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

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

Form C-101
August 1, 2011

Permit 285657

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 30-015-47348
4. Property Code 328970	5. Property Name Boo Radley Com	6. Well No. 702H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
O	16	26S	28E	O	200	S	1520	E	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	33	26S	28E	4	200	S	1210	E	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	GAS		State	2994
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	21956	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	21956	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		

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Property Code	Property Name	Well Number
	BOO RADLEY COM	702H

OGRID No.	Operator Name	Elevation
229137	COG OPERATING, LLC	2994.7'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	16	26-S	28-E		200	SOUTH	1520	EAST	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
4	33	26-S	28-E		200	SOUTH	1210	EAST	EDDY

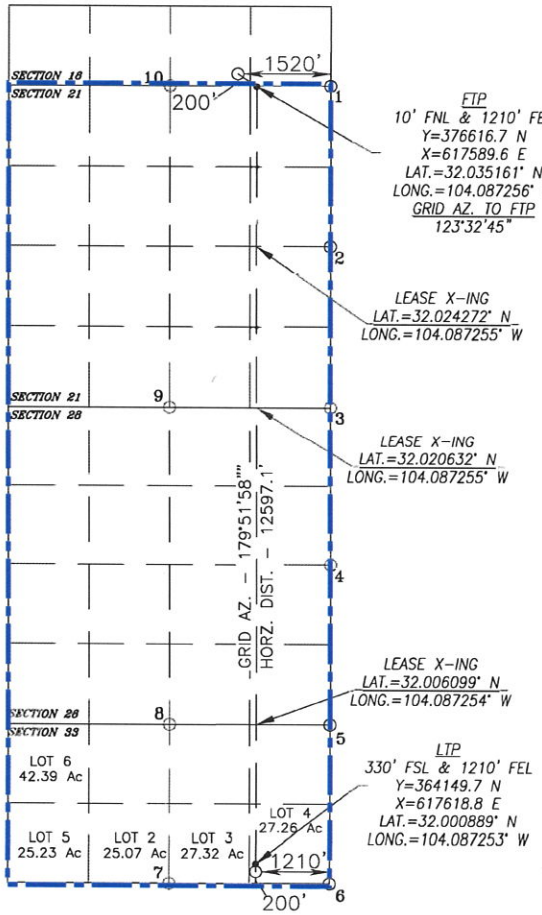
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
1547.27			

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=376827.8 N
X=617271.3 E
LAT.=32.035743° N
LONG.=104.088281° W

POINT LEGEND	
1	Y=376622.7 N X=618799.6 E
2	Y=373976.1 N X=618810.7 E
3	Y=371328.9 N X=618821.8 E
4	Y=368688.3 N X=618819.8 E
5	Y=366046.7 N X=618824.5 E
6	Y=363825.7 N X=618829.5 E
7	Y=363813.8 N X=615965.2 E
8	Y=366042.7 N X=615960.0 E
9	Y=371335.2 N X=616078.1 E
10	Y=376631.8 N X=616063.7 E

NAD 83 NME
PROPOSED BOTTOM
HOLE LOCATION
Y=364019.7 N
X=617619.1 E
LAT.=32.000531° N
LONG.=104.087253° 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 8/17/20
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. # 20-958 DRAWN BY: AH

Intent [X] As Drilled [ ]

API #
30-015

Operator Name:	Property Name:	Well Number
COG Operating LLC	Boo Radley Com	702H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	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
A	21	26S	28E		10	North	1210	East	Eddy

Latitude	Longitude	NAD
32.035161	-104.087256	NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	33	26S	28E	4	330	South	1210	East	Eddy

Latitude	Longitude	NAD
32.000889	-104.087253	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

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

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

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 #702H	30-015-47348	O-16-26S-28E	0200S 1520E	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

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

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

Form APD Comments

Permit 285657

PERMIT COMMENTS

Operator Name and Address:	API Number:
COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701	30-015-47348
	Well: Boo Radley Com #702H

Created By	Comment	Comment Date

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

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

Form APD Conditions

Permit 285657

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701	30-015-47348
	Well: Boo Radley Com #702H

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 702H

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#	21,956’	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 22,956’ 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

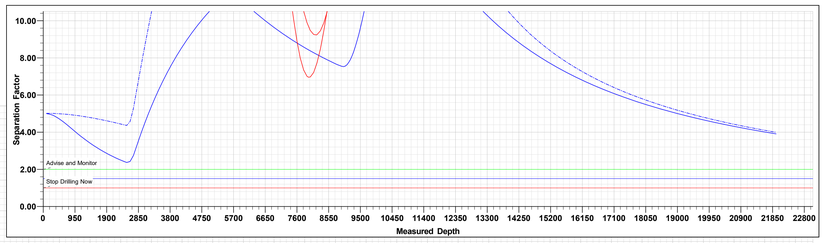
Project:	ATLAS PROSPECT (NM-E)
Site:	BOO RADLEY COM PROJECT
Well:	BOO RADLEY COM #702H
Wellbore:	OWB
Design:	PWP1
GL:	2994.7
KB=30' @ 3024.7usft (TBD)	

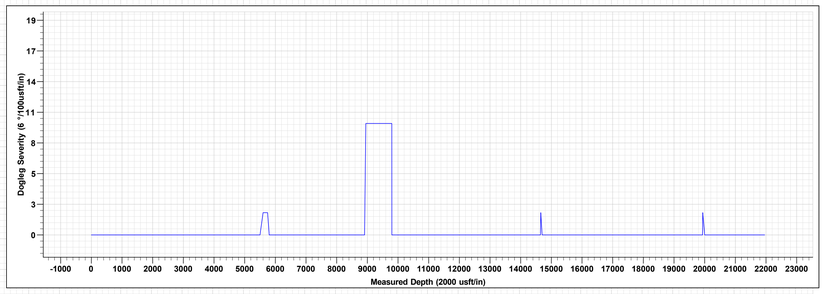
WELL DETAILS: BOO RADLEY COM #702H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	376770.50	576086.50	32° 2' 8.228 N	104° 5' 16.059 W

DESIGN TARGET DETAILS

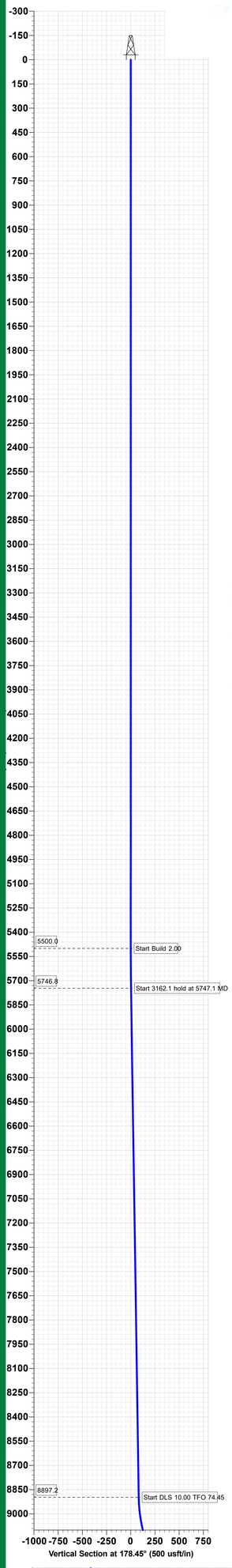
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LTP (BOO RADLEY COM #702H)	9400.0	-12677.8	347.2	364092.70	576433.70	32° 0' 2.753 N	104° 5' 12.361 W
PBHL (BOO RADLEY COM #702H)	9400.0	-12807.8	347.5	363962.70	576434.00	32° 0' 1.466 N	104° 5' 12.361 W
T2 (BOO RADLEY COM #702H)	9409.2	-10783.0	342.9	365987.48	576429.39	32° 0' 21.505 N	104° 5' 12.361 W
T1 (BOO RADLEY COM #702H)	9433.1	-5496.0	340.3	371274.52	576426.81	32° 1' 13.829 N	104° 5' 12.251 W
FTP (BOO RADLEY COM #702H)	9455.0	-211.0	318.3	376559.50	576404.80	32° 2' 6.133 N	104° 5' 12.367 W

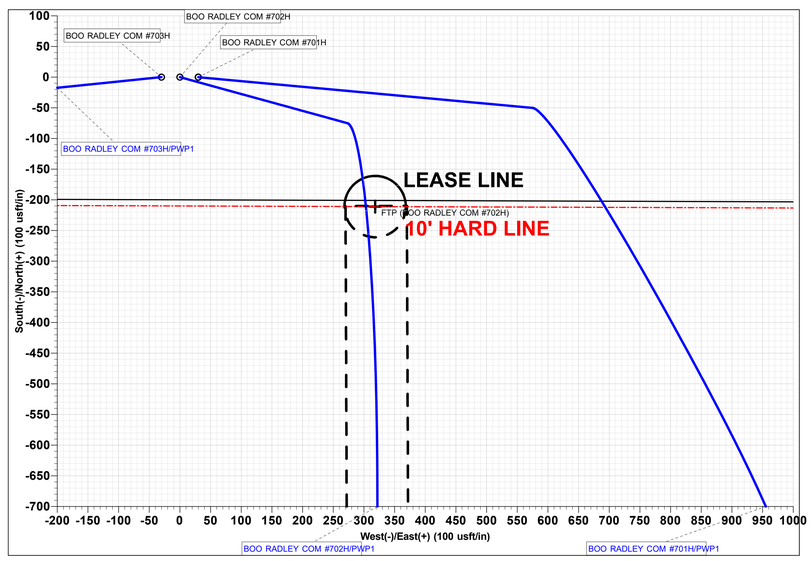


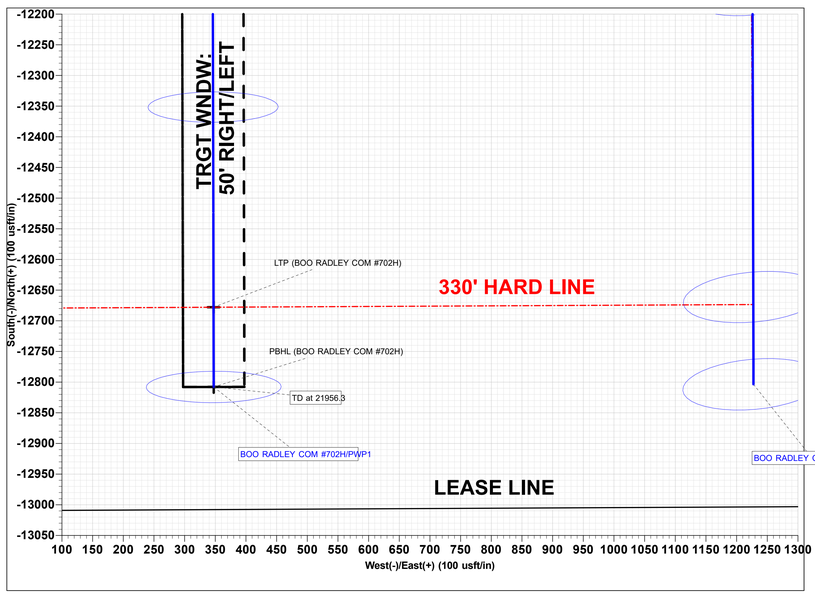


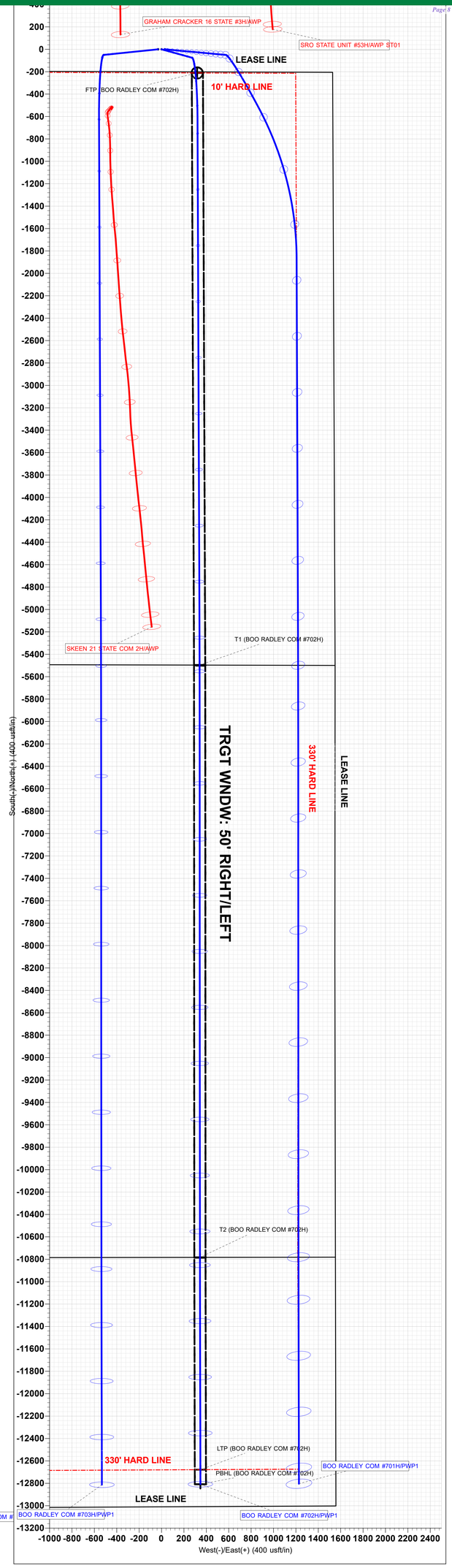
BOO RADLEY COM #702H

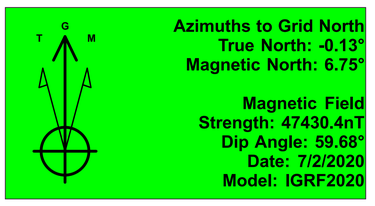
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
5500.0	0.00	0.00	5500.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
5747.1	4.94	105.36	5746.8	-2.8	10.3	2.00	105.36	3.1	Start 3162.1 hold at 5747.1 MD
8909.3	4.94	105.36	8897.2	-75.0	273.0	0.00	0.00	82.4	Start DLS 10.00 TFO 74.45
9798.6	90.26	179.78	9454.9	-650.2	321.9	10.00	74.45	658.7	Start 4845.9 hold at 9798.6 MD
14644.4	90.26	179.78	9433.1	-5496.0	340.3	0.00	0.00	5503.2	Start DLS 2.00 TFO 89.78
14654.0	90.26	179.97	9433.1	-5505.5	340.3	2.00	89.78	5512.7	Start 5277.6 hold at 14654.0 MD
19931.5	90.26	179.97	9409.2	-10783.0	342.9	0.00	0.00	10788.4	Start DLS 2.00 TFO -89.26
19936.7	90.26	179.87	9409.2	-10788.2	342.9	2.00	-89.26	10793.5	Start 2019.7 hold at 19936.7 MD
21956.3	90.26	179.87	9400.0	-12807.8	347.5	0.00	0.00	12812.5	TD at 21956.3











Azimuths to Grid North
True North: -0.13°
Magnetic North: 6.75°

Magnetic Field
Strength: 47430.4nT
Dip Angle: 59.68°
Date: 7/2/2020
Model: IGRF2020

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)
BOO RADLEY COM PROJECT
BOO RADLEY COM #702H

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 #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Well:	BOO RADLEY COM #702H	**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 #702H

Well Position	**+N/-S**	0.0 usft	**Northing:**	376,770.50 usft	**Latitude:**	32° 2' 8.228 N
	+E/-W	0.0 usft	**Easting:**	576,086.50 usft	**Longitude:**	104° 5' 16.059 W
Position Uncertainty		3.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	2,994.7 usft

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	7/2/2020	6.88	59.68	47,430.38840873

