.8	-49.8	1,788.0	1,668.2	119.77	14.929	
7,800.0	7,780.4	22,738.2	9,375.0	9.2	117.1	-178.89	-19.8	-49.8	1,693.0	1,572.9	120.04	14.104	
7,900.0	7,880.0	22,738.2	9,375.0	9.3	117.1	-178.89	-19.8	-49.8	1,598.5	1,478.2	120.31	13.287	
8,000.0	7,979.6	22,738.2	9,375.0	9.4	117.1	-178.89	-19.8	-49.8	1,504.8	1,384.2	120.59	12.478	
8,100.0	8,079.3	22,738.2	9,375.0	9.5	117.1	-178.89	-19.8	-49.8	1,412.0	1,291.1	120.89	11.680	
8,200.0	8,178.9	22,738.2	9,375.0	9.6	117.1	-178.89	-19.8	-49.8	1,320.2	1,199.0	121.19	10.893	
8,300.0	8,278.5	22,738.2	9,375.0	9.7	117.1	-178.89	-19.8	-49.8	1,229.6	1,108.1	121.51	10.120	
8,400.0	8,378.1	22,738.2	9,375.0	9.8	117.1	-178.89	-19.8	-49.8	1,140.7	1,018.9	121.84	9.363	
8,500.0	8,477.7	22,738.2	9,375.0	9.9	117.1	-178.89	-19.8	-49.8	1,053.8	931.6	122.19	8.624	
8,600.0	8,577.3	22,738.2	9,375.0	10.1	117.1	-178.89	-19.8	-49.8	969.3	846.8	122.56	7.909	
8,700.0	8,677.0	22,738.2	9,375.0	10.2	117.1	-178.89	-19.8	-49.8	888.1	765.2	122.95	7.223	
8,800.0	8,776.6	22,738.2	9,375.0	10.3	117.1	-178.89	-19.8	-49.8	811.2	687.8	123.37	6.575	
8,900.0	8,876.2	22,738.2	9,375.0	10.4	117.1	-178.89	-19.8	-49.8	739.7	615.9	123.80	5.975	
8,916.0	8,892.1	22,738.2	9,375.0	10.4	117.1	-178.89	-19.8	-49.8	728.9	605.0	123.87	5.884	
8,950.0	8,926.0	22,738.2	9,375.0	10.5	117.1	-156.51	-19.8	-49.8	706.9	583.1	123.81	5.710	
9,000.0	8,975.3	22,738.2	9,375.0	10.5	117.1	-144.06	-19.8	-49.8	677.8	554.0	123.86	5.473	
9,050.0	9,023.8	22,738.2	9,375.0	10.5	117.1	-139.66	-19.8	-49.8	653.3	529.5	123.74	5.280	
9,100.0	9,071.2	22,738.2	9,375.0	10.5	117.1	-137.72	-19.8	-49.8	634.0	510.6	123.41	5.137	
9,150.0	9,117.0	22,738.2	9,375.0	10.5	117.1	-136.59	-19.8	-49.8	620.5	497.7	122.81	5.053	
9,200.0	9,160.9	22,738.2	9,375.0	10.5	117.1	-135.64	-19.8	-49.8	613.4	491.5	121.91	5.032	SF
9,228.3	9,184.8	22,738.2	9,375.0	10.5	117.1	-135.07	-19.8	-49.8	612.4	491.1	121.26	5.050	CC, ES
9,250.0	9,202.6	22,738.2	9,375.0	10.6	117.1	-134.59	-19.8	-49.8	613.0	492.3	120.69	5.079	
9,300.0	9,241.8	22,738.2	9,375.0	10.6	117.1	-133.29	-19.8	-49.8	619.2	500.0	119.18	5.196	
9,350.0	9,278.2	22,738.2	9,375.0	10.7	117.1	-131.63	-19.8	-49.8	631.8	514.4	117.41	5.382	
9,400.0	9,311.5	22,738.2	9,375.0	10.7	117.1	-129.50	-19.8	-49.8	650.4	535.0	115.43	5.635	
9,450.0	9,341.3	22,738.2	9,375.0	10.8	117.1	-126.84	-19.8	-49.8	674.3	561.0	113.31	5.951	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design MYOX 4 28 & 16 ST COM PROJECT - *MYOX 4 16 ST COM #705H - OWB - PWP0 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8802-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,500.0	9,367.6	22,738.2	9,375.0	10.9	117.1	-123.54	-19.8	-49.8	702.9	591.8	111.10	6.326	
9,550.0	9,390.2	22,738.2	9,375.0	11.0	117.1	-119.51	-19.8	-49.8	735.2	626.4	108.85	6.755	
9,600.0	9,408.7	22,738.2	9,375.0	11.2	117.1	-114.66	-19.8	-49.8	770.8	664.2	106.58	7.232	
9,650.0	9,423.2	22,738.2	9,375.0	11.3	117.1	-108.93	-19.8	-49.8	808.8	704.5	104.32	7.753	
9,700.0	9,433.4	22,738.2	9,375.0	11.5	117.1	-102.34	-19.8	-49.8	848.7	746.6	102.10	8.313	
9,750.0	9,439.4	22,738.2	9,375.0	11.7	117.1	-95.01	-19.8	-49.8	890.0	790.1	99.92	8.907	
9,796.2	9,441.0	22,738.2	9,375.0	11.8	117.1	-87.79	-19.8	-49.8	928.9	830.9	97.97	9.481	
9,800.0	9,441.0	22,738.2	9,375.0	11.8	117.1	-87.80	-19.8	-49.8	932.1	834.3	97.82	9.529	
9,900.0	9,440.5	22,738.2	9,375.0	12.2	117.1	-87.93	-19.8	-49.8	1,017.5	923.7	93.82	10.845	
10,000.0	9,440.1	22,738.2	9,375.0	12.7	117.1	-88.05	-19.8	-49.8	1,103.6	1,013.5	90.10	12.250	
10,100.0	9,439.6	22,738.2	9,375.0	13.2	117.1	-88.18	-19.8	-49.8	1,190.3	1,103.7	86.61	13.744	
10,200.0	9,439.2	22,738.2	9,375.0	13.7	117.1	-88.30	-19.8	-49.8	1,277.4	1,194.0	83.33	15.329	
10,300.0	9,438.7	22,738.2	9,375.0	14.3	117.1	-88.41	-19.8	-49.8	1,364.6	1,284.3	80.23	17.007	
10,400.0	9,438.3	22,738.2	9,375.0	14.8	117.1	-88.51	-19.8	-49.8	1,451.8	1,374.5	77.30	18.783	
10,500.0	9,437.8	22,738.2	9,375.0	15.4	117.1	-88.61	-19.8	-49.8	1,539.0	1,464.5	74.50	20.659	
10,606.4	9,437.3	22,738.2	9,375.0	16.0	117.1	-88.71	-19.8	-49.8	1,631.6	1,559.9	71.66	22.769	
10,700.0	9,436.9	22,738.2	9,375.0	16.6	117.1	-88.71	-19.8	-49.8	1,713.6	1,644.3	69.34	24.714	
10,800.0	9,436.4	22,738.2	9,375.0	17.3	117.1	-88.71	-19.8	-49.8	1,802.5	1,735.4	67.10	26.860	
10,900.0	9,436.0	22,738.2	9,375.0	17.9	117.1	-88.71	-19.8	-49.8	1,892.4	1,827.3	65.10	29.071	
11,000.0	9,435.5	22,738.2	9,375.0	18.6	117.1	-88.71	-19.8	-49.8	1,983.3	1,920.1	63.29	31.338	
11,100.0	9,435.1	22,738.2	9,375.0	19.3	117.1	-88.71	-19.8	-49.8	2,075.1	2,013.4	61.66	33.654	
11,200.0	9,434.6	22,738.2	9,375.0	20.0	117.1	-88.71	-19.8	-49.8	2,167.6	2,107.4	60.19	36.012	
11,300.0	9,434.2	22,738.2	9,375.0	20.7	117.1	-88.71	-19.8	-49.8	2,260.7	2,201.9	58.86	38.406	
11,400.0	9,433.8	22,738.2	9,375.0	21.4	117.1	-88.71	-19.8	-49.8	2,354.4	2,296.8	57.66	40.830	
11,500.0	9,433.3	22,738.2	9,375.0	22.2	117.1	-88.71	-19.8	-49.8	2,448.6	2,392.0	56.58	43.279	
11,600.0	9,432.9	22,738.2	9,375.0	22.9	117.1	-88.71	-19.8	-49.8	2,543.2	2,487.6	55.59	45.747	
11,700.0	9,432.4	22,738.2	9,375.0	23.7	117.1	-88.71	-19.8	-49.8	2,638.3	2,583.6	54.70	48.230	
11,800.0	9,432.0	22,738.2	9,375.0	24.4	117.1	-88.71	-19.8	-49.8	2,733.7	2,679.8	53.89	50.725	
11,900.0	9,431.5	22,738.2	9,375.0	25.2	117.1	-88.71	-19.8	-49.8	2,829.4	2,776.2	53.16	53.226	
12,000.0	9,431.1	22,738.2	9,375.0	26.0	117.1	-88.71	-19.8	-49.8	2,925.4	2,872.9	52.49	55.732	
12,100.0	9,430.6	22,738.2	9,375.0	26.7	117.1	-88.71	-19.8	-49.8	3,021.6	2,969.7	51.88	58.239	
12,200.0	9,430.2	22,738.2	9,375.0	27.5	117.1	-88.71	-19.8	-49.8	3,118.1	3,066.8	51.33	60.743	
12,300.0	9,429.7	22,738.2	9,375.0	28.3	117.1	-88.71	-19.8	-49.8	3,214.8	3,164.0	50.83	63.244	
12,400.0	9,429.3	22,738.2	9,375.0	29.1	117.1	-88.71	-19.8	-49.8	3,311.7	3,261.3	50.38	65.739	
12,500.0	9,428.8	22,738.2	9,375.0	29.9	117.1	-88.71	-19.8	-49.8	3,408.8	3,358.8	49.96	68.225	
12,600.0	9,428.4	22,738.2	9,375.0	30.7	117.1	-88.71	-19.8	-49.8	3,506.0	3,456.4	49.59	70.701	
12,700.0	9,427.9	22,738.2	9,375.0	31.5	117.1	-88.71	-19.8	-49.8	3,603.4	3,554.2	49.25	73.166	
12,800.0	9,427.5	22,738.2	9,375.0	32.3	117.1	-88.71	-19.8	-49.8	3,700.9	3,652.0	48.94	75.618	
12,900.0	9,427.0	22,738.2	9,375.0	33.1	117.1	-88.71	-19.8	-49.8	3,798.6	3,749.9	48.66	78.057	
13,000.0	9,426.6	22,738.2	9,375.0	33.9	117.1	-88.71	-19.8	-49.8	3,896.4	3,848.0	48.41	80.481	
13,100.0	9,426.1	22,738.2	9,375.0	34.7	117.1	-88.71	-19.8	-49.8	3,994.3	3,946.1	48.19	82.890	
13,200.0	9,425.7	22,738.2	9,375.0	35.6	117.1	-88.71	-19.8	-49.8	4,092.3	4,044.3	47.99	85.282	
13,300.0	9,425.2	22,738.2	9,375.0	36.4	117.1	-88.71	-19.8	-49.8	4,190.3	4,142.5	47.80	87.657	