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	178.45

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

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	8,903.5	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
8,903.5	21,956.3	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 #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Well:	BOO RADLEY COM #702H	**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
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
5,600.0	2.00	105.36	5,600.0	-0.5	1.7	0.5	2.00	2.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Well:	BOO RADLEY COM #702H	**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)
5,700.0	4.00	105.36	5,699.8	-1.8	6.7	2.0	2.00	2.00	0.00
5,747.1	4.94	105.36	5,746.8	-2.8	10.3	3.1	2.00	2.00	0.00
Start 3162.1 hold at 5747.1 MD									
5,800.0	4.94	105.36	5,799.5	-4.0	14.7	4.4	0.00	0.00	0.00
5,900.0	4.94	105.36	5,899.1	-6.3	23.0	6.9	0.00	0.00	0.00
6,000.0	4.94	105.36	5,998.8	-8.6	31.3	9.4	0.00	0.00	0.00
6,100.0	4.94	105.36	6,098.4	-10.9	39.6	11.9	0.00	0.00	0.00
6,200.0	4.94	105.36	6,198.0	-13.2	47.9	14.5	0.00	0.00	0.00
6,300.0	4.94	105.36	6,297.6	-15.4	56.2	17.0	0.00	0.00	0.00
6,400.0	4.94	105.36	6,397.3	-17.7	64.5	19.5	0.00	0.00	0.00
6,500.0	4.94	105.36	6,496.9	-20.0	72.8	22.0	0.00	0.00	0.00
6,600.0	4.94	105.36	6,596.5	-22.3	81.1	24.5	0.00	0.00	0.00
6,700.0	4.94	105.36	6,696.1	-24.6	89.4	27.0	0.00	0.00	0.00
6,800.0	4.94	105.36	6,795.8	-26.9	97.8	29.5	0.00	0.00	0.00
6,900.0	4.94	105.36	6,895.4	-29.1	106.1	32.0	0.00	0.00	0.00
7,000.0	4.94	105.36	6,995.0	-31.4	114.4	34.5	0.00	0.00	0.00
7,100.0	4.94	105.36	7,094.7	-33.7	122.7	37.0	0.00	0.00	0.00
7,200.0	4.94	105.36	7,194.3	-36.0	131.0	39.5	0.00	0.00	0.00
7,300.0	4.94	105.36	7,293.9	-38.3	139.3	42.0	0.00	0.00	0.00
7,400.0	4.94	105.36	7,393.5	-40.5	147.6	44.5	0.00	0.00	0.00
7,500.0	4.94	105.36	7,493.2	-42.8	155.9	47.0	0.00	0.00	0.00
7,600.0	4.94	105.36	7,592.8	-45.1	164.2	49.6	0.00	0.00	0.00
7,700.0	4.94	105.36	7,692.4	-47.4	172.5	52.1	0.00	0.00	0.00
7,800.0	4.94	105.36	7,792.1	-49.7	180.8	54.6	0.00	0.00	0.00
7,900.0	4.94	105.36	7,891.7	-52.0	189.1	57.1	0.00	0.00	0.00
8,000.0	4.94	105.36	7,991.3	-54.2	197.5	59.6	0.00	0.00	0.00
8,100.0	4.94	105.36	8,090.9	-56.5	205.8	62.1	0.00	0.00	0.00
8,200.0	4.94	105.36	8,190.6	-58.8	214.1	64.6	0.00	0.00	0.00
8,300.0	4.94	105.36	8,290.2	-61.1	222.4	67.1	0.00	0.00	0.00
8,400.0	4.94	105.36	8,389.8	-63.4	230.7	69.6	0.00	0.00	0.00
8,500.0	4.94	105.36	8,489.5	-65.7	239.0	72.1	0.00	0.00	0.00
8,600.0	4.94	105.36	8,589.1	-67.9	247.3	74.6	0.00	0.00	0.00
8,700.0	4.94	105.36	8,688.7	-70.2	255.6	77.1	0.00	0.00	0.00
8,800.0	4.94	105.36	8,788.3	-72.5	263.9	79.6	0.00	0.00	0.00
8,900.0	4.94	105.36	8,888.0	-74.8	272.2	82.1	0.00	0.00	0.00
8,909.3	4.94	105.36	8,897.2	-75.0	273.0	82.4	0.00	0.00	0.00
Start DLS 10.00 TFO 74.45									
9,000.0	11.43	155.43	8,987.1	-84.2	280.5	91.8	10.00	7.15	55.18
9,100.0	20.93	167.18	9,083.0	-110.7	288.6	118.5	10.00	9.50	11.75
9,200.0	30.74	171.71	9,172.9	-153.5	296.3	161.5	10.00	9.81	4.53
9,300.0	40.63	174.19	9,254.0	-211.4	303.3	219.5	10.00	9.90	2.48
9,400.0	50.56	175.83	9,323.9	-282.4	309.4	290.7	10.00	9.93	1.64
9,500.0	60.51	177.06	9,380.4	-364.6	314.5	373.0	10.00	9.95	1.23
9,600.0	70.47	178.07	9,421.9	-455.4	318.3	463.9	10.00	9.96	1.01

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Well:	BOO RADLEY COM #702H	**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	80.43	178.96	9,447.0	-552.1	320.8	560.6	10.00	9.96	0.89
9,798.6	90.26	179.78	9,454.9	-650.2	321.9	658.7	10.00	9.97	0.84
Start 4845.9 hold at 9798.6 MD									
9,800.0	90.26	179.78	9,454.9	-651.6	321.9	660.1	0.00	0.00	0.00
9,900.0	90.26	179.78	9,454.5	-751.6	322.3	760.1	0.00	0.00	0.00
10,000.0	90.26	179.78	9,454.0	-851.6	322.6	860.1	0.00	0.00	0.00
10,100.0	90.26	179.78	9,453.6	-951.6	323.0	960.0	0.00	0.00	0.00
10,200.0	90.26	179.78	9,453.1	-1,051.6	323.4	1,060.0	0.00	0.00	0.00
10,300.0	90.26	179.78	9,452.7	-1,151.6	323.8	1,160.0	0.00	0.00	0.00
10,400.0	90.26	179.78	9,452.2	-1,251.6	324.2	1,259.9	0.00	0.00	0.00
10,500.0	90.26	179.78	9,451.8	-1,351.6	324.5	1,359.9	0.00	0.00	0.00
10,600.0	90.26	179.78	9,451.3	-1,451.6	324.9	1,459.9	0.00	0.00	0.00
10,700.0	90.26	179.78	9,450.9	-1,551.6	325.3	1,559.9	0.00	0.00	0.00
10,800.0	90.26	179.78	9,450.4	-1,651.6	325.7	1,659.8	0.00	0.00	0.00
10,900.0	90.26	179.78	9,450.0	-1,751.6	326.1	1,759.8	0.00	0.00	0.00
11,000.0	90.26	179.78	9,449.5	-1,851.6	326.4	1,859.8	0.00	0.00	0.00
11,100.0	90.26	179.78	9,449.1	-1,951.6	326.8	1,959.7	0.00	0.00	0.00
11,200.0	90.26	179.78	9,448.6	-2,051.6	327.2	2,059.7	0.00	0.00	0.00
11,300.0	90.26	179.78	9,448.2	-2,151.6	327.6	2,159.7	0.00	0.00	0.00
11,400.0	90.26	179.78	9,447.7	-2,251.6	328.0	2,259.7	0.00	0.00	0.00
11,500.0	90.26	179.78	9,447.3	-2,351.6	328.3	2,359.6	0.00	0.00	0.00
11,600.0	90.26	179.78	9,446.8	-2,451.6	328.7	2,459.6	0.00	0.00	0.00
11,700.0	90.26	179.78	9,446.4	-2,551.6	329.1	2,559.6	0.00	0.00	0.00
11,800.0	90.26	179.78	9,445.9	-2,651.6	329.5	2,659.5	0.00	0.00	0.00
11,900.0	90.26	179.78	9,445.5	-2,751.6	329.9	2,759.5	0.00	0.00	0.00
12,000.0	90.26	179.78	9,445.0	-2,851.6	330.2	2,859.5	0.00	0.00	0.00
12,100.0	90.26	179.78	9,444.6	-2,951.6	330.6	2,959.5	0.00	0.00	0.00
12,200.0	90.26	179.78	9,444.1	-3,051.6	331.0	3,059.4	0.00	0.00	0.00
12,300.0	90.26	179.78	9,443.7	-3,151.6	331.4	3,159.4	0.00	0.00	0.00
12,400.0	90.26	179.78	9,443.2	-3,251.6	331.8	3,259.4	0.00	0.00	0.00
12,500.0	90.26	179.78	9,442.8	-3,351.6	332.1	3,359.3	0.00	0.00	0.00
12,600.0	90.26	179.78	9,442.3	-3,451.6	332.5	3,459.3	0.00	0.00	0.00
12,700.0	90.26	179.78	9,441.9	-3,551.6	332.9	3,559.3	0.00	0.00	0.00
12,800.0	90.26	179.78	9,441.4	-3,651.6	333.3	3,659.3	0.00	0.00	0.00
12,900.0	90.26	179.78	9,441.0	-3,751.6	333.7	3,759.2	0.00	0.00	0.00
13,000.0	90.26	179.78	9,440.5	-3,851.6	334.0	3,859.2	0.00	0.00	0.00
13,100.0	90.26	179.78	9,440.1	-3,951.6	334.4	3,959.2	0.00	0.00	0.00
13,200.0	90.26	179.78	9,439.6	-4,051.6	334.8	4,059.1	0.00	0.00	0.00
13,300.0	90.26	179.78	9,439.2	-4,151.6	335.2	4,159.1	0.00	0.00	0.00
13,400.0	90.26	179.78	9,438.7	-4,251.6	335.6	4,259.1	0.00	0.00	0.00
13,500.0	90.26	179.78	9,438.3	-4,351.6	336.0	4,359.1	0.00	0.00	0.00
13,600.0	90.26	179.78	9,437.8	-4,451.6	336.3	4,459.0	0.00	0.00	0.00
13,700.0	90.26	179.78	9,437.4	-4,551.5	336.7	4,559.0	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Well:	BOO RADLEY COM #702H	**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)
13,800.0	90.26	179.78	9,436.9	-4,651.5	337.1	4,659.0	0.00	0.00	0.00
13,900.0	90.26	179.78	9,436.5	-4,751.5	337.5	4,759.0	0.00	0.00	0.00
14,000.0	90.26	179.78	9,436.0	-4,851.5	337.9	4,858.9	0.00	0.00	0.00
14,100.0	90.26	179.78	9,435.6	-4,951.5	338.2	4,958.9	0.00	0.00	0.00
14,200.0	90.26	179.78	9,435.1	-5,051.5	338.6	5,058.9	0.00	0.00	0.00
14,300.0	90.26	179.78	9,434.7	-5,151.5	339.0	5,158.8	0.00	0.00	0.00
14,400.0	90.26	179.78	9,434.2	-5,251.5	339.4	5,258.8	0.00	0.00	0.00
14,500.0	90.26	179.78	9,433.8	-5,351.5	339.8	5,358.8	0.00	0.00	0.00
14,600.0	90.26	179.78	9,433.3	-5,451.5	340.1	5,458.8	0.00	0.00	0.00
14,644.4	90.26	179.78	9,433.1	-5,496.0	340.3	5,503.2	0.00	0.00	0.00
Start DLS 2.00 TFO 89.78									
14,654.0	90.26	179.97	9,433.1	-5,505.5	340.3	5,512.7	2.00	0.01	2.00
Start 5277.6 hold at 14654.0 MD									
14,700.0	90.26	179.97	9,432.8	-5,551.5	340.4	5,558.7	0.00	0.00	0.00
14,800.0	90.26	179.97	9,432.4	-5,651.5	340.4	5,658.7	0.00	0.00	0.00
14,900.0	90.26	179.97	9,431.9	-5,751.5	340.4	5,758.6	0.00	0.00	0.00
15,000.0	90.26	179.97	9,431.5	-5,851.5	340.5	5,858.6	0.00	0.00	0.00
15,100.0	90.26	179.97	9,431.0	-5,951.5	340.5	5,958.6	0.00	0.00	0.00
15,200.0	90.26	179.97	9,430.6	-6,051.5	340.6	6,058.5	0.00	0.00	0.00
15,300.0	90.26	179.97	9,430.1	-6,151.5	340.6	6,158.5	0.00	0.00	0.00
15,400.0	90.26	179.97	9,429.7	-6,251.5	340.7	6,258.5	0.00	0.00	0.00
15,500.0	90.26	179.97	9,429.2	-6,351.5	340.7	6,358.4	0.00	0.00	0.00
15,600.0	90.26	179.97	9,428.8	-6,451.5	340.8	6,458.4	0.00	0.00	0.00
15,700.0	90.26	179.97	9,428.3	-6,551.5	340.8	6,558.4	0.00	0.00	0.00
15,800.0	90.26	179.97	9,427.9	-6,651.5	340.9	6,658.3	0.00	0.00	0.00
15,900.0	90.26	179.97	9,427.4	-6,751.5	340.9	6,758.3	0.00	0.00	0.00
16,000.0	90.26	179.97	9,427.0	-6,851.5	341.0	6,858.2	0.00	0.00	0.00
16,100.0	90.26	179.97	9,426.5	-6,951.5	341.0	6,958.2	0.00	0.00	0.00
16,200.0	90.26	179.97	9,426.1	-7,051.5	341.1	7,058.2	0.00	0.00	0.00
16,300.0	90.26	179.97	9,425.6	-7,151.5	341.1	7,158.1	0.00	0.00	0.00
16,400.0	90.26	179.97	9,425.2	-7,251.5	341.2	7,258.1	0.00	0.00	0.00
16,500.0	90.26	179.97	9,424.7	-7,351.5	341.2	7,358.1	0.00	0.00	0.00
16,600.0	90.26	179.97	9,424.3	-7,451.5	341.3	7,458.0	0.00	0.00	0.00
16,700.0	90.26	179.97	9,423.8	-7,551.5	341.3	7,558.0	0.00	0.00	0.00
16,800.0	90.26	179.97	9,423.4	-7,651.5	341.4	7,658.0	0.00	0.00	0.00
16,900.0	90.26	179.97	9,422.9	-7,751.5	341.4	7,757.9	0.00	0.00	0.00
17,000.0	90.26	179.97	9,422.5	-7,851.5	341.5	7,857.9	0.00	0.00	0.00
17,100.0	90.26	179.97	9,422.0	-7,951.5	341.5	7,957.8	0.00	0.00	0.00
17,200.0	90.26	179.97	9,421.5	-8,051.5	341.6	8,057.8	0.00	0.00	0.00
17,300.0	90.26	179.97	9,421.1	-8,151.5	341.6	8,157.8	0.00	0.00	0.00
17,400.0	90.26	179.97	9,420.6	-8,251.5	341.7	8,257.7	0.00	0.00	0.00
17,500.0	90.26	179.97	9,420.2	-8,351.5	341.7	8,357.7	0.00	0.00	0.00
17,600.0	90.26	179.97	9,419.7	-8,451.5	341.8	8,457.7	0.00	0.00	0.00
17,700.0	90.26	179.97	9,419.3	-8,551.5	341.8	8,557.6	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Well:	BOO RADLEY COM #702H	**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)
17,800.0	90.26	179.97	9,418.8	-8,651.5	341.9	8,657.6	0.00	0.00	0.00
17,900.0	90.26	179.97	9,418.4	-8,751.5	341.9	8,757.6	0.00	0.00	0.00
18,000.0	90.26	179.97	9,417.9	-8,851.5	342.0	8,857.5	0.00	0.00	0.00
18,100.0	90.26	179.97	9,417.5	-8,951.5	342.0	8,957.5	0.00	0.00	0.00
18,200.0	90.26	179.97	9,417.0	-9,051.5	342.0	9,057.4	0.00	0.00	0.00
18,300.0	90.26	179.97	9,416.6	-9,151.5	342.1	9,157.4	0.00	0.00	0.00
18,400.0	90.26	179.97	9,416.1	-9,251.5	342.1	9,257.4	0.00	0.00	0.00
18,500.0	90.26	179.97	9,415.7	-9,351.5	342.2	9,357.3	0.00	0.00	0.00
18,600.0	90.26	179.97	9,415.2	-9,451.5	342.2	9,457.3	0.00	0.00	0.00
18,700.0	90.26	179.97	9,414.8	-9,551.5	342.3	9,557.3	0.00	0.00	0.00
18,800.0	90.26	179.97	9,414.3	-9,651.5	342.3	9,657.2	0.00	0.00	0.00
18,900.0	90.26	179.97	9,413.9	-9,751.5	342.4	9,757.2	0.00	0.00	0.00
19,000.0	90.26	179.97	9,413.4	-9,851.5	342.4	9,857.2	0.00	0.00	0.00
19,100.0	90.26	179.97	9,413.0	-9,951.5	342.5	9,957.1	0.00	0.00	0.00
19,200.0	90.26	179.97	9,412.5	-10,051.5	342.5	10,057.1	0.00	0.00	0.00
19,300.0	90.26	179.97	9,412.1	-10,151.5	342.6	10,157.0	0.00	0.00	0.00
19,400.0	90.26	179.97	9,411.6	-10,251.5	342.6	10,257.0	0.00	0.00	0.00
19,500.0	90.26	179.97	9,411.2	-10,351.5	342.7	10,357.0	0.00	0.00	0.00
19,600.0	90.26	179.97	9,410.7	-10,451.5	342.7	10,456.9	0.00	0.00	0.00
19,700.0	90.26	179.97	9,410.2	-10,551.5	342.8	10,556.9	0.00	0.00	0.00
19,800.0	90.26	179.97	9,409.8	-10,651.5	342.8	10,656.9	0.00	0.00	0.00
19,900.0	90.26	179.97	9,409.3	-10,751.5	342.9	10,756.8	0.00	0.00	0.00
19,931.5	90.26	179.97	9,409.2	-10,783.0	342.9	10,788.4	0.00	0.00	0.00
Start DLS 2.00 TFO -89.26									
19,936.7	90.26	179.87	9,409.2	-10,788.2	342.9	10,793.5	2.00	0.03	-2.00
Start 2019.7 hold at 19936.7 MD									
20,000.0	90.26	179.87	9,408.9	-10,851.5	343.0	10,856.8	0.00	0.00	0.00
20,100.0	90.26	179.87	9,408.4	-10,951.5	343.3	10,956.8	0.00	0.00	0.00
20,200.0	90.26	179.87	9,408.0	-11,051.5	343.5	11,056.7	0.00	0.00	0.00
20,300.0	90.26	179.87	9,407.5	-11,151.5	343.7	11,156.7	0.00	0.00	0.00
20,400.0	90.26	179.87	9,407.1	-11,251.5	344.0	11,256.7	0.00	0.00	0.00
20,500.0	90.26	179.87	9,406.6	-11,351.5	344.2	11,356.6	0.00	0.00	0.00
20,600.0	90.26	179.87	9,406.2	-11,451.5	344.4	11,456.6	0.00	0.00	0.00
20,700.0	90.26	179.87	9,405.7	-11,551.5	344.6	11,556.6	0.00	0.00	0.00
20,800.0	90.26	179.87	9,405.3	-11,651.5	344.9	11,656.5	0.00	0.00	0.00
20,900.0	90.26	179.87	9,404.8	-11,751.5	345.1	11,756.5	0.00	0.00	0.00
21,000.0	90.26	179.87	9,404.3	-11,851.5	345.3	11,856.5	0.00	0.00	0.00
21,100.0	90.26	179.87	9,403.9	-11,951.5	345.5	11,956.4	0.00	0.00	0.00
21,200.0	90.26	179.87	9,403.4	-12,051.5	345.8	12,056.4	0.00	0.00	0.00
21,300.0	90.26	179.87	9,403.0	-12,151.5	346.0	12,156.4	0.00	0.00	0.00
21,400.0	90.26	179.87	9,402.5	-12,251.5	346.2	12,256.3	0.00	0.00	0.00
21,500.0	90.26	179.87	9,402.1	-12,351.5	346.5	12,356.3	0.00	0.00	0.00
21,600.0	90.26	179.87	9,401.6	-12,451.5	346.7	12,456.3	0.00	0.00	0.00
21,700.0	90.26	179.87	9,401.2	-12,551.5	346.9	12,556.2	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Well:	BOO RADLEY COM #702H	**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)
21,800.0	90.26	179.87	9,400.7	-12,651.5	347.1	12,656.2	0.00	0.00	0.00
21,900.0	90.26	179.87	9,400.3	-12,751.5	347.4	12,756.2	0.00	0.00	0.00
21,956.3	90.26	179.87	9,400.0	-12,807.8	347.5	12,812.5	0.00	0.00	0.00
TD at 21956.3									

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	9,400.0	-12,677.8	347.2	364,092.70	576,433.70	32° 0' 2.753 N	104° 5' 12.361 W
- plan misses target center by 0.6usft at 21826.3usft MD (9400.6 TVD, -12677.8 N, 347.2 E)									
- Point									
PBHL (BOO RADLEY	0.26	359.87	9,400.0	-12,807.8	347.5	363,962.70	576,434.00	32° 0' 1.466 N	104° 5' 12.361 W
- plan hits target center									
- Rectangle (sides W100.0 H2,022.0 D20.0)									
T2 (BOO RADLEY CC	0.26	359.97	9,409.2	-10,783.0	342.9	365,987.48	576,429.39	32° 0' 21.505 N	104° 5' 12.361 W
- plan hits target center									
- Rectangle (sides W100.0 H5,282.0 D20.0)									
T1 (BOO RADLEY CC	0.26	359.78	9,433.1	-5,496.0	340.3	371,274.52	576,426.81	32° 1' 13.829 N	104° 5' 12.251 W
- plan hits target center									
- Rectangle (sides W100.0 H5,286.0 D20.0)									
FTP (BOO RADLEY C	0.00	0.00	9,455.0	-211.0	318.3	376,559.50	576,404.80	32° 2' 6.133 N	104° 5' 12.367 W
- plan misses target center by 147.5usft at 9415.8usft MD (9333.8 TVD, -294.8 N, 310.3 E)									
- Circle (radius 50.0)									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
5500	5500	0	0	Start Build 2.00
5747	5747	-3	10	Start 3162.1 hold at 5747.1 MD
8909	8897	-75	273	Start DLS 10.00 TFO 74.45
9799	9455	-650	322	Start 4845.9 hold at 9798.6 MD
14,644	9433	-5496	340	Start DLS 2.00 TFO 89.78
14,654	9433	-5505	340	Start 5277.6 hold at 14654.0 MD
19,932	9409	-10,783	343	Start DLS 2.00 TFO -89.26
19,937	9409	-10,788	343	Start 2019.7 hold at 19936.7 MD
21,956	9400	-12,808	347	TD at 21956.3

Checked By: _____ Approved By: _____ Date: _____

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)
BOO RADLEY COM PROJECT
BOO RADLEY COM #702H

OWB
PWP1

Anticollision Report

12 August, 2020

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	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	8,903.5	PWP1 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
8,903.5	21,956.3	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 #701H - OWB - PWP1	2,500.0	2,495.2	30.0	17.3	2.368	CC, ES, SF
BOO RADLEY COM #703H - OWB - PWP1	2,416.6	2,416.9	30.1	23.3	4.401	CC
BOO RADLEY COM #703H - OWB - PWP1	2,500.0	2,500.0	30.1	23.2	4.365	ES
BOO RADLEY COM #703H - OWB - PWP1	21,956.3	22,022.8	880.4	660.0	3.994	SF
SKEEN 21 STATE COM 2H - OWB - AWP	3,102.9	3,118.5	680.0	664.0	42.358	CC
SKEEN 21 STATE COM 2H - OWB - AWP	3,300.0	3,315.1	680.2	663.4	40.331	ES
SKEEN 21 STATE COM 2H - OWB - AWP	6,200.0	6,190.3	758.5	729.4	26.058	SF
HONEY GRAHAM STATE PROJECT (ATLAS 2628)						
GRAHAM CRACKER 16 STATE #3H - OWB - AWP	7,939.5	12,520.0	590.5	505.7	6.963	CC, ES, SF
SRO STATE PROJECT (ATLAS 2628)						
SRO STATE UNIT #53H - ST01 - AWP ST01	8,180.7	12,617.0	818.1	729.6	9.237	CC, ES, SF

Offset Design BOO RADLEY COM PROJECT - BOO RADLEY COM #701H - 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	-0.1	30.0	30.4				
100.0	100.0	95.2	95.2	3.0	3.0	90.19	-0.1	30.0	30.0	24.0	6.00	4.998	
200.0	200.0	195.2	195.2	3.0	3.0	90.19	-0.1	30.0	30.0	24.0	6.04	4.968	
300.0	300.0	295.2	295.2	3.0	3.1	90.19	-0.1	30.0	30.0	23.9	6.12	4.904	
400.0	400.0	395.2	395.2	3.0	3.2	90.19	-0.1	30.0	30.0	23.8	6.24	4.810	
500.0	500.0	495.2	495.2	3.1	3.4	90.19	-0.1	30.0	30.0	23.6	6.39	4.694	
600.0	600.0	595.2	595.2	3.1	3.6	90.19	-0.1	30.0	30.0	23.4	6.58	4.560	
700.0	700.0	695.2	695.2	3.1	3.8	90.19	-0.1	30.0	30.0	23.2	6.79	4.417	
800.0	800.0	795.2	795.2	3.2	4.0	90.19	-0.1	30.0	30.0	23.0	7.03	4.268	
900.0	900.0	895.2	895.2	3.2	4.2	90.19	-0.1	30.0	30.0	22.7	7.29	4.117	
1,000.0	1,000.0	995.2	995.2	3.2	4.5	90.19	-0.1	30.0	30.0	22.4	7.56	3.968	
1,100.0	1,100.0	1,095.2	1,095.2	3.3	4.8	90.19	-0.1	30.0	30.0	22.2	7.85	3.822	
1,200.0	1,200.0	1,195.2	1,195.2	3.4	5.0	90.19	-0.1	30.0	30.0	21.9	8.15	3.681	
1,300.0	1,300.0	1,295.2	1,295.2	3.4	5.3	90.19	-0.1	30.0	30.0	21.5	8.46	3.546	

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 #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - BOO RADLEY COM #701H - 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
1,400.0	1,400.0	1,395.2	1,395.2	3.5	5.6	90.19	-0.1	30.0	30.0	21.2	8.78	3.416	
1,500.0	1,500.0	1,495.2	1,495.2	3.5	5.9	90.19	-0.1	30.0	30.0	20.9	9.11	3.293	
1,600.0	1,600.0	1,595.2	1,595.2	3.6	6.3	90.19	-0.1	30.0	30.0	20.6	9.44	3.177	
1,700.0	1,700.0	1,695.2	1,695.2	3.7	6.6	90.19	-0.1	30.0	30.0	20.2	9.79	3.066	
1,800.0	1,800.0	1,795.2	1,795.2	3.8	6.9	90.19	-0.1	30.0	30.0	19.9	10.13	2.961	
1,900.0	1,900.0	1,895.2	1,895.2	3.9	7.2	90.19	-0.1	30.0	30.0	19.5	10.48	2.862	
2,000.0	2,000.0	1,995.2	1,995.2	3.9	7.5	90.19	-0.1	30.0	30.0	19.2	10.84	2.768	
2,100.0	2,100.0	2,095.2	2,095.2	4.0	7.9	90.19	-0.1	30.0	30.0	18.8	11.20	2.679	
2,200.0	2,200.0	2,195.2	2,195.2	4.1	8.2	90.19	-0.1	30.0	30.0	18.4	11.56	2.595	
2,300.0	2,300.0	2,295.2	2,295.2	4.2	8.5	90.19	-0.1	30.0	30.0	18.1	11.93	2.515	
2,400.0	2,400.0	2,395.2	2,395.2	4.3	8.9	90.19	-0.1	30.0	30.0	17.7	12.30	2.440	
2,500.0	2,500.0	2,495.2	2,495.2	4.4	9.2	90.19	-0.1	30.0	30.0	17.3	12.67	2.368	CC, ES, SF
2,600.0	2,600.0	2,594.2	2,594.2	4.5	9.5	90.44	-0.2	31.5	31.6	18.5	13.03	2.423	
2,700.0	2,700.0	2,692.9	2,692.7	4.6	9.9	91.09	-0.7	36.5	36.6	23.2	13.37	2.735	
2,800.0	2,800.0	2,791.8	2,791.3	4.7	10.2	91.84	-1.4	44.5	44.6	30.9	13.71	3.256	
2,900.0	2,900.0	2,891.4	2,890.6	4.8	10.5	92.39	-2.2	53.0	53.3	39.2	14.08	3.785	
3,000.0	3,000.0	2,991.1	2,989.8	4.9	10.9	92.79	-3.0	61.6	61.9	47.5	14.45	4.287	
3,100.0	3,100.0	3,090.7	3,089.1	5.0	11.2	93.09	-3.8	70.2	70.6	55.8	14.82	4.762	
3,200.0	3,200.0	3,190.3	3,188.4	5.1	11.5	93.32	-4.6	78.8	79.2	64.0	15.19	5.214	
3,300.0	3,300.0	3,289.9	3,287.6	5.2	11.9	93.51	-5.4	87.4	87.9	72.3	15.57	5.643	
3,400.0	3,400.0	3,389.6	3,386.9	5.3	12.2	93.67	-6.2	96.0	96.5	80.6	15.95	6.051	
3,500.0	3,500.0	3,489.2	3,486.1	5.4	12.5	93.80	-6.9	104.5	105.2	88.8	16.33	6.439	
3,600.0	3,600.0	3,588.8	3,585.4	5.5	12.9	93.91	-7.7	113.1	113.8	97.1	16.72	6.808	
3,700.0	3,700.0	3,688.4	3,684.6	5.7	13.2	94.00	-8.5	121.7	122.5	105.4	17.10	7.160	
3,800.0	3,800.0	3,788.1	3,783.9	5.8	13.6	94.08	-9.3	130.3	131.1	113.6	17.49	7.495	
3,900.0	3,900.0	3,887.7	3,883.1	5.9	13.9	94.15	-10.1	138.9	139.8	121.9	17.88	7.816	
4,000.0	4,000.0	3,987.3	3,982.4	6.0	14.2	94.22	-10.9	147.5	148.4	130.1	18.27	8.122	
4,100.0	4,100.0	4,086.9	4,081.6	6.1	14.6	94.27	-11.7	156.0	157.1	138.4	18.67	8.414	
4,200.0	4,200.0	4,186.6	4,180.9	6.2	14.9	94.33	-12.5	164.6	165.7	146.6	19.06	8.693	
4,300.0	4,300.0	4,286.2	4,280.1	6.3	15.3	94.37	-13.2	173.2	174.4	154.9	19.46	8.961	
4,400.0	4,400.0	4,385.8	4,379.4	6.5	15.6	94.41	-14.0	181.8	183.0	163.2	19.86	9.217	
4,500.0	4,500.0	4,485.4	4,478.6	6.6	16.0	94.45	-14.8	190.4	191.7	171.4	20.25	9.463	
4,600.0	4,600.0	4,585.1	4,577.9	6.7	16.3	94.48	-15.6	198.9	200.3	179.7	20.65	9.698	
4,700.0	4,700.0	4,684.7	4,677.1	6.8	16.7	94.51	-16.4	207.5	209.0	187.9	21.06	9.924	
4,800.0	4,800.0	4,784.3	4,776.4	6.9	17.0	94.54	-17.2	216.1	217.6	196.2	21.46	10.141	
4,900.0	4,900.0	4,883.9	4,875.6	7.0	17.4	94.57	-18.0	224.7	226.3	204.4	21.86	10.349	
5,000.0	5,000.0	4,983.6	4,974.9	7.2	17.7	94.60	-18.7	233.3	234.9	212.6	22.27	10.550	
5,100.0	5,100.0	5,083.2	5,074.1	7.3	18.1	94.62	-19.5	241.9	243.6	220.9	22.67	10.743	
5,200.0	5,200.0	5,182.8	5,173.4	7.4	18.4	94.64	-20.3	250.4	252.2	229.1	23.08	10.928	
5,300.0	5,300.0	5,282.4	5,272.6	7.5	18.8	94.66	-21.1	259.0	260.9	237.4	23.49	11.107	
5,400.0	5,400.0	5,382.1	5,371.9	7.6	19.1	94.68	-21.9	267.6	269.5	245.6	23.90	11.279	
5,500.0	5,500.0	5,481.7	5,471.1	7.8	19.5	94.70	-22.7	276.2	278.2	253.9	24.30	11.445	
5,600.0	5,600.0	5,581.4	5,570.5	7.8	19.8	-10.69	-23.5	284.8	285.1	260.4	24.71	11.539	
5,700.0	5,699.8	5,681.4	5,670.1	7.8	20.2	-10.85	-24.3	293.4	288.6	263.5	25.11	11.495	
5,747.1	5,746.8	5,728.5	5,717.0	7.9	20.4	-10.98	-24.6	297.5	289.1	263.8	25.30	11.428	
5,800.0	5,799.5	5,781.4	5,769.7	7.9	20.6	-11.13	-25.1	302.0	289.2	263.7	25.51	11.336	
5,900.0	5,899.1	5,881.4	5,869.3	7.9	20.9	-11.43	-25.8	310.6	289.4	263.5	25.92	11.166	
6,000.0	5,998.8	5,981.3	5,968.9	7.9	21.3	-11.73	-26.6	319.2	289.6	263.3	26.33	10.999	
6,100.0	6,098.4	6,081.3	6,068.5	7.9	21.6	-12.03	-27.4	327.9	289.8	263.1	26.75	10.836	
6,200.0	6,198.0	6,181.3	6,168.1	8.0	22.0	-12.33	-28.2	336.5	290.0	262.9	27.17	10.676	
6,300.0	6,297.6	6,281.3	6,267.7	8.0	22.3	-12.62	-29.0	345.1	290.3	262.7	27.59	10.520	
6,400.0	6,397.3	6,381.3	6,367.4	8.0	22.7	-12.92	-29.8	353.7	290.5	262.5	28.02	10.368	