13,400.0	9,424.8	22,738.2	9,375.0	37.2	117.1	-88.71	-19.8	-49.8	4,288.5	4,240.9	47.64	90.015	
13,500.0	9,424.3	22,738.2	9,375.0	38.0	117.1	-88.71	-19.8	-49.8	4,386.8	4,339.3	47.50	92.355	
13,600.0	9,423.9	22,738.2	9,375.0	38.8	117.1	-88.71	-19.8	-49.8	4,485.1	4,437.7	47.37	94.676	
13,700.0	9,423.4	22,738.2	9,375.0	39.7	117.1	-88.71	-19.8	-49.8	4,583.5	4,536.2	47.26	96.980	
13,800.0	9,423.0	22,738.2	9,375.0	40.5	117.1	-88.71	-19.8	-49.8	4,682.0	4,634.8	47.17	99.264	
13,900.0	9,422.5	22,738.2	9,375.0	41.3	117.1	-88.71	-19.8	-49.8	4,780.5	4,733.4	47.09	101.529	
14,000.0	9,422.1	22,738.2	9,375.0	42.1	117.1	-88.71	-19.8	-49.8	4,879.1	4,832.1	47.02	103.776	
14,100.0	9,421.6	22,738.2	9,375.0	43.0	117.1	-88.71	-19.8	-49.8	4,977.8	4,930.8	46.96	106.003	
14,200.0	9,421.2	22,738.2	9,375.0	43.8	117.1	-88.71	-19.8	-49.8	5,076.5	5,029.6	46.91	108.211	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design MYOX 4 28 & 16 ST COM PROJECT - *MYOX 4 16 ST COM #705H - OWB - PWP0 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8802-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.0	9,420.7	22,738.2	9,375.0	44.6	117.1	-88.71	-19.8	-49.8	5,175.2	5,128.3	46.88	110.400	
14,400.0	9,420.3	22,738.2	9,375.0	45.5	117.1	-88.71	-19.8	-49.8	5,274.0	5,227.2	46.85	112.570	
14,500.0	9,419.8	22,738.2	9,375.0	46.3	117.1	-88.71	-19.8	-49.8	5,372.9	5,326.0	46.83	114.720	
14,600.0	9,419.4	22,738.2	9,375.0	47.1	117.1	-88.71	-19.8	-49.8	5,471.8	5,424.9	46.83	116.852	
14,681.5	9,419.0	22,738.2	9,375.0	47.8	117.1	-88.71	-19.8	-49.8	5,552.4	5,505.5	46.83	118.574	
14,700.0	9,418.9	22,738.2	9,375.0	48.0	117.1	-88.77	-19.8	-49.8	5,570.7	5,523.9	46.83	118.966	
14,800.0	9,418.5	22,738.2	9,375.0	48.8	117.1	-88.99	-19.8	-49.8	5,669.3	5,622.5	46.81	121.106	
14,900.0	9,418.0	22,738.2	9,375.0	49.6	117.1	-89.14	-19.8	-49.8	5,767.3	5,720.5	46.78	123.291	
14,910.9	9,418.0	22,738.2	9,375.0	49.7	117.1	-89.15	-19.8	-49.8	5,777.9	5,731.1	46.77	123.533	
15,000.0	9,417.5	22,738.2	9,375.0	50.5	117.1	-89.15	-19.8	-49.8	5,864.9	5,818.2	46.74	125.485	
15,100.0	9,417.1	22,738.2	9,375.0	51.3	117.1	-89.15	-19.8	-49.8	5,962.7	5,916.0	46.71	127.652	
15,200.0	9,416.6	22,738.2	9,375.0	52.1	117.1	-89.15	-19.8	-49.8	6,060.5	6,013.8	46.69	129.794	
15,267.5	9,416.3	22,738.2	9,375.0	52.7	117.1	-89.15	-19.8	-49.8	6,126.5	6,079.8	46.69	131.226	
15,300.0	9,416.1	22,738.2	9,375.0	53.0	117.1	-89.10	-19.8	-49.8	6,158.4	6,111.7	46.69	131.909	
15,400.0	9,415.7	22,738.2	9,375.0	53.8	117.1	-88.90	-19.8	-49.8	6,256.9	6,210.2	46.71	133.957	
15,500.0	9,415.2	22,738.2	9,375.0	54.7	117.1	-88.59	-19.8	-49.8	6,355.9	6,309.2	46.76	135.929	
15,600.0	9,414.8	22,738.2	9,375.0	55.5	117.1	-88.00	-19.8	-49.8	6,455.4	6,408.6	46.84	137.829	
15,654.5	9,414.5	22,738.2	9,375.0	56.0	117.1	-87.41	-19.8	-49.8	6,509.8	6,462.9	46.89	138.833	
15,700.0	9,414.3	22,738.2	9,375.0	56.3	117.1	-87.41	-19.8	-49.8	6,555.2	6,508.2	46.94	139.662	
15,800.0	9,413.9	22,738.2	9,375.0	57.2	117.1	-87.41	-19.8	-49.8	6,655.0	6,608.0	47.04	141.475	
15,900.0	9,413.4	22,738.2	9,375.0	58.0	117.1	-87.41	-19.8	-49.8	6,754.8	6,707.7	47.15	143.274	
16,000.0	9,413.0	22,738.2	9,375.0	58.9	117.1	-87.41	-19.8	-49.8	6,854.6	6,807.4	47.25	145.058	
16,100.0	9,412.5	22,738.2	9,375.0	59.7	117.1	-87.41	-19.8	-49.8	6,954.5	6,907.1	47.36	146.828	
16,200.0	9,412.0	22,738.2	9,375.0	60.5	117.1	-87.41	-19.8	-49.8	7,054.3	7,006.8	47.48	148.584	
16,300.0	9,411.6	22,738.2	9,375.0	61.4	117.1	-87.41	-19.8	-49.8	7,154.1	7,106.5	47.59	150.326	
16,379.5	9,411.2	22,738.2	9,375.0	62.1	117.1	-87.41	-19.8	-49.8	7,233.5	7,185.8	47.68	151.702	
16,400.0	9,411.1	22,738.2	9,375.0	62.2	117.1	-87.71	-19.8	-49.8	7,254.0	7,206.3	47.71	152.056	
16,500.0	9,410.7	22,738.2	9,375.0	63.1	117.1	-88.56	-19.8	-49.8	7,353.6	7,305.8	47.81	153.809	
16,533.9	9,410.5	22,738.2	9,375.0	63.4	117.1	-88.73	-19.8	-49.8	7,387.4	7,339.5	47.84	154.413	
16,600.0	9,410.2	22,738.2	9,375.0	63.9	117.1	-88.73	-19.8	-49.8	7,453.1	7,405.2	47.90	155.587	
16,700.0	9,409.8	22,738.2	9,375.0	64.8	117.1	-88.73	-19.8	-49.8	7,552.5	7,504.5	48.00	157.350	
16,800.0	9,409.4	22,738.2	9,375.0	65.6	117.1	-88.73	-19.8	-49.8	7,651.9	7,603.8	48.10	159.097	
16,900.0	9,408.9	22,738.2	9,375.0	66.5	117.1	-88.73	-19.8	-49.8	7,751.4	7,703.2	48.20	160.829	
17,000.0	9,408.5	22,738.2	9,375.0	67.3	117.1	-88.73	-19.8	-49.8	7,850.9	7,802.6	48.30	162.546	
17,100.0	9,408.0	22,738.2	9,375.0	68.2	117.1	-88.73	-19.8	-49.8	7,950.4	7,902.0	48.40	164.248	
17,200.0	9,407.6	22,738.2	9,375.0	69.0	117.1	-88.73	-19.8	-49.8	8,049.9	8,001.4	48.51	165.935	
17,300.0	9,407.1	22,738.2	9,375.0	69.9	117.1	-88.73	-19.8	-49.8	8,149.4	8,100.8	48.62	167.608	
17,400.0	9,406.7	22,738.2	9,375.0	70.7	117.1	-88.73	-19.8	-49.8	8,248.9	8,200.2	48.73	169.266	
17,500.0	9,406.2	22,738.2	9,375.0	71.6	117.1	-88.73	-19.8	-49.8	8,348.4	8,299.6	48.85	170.910	
17,600.0	9,405.8	22,738.2	9,375.0	72.4	117.1	-88.73	-19.8	-49.8	8,448.0	8,399.0	48.96	172.540	
17,700.0	9,405.3	22,738.2	9,375.0	73.3	117.1	-88.73	-19.8	-49.8	8,547.5	8,498.5	49.08	174.156	
17,800.0	9,404.9	22,738.2	9,375.0	74.1	117.1	-88.73	-19.8	-49.8	8,647.1	8,597.9	49.20	175.758	
17,900.0	9,404.4	22,738.2	9,375.0	74.9	117.1	-88.73	-19.8	-49.8	8,746.7	8,697.4	49.32	177.347	
18,000.0	9,404.0	22,738.2	9,375.0	75.8	117.1	-88.73	-19.8	-49.8	8,846.3	8,796.8	49.44	178.923	
18,100.0	9,403.5	22,738.2	9,375.0	76.7	117.1	-88.73	-19.8	-49.8	8,945.9	8,896.3	49.57	180.485	
18,200.0	9,403.1	22,738.2	9,375.0	77.5	117.1	-88.73	-19.8	-49.8	9,045.5	8,995.8	49.69	182.034	
18,300.0	9,402.7	22,738.2	9,375.0	78.4	117.1	-88.73	-19.8	-49.8	9,145.1	9,095.3	49.82	183.571	
18,400.0	9,402.2	22,738.2	9,375.0	79.2	117.1	-88.73	-19.8	-49.8	9,244.7	9,194.8	49.95	185.094	
18,500.0	9,401.8	22,738.2	9,375.0	80.1	117.1	-88.73	-19.8	-49.8	9,344.3	9,294.3	50.08	186.605	
18,600.0	9,401.3	22,738.2	9,375.0	80.9	117.1	-88.73	-19.8	-49.8	9,444.0	9,393.8	50.21	188.104	
18,700.0	9,400.9	22,738.2	9,375.0	81.8	117.1	-88.73	-19.8	-49.8	9,543.6	9,493.3	50.34	189.590	
18,800.0	9,400.4	22,738.2	9,375.0	82.6	117.1	-88.73	-19.8	-49.8	9,643.3	9,592.8	50.47	191.064	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design MYOX 4 28 & 16 ST COM PROJECT - *MYOX 4 16 ST COM #705H - OWB - PWP0 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8802-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,900.0	9,400.0	22,738.2	9,375.0	83.5	117.1	-88.73	-19.8	-49.8	9,742.9	9,692.3	50.61	192.527	
19,000.0	9,399.5	22,738.2	9,375.0	84.3	117.1	-88.73	-19.8	-49.8	9,842.6	9,791.8	50.74	193.977	
19,100.0	9,399.1	22,738.2	9,375.0	85.2	117.1	-88.73	-19.8	-49.8	9,942.3	9,891.4	50.88	195.416	

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design MYOX 4 28 & 16 ST COM PROJECT - *MYOX 4 16 ST COM #706H - OWB - PWP0 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8895-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	22,636.1	9,375.0	4.2	116.0	-90.33	-5.4	-934.9	9,471.9				
100.0	100.0	22,636.1	9,375.0	4.2	116.0	-90.33	-5.4	-934.9	9,372.4	9,265.9	106.46	88.035	
200.0	200.0	22,636.1	9,375.0	4.2	116.0	-90.33	-5.4	-934.9	9,272.9	9,166.3	106.51	87.062	
300.0	300.0	22,636.1	9,375.0	4.3	116.0	-90.33	-5.4	-934.9	9,173.4	9,066.8	106.57	86.075	
400.0	400.0	22,636.1	9,375.0	4.3	116.0	-90.33	-5.4	-934.9	9,073.9	8,967.2	106.65	85.077	
500.0	500.0	22,636.1	9,375.0	4.3	116.0	-90.33	-5.4	-934.9	8,974.4	8,867.7	106.74	84.074	
600.0	600.0	22,636.1	9,375.0	4.3	116.0	-90.33	-5.4	-934.9	8,875.0	8,768.1	106.84	83.068	
700.0	700.0	22,636.1	9,375.0	4.3	116.0	-90.33	-5.4	-934.9	8,775.5	8,668.6	106.94	82.059	
800.0	800.0	22,636.1	9,375.0	4.4	116.0	-90.33	-5.4	-934.9	8,676.1	8,569.1	107.05	81.051	
900.0	900.0	22,636.1	9,375.0	4.4	116.0	-90.33	-5.4	-934.9	8,576.7	8,469.6	107.15	80.042	
1,000.0	1,000.0	22,636.1	9,375.0	4.4	116.0	-90.33	-5.4	-934.9	8,477.3	8,370.1	107.26	79.033	
1,100.0	1,100.0	22,636.1	9,375.0	4.5	116.0	-90.33	-5.4	-934.9	8,377.9	8,270.6	107.37	78.026	
1,200.0	1,200.0	22,636.1	9,375.0	4.5	116.0	-90.33	-5.4	-934.9	8,278.6	8,171.1	107.49	77.019	
1,300.0	1,300.0	22,636.1	9,375.0	4.5	116.0	-90.33	-5.4	-934.9	8,179.2	8,071.6	107.60	76.014	
1,400.0	1,400.0	22,636.1	9,375.0	4.6	116.0	-90.33	-5.4	-934.9	8,079.9	7,972.2	107.72	75.010	
1,500.0	1,500.0	22,636.1	9,375.0	4.6	116.0	-90.33	-5.4	-934.9	7,980.6	7,872.7	107.84	74.007	
1,600.0	1,600.0	22,636.1	9,375.0	4.7	116.0	-90.33	-5.4	-934.9	7,881.3	7,773.3	107.95	73.006	
1,700.0	1,700.0	22,636.1	9,375.0	4.8	116.0	-90.33	-5.4	-934.9	7,782.0	7,673.9	108.07	72.006	
1,800.0	1,800.0	22,636.1	9,375.0	4.8	116.0	-90.33	-5.4	-934.9	7,682.7	7,574.5	108.20	71.007	
1,900.0	1,900.0	22,636.1	9,375.0	4.9	116.0	-90.33	-5.4	-934.9	7,583.5	7,475.1	108.32	70.010	
2,000.0	2,000.0	22,636.1	9,375.0	5.0	116.0	-90.33	-5.4	-934.9	7,484.2	7,375.8	108.44	69.015	
2,100.0	2,100.0	22,636.1	9,375.0	5.0	116.0	-90.33	-5.4	-934.9	7,385.0	7,276.5	108.57	68.021	
2,200.0	2,200.0	22,636.1	9,375.0	5.1	116.0	-90.33	-5.4	-934.9	7,285.8	7,177.1	108.70	67.029	
2,300.0	2,300.0	22,636.1	9,375.0	5.2	116.0	-90.33	-5.4	-934.9	7,186.7	7,077.9	108.83	66.038	
2,400.0	2,400.0	22,636.1	9,375.0	5.2	116.0	-90.33	-5.4	-934.9	7,087.5	6,978.6	108.96	65.049	
2,500.0	2,500.0	22,636.1	9,375.0	5.3	116.0	-90.33	-5.4	-934.9	6,988.4	6,879.3	109.09	64.061	
2,600.0	2,600.0	22,636.4	9,375.0	5.4	116.0	13.61	-5.7	-934.9	6,889.1	6,779.9	109.23	63.073	
2,700.0	2,699.8	22,637.3	9,375.0	5.4	116.0	20.32	-6.6	-934.9	6,789.5	6,680.1	109.37	62.080	
2,750.4	2,750.1	22,638.0	9,375.0	5.4	116.0	26.75	-7.3	-934.9	6,739.2	6,629.7	109.44	61.579	
2,800.0	2,799.5	22,638.8	9,375.0	5.4	116.0	26.63	-8.1	-934.9	6,689.7	6,580.2	109.51	61.086	
2,900.0	2,899.1	22,640.3	9,375.0	5.4	116.0	26.40	-9.6	-934.9	6,589.8	6,480.2	109.66	60.093	
3,000.0	2,998.7	22,641.9	9,375.0	5.4	116.0	26.17	-11.2	-934.9	6,490.0	6,380.2	109.81	59.102	
3,100.0	3,098.3	22,643.4	9,375.0	5.5	116.0	25.93	-12.7	-934.9	6,390.1	6,280.2	109.96	58.113	
3,200.0	3,198.0	22,644.9	9,375.0	5.5	116.0	25.70	-14.2	-934.9	6,290.3	6,180.2	110.11	57.125	
3,300.0	3,297.6	22,646.5	9,375.0	5.5	116.1	25.46	-15.8	-934.9	6,190.5	6,080.2	110.27	56.140	
3,400.0	3,397.2	22,647.6	9,375.0	5.6	116.1	25.29	-16.9	-934.9	6,090.6	5,980.2	110.42	55.157	
3,500.0	3,496.8	22,647.6	9,375.0	5.6	116.1	25.29	-16.9	-934.9	5,990.8	5,880.2	110.57	54.181	
3,600.0	3,596.4	22,647.6	9,375.0	5.7	116.1	25.29	-16.9	-934.9	5,891.0	5,780.3	110.72	53.207	
3,700.0	3,696.1	22,647.6	9,375.0	5.7	116.1	25.29	-16.9	-934.9	5,791.2	5,680.3	110.87	52.235	
3,800.0	3,795.7	22,647.6	9,375.0	5.8	116.1	25.29	-16.9	-934.9	5,691.4	5,580.3	111.02	51.264	
3,900.0	3,895.3	22,647.6	9,375.0	5.8	116.1	25.29	-16.9	-934.9	5,591.6	5,480.4	111.18	50.295	
4,000.0	3,994.9	22,647.6	9,375.0	5.9	116.1	25.29	-16.9	-934.9	5,491.8	5,380.5	111.33	49.328	
4,100.0	4,094.5	22,647.6	9,375.0	5.9	116.1	25.29	-16.9	-934.9	5,392.0	5,280.5	111.49	48.362	
4,200.0	4,194.1	22,647.6	9,375.0	6.0	116.1	25.29	-16.9	-934.9	5,292.2	5,180.6	111.65	47.399	
4,300.0	4,293.8	22,647.6	9,375.0	6.0	116.1	25.29	-16.9	-934.9	5,192.5	5,080.6	111.82	46.438	
4,400.0	4,393.4	22,647.6	9,375.0	6.1	116.1	25.29	-16.9	-934.9	5,092.7	4,980.7	111.98	45.478	
4,500.0	4,493.0	22,647.6	9,375.0	6.2	116.1	25.29	-16.9	-934.9	4,993.0	4,880.8	112.15	44.521	
4,600.0	4,592.6	22,647.6	9,375.0	6.2	116.1	25.29	-16.9	-934.9	4,893.2	4,780.9	112.32	43.565	
4,700.0	4,692.2	22,647.6	9,375.0	6.3	116.1	25.29	-16.9	-934.9	4,793.5	4,681.0	112.49	42.612	
4,800.0	4,791.9	22,647.6	9,375.0	6.4	116.1	25.29	-16.9	-934.9	4,693.8	4,581.1	112.67	41.661	
4,900.0	4,891.5	22,647.6	9,375.0	6.5	116.1	25.29	-16.9	-934.9	4,594.1	4,481.2	112.84	40.712	
5,000.0	4,991.1	22,647.6	9,375.0	6.5	116.1	25.29	-16.9	-934.9	4,494.4	4,381.4	113.02	39.765	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design MYOX 4 28 & 16 ST COM PROJECT - *MYOX 4 16 ST COM #706H - OWB - PWP0 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8895-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,090.7	22,647.6	9,375.0	6.6	116.1	25.29	-16.9	-934.9	4,394.7	4,281.5	113.21	38.821	
5,200.0	5,190.3	22,647.6	9,375.0	6.7	116.1	25.29	-16.9	-934.9	4,295.1	4,181.7	113.39	37.878	
5,300.0	5,289.9	22,647.6	9,375.0	6.8	116.1	25.29	-16.9	-934.9	4,195.4	4,081.9	113.58	36.939	
5,400.0	5,389.6	22,647.6	9,375.0	6.9	116.1	25.29	-16.9	-934.9	4,095.8	3,982.0	113.77	36.001	
5,500.0	5,489.2	22,647.6	9,375.0	6.9	116.1	25.29	-16.9	-934.9	3,996.2	3,882.2	113.96	35.067	
5,600.0	5,588.8	22,647.6	9,375.0	7.0	116.1	25.29	-16.9	-934.9	3,896.6	3,782.5	114.16	34.134	
5,700.0	5,688.4	22,647.6	9,375.0	7.1	116.1	25.29	-16.9	-934.9	3,797.1	3,682.7	114.35	33.204	
5,800.0	5,788.0	22,647.6	9,375.0	7.2	116.1	25.29	-16.9	-934.9	3,697.5	3,583.0	114.55	32.277	
5,900.0	5,887.7	22,647.6	9,375.0	7.3	116.1	25.29	-16.9	-934.9	3,598.0	3,483.3	114.76	31.353	
6,000.0	5,987.3	22,647.6	9,375.0	7.4	116.1	25.29	-16.9	-934.9	3,498.5	3,383.6	114.96	30.431	
6,100.0	6,086.9	22,647.6	9,375.0	7.5	116.1	25.29	-16.9	-934.9	3,399.1	3,283.9	115.17	29.513	
6,200.0	6,186.5	22,647.6	9,375.0	7.6	116.1	25.29	-16.9	-934.9	3,299.7	3,184.3	115.39	28.597	
6,300.0	6,286.1	22,647.6	9,375.0	7.7	116.1	25.29	-16.9	-934.9	3,200.3	3,084.7	115.60	27.684	
6,400.0	6,385.7	22,647.6	9,375.0	7.8	116.1	25.29	-16.9	-934.9	3,100.9	2,985.1	115.82	26.774	
6,500.0	6,485.4	22,647.6	9,375.0	7.8	116.1	25.29	-16.9	-934.9	3,001.6	2,885.6	116.04	25.867	
6,600.0	6,585.0	22,647.6	9,375.0	7.9	116.1	25.29	-16.9	-934.9	2,902.4	2,786.1	116.26	24.964	
6,700.0	6,684.6	22,647.6	9,375.0	8.0	116.1	25.29	-16.9	-934.9	2,803.2	2,686.7	116.49	24.063	
6,800.0	6,784.2	22,647.6	9,375.0	8.1	116.1	25.29	-16.9	-934.9	2,704.0	2,587.3	116.72	23.166	