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 #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - BOO RADLEY COM #701H - 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
6,500.0	6,496.9	6,481.3	6,467.0	8.0	23.0	-13.22	-30.6	362.3	290.8	262.3	28.45	10.220	
6,600.0	6,596.5	6,581.3	6,566.6	8.1	23.4	-13.51	-31.4	370.9	291.0	262.1	28.89	10.075	
6,700.0	6,696.1	6,681.3	6,666.2	8.1	23.8	-13.81	-32.2	379.5	291.3	262.0	29.33	9.933	
6,800.0	6,795.8	6,781.2	6,765.8	8.1	24.1	-14.10	-33.0	388.2	291.6	261.8	29.77	9.795	
6,900.0	6,895.4	6,881.2	6,865.4	8.2	24.5	-14.40	-33.7	396.8	291.8	261.6	30.21	9.660	
7,000.0	6,995.0	6,981.2	6,965.0	8.2	24.8	-14.69	-34.5	405.4	292.1	261.5	30.66	9.528	
7,100.0	7,094.7	7,081.2	7,064.7	8.3	25.2	-14.98	-35.3	414.0	292.4	261.3	31.11	9.400	
7,200.0	7,194.3	7,181.2	7,164.3	8.3	25.6	-15.28	-36.1	422.6	292.7	261.2	31.56	9.275	
7,300.0	7,293.9	7,281.2	7,263.9	8.4	25.9	-15.57	-36.9	431.2	293.0	261.0	32.01	9.153	
7,400.0	7,393.5	7,381.2	7,363.5	8.4	26.3	-15.86	-37.7	439.8	293.3	260.9	32.47	9.034	
7,500.0	7,493.2	7,481.2	7,463.1	8.5	26.6	-16.15	-38.5	448.5	293.7	260.7	32.93	8.918	
7,600.0	7,592.8	7,581.2	7,562.7	8.5	27.0	-16.44	-39.3	457.1	294.0	260.6	33.39	8.805	
7,700.0	7,692.4	7,681.1	7,662.3	8.6	27.3	-16.73	-40.1	465.7	294.3	260.5	33.85	8.694	
7,800.0	7,792.1	7,781.1	7,762.0	8.6	27.7	-17.02	-40.9	474.3	294.7	260.4	34.32	8.587	
7,900.0	7,891.7	7,881.1	7,861.6	8.7	28.1	-17.31	-41.7	482.9	295.0	260.2	34.78	8.482	
8,000.0	7,991.3	7,981.1	7,961.2	8.8	28.4	-17.59	-42.4	491.5	295.4	260.1	35.25	8.379	
8,100.0	8,090.9	8,081.1	8,060.8	8.8	28.8	-17.88	-43.2	500.1	295.8	260.0	35.72	8.280	
8,200.0	8,190.6	8,181.1	8,160.4	8.9	29.1	-18.17	-44.0	508.8	296.1	259.9	36.19	8.182	
8,300.0	8,290.2	8,281.1	8,260.0	9.0	29.5	-18.45	-44.8	517.4	296.5	259.9	36.67	8.087	
8,400.0	8,389.8	8,381.1	8,359.6	9.0	29.9	-18.73	-45.6	526.0	296.9	259.8	37.14	7.995	
8,500.0	8,489.5	8,481.1	8,459.2	9.1	30.2	-19.02	-46.4	534.6	297.3	259.7	37.61	7.904	
8,600.0	8,589.1	8,581.0	8,558.9	9.2	30.6	-19.30	-47.2	543.2	297.7	259.6	38.09	7.816	
8,700.0	8,688.7	8,681.0	8,658.5	9.3	30.9	-19.58	-48.0	551.8	298.1	259.6	38.57	7.730	
8,800.0	8,788.3	8,781.0	8,758.1	9.3	31.3	-19.86	-48.8	560.4	298.6	259.5	39.04	7.647	
8,909.3	8,897.2	8,890.3	8,866.9	9.4	31.7	-20.17	-49.6	569.8	299.0	259.5	39.51	7.569	
8,950.0	8,937.7	8,930.9	8,907.5	9.4	31.9	-53.48	-49.9	573.4	299.3	259.6	39.68	7.544	
9,000.0	8,987.1	8,975.6	8,952.0	9.4	32.0	-71.09	-50.8	577.5	300.4	260.5	39.89	7.530	
9,050.0	9,035.6	9,017.3	8,993.2	9.4	32.2	-79.27	-54.1	582.6	303.2	263.1	40.10	7.561	
9,100.0	9,083.0	9,059.2	9,034.0	9.4	32.3	-84.00	-60.1	589.1	307.9	267.6	40.33	7.634	
9,150.0	9,128.9	9,100.0	9,073.3	9.5	32.5	-87.08	-68.5	596.8	314.6	274.0	40.59	7.750	
9,200.0	9,172.9	9,143.0	9,113.6	9.5	32.6	-89.31	-80.1	606.2	323.1	282.2	40.86	7.906	
9,250.0	9,214.7	9,184.9	9,151.7	9.6	32.8	-90.90	-93.9	616.6	333.5	292.3	41.15	8.103	
9,300.0	9,254.0	9,226.8	9,188.6	9.6	32.9	-92.03	-110.3	628.2	345.6	304.2	41.45	8.338	
9,350.0	9,290.5	9,268.8	9,223.8	9.7	33.0	-92.81	-129.0	641.0	359.5	317.8	41.76	8.608	
9,400.0	9,323.9	9,310.7	9,257.3	9.8	33.2	-93.27	-150.0	654.8	375.0	332.9	42.08	8.911	
9,450.0	9,354.0	9,352.6	9,289.0	9.8	33.3	-93.47	-173.2	669.6	392.0	349.6	42.40	9.244	
9,500.0	9,380.4	9,394.5	9,318.5	9.9	33.5	-93.41	-198.5	685.3	410.3	367.6	42.73	9.604	
9,550.0	9,403.1	9,436.6	9,345.9	10.0	33.6	-93.14	-225.7	701.9	430.0	386.9	43.05	9.988	
9,600.0	9,421.9	9,478.9	9,371.0	10.1	33.7	-92.67	-254.9	719.3	450.7	407.3	43.36	10.393	
9,650.0	9,436.5	9,521.4	9,393.6	10.2	33.9	-92.03	-286.0	737.5	472.4	428.7	43.68	10.816	
9,700.0	9,447.0	9,564.3	9,413.7	10.3	34.0	-91.23	-318.8	756.4	495.0	451.0	43.98	11.254	
9,750.0	9,453.1	9,607.8	9,431.2	10.4	34.1	-90.30	-353.5	776.1	518.2	473.9	44.28	11.704	
9,798.6	9,454.9	9,650.8	9,445.4	10.5	34.2	-89.28	-388.8	795.8	541.3	496.7	44.55	12.150	
9,800.0	9,454.9	9,652.0	9,445.8	10.5	34.2	-89.33	-389.9	796.4	542.0	497.4	44.56	12.163	
9,900.0	9,454.5	9,745.8	9,465.8	10.8	34.5	-91.64	-470.2	840.3	589.8	544.7	45.12	13.072	
10,000.0	9,454.0	9,847.9	9,470.9	11.2	34.7	-92.06	-560.2	888.0	636.4	590.7	45.72	13.919	
10,100.0	9,453.6	9,964.7	9,470.4	11.6	34.9	-91.89	-665.1	939.4	680.0	633.6	46.41	14.653	
10,200.0	9,453.1	10,086.1	9,469.8	12.1	35.3	-91.74	-776.2	988.2	719.9	672.7	47.18	15.258	
10,300.0	9,452.7	10,211.8	9,469.2	12.7	35.6	-91.63	-893.3	1,033.8	755.8	707.8	48.04	15.734	
10,400.0	9,452.2	10,341.6	9,468.6	13.3	36.0	-91.54	-1,016.3	1,075.4	787.5	738.5	48.96	16.084	
10,500.0	9,451.8	10,475.1	9,468.0	14.0	36.4	-91.46	-1,144.6	1,112.3	814.8	764.9	49.94	16.314	
10,600.0	9,451.3	10,612.0	9,467.4	14.7	36.8	-91.40	-1,277.7	1,143.9	837.5	786.6	50.97	16.433	

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 #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - BOO RADLEY COM #701H - 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
10,700.0	9,450.9	10,751.6	9,466.7	15.4	37.3	-91.36	-1,414.9	1,169.6	855.6	803.5	52.02	16.446	
10,800.0	9,450.4	10,893.4	9,466.0	16.1	37.8	-91.33	-1,555.4	1,188.8	868.7	815.6	53.09	16.364	
10,900.0	9,450.0	11,036.7	9,465.4	16.9	38.3	-91.31	-1,698.2	1,201.1	876.9	822.8	54.15	16.195	
11,000.0	9,449.5	11,180.9	9,464.7	17.6	38.8	-91.30	-1,842.2	1,206.3	880.2	825.0	55.19	15.947	
11,100.0	9,449.1	11,287.0	9,464.2	18.4	39.2	-91.30	-1,948.3	1,206.8	880.2	823.9	56.32	15.630	
11,200.0	9,448.6	11,387.0	9,463.7	19.1	39.6	-91.30	-2,048.3	1,207.2	880.2	822.7	57.48	15.315	
11,300.0	9,448.2	11,487.0	9,463.3	19.9	40.0	-91.30	-2,148.3	1,207.6	880.2	821.6	58.66	15.006	
11,400.0	9,447.7	11,587.0	9,462.8	20.7	40.4	-91.30	-2,248.3	1,207.9	880.2	820.3	59.86	14.704	
11,500.0	9,447.3	11,687.0	9,462.4	21.5	40.8	-91.29	-2,348.3	1,208.3	880.2	819.1	61.08	14.410	
11,600.0	9,446.8	11,787.0	9,461.9	22.3	41.2	-91.29	-2,448.3	1,208.7	880.2	817.9	62.32	14.123	
11,700.0	9,446.4	11,887.0	9,461.4	23.1	41.7	-91.29	-2,548.3	1,209.1	880.2	816.6	63.58	13.843	
11,800.0	9,445.9	11,987.0	9,461.0	23.9	42.1	-91.29	-2,648.3	1,209.5	880.2	815.3	64.86	13.571	
11,900.0	9,445.5	12,087.0	9,460.5	24.7	42.6	-91.29	-2,748.3	1,209.8	880.2	814.1	66.15	13.306	
12,000.0	9,445.0	12,187.0	9,460.0	25.5	43.1	-91.29	-2,848.3	1,210.2	880.2	812.7	67.46	13.048	
12,100.0	9,444.6	12,287.0	9,459.6	26.3	43.6	-91.29	-2,948.3	1,210.6	880.2	811.4	68.78	12.797	
12,200.0	9,444.1	12,387.0	9,459.1	27.2	44.1	-91.29	-3,048.3	1,211.0	880.2	810.1	70.12	12.553	
12,300.0	9,443.7	12,487.0	9,458.7	28.0	44.6	-91.29	-3,148.3	1,211.4	880.2	808.7	71.47	12.316	
12,400.0	9,443.2	12,587.0	9,458.2	28.8	45.2	-91.29	-3,248.3	1,211.7	880.2	807.4	72.83	12.086	
12,500.0	9,442.8	12,687.0	9,457.7	29.6	45.7	-91.29	-3,348.3	1,212.1	880.2	806.0	74.21	11.862	
12,600.0	9,442.3	12,787.0	9,457.3	30.5	46.2	-91.29	-3,448.3	1,212.5	880.2	804.6	75.59	11.644	
12,700.0	9,441.9	12,887.0	9,456.8	31.3	46.8	-91.29	-3,548.3	1,212.9	880.2	803.2	76.99	11.433	
12,800.0	9,441.4	12,987.0	9,456.3	32.1	47.4	-91.28	-3,648.3	1,213.3	880.2	801.8	78.40	11.228	
12,900.0	9,441.0	13,087.0	9,455.9	32.9	47.9	-91.28	-3,748.3	1,213.7	880.2	800.4	79.81	11.028	
13,000.0	9,440.5	13,187.0	9,455.4	33.8	48.5	-91.28	-3,848.3	1,214.0	880.2	799.0	81.24	10.835	
13,100.0	9,440.1	13,287.0	9,455.0	34.6	49.1	-91.28	-3,948.3	1,214.4	880.2	797.5	82.68	10.646	
13,200.0	9,439.6	13,387.0	9,454.5	35.4	49.7	-91.28	-4,048.3	1,214.8	880.2	796.1	84.12	10.463	
13,300.0	9,439.2	13,487.0	9,454.0	36.3	50.3	-91.28	-4,148.3	1,215.2	880.2	794.6	85.58	10.285	
13,400.0	9,438.7	13,587.0	9,453.6	37.1	50.9	-91.28	-4,248.3	1,215.6	880.2	793.2	87.04	10.113	
13,500.0	9,438.3	13,687.0	9,453.1	38.0	51.5	-91.28	-4,348.3	1,215.9	880.2	791.7	88.51	9.945	
13,600.0	9,437.8	13,787.0	9,452.7	38.8	52.2	-91.28	-4,448.3	1,216.3	880.2	790.2	89.99	9.781	
13,700.0	9,437.4	13,887.0	9,452.2	39.6	52.8	-91.28	-4,548.3	1,216.7	880.2	788.7	91.47	9.623	
13,800.0	9,436.9	13,987.0	9,451.7	40.5	53.4	-91.28	-4,648.3	1,217.1	880.2	787.3	92.97	9.468	
13,900.0	9,436.5	14,087.0	9,451.3	41.3	54.1	-91.28	-4,748.3	1,217.5	880.2	785.8	94.46	9.318	
14,000.0	9,436.0	14,187.0	9,450.8	42.2	54.7	-91.28	-4,848.3	1,217.8	880.2	784.2	95.97	9.172	
14,100.0	9,435.6	14,287.0	9,450.3	43.0	55.4	-91.28	-4,948.3	1,218.2	880.2	782.7	97.48	9.030	
14,200.0	9,435.1	14,387.0	9,449.9	43.9	56.1	-91.27	-5,048.3	1,218.6	880.2	781.2	99.00	8.891	
14,300.0	9,434.7	14,487.0	9,449.4	44.7	56.7	-91.27	-5,148.3	1,219.0	880.2	779.7	100.52	8.757	
14,400.0	9,434.2	14,587.0	9,449.0	45.6	57.4	-91.27	-5,248.3	1,219.4	880.2	778.2	102.05	8.625	
14,500.0	9,433.8	14,687.0	9,448.5	46.4	58.1	-91.27	-5,348.3	1,219.8	880.2	776.6	103.58	8.498	
14,600.0	9,433.3	14,787.0	9,448.0	47.2	58.8	-91.27	-5,448.3	1,220.1	880.2	775.1	105.12	8.373	
14,644.4	9,433.1	14,831.4	9,447.8	47.6	59.1	-91.27	-5,492.7	1,220.3	880.2	774.4	105.81	8.319	
14,654.0	9,433.1	14,842.8	9,447.8	47.7	59.2	-91.27	-5,504.1	1,220.3	880.2	774.3	105.95	8.308	
14,700.0	9,432.8	14,889.9	9,447.6	48.1	59.5	-91.27	-5,551.2	1,220.4	880.2	773.6	106.65	8.253	
14,800.0	9,432.4	14,989.9	9,447.1	48.9	60.2	-91.27	-5,651.2	1,220.4	880.2	772.0	108.20	8.135	
14,900.0	9,431.9	15,089.9	9,446.6	49.8	60.9	-91.27	-5,751.2	1,220.5	880.2	770.5	109.75	8.020	
15,000.0	9,431.5	15,189.9	9,446.2	50.6	61.6	-91.27	-5,851.2	1,220.5	880.2	768.9	111.31	7.908	
15,100.0	9,431.0	15,289.9	9,445.7	51.5	62.3	-91.27	-5,951.2	1,220.6	880.2	767.4	112.87	7.798	
15,200.0	9,430.6	15,389.9	9,445.2	52.3	63.0	-91.27	-6,051.2	1,220.6	880.2	765.8	114.44	7.692	
15,300.0	9,430.1	15,489.9	9,444.8	53.2	63.7	-91.27	-6,151.2	1,220.7	880.2	764.2	116.01	7.588	
15,400.0	9,429.7	15,589.9	9,444.3	54.0	64.4	-91.26	-6,251.2	1,220.7	880.2	762.6	117.58	7.486	
15,500.0	9,429.2	15,689.9	9,443.8	54.9	65.1	-91.26	-6,351.2	1,220.8	880.2	761.1	119.15	7.387	
15,600.0	9,428.8	15,789.9	9,443.4	55.7	65.8	-91.26	-6,451.2	1,220.8	880.2	759.5	120.73	7.291	