6,900.0	6,883.8	22,647.6	9,375.0	8.2	116.1	25.29	-16.9	-934.9	2,604.9	2,488.0	116.96	22.273	
7,000.0	6,983.5	22,647.6	9,375.0	8.3	116.1	25.29	-16.9	-934.9	2,505.9	2,388.7	117.19	21.383	
7,100.0	7,083.1	22,647.6	9,375.0	8.4	116.1	25.29	-16.9	-934.9	2,407.0	2,289.6	117.44	20.496	
7,200.0	7,182.7	22,647.6	9,375.0	8.6	116.1	25.29	-16.9	-934.9	2,308.2	2,190.5	117.68	19.614	
7,300.0	7,282.3	22,647.6	9,375.0	8.7	116.1	25.29	-16.9	-934.9	2,209.5	2,091.5	117.93	18.735	
7,400.0	7,381.9	22,647.6	9,375.0	8.8	116.1	25.29	-16.9	-934.9	2,110.9	1,992.7	118.19	17.861	
7,500.0	7,481.5	22,647.6	9,375.0	8.9	116.1	25.29	-16.9	-934.9	2,012.4	1,893.9	118.44	16.990	
7,600.0	7,581.2	22,647.6	9,375.0	9.0	116.1	25.29	-16.9	-934.9	1,914.1	1,795.4	118.71	16.124	
7,700.0	7,680.8	22,647.6	9,375.0	9.1	116.1	25.29	-16.9	-934.9	1,816.0	1,697.0	118.98	15.263	
7,800.0	7,780.4	22,647.6	9,375.0	9.2	116.1	25.29	-16.9	-934.9	1,718.1	1,598.8	119.25	14.407	
7,900.0	7,880.0	22,647.6	9,375.0	9.3	116.1	25.29	-16.9	-934.9	1,620.4	1,500.9	119.53	13.557	
8,000.0	7,979.6	22,647.6	9,375.0	9.4	116.1	25.29	-16.9	-934.9	1,523.1	1,403.2	119.82	12.712	
8,100.0	8,079.3	22,647.6	9,375.0	9.5	116.1	25.29	-16.9	-934.9	1,426.1	1,306.0	120.11	11.873	
8,200.0	8,178.9	22,647.6	9,375.0	9.6	116.1	25.29	-16.9	-934.9	1,329.6	1,209.1	120.41	11.042	
8,300.0	8,278.5	22,647.6	9,375.0	9.7	116.1	25.29	-16.9	-934.9	1,233.6	1,112.8	120.73	10.218	
8,400.0	8,378.1	22,647.6	9,375.0	9.8	116.1	25.29	-16.9	-934.9	1,138.3	1,017.2	121.05	9.403	
8,500.0	8,477.7	22,647.6	9,375.0	9.9	116.1	25.29	-16.9	-934.9	1,043.9	922.5	121.39	8.600	
8,600.0	8,577.3	22,647.6	9,375.0	10.1	116.1	25.29	-16.9	-934.9	950.6	828.9	121.74	7.809	
8,700.0	8,677.0	22,647.6	9,375.0	10.2	116.1	25.29	-16.9	-934.9	858.9	736.8	122.12	7.033	
8,800.0	8,776.6	22,647.6	9,375.0	10.3	116.1	25.29	-16.9	-934.9	769.2	646.7	122.51	6.279	
8,900.0	8,876.2	22,647.6	9,375.0	10.4	116.1	25.29	-16.9	-934.9	682.4	559.5	122.93	5.552	
8,916.0	8,892.1	22,647.6	9,375.0	10.4	116.1	25.29	-16.9	-934.9	668.9	545.9	122.99	5.439	
8,950.0	8,926.0	22,647.6	9,375.0	10.5	116.1	55.42	-16.9	-934.9	640.5	517.1	123.35	5.193	
9,000.0	8,975.3	22,647.6	9,375.0	10.5	116.1	77.85	-16.9	-934.9	600.0	476.6	123.39	4.862	
9,050.0	9,023.8	22,647.6	9,375.0	10.5	116.1	90.49	-16.9	-934.9	561.5	438.3	123.22	4.557	
9,100.0	9,071.2	22,647.6	9,375.0	10.5	116.1	98.97	-16.9	-934.9	525.9	403.2	122.70	4.286	
9,150.0	9,117.0	22,647.6	9,375.0	10.5	116.1	105.05	-16.9	-934.9	494.0	372.4	121.65	4.061	
9,200.0	9,160.9	22,647.6	9,375.0	10.5	116.1	109.46	-16.9	-934.9	466.9	347.1	119.84	3.896	
9,250.0	9,202.6	22,647.6	9,375.0	10.6	116.1	112.59	-16.9	-934.9	445.7	328.7	117.02	3.809	SF
9,300.0	9,241.8	22,647.6	9,375.0	10.6	116.1	114.67	-16.9	-934.9	431.5	318.5	112.99	3.819	
9,350.0	9,278.2	22,647.6	9,375.0	10.7	116.1	115.84	-16.9	-934.9	424.9	317.2	107.71	3.945	ES
9,365.2	9,288.7	22,647.6	9,375.0	10.7	116.1	116.02	-16.9	-934.9	424.5	318.6	105.88	4.009	CC
9,400.0	9,311.5	22,647.6	9,375.0	10.7	116.1	116.17	-16.9	-934.9	426.5	325.1	101.39	4.207	
9,450.0	9,341.3	22,647.6	9,375.0	10.8	116.1	115.69	-16.9	-934.9	436.2	341.7	94.41	4.620	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design MYOX 4 28 & 16 ST COM PROJECT - *MYOX 4 16 ST COM #706H - OWB - PWP0 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8895-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,500.0	9,367.6	22,647.6	9,375.0	10.9	116.1	114.40	-16.9	-934.9	453.3	366.0	87.27	5.193	
9,550.0	9,390.2	22,647.6	9,375.0	11.0	116.1	112.26	-16.9	-934.9	476.9	396.5	80.39	5.932	
9,600.0	9,408.7	22,647.6	9,375.0	11.2	116.1	109.19	-16.9	-934.9	506.0	431.9	74.03	6.835	
9,650.0	9,423.2	22,647.6	9,375.0	11.3	116.1	105.13	-16.9	-934.9	539.4	471.1	68.32	7.896	
9,700.0	9,433.4	22,647.6	9,375.0	11.5	116.1	100.00	-16.9	-934.9	576.3	513.0	63.28	9.106	
9,750.0	9,439.4	22,647.6	9,375.0	11.7	116.1	93.78	-16.9	-934.9	615.6	556.7	58.88	10.455	
9,796.2	9,441.0	22,647.6	9,375.0	11.8	116.1	87.15	-16.9	-934.9	653.6	598.2	55.34	11.810	
9,800.0	9,441.0	22,647.6	9,375.0	11.8	116.1	87.14	-16.9	-934.9	656.8	601.7	55.07	11.926	
9,900.0	9,440.5	22,647.6	9,375.0	12.2	116.1	86.96	-16.9	-934.9	743.4	694.1	49.23	15.101	
10,000.0	9,440.1	22,647.6	9,375.0	12.7	116.1	86.70	-16.9	-934.9	834.4	789.0	45.37	18.391	
10,100.0	9,439.6	22,647.6	9,375.0	13.2	116.1	86.35	-16.9	-934.9	928.4	885.5	42.89	21.645	
10,200.0	9,439.2	22,647.6	9,375.0	13.7	116.1	85.87	-16.9	-934.9	1,024.5	983.2	41.34	24.784	
10,300.0	9,438.7	22,647.6	9,375.0	14.3	116.1	85.16	-16.9	-934.9	1,122.1	1,081.7	40.38	27.786	
10,400.0	9,438.3	22,647.6	9,375.0	14.8	116.1	84.04	-16.9	-934.9	1,220.7	1,180.9	39.81	30.660	
10,500.0	9,437.8	22,647.6	9,375.0	15.4	116.1	82.04	-16.9	-934.9	1,320.0	1,280.5	39.49	33.423	
10,606.4	9,437.3	22,647.6	9,375.0	16.0	116.1	77.06	-16.9	-934.9	1,426.0	1,386.7	39.33	36.257	
10,700.0	9,436.9	22,647.6	9,375.0	16.6	116.1	77.06	-16.9	-934.9	1,519.5	1,480.2	39.26	38.701	
10,800.0	9,436.4	22,647.6	9,375.0	17.3	116.1	77.06	-16.9	-934.9	1,619.4	1,580.1	39.21	41.298	
10,900.0	9,436.0	22,647.6	9,375.0	17.9	116.1	77.06	-16.9	-934.9	1,719.2	1,680.1	39.18	43.881	
11,000.0	9,435.5	22,647.6	9,375.0	18.6	116.1	77.06	-16.9	-934.9	1,819.1	1,780.0	39.16	46.449	
11,100.0	9,435.1	22,647.6	9,375.0	19.3	116.1	77.06	-16.9	-934.9	1,919.0	1,879.9	39.16	49.003	
11,200.0	9,434.6	22,647.6	9,375.0	20.0	116.1	77.06	-16.9	-934.9	2,019.0	1,979.8	39.17	51.542	
11,300.0	9,434.2	22,647.6	9,375.0	20.7	116.1	77.06	-16.9	-934.9	2,118.9	2,079.7	39.19	54.066	
11,400.0	9,433.8	22,647.6	9,375.0	21.4	116.1	77.06	-16.9	-934.9	2,218.8	2,179.6	39.22	56.575	
11,500.0	9,433.3	22,647.6	9,375.0	22.2	116.1	77.06	-16.9	-934.9	2,318.7	2,279.5	39.25	59.070	
11,600.0	9,432.9	22,647.6	9,375.0	22.9	116.1	77.06	-16.9	-934.9	2,418.7	2,379.4	39.30	61.549	
11,700.0	9,432.4	22,647.6	9,375.0	23.7	116.1	77.06	-16.9	-934.9	2,518.6	2,479.3	39.35	64.013	
11,800.0	9,432.0	22,647.6	9,375.0	24.4	116.1	77.06	-16.9	-934.9	2,618.6	2,579.2	39.40	66.461	
11,900.0	9,431.5	22,647.6	9,375.0	25.2	116.1	77.06	-16.9	-934.9	2,718.5	2,679.1	39.46	68.894	
12,000.0	9,431.1	22,647.6	9,375.0	26.0	116.1	77.06	-16.9	-934.9	2,818.5	2,779.0	39.52	71.311	
12,100.0	9,430.6	22,647.6	9,375.0	26.7	116.1	77.06	-16.9	-934.9	2,918.5	2,878.9	39.59	73.712	
12,200.0	9,430.2	22,647.6	9,375.0	27.5	116.1	77.06	-16.9	-934.9	3,018.4	2,978.7	39.67	76.097	
12,300.0	9,429.7	22,647.6	9,375.0	28.3	116.1	77.06	-16.9	-934.9	3,118.4	3,078.6	39.74	78.466	
12,400.0	9,429.3	22,647.6	9,375.0	29.1	116.1	77.06	-16.9	-934.9	3,218.3	3,178.5	39.82	80.819	
12,500.0	9,428.8	22,647.6	9,375.0	29.9	116.1	77.06	-16.9	-934.9	3,318.3	3,278.4	39.90	83.156	
12,600.0	9,428.4	22,647.6	9,375.0	30.7	116.1	77.06	-16.9	-934.9	3,418.3	3,378.3	39.99	85.476	
12,700.0	9,427.9	22,647.6	9,375.0	31.5	116.1	77.06	-16.9	-934.9	3,518.3	3,478.2	40.08	87.780	
12,800.0	9,427.5	22,647.6	9,375.0	32.3	116.1	77.06	-16.9	-934.9	3,618.2	3,578.1	40.17	90.068	
12,900.0	9,427.0	22,647.6	9,375.0	33.1	116.1	77.06	-16.9	-934.9	3,718.2	3,677.9	40.27	92.339	