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 #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - BOO RADLEY COM #701H - 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
15,700.0	9,428.3	15,889.9	9,442.9	56.6	66.6	-91.26	-6,551.2	1,220.8	880.2	757.9	122.32	7.196	
15,800.0	9,427.9	15,989.9	9,442.5	57.4	67.3	-91.26	-6,651.2	1,220.9	880.2	756.3	123.90	7.104	
15,900.0	9,427.4	16,089.9	9,442.0	58.3	68.0	-91.26	-6,751.2	1,220.9	880.2	754.7	125.49	7.014	
16,000.0	9,427.0	16,189.9	9,441.5	59.1	68.8	-91.26	-6,851.2	1,221.0	880.2	753.1	127.09	6.926	
16,100.0	9,426.5	16,289.9	9,441.1	60.0	69.5	-91.26	-6,951.2	1,221.0	880.2	751.5	128.68	6.840	
16,200.0	9,426.1	16,389.9	9,440.6	60.8	70.2	-91.26	-7,051.2	1,221.1	880.2	749.9	130.28	6.756	
16,300.0	9,425.6	16,489.9	9,440.1	61.7	71.0	-91.26	-7,151.2	1,221.1	880.2	748.3	131.88	6.674	
16,400.0	9,425.2	16,589.9	9,439.7	62.5	71.7	-91.26	-7,251.2	1,221.2	880.2	746.7	133.48	6.594	
16,500.0	9,424.7	16,689.9	9,439.2	63.4	72.5	-91.26	-7,351.2	1,221.2	880.2	745.1	135.09	6.516	
16,600.0	9,424.3	16,789.9	9,438.7	64.2	73.2	-91.26	-7,451.2	1,221.3	880.2	743.5	136.70	6.439	
16,700.0	9,423.8	16,889.9	9,438.3	65.1	74.0	-91.25	-7,551.2	1,221.3	880.2	741.9	138.31	6.364	
16,800.0	9,423.4	16,989.9	9,437.8	65.9	74.7	-91.25	-7,651.2	1,221.4	880.2	740.3	139.93	6.291	
16,900.0	9,422.9	17,089.9	9,437.4	66.8	75.5	-91.25	-7,751.2	1,221.4	880.2	738.7	141.54	6.219	
17,000.0	9,422.5	17,189.9	9,436.9	67.7	76.2	-91.25	-7,851.2	1,221.5	880.2	737.1	143.16	6.148	
17,100.0	9,422.0	17,289.9	9,436.4	68.5	77.0	-91.25	-7,951.2	1,221.5	880.2	735.4	144.78	6.080	
17,200.0	9,421.5	17,389.9	9,436.0	69.4	77.8	-91.25	-8,051.2	1,221.6	880.2	733.8	146.40	6.012	
17,300.0	9,421.1	17,489.9	9,435.5	70.2	78.5	-91.25	-8,151.2	1,221.6	880.2	732.2	148.03	5.946	
17,400.0	9,420.6	17,589.9	9,435.0	71.1	79.3	-91.25	-8,251.2	1,221.7	880.2	730.6	149.66	5.882	
17,500.0	9,420.2	17,689.9	9,434.6	71.9	80.1	-91.25	-8,351.2	1,221.7	880.2	728.9	151.28	5.818	
17,600.0	9,419.7	17,789.9	9,434.1	72.8	80.8	-91.25	-8,451.2	1,221.8	880.2	727.3	152.91	5.756	
17,700.0	9,419.3	17,889.9	9,433.6	73.6	81.6	-91.25	-8,551.2	1,221.8	880.2	725.7	154.55	5.695	
17,800.0	9,418.8	17,989.9	9,433.2	74.5	82.4	-91.25	-8,651.2	1,221.9	880.2	724.0	156.18	5.636	
17,900.0	9,418.4	18,089.9	9,432.7	75.3	83.2	-91.25	-8,751.2	1,221.9	880.2	722.4	157.82	5.577	
18,000.0	9,417.9	18,189.9	9,432.3	76.2	83.9	-91.24	-8,851.2	1,222.0	880.2	720.8	159.45	5.520	
18,100.0	9,417.5	18,289.9	9,431.8	77.0	84.7	-91.24	-8,951.2	1,222.0	880.2	719.1	161.09	5.464	
18,200.0	9,417.0	18,389.9	9,431.3	77.9	85.5	-91.24	-9,051.2	1,222.1	880.2	717.5	162.73	5.409	
18,300.0	9,416.6	18,489.9	9,430.9	78.8	86.3	-91.24	-9,151.2	1,222.1	880.2	715.8	164.38	5.355	
18,400.0	9,416.1	18,589.9	9,430.4	79.6	87.1	-91.24	-9,251.2	1,222.1	880.2	714.2	166.02	5.302	
18,500.0	9,415.7	18,689.9	9,429.9	80.5	87.9	-91.24	-9,351.2	1,222.2	880.2	712.5	167.66	5.250	
18,600.0	9,415.2	18,789.9	9,429.5	81.3	88.6	-91.24	-9,451.2	1,222.2	880.2	710.9	169.31	5.199	
18,700.0	9,414.8	18,889.9	9,429.0	82.2	89.4	-91.24	-9,551.2	1,222.3	880.2	709.3	170.96	5.149	
18,800.0	9,414.3	18,989.9	9,428.5	83.0	90.2	-91.24	-9,651.2	1,222.3	880.2	707.6	172.61	5.100	
18,900.0	9,413.9	19,089.9	9,428.1	83.9	91.0	-91.24	-9,751.2	1,222.4	880.2	706.0	174.26	5.051	
19,000.0	9,413.4	19,189.9	9,427.6	84.7	91.8	-91.24	-9,851.2	1,222.4	880.2	704.3	175.91	5.004	
19,100.0	9,413.0	19,289.9	9,427.1	85.6	92.6	-91.24	-9,951.2	1,222.5	880.2	702.6	177.56	4.957	
19,200.0	9,412.5	19,389.9	9,426.7	86.5	93.4	-91.24	-10,051.1	1,222.5	880.2	701.0	179.21	4.911	
19,300.0	9,412.1	19,489.9	9,426.2	87.3	94.2	-91.23	-10,151.1	1,222.6	880.2	699.3	180.87	4.867	
19,400.0	9,411.6	19,589.9	9,425.8	88.2	95.0	-91.23	-10,251.1	1,222.6	880.2	697.7	182.53	4.822	
19,500.0	9,411.2	19,689.9	9,425.3	89.0	95.8	-91.23	-10,351.1	1,222.7	880.2	696.0	184.18	4.779	
19,600.0	9,410.7	19,789.9	9,424.8	89.9	96.6	-91.23	-10,451.1	1,222.7	880.2	694.4	185.84	4.736	
19,700.0	9,410.2	19,889.9	9,424.4	90.7	97.4	-91.23	-10,551.1	1,222.8	880.2	692.7	187.50	4.694	
19,800.0	9,409.8	19,989.9	9,423.9	91.6	98.2	-91.23	-10,651.1	1,222.8	880.2	691.0	189.16	4.653	
19,900.0	9,409.3	20,089.9	9,423.4	92.4	99.0	-91.23	-10,751.1	1,222.9	880.2	689.4	190.82	4.613	
19,929.9	9,409.2	20,119.8	9,423.3	92.7	99.2	-91.23	-10,781.1	1,222.9	880.2	688.9	191.32	4.601	
19,931.5	9,409.2	20,121.1	9,423.3	92.7	99.2	-91.23	-10,782.4	1,222.9	880.2	688.9	191.35	4.600	
19,936.7	9,409.2	20,125.2	9,423.3	92.8	99.3	-91.23	-10,786.5	1,222.9	880.2	688.8	191.43	4.598	
19,937.0	9,409.2	20,125.3	9,423.3	92.8	99.3	-91.23	-10,786.5	1,222.9	880.2	688.8	191.44	4.598	
20,000.0	9,408.9	20,188.3	9,423.0	93.3	99.8	-91.23	-10,849.6	1,223.0	880.2	687.7	192.49	4.573	
20,100.0	9,408.4	20,288.3	9,422.5	94.2	100.6	-91.23	-10,949.6	1,223.3	880.2	686.1	194.15	4.534	
20,200.0	9,408.0	20,388.3	9,422.1	95.0	101.4	-91.23	-11,049.6	1,223.5	880.2	684.4	195.82	4.495	
20,300.0	9,407.5	20,488.3	9,421.6	95.9	102.2	-91.23	-11,149.5	1,223.7	880.2	682.7	197.48	4.457	
20,400.0	9,407.1	20,588.3	9,421.1	96.7	103.0	-91.23	-11,249.5	1,223.9	880.2	681.1	199.15	4.420	

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 #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - BOO RADLEY COM #701H - 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
20,500.0	9,406.6	20,688.3	9,420.7	97.6	103.8	-91.23	-11,349.5	1,224.2	880.2	679.4	200.81	4.383	
20,600.0	9,406.2	20,788.3	9,420.2	98.4	104.6	-91.23	-11,449.5	1,224.4	880.2	677.7	202.48	4.347	
20,700.0	9,405.7	20,888.3	9,419.8	99.3	105.4	-91.23	-11,549.5	1,224.6	880.2	676.1	204.15	4.312	
20,800.0	9,405.3	20,988.3	9,419.3	100.1	106.2	-91.23	-11,649.5	1,224.9	880.2	674.4	205.82	4.277	
20,900.0	9,404.8	21,088.3	9,418.8	101.0	107.0	-91.23	-11,749.5	1,225.1	880.2	672.7	207.49	4.242	
21,000.0	9,404.3	21,188.3	9,418.4	101.9	107.8	-91.23	-11,849.5	1,225.3	880.2	671.0	209.16	4.208	
21,100.0	9,403.9	21,288.3	9,417.9	102.7	108.7	-91.23	-11,949.5	1,225.5	880.2	669.4	210.83	4.175	
21,200.0	9,403.4	21,388.3	9,417.5	103.6	109.5	-91.23	-12,049.5	1,225.8	880.2	667.7	212.51	4.142	
21,300.0	9,403.0	21,488.3	9,417.0	104.4	110.3	-91.23	-12,149.5	1,226.0	880.2	666.0	214.18	4.110	
21,400.0	9,402.5	21,588.3	9,416.5	105.3	111.1	-91.23	-12,249.5	1,226.2	880.2	664.4	215.85	4.078	
21,500.0	9,402.1	21,688.3	9,416.1	106.1	111.9	-91.22	-12,349.5	1,226.5	880.2	662.7	217.53	4.046	
21,600.0	9,401.6	21,788.3	9,415.6	107.0	112.7	-91.22	-12,449.5	1,226.7	880.2	661.0	219.20	4.015	
21,700.0	9,401.2	21,888.3	9,415.2	107.9	113.5	-91.22	-12,549.5	1,226.9	880.2	659.3	220.88	3.985	
21,800.0	9,400.7	21,988.3	9,414.7	108.7	114.4	-91.22	-12,649.5	1,227.1	880.2	657.7	222.56	3.955	
21,900.0	9,400.3	22,088.3	9,414.2	109.6	115.2	-91.22	-12,749.5	1,227.4	880.2	656.0	224.23	3.925	
21,905.4	9,400.2	22,093.7	9,414.2	109.6	115.2	-91.22	-12,755.0	1,227.4	880.2	655.9	224.32	3.924	
21,956.3	9,400.0	22,142.3	9,414.0	110.1	115.6	-91.22	-12,803.5	1,227.5	880.2	655.0	225.18	3.909	

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - BOO RADLEY COM #703H - OWB - PWP1 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8903-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	0.3	0.3	3.0	3.0	-89.81	0.1	-30.1	30.1				
100.0	100.0	100.3	100.3	3.0	3.0	-89.81	0.1	-30.1	30.1	24.1	6.00	5.017	
200.0	200.0	200.3	200.3	3.0	3.0	-89.81	0.1	-30.1	30.1	24.1	6.00	5.014	
300.0	300.0	300.3	300.3	3.0	3.0	-89.81	0.1	-30.1	30.1	24.1	6.01	5.009	
400.0	400.0	400.3	400.3	3.0	3.0	-89.81	0.1	-30.1	30.1	24.1	6.02	5.002	
500.0	500.0	500.3	500.3	3.1	3.1	-89.81	0.1	-30.1	30.1	24.1	6.03	4.991	
600.0	600.0	600.3	600.3	3.1	3.1	-89.81	0.1	-30.1	30.1	24.1	6.05	4.978	
700.0	700.0	700.3	700.3	3.1	3.1	-89.81	0.1	-30.1	30.1	24.0	6.07	4.963	
800.0	800.0	800.3	800.3	3.2	3.2	-89.81	0.1	-30.1	30.1	24.0	6.09	4.945	
900.0	900.0	900.3	900.3	3.2	3.2	-89.81	0.1	-30.1	30.1	24.0	6.11	4.925	
1,000.0	1,000.0	1,000.3	1,000.3	3.2	3.2	-89.81	0.1	-30.1	30.1	24.0	6.14	4.902	
1,100.0	1,100.0	1,100.3	1,100.3	3.3	3.3	-89.81	0.1	-30.1	30.1	23.9	6.17	4.877	
1,200.0	1,200.0	1,200.3	1,200.3	3.4	3.4	-89.81	0.1	-30.1	30.1	23.9	6.21	4.850	
1,300.0	1,300.0	1,300.3	1,300.3	3.4	3.4	-89.81	0.1	-30.1	30.1	23.9	6.24	4.821	
1,400.0	1,400.0	1,400.3	1,400.3	3.5	3.5	-89.81	0.1	-30.1	30.1	23.8	6.28	4.791	
1,500.0	1,500.0	1,500.3	1,500.3	3.5	3.5	-89.81	0.1	-30.1	30.1	23.8	6.33	4.758	
1,600.0	1,600.0	1,600.3	1,600.3	3.6	3.6	-89.81	0.1	-30.1	30.1	23.7	6.37	4.724	
1,700.0	1,700.0	1,700.3	1,700.3	3.7	3.7	-89.81	0.1	-30.1	30.1	23.7	6.42	4.689	
1,800.0	1,800.0	1,800.3	1,800.3	3.8	3.8	-89.81	0.1	-30.1	30.1	23.6	6.47	4.652	
1,900.0	1,900.0	1,900.3	1,900.3	3.9	3.9	-89.81	0.1	-30.1	30.1	23.6	6.52	4.614	
2,000.0	2,000.0	2,000.3	2,000.3	3.9	3.9	-89.81	0.1	-30.1	30.1	23.5	6.58	4.574	
2,100.0	2,100.0	2,100.3	2,100.3	4.0	4.0	-89.81	0.1	-30.1	30.1	23.5	6.64	4.534	
2,200.0	2,200.0	2,200.3	2,200.3	4.1	4.1	-89.81	0.1	-30.1	30.1	23.4	6.70	4.493	
2,300.0	2,300.0	2,300.3	2,300.3	4.2	4.2	-89.81	0.1	-30.1	30.1	23.3	6.76	4.451	
2,400.0	2,400.0	2,400.3	2,400.3	4.3	4.3	-89.81	0.1	-30.1	30.1	23.3	6.83	4.408	
2,416.6	2,416.6	2,416.9	2,416.9	4.3	4.3	-89.81	0.1	-30.1	30.1	23.3	6.84	4.401	CC
2,500.0	2,500.0	2,500.0	2,500.0	4.4	4.4	-89.81	0.1	-30.1	30.1	23.2	6.90	4.365	ES
2,600.0	2,600.0	2,599.2	2,599.2	4.5	4.5	-90.14	-0.1	-31.8	31.8	24.9	6.97	4.570	
2,700.0	2,700.0	2,697.9	2,697.8	4.6	4.5	-90.93	-0.6	-36.9	37.0	30.0	7.04	5.257	
2,800.0	2,800.0	2,797.3	2,796.9	4.7	4.5	-91.77	-1.4	-44.4	44.6	37.5	7.11	6.269	
2,900.0	2,900.0	2,897.0	2,896.3	4.8	4.5	-92.38	-2.2	-52.1	52.3	45.1	7.20	7.269	
3,000.0	3,000.0	2,996.7	2,995.7	4.9	4.6	-92.82	-2.9	-59.8	60.0	52.7	7.28	8.242	
3,100.0	3,100.0	3,096.4	3,095.1	5.0	4.6	-93.17	-3.7	-67.4	67.7	60.4	7.37	9.187	
3,200.0	3,200.0	3,196.1	3,194.5	5.1	4.6	-93.45	-4.5	-75.1	75.5	68.0	7.47	10.104	
3,300.0	3,300.0	3,295.8	3,293.9	5.2	4.7	-93.67	-5.3	-82.8	83.2	75.6	7.57	10.992	
3,400.0	3,400.0	3,395.5	3,393.3	5.3	4.7	-93.86	-6.1	-90.4	90.9	83.2	7.67	11.851	
3,500.0	3,500.0	3,495.2	3,492.7	5.4	4.8	-94.02	-6.9	-98.1	98.6	90.8	7.78	12.681	
3,600.0	3,600.0	3,594.9	3,592.1	5.5	4.8	-94.15	-7.7	-105.7	106.3	98.5	7.89	13.481	
3,700.0	3,700.0	3,694.6	3,691.5	5.7	4.9	-94.27	-8.5	-113.4	114.1	106.1	8.00	14.253	
3,800.0	3,800.0	3,794.3	3,790.9	5.8	5.0	-94.37	-9.3	-121.1	121.8	113.7	8.12	14.997	
3,900.0	3,900.0	3,894.0	3,890.3	5.9	5.0	-94.46	-10.0	-128.7	129.5	121.3	8.24	15.713	
4,000.0	4,000.0	3,993.7	3,989.7	6.0	5.1	-94.54	-10.8	-136.4	137.2	128.9	8.37	16.402	
4,100.0	4,100.0	4,093.4	4,089.1	6.1	5.2	-94.61	-11.6	-144.1	145.0	136.5	8.50	17.065	
4,200.0	4,200.0	4,193.1	4,188.5	6.2	5.2	-94.67	-12.4	-151.7	152.7	144.1	8.63	17.702	
4,300.0	4,300.0	4,292.8	4,287.9	6.3	5.3	-94.73	-13.2	-159.4	160.4	151.7	8.76	18.314	
4,400.0	4,400.0	4,392.5	4,387.3	6.5	5.4	-94.78	-14.0	-167.1	168.1	159.2	8.90	18.902	
4,500.0	4,500.0	4,492.2	4,486.7	6.6	5.5	-94.83	-14.8	-174.7	175.9	166.8	9.03	19.467	
4,600.0	4,600.0	4,591.9	4,586.1	6.7	5.5	-94.87	-15.6	-182.4	183.6	174.4	9.18	20.010	
4,700.0	4,700.0	4,691.6	4,685.5	6.8	5.6	-94.91	-16.3	-190.0	191.3	182.0	9.32	20.531	
4,800.0	4,800.0	4,791.3	4,784.9	6.9	5.7	-94.95	-17.1	-197.7	199.0	189.6	9.46	21.031	
4,900.0	4,900.0	4,891.0	4,884.3	7.0	5.8	-94.99	-17.9	-205.4	206.8	197.2	9.61	21.512	
5,000.0	5,000.0	4,990.7	4,983.7	7.2	5.9	-95.02	-18.7	-213.0	214.5	204.7	9.76	21.973	