13,000.0	9,426.6	22,647.6	9,375.0	33.9	116.1	77.06	-16.9	-934.9	3,818.2	3,777.8	40.36	94.594	
13,100.0	9,426.1	22,647.6	9,375.0	34.7	116.1	77.06	-16.9	-934.9	3,918.2	3,877.7	40.46	96.832	
13,200.0	9,425.7	22,647.6	9,375.0	35.6	116.1	77.06	-16.9	-934.9	4,018.1	3,977.6	40.57	99.054	
13,300.0	9,425.2	22,647.6	9,375.0	36.4	116.1	77.06	-16.9	-934.9	4,118.1	4,077.5	40.67	101.259	
13,400.0	9,424.8	22,647.6	9,375.0	37.2	116.1	77.06	-16.9	-934.9	4,218.1	4,177.3	40.78	103.447	
13,500.0	9,424.3	22,647.6	9,375.0	38.0	116.1	77.06	-16.9	-934.9	4,318.1	4,277.2	40.88	105.619	
13,600.0	9,423.9	22,647.6	9,375.0	38.8	116.1	77.06	-16.9	-934.9	4,418.1	4,377.1	40.99	107.775	
13,700.0	9,423.4	22,647.6	9,375.0	39.7	116.1	77.06	-16.9	-934.9	4,518.1	4,476.9	41.11	109.914	
13,800.0	9,423.0	22,647.6	9,375.0	40.5	116.1	77.06	-16.9	-934.9	4,618.0	4,576.8	41.22	112.036	
13,900.0	9,422.5	22,647.6	9,375.0	41.3	116.1	77.06	-16.9	-934.9	4,718.0	4,676.7	41.33	114.143	
14,000.0	9,422.1	22,647.6	9,375.0	42.1	116.1	77.06	-16.9	-934.9	4,818.0	4,776.6	41.45	116.233	
14,100.0	9,421.6	22,647.6	9,375.0	43.0	116.1	77.06	-16.9	-934.9	4,918.0	4,876.4	41.57	118.306	
14,200.0	9,421.2	22,647.6	9,375.0	43.8	116.1	77.06	-16.9	-934.9	5,018.0	4,976.3	41.69	120.364	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design MYOX 4 28 & 16 ST COM PROJECT - *MYOX 4 16 ST COM #706H - OWB - PWP0 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8895-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,300.0	9,420.7	22,647.6	9,375.0	44.6	116.1	77.06	-16.9	-934.9	5,118.0	5,076.2	41.81	122.405	
14,400.0	9,420.3	22,647.6	9,375.0	45.5	116.1	77.06	-16.9	-934.9	5,218.0	5,176.0	41.93	124.431	
14,500.0	9,419.8	22,647.6	9,375.0	46.3	116.1	77.06	-16.9	-934.9	5,317.9	5,275.9	42.06	126.440	
14,600.0	9,419.4	22,647.6	9,375.0	47.1	116.1	77.06	-16.9	-934.9	5,417.9	5,375.7	42.18	128.433	
14,681.5	9,419.0	22,647.6	9,375.0	47.8	116.1	77.06	-16.9	-934.9	5,499.4	5,457.1	42.29	130.046	
14,700.0	9,418.9	22,647.6	9,375.0	48.0	116.1	67.20	-16.9	-934.9	5,517.9	5,475.6	42.31	130.411	
14,800.0	9,418.5	22,647.6	9,375.0	48.8	116.1	-83.01	-16.9	-934.9	5,617.9	5,575.5	42.45	132.353	
14,900.0	9,418.0	22,647.6	9,375.0	49.6	116.1	-86.91	-16.9	-934.9	5,717.8	5,675.2	42.59	134.249	
14,910.9	9,418.0	22,647.6	9,375.0	49.7	116.1	-87.09	-16.9	-934.9	5,728.6	5,686.0	42.61	134.453	
15,000.0	9,417.5	22,647.6	9,375.0	50.5	116.1	-87.09	-16.9	-934.9	5,817.6	5,774.9	42.74	136.110	
15,100.0	9,417.1	22,647.6	9,375.0	51.3	116.1	-87.09	-16.9	-934.9	5,917.4	5,874.5	42.89	137.953	
15,200.0	9,416.6	22,647.6	9,375.0	52.1	116.1	-87.09	-16.9	-934.9	6,017.2	5,974.2	43.05	139.781	
15,267.5	9,416.3	22,647.6	9,375.0	52.7	116.1	-87.09	-16.9	-934.9	6,084.5	6,041.4	43.15	141.006	
15,300.0	9,416.1	22,647.6	9,375.0	53.0	116.1	-86.42	-16.9	-934.9	6,117.0	6,073.8	43.20	141.595	
15,400.0	9,415.7	22,647.6	9,375.0	53.8	116.1	-77.71	-16.9	-934.9	6,217.0	6,173.6	43.35	143.421	
15,500.0	9,415.2	22,647.6	9,375.0	54.7	116.1	82.03	-16.9	-934.9	6,317.0	6,273.5	43.49	145.267	
15,600.0	9,414.8	22,647.6	9,375.0	55.5	116.1	87.04	-16.9	-934.9	6,416.9	6,373.3	43.61	147.129	
15,654.5	9,414.5	22,647.6	9,375.0	56.0	116.1	87.81	-16.9	-934.9	6,471.3	6,427.6	43.68	148.150	
15,700.0	9,414.3	22,647.6	9,375.0	56.3	116.1	87.81	-16.9	-934.9	6,516.7	6,472.9	43.74	149.001	
15,800.0	9,413.9	22,647.6	9,375.0	57.2	116.1	87.81	-16.9	-934.9	6,616.4	6,572.5	43.86	150.858	
15,900.0	9,413.4	22,647.6	9,375.0	58.0	116.1	87.81	-16.9	-934.9	6,716.1	6,672.2	43.98	152.699	
16,000.0	9,413.0	22,647.6	9,375.0	58.9	116.1	87.81	-16.9	-934.9	6,815.9	6,771.8	44.11	154.523	
16,100.0	9,412.5	22,647.6	9,375.0	59.7	116.1	87.81	-16.9	-934.9	6,915.6	6,871.4	44.24	156.330	
16,200.0	9,412.0	22,647.6	9,375.0	60.5	116.1	87.81	-16.9	-934.9	7,015.4	6,971.0	44.37	158.122	
16,300.0	9,411.6	22,647.6	9,375.0	61.4	116.1	87.81	-16.9	-934.9	7,115.2	7,070.7	44.50	159.897	
16,379.5	9,411.2	22,647.6	9,375.0	62.1	116.1	87.81	-16.9	-934.9	7,194.5	7,149.9	44.60	161.298	
16,400.0	9,411.1	22,647.6	9,375.0	62.2	116.1	87.56	-16.9	-934.9	7,215.0	7,170.3	44.63	161.657	
16,500.0	9,410.7	22,647.6	9,375.0	63.1	116.1	84.09	-16.9	-934.9	7,314.9	7,270.1	44.77	163.387	
16,533.9	9,410.5	22,647.6	9,375.0	63.4	116.1	78.31	-16.9	-934.9	7,348.8	7,303.9	44.82	163.965	
16,600.0	9,410.2	22,647.6	9,375.0	63.9	116.1	78.31	-16.9	-934.9	7,414.9	7,369.9	44.92	165.086	
16,700.0	9,409.8	22,647.6	9,375.0	64.8	116.1	78.31	-16.9	-934.9	7,514.9	7,469.8	45.06	166.772	
16,800.0	9,409.4	22,647.6	9,375.0	65.6	116.1	78.31	-16.9	-934.9	7,614.8	7,569.6	45.21	168.445	
16,900.0	9,408.9	22,647.6	9,375.0	66.5	116.1	78.31	-16.9	-934.9	7,714.8	7,669.5	45.35	170.104	
17,000.0	9,408.5	22,647.6	9,375.0	67.3	116.1	78.31	-16.9	-934.9	7,814.8	7,769.3	45.50	171.750	
17,100.0	9,408.0	22,647.6	9,375.0	68.2	116.1	78.31	-16.9	-934.9	7,914.8	7,869.2	45.65	173.383	
17,200.0	9,407.6	22,647.6	9,375.0	69.0	116.1	78.31	-16.9	-934.9	8,014.8	7,969.0	45.80	175.003	
17,300.0	9,407.1	22,647.6	9,375.0	69.9	116.1	78.31	-16.9	-934.9	8,114.8	8,068.9	45.95	176.610	
17,400.0	9,406.7	22,647.6	9,375.0	70.7	116.1	78.31	-16.9	-934.9	8,214.8	8,168.7	46.10	178.205	
17,500.0	9,406.2	22,647.6	9,375.0	71.6	116.1	78.31	-16.9	-934.9	8,314.8	8,268.6	46.25	179.787	
17,600.0	9,405.8	22,647.6	9,375.0	72.4	116.1	78.31	-16.9	-934.9	8,414.8	8,368.4	46.40	181.357	
17,700.0	9,405.3	22,647.6	9,375.0	73.3	116.1	78.31	-16.9	-934.9	8,514.8	8,468.2	46.55	182.914	
17,800.0	9,404.9	22,647.6	9,375.0	74.1	116.1	78.31	-16.9	-934.9	8,614.8	8,568.1	46.70	184.460	
17,900.0	9,404.4	22,647.6	9,375.0	74.9	116.1	78.31	-16.9	-934.9	8,714.8	8,667.9	46.86	185.993	
18,000.0	9,404.0	22,647.6	9,375.0	75.8	116.1	78.31	-16.9	-934.9	8,814.8	8,767.8	47.01	187.514	
18,100.0	9,403.5	22,647.6	9,375.0	76.7	116.1	78.31	-16.9	-934.9	8,914.8	8,867.6	47.16	189.024	
18,200.0	9,403.1	22,647.6	9,375.0	77.5	116.1	78.31	-16.9	-934.9	9,014.8	8,967.5	47.32	190.522	
18,300.0	9,402.7	22,647.6	9,375.0	78.4	116.1	78.31	-16.9	-934.9	9,114.8	9,067.3	47.47	192.008	
18,400.0	9,402.2	22,647.6	9,375.0	79.2	116.1	78.31	-16.9	-934.9	9,214.8	9,167.1	47.63	193.483	
18,500.0	9,401.8	22,647.6	9,375.0	80.1	116.1	78.31	-16.9	-934.9	9,314.8	9,267.0	47.78	194.946	
18,600.0	9,401.3	22,647.6	9,375.0	80.9	116.1	78.31	-16.9	-934.9	9,414.8	9,366.8	47.94	196.398	
18,700.0	9,400.9	22,647.6	9,375.0	81.8	116.1	78.31	-16.9	-934.9	9,514.7	9,466.7	48.09	197.839	
18,800.0	9,400.4	22,647.6	9,375.0	82.6	116.1	78.31	-16.9	-934.9	9,614.7	9,566.5	48.25	199.270	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design MYOX 4 28 & 16 ST COM PROJECT - *MYOX 4 16 ST COM #706H - OWB - PWP0 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8895-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,900.0	9,400.0	22,647.6	9,375.0	83.5	116.1	78.31	-16.9	-934.9	9,714.7	9,666.3	48.41	200.689	
19,000.0	9,399.5	22,647.6	9,375.0	84.3	116.1	78.31	-16.9	-934.9	9,814.7	9,766.2	48.56	202.097	
19,100.0	9,399.1	22,647.6	9,375.0	85.2	116.1	78.31	-16.9	-934.9	9,914.7	9,866.0	48.72	203.495	

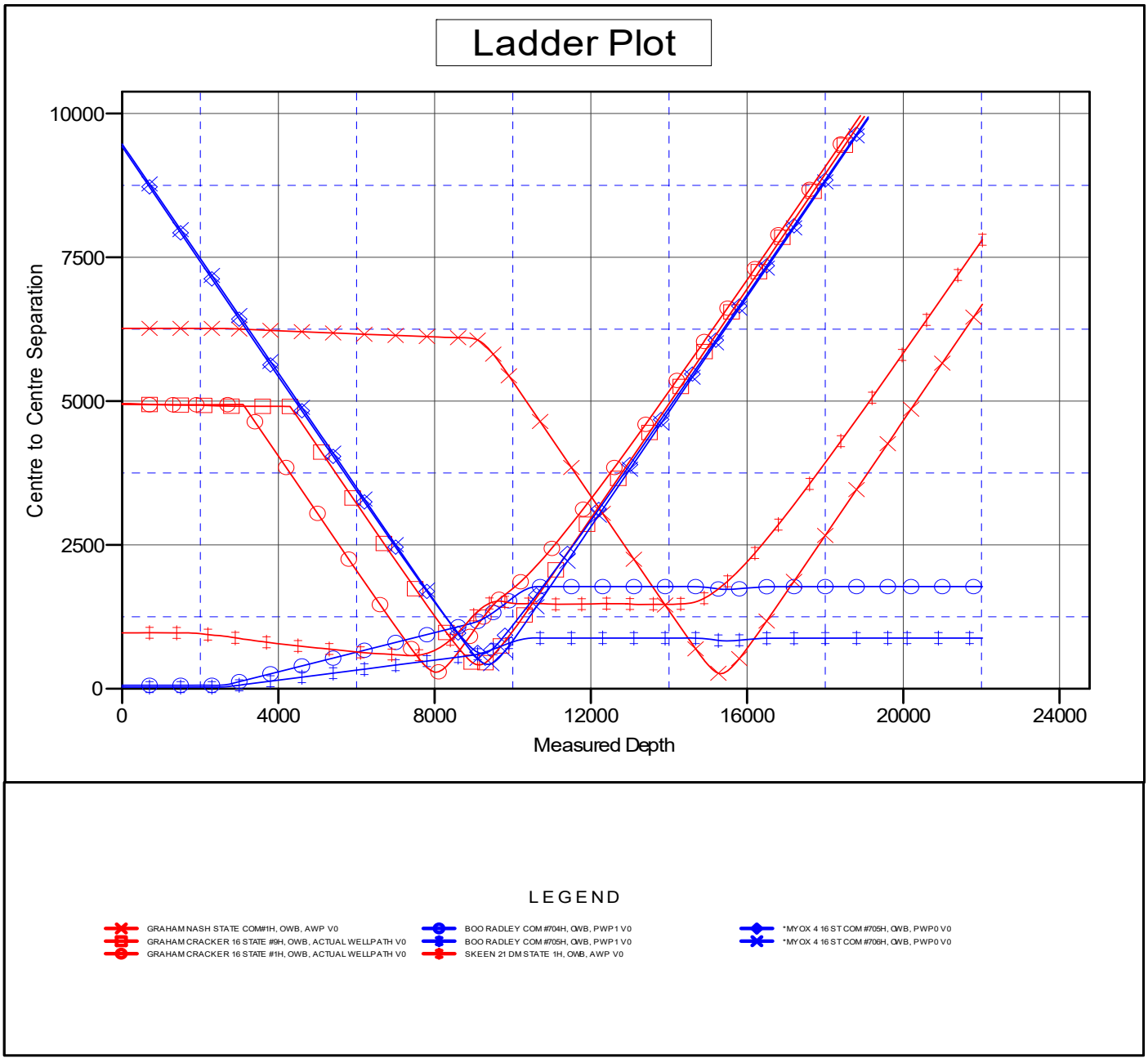
Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to *KB=30' @ 3066.6usft (TBD)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: BOO RADLEY COM #706H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.13°