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 #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - BOO RADLEY COM #703H - OWB - PWP1 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8903-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	5,100.0	5,090.4	5,083.1	7.3	6.0	-95.05	-19.5	-220.7	222.2	212.3	9.91	22.417	
5,200.0	5,200.0	5,190.1	5,182.5	7.4	6.1	-95.07	-20.3	-228.4	230.0	219.9	10.07	22.843	
5,300.0	5,300.0	5,289.8	5,281.9	7.5	6.1	-95.10	-21.1	-236.0	237.7	227.5	10.22	23.252	
5,400.0	5,400.0	5,389.5	5,381.3	7.6	6.2	-95.12	-21.9	-243.7	245.4	235.0	10.38	23.645	
5,500.0	5,500.0	5,489.2	5,480.7	7.8	6.3	-95.15	-22.6	-251.4	253.1	242.6	10.54	24.024	
5,600.0	5,600.0	5,588.8	5,580.0	7.8	6.4	159.54	-23.4	-259.0	262.5	251.8	10.70	24.523	
5,700.0	5,699.8	5,688.0	5,678.9	7.8	6.5	159.81	-24.2	-266.6	275.1	264.2	10.88	25.282	
5,747.1	5,746.8	5,734.6	5,725.3	7.9	6.6	160.00	-24.6	-270.2	282.2	271.2	10.97	25.731	
5,800.0	5,799.5	5,786.7	5,777.4	7.9	6.6	160.29	-25.0	-274.2	290.5	279.5	11.06	26.262	
5,900.0	5,899.1	5,885.5	5,875.8	7.9	6.7	160.79	-25.8	-281.8	306.3	295.1	11.25	27.240	
6,000.0	5,998.8	5,984.2	5,974.2	7.9	6.8	161.25	-26.5	-289.4	322.1	310.7	11.43	28.184	
6,100.0	6,098.4	6,082.9	6,072.6	7.9	6.9	161.66	-27.3	-297.0	338.0	326.4	11.62	29.096	
6,200.0	6,198.0	6,181.6	6,171.0	8.0	7.0	162.03	-28.1	-304.6	353.8	342.0	11.80	29.977	
6,300.0	6,297.6	6,280.3	6,269.4	8.0	7.1	162.37	-28.9	-312.2	369.7	357.7	11.99	30.826	
6,400.0	6,397.3	6,379.0	6,367.8	8.0	7.2	162.68	-29.7	-319.7	385.6	373.4	12.18	31.646	
6,500.0	6,496.9	6,477.7	6,466.3	8.0	7.3	162.97	-30.4	-327.3	401.5	389.1	12.38	32.437	
6,600.0	6,596.5	6,576.4	6,564.7	8.1	7.4	163.24	-31.2	-334.9	417.4	404.8	12.57	33.200	
6,700.0	6,696.1	6,675.1	6,663.1	8.1	7.5	163.49	-32.0	-342.5	433.3	420.5	12.77	33.936	
6,800.0	6,795.8	6,773.8	6,761.5	8.1	7.6	163.72	-32.8	-350.1	449.2	436.3	12.97	34.645	
6,900.0	6,895.4	6,872.5	6,859.9	8.2	7.7	163.93	-33.6	-357.7	465.1	452.0	13.17	35.329	
7,000.0	6,995.0	6,971.3	6,958.3	8.2	7.9	164.13	-34.3	-365.3	481.1	467.7	13.37	35.989	
7,100.0	7,094.7	7,070.0	7,056.7	8.3	8.0	164.32	-35.1	-372.9	497.0	483.4	13.57	36.625	
7,200.0	7,194.3	7,168.7	7,155.2	8.3	8.1	164.49	-35.9	-380.4	512.9	499.2	13.77	37.238	
7,300.0	7,293.9	7,267.4	7,253.6	8.4	8.2	164.66	-36.7	-388.0	528.9	514.9	13.98	37.830	
7,400.0	7,393.5	7,366.1	7,352.0	8.4	8.3	164.81	-37.5	-395.6	544.8	530.7	14.19	38.400	
7,500.0	7,493.2	7,464.8	7,450.4	8.5	8.4	164.96	-38.2	-403.2	560.8	546.4	14.40	38.950	
7,600.0	7,592.8	7,563.5	7,548.8	8.5	8.5	165.09	-39.0	-410.8	576.7	562.1	14.61	39.481	
7,700.0	7,692.4	7,662.2	7,647.2	8.6	8.6	165.22	-39.8	-418.4	592.7	577.9	14.82	39.993	
7,800.0	7,792.1	7,760.9	7,745.6	8.6	8.7	165.35	-40.6	-426.0	608.7	593.6	15.03	40.487	
7,900.0	7,891.7	7,859.6	7,844.1	8.7	8.8	165.47	-41.4	-433.6	624.6	609.4	15.25	40.963	
8,000.0	7,991.3	7,958.4	7,942.5	8.8	9.0	165.58	-42.1	-441.1	640.6	625.1	15.46	41.423	
8,100.0	8,090.9	8,057.1	8,040.9	8.8	9.1	165.68	-42.9	-448.7	656.6	640.9	15.68	41.867	
8,200.0	8,190.6	8,155.8	8,139.3	8.9	9.2	165.79	-43.7	-456.3	672.5	656.6	15.90	42.295	
8,300.0	8,290.2	8,254.5	8,237.7	9.0	9.3	165.88	-44.5	-463.9	688.5	672.4	16.12	42.709	
8,400.0	8,389.8	8,353.2	8,336.1	9.0	9.4	165.97	-45.3	-471.5	704.5	688.1	16.34	43.108	
8,500.0	8,489.5	8,451.9	8,434.6	9.1	9.5	166.06	-46.0	-479.1	720.5	703.9	16.56	43.494	
8,600.0	8,589.1	8,550.6	8,533.0	9.2	9.6	166.15	-46.8	-486.7	736.4	719.7	16.79	43.866	
8,700.0	8,688.7	8,649.3	8,631.4	9.3	9.8	166.23	-47.6	-494.3	752.4	735.4	17.01	44.226	
8,800.0	8,788.3	8,748.0	8,729.8	9.3	9.9	166.30	-48.4	-501.8	768.4	751.2	17.24	44.574	
8,909.3	8,897.2	8,855.9	8,837.3	9.4	10.0	166.38	-49.2	-510.1	785.9	768.2	17.65	44.527	
8,950.0	8,937.7	8,896.0	8,877.4	9.4	10.0	132.91	-49.6	-513.2	792.4	774.7	17.71	44.752	
9,000.0	8,987.1	8,945.3	8,926.5	9.4	10.1	115.79	-50.0	-517.0	800.6	782.8	17.75	45.110	
9,050.0	9,035.6	8,997.8	8,978.7	9.4	10.1	108.20	-53.3	-521.0	808.8	791.0	17.75	45.573	
9,100.0	9,083.0	9,051.1	9,031.2	9.4	10.1	103.98	-61.5	-525.0	816.8	799.1	17.75	46.017	
9,150.0	9,128.9	9,105.4	9,083.6	9.5	10.1	101.29	-74.9	-529.0	824.7	806.9	17.76	46.426	
9,200.0	9,172.9	9,160.6	9,135.4	9.5	10.1	99.41	-93.5	-533.0	832.3	814.5	17.79	46.780	
9,250.0	9,214.7	9,216.6	9,185.9	9.6	10.2	98.00	-117.5	-536.8	839.6	821.7	17.84	47.058	
9,300.0	9,254.0	9,273.6	9,234.6	9.6	10.2	96.90	-146.8	-540.4	846.4	828.5	17.92	47.237	
9,350.0	9,290.5	9,331.4	9,280.8	9.7	10.3	96.00	-181.3	-543.9	852.8	834.8	18.03	47.295	
9,400.0	9,323.9	9,390.0	9,323.9	9.8	10.3	95.26	-220.9	-547.1	858.7	840.5	18.19	47.215	
9,450.0	9,354.0	9,449.3	9,363.1	9.8	10.4	94.63	-265.3	-549.9	864.0	845.6	18.39	46.986	
9,500.0	9,380.4	9,509.3	9,397.9	9.9	10.5	94.09	-314.0	-552.5	868.6	849.9	18.64	46.598	

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 #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - BOO RADLEY COM #703H - OWB - PWP1 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8903-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	9,403.1	9,569.7	9,427.7	10.0	10.6	93.62	-366.5	-554.6	872.5	853.5	18.94	46.063	
9,600.0	9,421.9	9,630.5	9,451.9	10.1	10.8	93.21	-422.2	-556.2	875.7	856.4	19.29	45.397	
9,650.0	9,436.5	9,691.5	9,470.1	10.2	11.0	92.85	-480.4	-557.5	878.1	858.4	19.68	44.621	
9,700.0	9,447.0	9,752.5	9,482.1	10.3	11.2	92.54	-540.1	-558.2	879.7	859.6	20.10	43.758	
9,750.0	9,453.1	9,813.4	9,487.7	10.4	11.4	92.28	-600.7	-558.4	880.6	860.0	20.56	42.833	
9,798.6	9,454.9	9,866.4	9,488.0	10.5	11.6	92.13	-653.7	-558.2	880.7	859.7	20.99	41.952	
9,800.0	9,454.9	9,867.8	9,487.9	10.5	11.6	92.13	-655.1	-558.2	880.7	859.7	21.01	41.928	
9,900.0	9,454.5	9,967.8	9,487.5	10.8	12.0	92.13	-755.1	-557.8	880.7	858.8	21.94	40.134	
10,000.0	9,454.0	10,067.8	9,487.0	11.2	12.4	92.12	-855.1	-557.5	880.7	857.7	22.97	38.337	
10,100.0	9,453.6	10,167.8	9,486.5	11.6	12.9	92.12	-955.1	-557.1	880.7	856.6	24.08	36.575	
10,200.0	9,453.1	10,267.8	9,486.0	12.1	13.5	92.12	-1,055.1	-556.7	880.7	855.4	25.25	34.873	
10,300.0	9,452.7	10,367.8	9,485.5	12.7	14.0	92.11	-1,155.1	-556.3	880.7	854.2	26.49	33.248	
10,400.0	9,452.2	10,467.8	9,485.0	13.3	14.6	92.11	-1,255.1	-555.9	880.7	852.9	27.77	31.708	
10,500.0	9,451.8	10,567.8	9,484.5	14.0	15.3	92.11	-1,355.1	-555.5	880.7	851.6	29.10	30.259	
10,600.0	9,451.3	10,667.8	9,484.0	14.7	15.9	92.11	-1,455.1	-555.2	880.7	850.2	30.47	28.900	
10,700.0	9,450.9	10,767.8	9,483.5	15.4	16.6	92.10	-1,555.1	-554.8	880.7	848.8	31.88	27.628	
10,800.0	9,450.4	10,867.8	9,483.0	16.1	17.3	92.10	-1,655.1	-554.4	880.7	847.4	33.31	26.440	
10,900.0	9,450.0	10,967.8	9,482.5	16.9	18.0	92.10	-1,755.1	-554.0	880.7	845.9	34.77	25.331	
11,000.0	9,449.5	11,067.8	9,482.0	17.6	18.7	92.09	-1,855.1	-553.6	880.7	844.4	36.25	24.296	
11,100.0	9,449.1	11,167.8	9,481.5	18.4	19.4	92.09	-1,955.1	-553.2	880.7	842.9	37.75	23.330	
11,200.0	9,448.6	11,267.8	9,481.0	19.1	20.2	92.09	-2,055.1	-552.9	880.7	841.4	39.27	22.427	
11,300.0	9,448.2	11,367.8	9,480.5	19.9	20.9	92.09	-2,155.1	-552.5	880.7	839.9	40.80	21.584	
11,400.0	9,447.7	11,467.8	9,480.0	20.7	21.7	92.08	-2,255.1	-552.1	880.7	838.3	42.35	20.795	
11,500.0	9,447.3	11,567.8	9,479.5	21.5	22.5	92.08	-2,355.1	-551.7	880.6	836.7	43.91	20.055	
11,600.0	9,446.8	11,667.8	9,479.0	22.3	23.2	92.08	-2,455.1	-551.3	880.6	835.2	45.48	19.362	
11,700.0	9,446.4	11,767.8	9,478.5	23.1	24.0	92.07	-2,555.1	-551.0	880.6	833.6	47.07	18.711	
11,800.0	9,445.9	11,867.8	9,478.0	23.9	24.8	92.07	-2,655.1	-550.6	880.6	832.0	48.66	18.098	
11,900.0	9,445.5	11,967.8	9,477.6	24.7	25.6	92.07	-2,755.1	-550.2	880.6	830.4	50.26	17.522	
12,000.0	9,445.0	12,067.8	9,477.1	25.5	26.4	92.07	-2,855.1	-549.8	880.6	828.8	51.87	16.979	
12,100.0	9,444.6	12,167.8	9,476.6	26.3	27.2	92.06	-2,955.1	-549.4	880.6	827.1	53.48	16.466	
12,200.0	9,444.1	12,267.8	9,476.1	27.2	28.0	92.06	-3,055.1	-549.0	880.6	825.5	55.10	15.982	
12,300.0	9,443.7	12,367.8	9,475.6	28.0	28.8	92.06	-3,155.1	-548.7	880.6	823.9	56.73	15.523	
12,400.0	9,443.2	12,467.8	9,475.1	28.8	29.6	92.05	-3,255.1	-548.3	880.6	822.3	58.36	15.089	
12,500.0	9,442.8	12,567.8	9,474.6	29.6	30.4	92.05	-3,355.1	-547.9	880.6	820.6	60.00	14.677	
12,600.0	9,442.3	12,667.8	9,474.1	30.5	31.2	92.05	-3,455.1	-547.5	880.6	819.0	61.64	14.286	
12,700.0	9,441.9	12,767.8	9,473.6	31.3	32.0	92.05	-3,555.1	-547.1	880.6	817.3	63.28	13.915	
12,800.0	9,441.4	12,867.8	9,473.1	32.1	32.8	92.04	-3,655.1	-546.7	880.6	815.7	64.93	13.561	
12,900.0	9,441.0	12,967.8	9,472.6	32.9	33.7	92.04	-3,755.1	-546.4	880.6	814.0	66.59	13.225	
13,000.0	9,440.5	13,067.8	9,472.1	33.8	34.5	92.04	-3,855.1	-546.0	880.6	812.3	68.24	12.904	
13,100.0	9,440.1	13,167.8	9,471.6	34.6	35.3	92.03	-3,955.1	-545.6	880.6	810.7	69.90	12.597	
13,200.0	9,439.6	13,267.8	9,471.1	35.4	36.1	92.03	-4,055.1	-545.2	880.6	809.0	71.56	12.305	
13,300.0	9,439.2	13,367.8	9,470.6	36.3	37.0	92.03	-4,155.1	-544.8	880.6	807.4	73.23	12.025	
13,400.0	9,438.7	13,467.8	9,470.1	37.1	37.8	92.03	-4,255.1	-544.4	880.6	805.7	74.90	11.757	
13,500.0	9,438.3	13,567.8	9,469.6	38.0	38.6	92.02	-4,355.1	-544.1	880.6	804.0	76.57	11.501	
13,600.0	9,437.8	13,667.8	9,469.1	38.8	39.4	92.02	-4,455.1	-543.7	880.6	802.3	78.24	11.255	
13,700.0	9,437.4	13,767.8	9,468.6	39.6	40.3	92.02	-4,555.1	-543.3	880.6	800.7	79.91	11.019	
13,800.0	9,436.9	13,867.8	9,468.2	40.5	41.1	92.01	-4,655.1	-542.9	880.6	799.0	81.59	10.793	
13,900.0	9,436.5	13,967.8	9,467.7	41.3	41.9	92.01	-4,755.1	-542.5	880.6	797.3	83.26	10.576	
14,000.0	9,436.0	14,067.8	9,467.2	42.2	42.8	92.01	-4,855.1	-542.2	880.6	795.6	84.94	10.367	
14,100.0	9,435.6	14,167.8	9,466.7	43.0	43.6	92.01	-4,955.1	-541.8	880.6	793.9	86.62	10.165	
14,200.0	9,435.1	14,267.8	9,466.2	43.9	44.5	92.00	-5,055.1	-541.4	880.5	792.2	88.30	9.972	
14,300.0	9,434.7	14,367.8	9,465.7	44.7	45.3	92.00	-5,155.1	-541.0	880.5	790.6	89.99	9.785	

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 #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - BOO RADLEY COM #703H - OWB - PWP1 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8903-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	9,434.2	14,467.8	9,465.2	45.6	46.1	92.00	-5,255.1	-540.6	880.5	788.9	91.67	9.605	
14,500.0	9,433.8	14,567.8	9,464.7	46.4	47.0	91.99	-5,355.1	-540.2	880.5	787.2	93.36	9.432	
14,600.0	9,433.3	14,667.8	9,464.2	47.2	47.8	91.99	-5,455.1	-539.9	880.5	785.5	95.04	9.264	
14,638.9	9,433.1	14,706.7	9,464.0	47.6	48.1	91.99	-5,493.9	-539.7	880.5	784.8	95.70	9.201	
14,644.4	9,433.1	14,710.9	9,464.0	47.6	48.2	91.99	-5,498.2	-539.7	880.5	784.8	95.78	9.193	
14,654.0	9,433.1	14,718.8	9,463.9	47.7	48.2	91.99	-5,506.1	-539.7	880.5	784.6	95.93	9.179	
14,700.0	9,432.8	14,764.9	9,463.7	48.1	48.6	91.99	-5,552.1	-539.7	880.5	783.8	96.70	9.106	
14,800.0	9,432.4	14,864.9	9,463.2	48.9	49.5	91.99	-5,652.1	-539.6	880.5	782.2	98.39	8.949	
14,900.0	9,431.9	14,964.9	9,462.7	49.8	50.3	91.98	-5,752.1	-539.6	880.5	780.5	100.08	8.798	
15,000.0	9,431.5	15,064.9	9,462.2	50.6	51.1	91.98	-5,852.1	-539.5	880.5	778.8	101.77	8.652	
15,100.0	9,431.0	15,164.9	9,461.7	51.5	52.0	91.98	-5,952.1	-539.5	880.5	777.1	103.46	8.511	
15,200.0	9,430.6	15,264.9	9,461.3	52.3	52.8	91.98	-6,052.1	-539.4	880.5	775.4	105.16	8.374	
15,300.0	9,430.1	15,364.9	9,460.8	53.2	53.7	91.97	-6,152.1	-539.4	880.5	773.7	106.85	8.241	
15,400.0	9,429.7	15,464.9	9,460.3	54.0	54.5	91.97	-6,252.1	-539.3	880.5	772.0	108.54	8.112	
15,500.0	9,429.2	15,564.9	9,459.8	54.9	55.4	91.97	-6,352.1	-539.3	880.5	770.3	110.24	7.987	
15,600.0	9,428.8	15,664.9	9,459.3	55.7	56.2	91.97	-6,452.1	-539.2	880.5	768.6	111.93	7.866	
15,700.0	9,428.3	15,764.9	9,458.8	56.6	57.1	91.96	-6,552.1	-539.2	880.5	766.9	113.63	7.749	
15,800.0	9,427.9	15,864.9	9,458.3	57.4	57.9	91.96	-6,652.1	-539.1	880.5	765.2	115.33	7.635	
15,900.0	9,427.4	15,964.9	9,457.8	58.3	58.8	91.96	-6,752.1	-539.1	880.5	763.5	117.03	7.524	
16,000.0	9,427.0	16,064.9	9,457.3	59.1	59.6	91.96	-6,852.1	-539.0	880.5	761.8	118.72	7.417	
16,100.0	9,426.5	16,164.9	9,456.8	60.0	60.4	91.95	-6,952.1	-539.0	880.5	760.1	120.42	7.312	
16,200.0	9,426.1	16,264.9	9,456.3	60.8	61.3	91.95	-7,052.1	-538.9	880.5	758.4	122.12	7.210	
16,300.0	9,425.6	16,364.9	9,455.8	61.7	62.1	91.95	-7,152.1	-538.9	880.5	756.7	123.82	7.111	
16,400.0	9,425.2	16,464.9	9,455.4	62.5	63.0	91.95	-7,252.1	-538.8	880.5	755.0	125.52	7.015	
16,500.0	9,424.7	16,564.9	9,454.9	63.4	63.8	91.94	-7,352.1	-538.8	880.5	753.3	127.22	6.921	
16,600.0	9,424.3	16,664.9	9,454.4	64.2	64.7	91.94	-7,452.1	-538.7	880.5	751.6	128.92	6.830	
16,700.0	9,423.8	16,764.9	9,453.9	65.1	65.5	91.94	-7,552.1	-538.7	880.5	749.9	130.63	6.741	
16,800.0	9,423.4	16,864.9	9,453.4	65.9	66.4	91.94	-7,652.1	-538.6	880.5	748.2	132.33	6.654	
16,900.0	9,422.9	16,964.9	9,452.9	66.8	67.2	91.93	-7,752.1	-538.6	880.5	746.5	134.03	6.569	
17,000.0	9,422.5	17,064.9	9,452.4	67.7	68.1	91.93	-7,852.1	-538.5	880.5	744.8	135.73	6.487	
17,100.0	9,422.0	17,164.9	9,451.9	68.5	68.9	91.93	-7,952.1	-538.5	880.5	743.1	137.44	6.407	
17,200.0	9,421.5	17,264.9	9,451.4	69.4	69.8	91.93	-8,052.1	-538.4	880.5	741.4	139.14	6.328	
17,300.0	9,421.1	17,364.9	9,450.9	70.2	70.6	91.92	-8,152.1	-538.4	880.5	739.7	140.84	6.252	
17,400.0	9,420.6	17,464.9	9,450.4	71.1	71.5	91.92	-8,252.1	-538.3	880.5	738.0	142.55	6.177	
17,500.0	9,420.2	17,564.9	9,450.0	71.9	72.3	91.92	-8,352.1	-538.3	880.5	736.2	144.25	6.104	
17,600.0	9,419.7	17,664.9	9,449.5	72.8	73.2	91.91	-8,452.1	-538.3	880.5	734.5	145.96	6.033	
17,700.0	9,419.3	17,764.9	9,449.0	73.6	74.0	91.91	-8,552.1	-538.2	880.5	732.8	147.66	5.963	
17,800.0	9,418.8	17,864.9	9,448.5	74.5	74.9	91.91	-8,652.1	-538.2	880.5	731.1	149.37	5.895	
17,900.0	9,418.4	17,964.9	9,448.0	75.3	75.7	91.91	-8,752.1	-538.1	880.5	729.4	151.08	5.828	
18,000.0	9,417.9	18,064.9	9,447.5	76.2	76.6	91.90	-8,852.1	-538.1	880.5	727.7	152.78	5.763	
18,100.0	9,417.5	18,164.9	9,447.0	77.0	77.5	91.90	-8,952.1	-538.0	880.5	726.0	154.49	5.699	
18,200.0	9,417.0	18,264.9	9,446.5	77.9	78.3	91.90	-9,052.1	-538.0	880.5	724.3	156.20	5.637	
18,300.0	9,416.6	18,364.9	9,446.0	78.8	79.2	91.90	-9,152.1	-537.9	880.5	722.6	157.90	5.576	
18,400.0	9,416.1	18,464.9	9,445.5	79.6	80.0	91.89	-9,252.1	-537.9	880.5	720.9	159.61	5.517	
18,500.0	9,415.7	18,564.9	9,445.0	80.5	80.9	91.89	-9,352.1	-537.8	880.5	719.2	161.32	5.458	
18,600.0	9,415.2	18,664.9	9,444.5	81.3	81.7	91.89	-9,452.1	-537.8	880.5	717.5	163.02	5.401	
18,700.0	9,414.8	18,764.9	9,444.1	82.2	82.6	91.89	-9,552.1	-537.7	880.5	715.7	164.73	5.345	
18,800.0	9,414.3	18,864.9	9,443.6	83.0	83.4	91.88	-9,652.1	-537.7	880.5	714.0	166.44	5.290	
18,900.0	9,413.9	18,964.9	9,443.1	83.9	84.3	91.88	-9,752.1	-537.6	880.5	712.3	168.15	5.236	
19,000.0	9,413.4	19,064.9	9,442.6	84.7	85.1	91.88	-9,852.1	-537.6	880.5	710.6	169.86	5.184	
19,100.0	9,413.0	19,164.9	9,442.1	85.6	86.0	91.88	-9,952.1	-537.5	880.5	708.9	171.57	5.132	
19,200.0	9,412.5	19,264.9	9,441.6	86.5	86.8	91.87	-10,052.1	-537.5	880.5	707.2	173.28	5.081	

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 #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - BOO RADLEY COM #703H - OWB - PWP1 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8903-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
19,300.0	9,412.1	19,364.9	9,441.1	87.3	87.7	91.87	-10,152.1	-537.4	880.5	705.5	174.98	5.032	
19,400.0	9,411.6	19,464.9	9,440.6	88.2	88.5	91.87	-10,252.1	-537.4	880.5	703.8	176.69	4.983	
19,500.0	9,411.2	19,564.9	9,440.1	89.0	89.4	91.87	-10,352.1	-537.3	880.5	702.1	178.40	4.935	
19,600.0	9,410.7	19,664.9	9,439.6	89.9	90.2	91.86	-10,452.1	-537.3	880.5	700.4	180.11	4.888	
19,700.0	9,410.2	19,764.9	9,439.1	90.7	91.1	91.86	-10,552.0	-537.2	880.5	698.6	181.82	4.842	
19,800.0	9,409.8	19,864.9	9,438.6	91.6	92.0	91.86	-10,652.0	-537.2	880.5	696.9	183.53	4.797	
19,900.0	9,409.3	19,964.9	9,438.2	92.4	92.8	91.86	-10,752.0	-537.1	880.5	695.2	185.24	4.753	
19,931.5	9,409.2	19,996.4	9,438.0	92.7	93.1	91.86	-10,783.6	-537.1	880.5	694.7	185.78	4.739	
19,936.7	9,409.2	20,003.1	9,438.0	92.8	93.1	91.85	-10,790.3	-537.1	880.5	694.6	185.88	4.737	
20,000.0	9,408.9	20,066.4	9,437.7	93.3	93.7	91.85	-10,853.6	-537.0	880.5	693.5	186.97	4.709	
20,100.0	9,408.4	20,166.4	9,437.2	94.2	94.5	91.85	-10,953.6	-536.7	880.5	691.8	188.68	4.666	
20,200.0	9,408.0	20,266.4	9,436.7	95.0	95.4	91.85	-11,053.6	-536.5	880.5	690.1	190.39	4.625	
20,300.0	9,407.5	20,366.4	9,436.2	95.9	96.2	91.85	-11,153.6	-536.3	880.5	688.4	192.10	4.583	
20,400.0	9,407.1	20,466.4	9,435.7	96.7	97.1	91.84	-11,253.6	-536.0	880.5	686.6	193.81	4.543	
20,500.0	9,406.6	20,566.4	9,435.2	97.6	98.0	91.84	-11,353.6	-535.8	880.5	684.9	195.52	4.503	
20,600.0	9,406.2	20,666.4	9,434.7	98.4	98.8	91.84	-11,453.6	-535.6	880.5	683.2	197.23	4.464	
20,700.0	9,405.7	20,766.4	9,434.2	99.3	99.7	91.84	-11,553.6	-535.4	880.5	681.5	198.95	4.426	
20,800.0	9,405.3	20,866.4	9,433.7	100.1	100.5	91.83	-11,653.6	-535.1	880.5	679.8	200.66	4.388	
20,900.0	9,404.8	20,966.4	9,433.2	101.0	101.4	91.83	-11,753.6	-534.9	880.5	678.1	202.37	4.351	
21,000.0	9,404.3	21,066.4	9,432.7	101.9	102.2	91.83	-11,853.6	-534.7	880.5	676.4	204.08	4.314	
21,100.0	9,403.9	21,166.4	9,432.2	102.7	103.1	91.83	-11,953.6	-534.5	880.5	674.7	205.79	4.278	
21,200.0	9,403.4	21,266.4	9,431.7	103.6	103.9	91.82	-12,053.6	-534.2	880.5	672.9	207.51	4.243	
21,300.0	9,403.0	21,366.4	9,431.2	104.4	104.8	91.82	-12,153.6	-534.0	880.4	671.2	209.22	4.208	
21,400.0	9,402.5	21,466.4	9,430.8	105.3	105.6	91.82	-12,253.6	-533.8	880.4	669.5	210.93	4.174	
21,500.0	9,402.1	21,566.4	9,430.3	106.1	106.5	91.82	-12,353.6	-533.5	880.4	667.8	212.64	4.141	
21,600.0	9,401.6	21,666.4	9,429.8	107.0	107.4	91.81	-12,453.6	-533.3	880.4	666.1	214.36	4.107	
21,700.0	9,401.2	21,766.4	9,429.3	107.9	108.2	91.81	-12,553.6	-533.1	880.4	664.4	216.07	4.075	
21,800.0	9,400.7	21,866.4	9,428.8	108.7	109.1	91.81	-12,653.6	-532.9	880.4	662.7	217.78	4.043	
21,900.0	9,400.3	21,966.4	9,428.3	109.6	109.9	91.81	-12,753.6	-532.6	880.4	661.0	219.49	4.011	
21,956.3	9,400.0	22,022.8	9,428.0	110.1	110.4	91.80	-12,809.9	-532.5	880.4	660.0	220.46	3.994 SF	

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - SKEEN 21 STATE COM 2H - OWB - AWP — **Offset Site Error:** 3.0 usft

Survey Program: 100-GYRO-NS, 6260-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	15.8	15.8	3.0	3.0	-139.54	-527.8	-450.1	693.7				
100.0	100.0	118.4	118.4	3.0	3.0	-139.57	-527.8	-449.6	693.3	687.3	6.01	115.421	
200.0	200.0	216.0	216.0	3.0	3.2	-139.61	-527.8	-449.1	693.0	687.0	6.06	114.329	
214.2	214.2	229.5	229.5	3.0	3.2	-139.61	-527.8	-449.1	693.0	686.9	6.08	114.032	
300.0	300.0	312.0	312.0	3.0	3.3	-139.65	-528.3	-448.9	693.3	687.1	6.20	111.853	
400.0	400.0	415.3	415.3	3.0	3.5	-139.73	-529.1	-448.3	693.5	687.1	6.40	108.286	
500.0	500.0	517.5	517.4	3.1	3.7	-139.79	-529.5	-447.6	693.3	686.7	6.59	105.148	
600.0	600.0	618.6	618.6	3.1	4.0	-139.86	-529.7	-446.8	693.0	686.2	6.80	101.980	
700.0	700.0	720.4	720.3	3.1	4.2	-139.92	-529.7	-445.7	692.3	685.3	7.02	98.638	
800.0	800.0	819.3	819.3	3.2	4.5	-139.95	-529.4	-445.0	691.6	684.4	7.26	95.216	
874.7	874.7	890.0	890.0	3.2	4.6	-139.96	-529.3	-444.8	691.4	684.0	7.45	92.799	
900.0	900.0	914.2	914.2	3.2	4.7	-139.96	-529.4	-444.8	691.4	683.9	7.53	91.854	
1,000.0	1,000.0	1,010.6	1,010.5	3.2	4.9	-140.00	-530.0	-444.7	691.8	684.0	7.87	87.920	
1,100.0	1,100.0	1,107.4	1,107.4	3.3	5.2	-140.06	-531.1	-444.7	692.8	684.6	8.22	84.279	
1,200.0	1,200.0	1,207.7	1,207.6	3.4	5.4	-140.11	-532.4	-445.0	693.9	685.3	8.58	80.834	
1,300.0	1,300.0	1,308.6	1,308.6	3.4	5.7	-140.14	-533.4	-445.3	694.9	686.0	8.95	77.642	
1,400.0	1,400.0	1,407.7	1,407.6	3.5	6.0	-140.15	-534.3	-446.0	696.0	686.7	9.30	74.850	
1,500.0	1,500.0	1,512.3	1,512.2	3.5	6.3	-140.13	-534.8	-446.7	696.8	687.1	9.66	72.161	
1,600.0	1,600.0	1,617.0	1,617.0	3.6	6.6	-140.07	-534.3	-447.2	696.8	686.8	10.02	69.567	
1,642.0	1,642.0	1,657.4	1,657.3	3.7	6.7	-140.04	-534.0	-447.5	696.7	686.6	10.17	68.524	
1,700.0	1,700.0	1,713.7	1,713.7	3.7	6.9	-139.98	-533.6	-448.1	696.8	686.4	10.38	67.132	
1,800.0	1,800.0	1,816.4	1,816.3	3.8	7.3	-139.86	-532.8	-449.3	697.0	686.2	10.76	64.757	
1,900.0	1,900.0	1,923.7	1,923.6	3.9	7.6	-139.73	-531.1	-449.9	696.1	684.9	11.18	62.248	
2,000.0	2,000.0	2,020.1	2,020.0	3.9	8.0	-139.58	-529.3	-450.7	695.2	683.6	11.57	60.080	
2,100.0	2,100.0	2,122.3	2,122.2	4.0	8.3	-139.51	-528.1	-451.0	694.5	682.5	11.97	58.017	
2,200.0	2,200.0	2,230.2	2,230.0	4.1	8.7	-139.59	-527.4	-449.0	692.8	680.4	12.39	55.928	
2,300.0	2,300.0	2,330.3	2,330.1	4.2	9.0	-139.68	-526.5	-446.7	690.6	677.9	12.77	54.100	
2,400.0	2,400.0	2,429.2	2,429.0	4.3	9.4	-139.69	-524.9	-445.3	688.5	675.3	13.16	52.319	
2,500.0	2,500.0	2,526.0	2,525.8	4.4	9.7	-139.70	-523.7	-444.1	686.7	673.2	13.55	50.666	
2,600.0	2,600.0	2,624.9	2,624.6	4.5	10.0	-139.71	-522.7	-443.2	685.4	671.4	13.96	49.101	
2,700.0	2,700.0	2,727.1	2,726.9	4.6	10.4	-139.69	-521.3	-442.3	683.7	669.4	14.38	47.545	
2,800.0	2,800.0	2,823.1	2,822.9	4.7	10.7	-139.68	-520.2	-441.5	682.4	667.6	14.79	46.149	
2,900.0	2,900.0	2,922.3	2,922.0	4.8	11.0	-139.63	-519.1	-441.3	681.3	666.1	15.21	44.799	
3,000.0	3,000.0	3,021.0	3,020.7	4.9	11.3	-139.57	-517.9	-441.2	680.4	664.7	15.64	43.514	
3,100.0	3,100.0	3,115.6	3,115.4	5.0	11.6	-139.53	-517.3	-441.4	680.0	664.0	16.04	42.389	
3,102.9	3,102.9	3,118.5	3,118.2	5.0	11.6	-139.52	-517.3	-441.4	680.0	664.0	16.05	42.358	CC
3,200.0	3,200.0	3,213.9	3,213.7	5.1	11.9	-139.49	-517.1	-441.8	680.2	663.7	16.45	41.352	
3,300.0	3,300.0	3,315.1	3,314.8	5.2	12.3	-139.46	-517.0	-442.1	680.2	663.4	16.87	40.331	ES
3,400.0	3,400.0	3,410.3	3,410.1	5.3	12.6	-139.47	-517.4	-442.4	680.7	663.5	17.26	39.438	
3,500.0	3,500.0	3,514.7	3,514.5	5.4	13.0	-139.46	-517.6	-442.7	681.1	663.4	17.69	38.502	
3,600.0	3,600.0	3,610.8	3,610.5	5.5	13.3	-139.41	-517.6	-443.4	681.5	663.4	18.09	37.671	
3,700.0	3,700.0	3,712.8	3,712.5	5.7	13.7	-139.37	-517.7	-444.1	682.1	663.6	18.51	36.843	
3,800.0	3,800.0	3,813.1	3,812.8	5.8	14.0	-139.34	-517.7	-444.6	682.4	663.5	18.93	36.048	
3,900.0	3,900.0	3,910.3	3,910.0	5.9	14.4	-139.27	-517.6	-445.6	683.0	663.6	19.34	35.315	
4,000.0	4,000.0	4,005.8	4,005.5	6.0	14.7	-139.20	-517.9	-446.9	684.1	664.4	19.74	34.652	
4,100.0	4,100.0	4,107.0	4,106.7	6.1	15.0	-139.15	-518.4	-448.3	685.5	665.3	20.17	33.983	
4,200.0	4,200.0	4,207.5	4,207.2	6.2	15.4	-139.11	-519.1	-449.4	686.7	666.1	20.60	33.334	
4,300.0	4,300.0	4,304.0	4,303.7	6.3	15.7	-139.09	-519.9	-450.6	688.1	667.1	21.02	32.741	
4,400.0	4,400.0	4,405.6	4,405.3	6.5	16.1	-139.06	-520.9	-451.8	689.7	668.2	21.46	32.143	
4,500.0	4,500.0	4,502.4	4,502.0	6.6	16.4	-139.05	-522.1	-453.0	691.4	669.5	21.88	31.597	
4,600.0	4,600.0	4,602.3	4,601.9	6.7	16.8	-139.04	-523.4	-454.4	693.3	671.0	22.32	31.065	
4,700.0	4,700.0	4,700.0	4,699.6	6.8	17.1	-139.05	-525.2	-455.7	695.5	672.8	22.75	30.574	