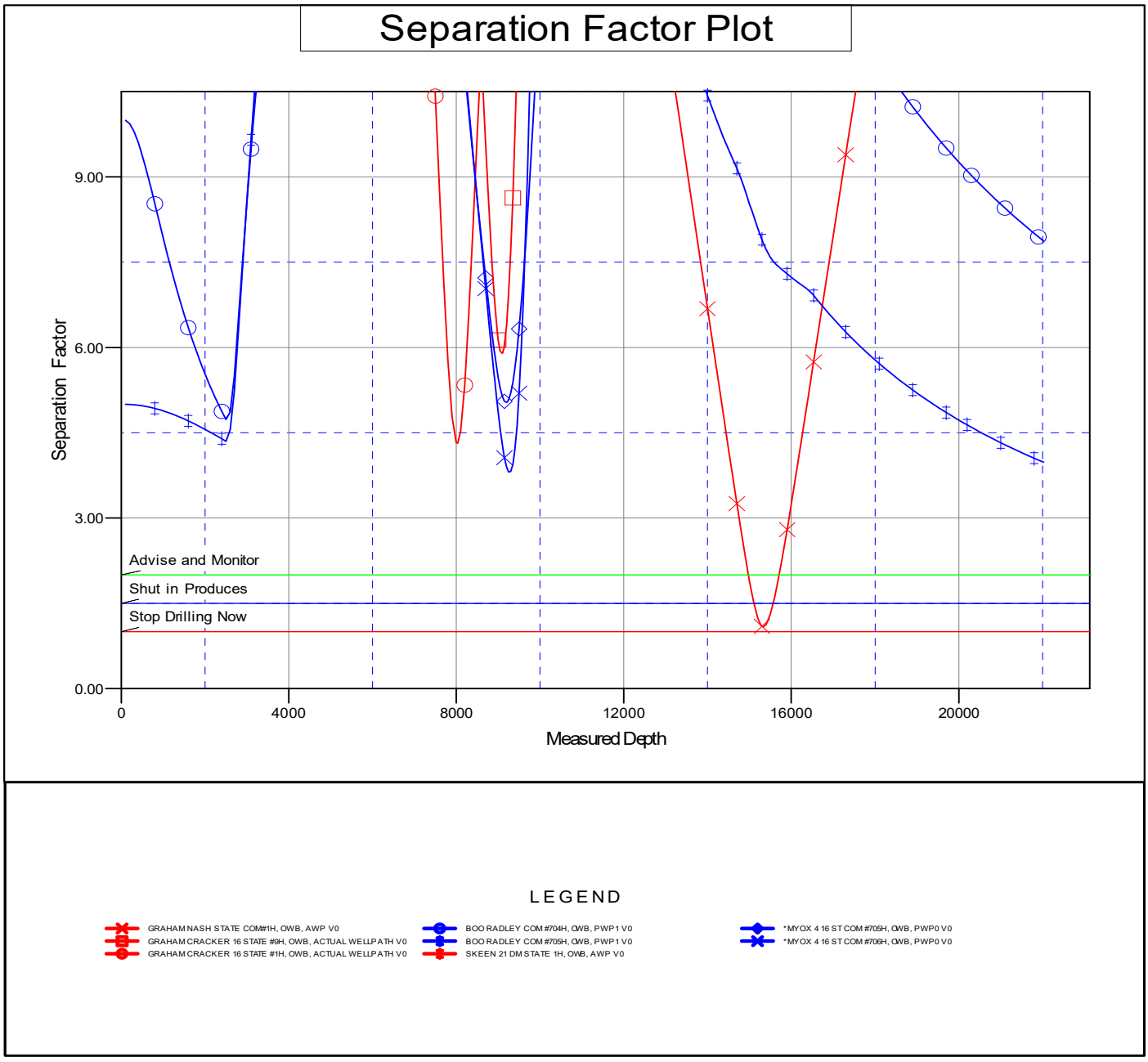
Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #706H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3066.6usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	*KB=30' @ 3066.6usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #706H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to *KB=30' @ 3066.6usft (TBD)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: BOO RADLEY COM #706H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.13°



COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

a. The hazards and characteristics of hydrogen sulfide (H_2S).
b. The proper use and maintenance of personal protective equipment and life support systems.
c. The proper use of H_2S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
d. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

a. The effects of H2S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
c. The contents and requirements of the H_2S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H2S zone (within 3 days or 500 feet) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. H_2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H_2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H2S. If H2S greater than 100 ppm is encountered in the gas stream we will shut in and install H2S equipment.

a. Well Control Equipment:
   Flare line.
   Choke manifold with remotely operated choke.
   Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
   Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

b. Protective equipment for essential personnel:
Mark II Surviveair 30-minute units located in the dog house and at briefing areas.

c. H2S detection and monitoring equipment:
2 - portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.

d. Visual warning systems:
Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

e. Mud Program:
The mud program has been designed to minimize the volume of H2S circulated to the surface.

f. Metallurgy:
All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

g. Communication:
Company vehicles equipped with cellular telephone.

COG OPERATING LLC has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore, we do not believe that an H2S contingency plan is necessary.

W A R N I N G

YOU ARE ENTERING AN H_2S AREA
AUTHORIZED PERSONNEL ONLY

1. ***BEARDS OR CONTACT LENSES NOT ALLOWED***
2. ***HARD HATS REQUIRED***
3. ***SMOKING IN DESIGNATED AREAS ONLY***
4. ***BE WIND CONSCIOUS AT ALL TIMES***
5. ***CK WITH COG OPERATING LLC FOREMAN AT MAIN OFFICE***

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

	OFFICE	MOBILE
COG OPERATING LLC OFFICE	575-748-6940	
SETH WILD	432-683-7443	432-528-3633
WALTER ROYE	575-748-6940	432-934-1886

EMERGENCY RESPONSE NUMBERS

	OFFICE
STATE POLICE	575-748-9718
EDDY COUNTY SHERIFF	575-746-2701
EMERGENCY MEDICAL SERVICES (AMBULANCE)	911 or 575-746-2701
EDDY COUNTY EMERGENCY MANAGEMENT (HARRY BURGESS)	575-887-9511
STATE EMERGENCY RESPONSE CENTER (SERC)	575-476-9620
CARLSBAD POLICE DEPARTMENT	575-885-2111
CARLSBAD FIRE DEPARTMENT	575-885-3125
NEW MEXICO OIL CONSERVATION DIVISION	575-748-1283
INDIAN FIRE & SAFETY	800-530-8693
HALLIBURTON SERVICES	800-844-8451

COG Operating LLC
H_2S Equipment Schematic
Terrain: Shinnery sand hills.

Well pad will be 400' X 400'
with cellar in center of pad