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 #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - SKEEN 21 STATE COM 2H - OWB - AWP — **Offset Site Error:** 3.0 usft

Survey Program: 100-GYRO-NS, 6260-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	4,800.0	4,797.3	4,796.9	6.9	17.4	-139.09	-527.4	-457.0	698.1	675.0	23.18	30.112	
4,900.0	4,900.0	4,898.9	4,898.4	7.0	17.8	-139.11	-529.5	-458.5	700.7	677.0	23.63	29.646	
5,000.0	5,000.0	5,001.1	5,000.6	7.2	18.2	-139.12	-531.4	-459.9	702.9	678.8	24.09	29.181	
5,100.0	5,100.0	5,097.5	5,097.0	7.3	18.5	-139.16	-533.4	-461.0	705.3	680.7	24.52	28.761	
5,200.0	5,200.0	5,197.2	5,196.6	7.4	18.8	-139.19	-535.6	-462.5	707.9	682.9	24.97	28.352	
5,300.0	5,300.0	5,294.2	5,293.7	7.5	19.2	-139.23	-538.0	-463.9	710.7	685.3	25.40	27.976	
5,400.0	5,400.0	5,391.7	5,391.0	7.6	19.5	-139.27	-540.7	-465.6	713.9	688.1	25.84	27.626	
5,500.0	5,500.0	5,494.5	5,493.8	7.8	19.9	-139.29	-543.4	-467.6	717.2	690.9	26.30	27.267	
5,600.0	5,600.0	5,593.9	5,593.2	7.8	20.2	115.40	-545.7	-469.5	720.9	694.2	26.73	26.974	
5,700.0	5,699.8	5,695.9	5,695.2	7.8	20.6	115.69	-547.9	-471.5	726.1	699.0	27.14	26.755	
5,747.1	5,746.8	5,744.5	5,743.7	7.9	20.8	115.91	-548.9	-472.3	729.0	701.6	27.33	26.671	
5,800.0	5,799.5	5,799.0	5,798.1	7.9	20.9	116.24	-549.8	-473.2	732.3	704.7	27.55	26.582	
5,900.0	5,899.1	5,897.3	5,896.5	7.9	21.3	116.81	-551.8	-474.5	738.5	710.5	27.94	26.429	
6,000.0	5,998.8	5,994.4	5,993.5	7.9	21.6	117.37	-553.7	-476.1	745.0	716.7	28.33	26.296	
6,100.0	6,098.4	6,096.7	6,095.8	7.9	22.0	117.97	-555.7	-477.9	751.6	722.9	28.74	26.150	
6,200.0	6,198.0	6,190.3	6,189.4	8.0	22.3	118.48	-557.8	-479.4	758.5	729.4	29.11	26.058 SF	
6,300.0	6,297.6	6,289.6	6,288.6	8.0	22.4	118.99	-560.6	-481.1	765.8	736.5	29.29	26.145	
6,400.0	6,397.3	6,356.0	6,354.8	8.0	22.4	119.18	-565.0	-482.0	775.6	746.2	29.36	26.417	
6,500.0	6,496.9	6,404.4	6,402.6	8.0	22.4	119.08	-572.5	-482.3	790.8	761.4	29.39	26.907	
6,600.0	6,596.5	6,458.9	6,455.5	8.1	22.4	118.69	-585.5	-482.0	811.6	782.2	29.42	27.592	
6,700.0	6,696.1	6,515.0	6,508.7	8.1	22.5	118.01	-603.4	-480.3	837.1	807.7	29.44	28.437	
6,800.0	6,795.8	6,566.1	6,555.3	8.1	22.5	117.12	-624.0	-477.6	867.8	838.4	29.43	29.484	
6,900.0	6,895.4	6,610.0	6,593.9	8.2	22.5	116.23	-644.7	-474.7	903.6	874.2	29.38	30.756	
7,000.0	6,995.0	6,654.1	6,631.1	8.2	22.5	115.19	-668.1	-471.1	944.4	915.1	29.33	32.200	
7,100.0	7,094.7	6,686.5	6,657.2	8.3	22.6	114.38	-687.1	-468.6	990.7	961.5	29.22	33.907	
7,200.0	7,194.3	6,706.0	6,672.4	8.3	22.6	113.89	-699.3	-467.4	1,042.4	1,013.3	29.03	35.903	
7,300.0	7,293.9	6,738.0	6,696.4	8.4	22.7	113.06	-720.4	-465.6	1,098.5	1,069.6	28.95	37.942	
7,400.0	7,393.5	6,770.0	6,719.1	8.4	22.7	112.22	-742.8	-464.0	1,158.9	1,130.0	28.89	40.113	
7,500.0	7,493.2	6,802.0	6,740.6	8.5	22.8	111.36	-766.5	-462.5	1,223.0	1,194.2	28.85	42.393	
7,600.0	7,592.8	6,817.4	6,750.4	8.5	22.8	110.94	-778.3	-461.8	1,290.4	1,261.7	28.73	44.921	
7,700.0	7,692.4	6,836.0	6,762.0	8.6	22.9	110.44	-792.9	-461.1	1,360.8	1,332.1	28.65	47.490	
7,800.0	7,792.1	6,867.0	6,780.2	8.6	22.9	109.60	-818.0	-460.0	1,433.9	1,405.2	28.69	49.971	
7,900.0	7,891.7	6,867.0	6,780.2	8.7	22.9	109.60	-818.0	-460.0	1,509.3	1,480.7	28.56	52.848	
8,000.0	7,991.3	6,883.9	6,789.4	8.8	23.0	109.15	-832.2	-459.5	1,586.9	1,558.3	28.58	55.529	
8,100.0	8,090.9	6,899.0	6,797.1	8.8	23.0	108.74	-845.1	-459.1	1,666.7	1,638.0	28.61	58.249	
8,200.0	8,190.6	6,899.0	6,797.1	8.9	23.0	108.74	-845.1	-459.1	1,748.2	1,719.6	28.57	61.192	
8,300.0	8,290.2	6,913.2	6,803.9	9.0	23.1	108.36	-857.6	-458.8	1,831.2	1,802.5	28.66	63.885	
8,400.0	8,389.8	6,931.0	6,811.8	9.0	23.1	107.88	-873.5	-458.5	1,915.8	1,887.0	28.81	66.497	
8,500.0	8,489.5	6,931.0	6,811.8	9.1	23.1	107.88	-873.5	-458.5	2,001.4	1,972.5	28.84	69.389	
8,600.0	8,589.1	6,931.0	6,811.8	9.2	23.1	107.88	-873.5	-458.5	2,088.2	2,059.3	28.90	72.261	
8,700.0	8,688.7	6,931.0	6,811.8	9.3	23.1	107.88	-873.5	-458.5	2,176.2	2,147.3	28.98	75.107	
8,800.0	8,788.3	6,946.4	6,817.9	9.3	23.2	107.47	-887.7	-458.4	2,264.8	2,235.6	29.19	77.581	
8,909.3	8,897.2	6,963.0	6,823.8	9.4	23.3	107.03	-903.2	-458.3	2,362.9	2,333.2	29.69	79.579	
8,950.0	8,937.7	6,963.0	6,823.8	9.4	23.3	70.11	-903.2	-458.3	2,399.0	2,369.3	29.73	80.691	
9,000.0	8,987.1	6,963.0	6,823.8	9.4	23.3	49.64	-903.2	-458.3	2,441.9	2,412.1	29.77	82.032	
9,050.0	9,035.6	6,963.0	6,823.8	9.4	23.3	39.43	-903.2	-458.3	2,482.9	2,453.1	29.79	83.331	
9,100.0	9,083.0	6,963.0	6,823.8	9.4	23.3	33.24	-903.2	-458.3	2,521.8	2,492.0	29.82	84.578	
9,150.0	9,128.9	6,963.0	6,823.8	9.5	23.3	29.04	-903.2	-458.3	2,558.4	2,528.6	29.83	85.765	
9,200.0	9,172.9	6,963.0	6,823.8	9.5	23.3	26.00	-903.2	-458.3	2,592.7	2,562.8	29.84	86.884	
9,250.0	9,214.7	6,977.2	6,828.2	9.6	23.3	23.65	-916.7	-458.2	2,624.0	2,594.0	29.96	87.597	
9,300.0	9,254.0	6,995.0	6,832.9	9.6	23.4	21.83	-933.8	-458.1	2,652.9	2,622.8	30.09	88.153	
9,350.0	9,290.5	6,995.0	6,832.9	9.7	23.4	20.45	-933.8	-458.1	2,678.4	2,648.3	30.09	88.998	

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 #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - SKEEN 21 STATE COM 2H - OWB - AWP — **Offset Site Error:** 3.0 usft

Survey Program: 100-GYRO-NS, 6260-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
9,400.0	9,323.9	6,995.0	6,832.9	9.8	23.4	19.36	-933.8	-458.1	2,700.9	2,670.8	30.10	89.742	
9,450.0	9,354.0	6,995.0	6,832.9	9.8	23.4	18.50	-933.8	-458.1	2,720.3	2,690.2	30.10	90.377	
9,500.0	9,380.4	6,995.0	6,832.9	9.9	23.4	17.82	-933.8	-458.1	2,736.6	2,706.5	30.11	90.896	
9,550.0	9,403.1	7,009.6	6,836.2	10.0	23.5	17.29	-948.1	-458.0	2,749.3	2,719.0	30.22	90.971	
9,600.0	9,421.9	7,027.0	6,839.3	10.1	23.5	16.90	-965.2	-457.9	2,758.9	2,728.5	30.36	90.870	
9,650.0	9,436.5	7,027.0	6,839.3	10.2	23.5	16.65	-965.2	-457.9	2,764.7	2,734.3	30.38	90.989	
9,700.0	9,447.0	7,027.0	6,839.3	10.3	23.5	16.51	-965.2	-457.9	2,767.1	2,736.7	30.42	90.975	
9,750.0	9,453.1	7,027.0	6,839.3	10.4	23.5	16.47	-965.2	-457.9	2,766.2	2,735.8	30.46	90.825	
9,798.6	9,454.9	7,027.0	6,839.3	10.5	23.5	16.54	-965.2	-457.9	2,762.1	2,731.6	30.50	90.549	
9,800.0	9,454.9	7,027.0	6,839.3	10.5	23.5	16.54	-965.2	-457.9	2,761.9	2,731.4	30.51	90.535	
9,900.0	9,454.5	7,055.9	6,842.8	10.8	23.7	16.56	-993.8	-457.5	2,751.0	2,719.9	31.14	88.349	
10,000.0	9,454.0	7,092.0	6,844.4	11.2	23.9	16.55	-1,029.9	-456.7	2,744.0	2,712.1	31.95	85.886	
10,100.0	9,453.6	7,092.0	6,844.4	11.6	23.9	16.55	-1,029.9	-456.7	2,739.0	2,706.8	32.18	85.117	
10,200.0	9,453.1	7,108.4	6,844.3	12.1	24.0	16.55	-1,046.3	-456.2	2,737.5	2,705.0	32.56	84.082	
10,205.3	9,453.1	7,110.2	6,844.3	12.2	24.0	16.55	-1,048.1	-456.2	2,737.5	2,704.9	32.59	84.009	
10,300.0	9,452.7	7,187.6	6,842.6	12.7	24.5	16.48	-1,125.4	-453.2	2,738.1	2,705.0	33.12	82.680	
10,400.0	9,452.2	7,373.4	6,841.2	13.3	25.8	16.26	-1,310.8	-441.7	2,736.4	2,702.4	33.99	80.502	
10,500.0	9,451.8	7,440.0	6,840.8	14.0	26.4	16.17	-1,377.2	-436.6	2,734.5	2,699.9	34.59	79.043	
10,600.0	9,451.3	7,512.7	6,839.4	14.7	27.0	16.06	-1,449.7	-431.3	2,733.9	2,698.6	35.27	77.523	
10,700.0	9,450.9	7,615.7	6,837.0	15.4	28.0	15.89	-1,552.4	-423.4	2,733.7	2,697.6	36.09	75.744	
10,800.0	9,450.4	7,763.6	6,834.3	16.1	29.6	15.61	-1,699.6	-409.2	2,732.6	2,695.4	37.19	73.470	
10,900.0	9,450.0	7,949.0	6,837.4	16.9	31.7	15.37	-1,884.4	-395.5	2,728.4	2,689.8	38.62	70.654	
11,000.0	9,449.5	7,992.5	6,838.2	17.6	32.2	15.32	-1,927.8	-392.8	2,724.3	2,685.0	39.34	69.259	
11,100.0	9,449.1	8,076.0	6,838.8	18.4	33.3	15.22	-2,011.2	-387.4	2,721.6	2,681.3	40.29	67.545	
11,200.0	9,448.6	8,139.0	6,838.4	19.1	34.0	15.13	-2,074.0	-382.8	2,720.0	2,678.8	41.17	66.073	
11,300.0	9,448.2	8,214.3	6,836.7	19.9	35.0	15.02	-2,149.1	-377.2	2,719.7	2,677.5	42.13	64.556	
11,400.0	9,447.7	8,393.0	6,836.6	20.7	37.3	14.78	-2,327.3	-364.4	2,717.2	2,673.5	43.73	62.142	
11,500.0	9,447.3	8,457.0	6,836.8	21.5	38.2	14.68	-2,391.1	-359.2	2,714.6	2,669.9	44.70	60.725	
11,592.6	9,446.9	8,501.0	6,835.8	22.2	38.8	14.60	-2,434.8	-355.3	2,714.0	2,668.4	45.52	59.625	
11,600.0	9,446.8	8,505.4	6,835.7	22.3	38.8	14.59	-2,439.3	-354.9	2,714.0	2,668.4	45.59	59.532	
11,700.0	9,446.4	8,598.8	6,832.6	23.1	40.1	14.40	-2,532.1	-345.8	2,714.4	2,667.6	46.74	58.073	
11,800.0	9,445.9	8,774.2	6,828.7	23.9	42.6	13.99	-2,706.4	-326.0	2,713.4	2,665.0	48.42	56.034	
11,900.0	9,445.5	8,905.0	6,828.4	24.7	44.5	13.67	-2,836.2	-310.2	2,710.4	2,660.5	49.83	54.387	
12,000.0	9,445.0	9,021.5	6,829.4	25.5	46.2	13.43	-2,952.1	-297.7	2,706.7	2,655.5	51.20	52.868	
12,100.0	9,444.6	9,092.0	6,830.7	26.3	47.3	13.32	-3,022.2	-291.4	2,702.7	2,650.4	52.29	51.690	
12,200.0	9,444.1	9,156.0	6,830.9	27.2	48.2	13.23	-3,086.1	-287.0	2,700.4	2,647.1	53.37	50.601	
12,257.3	9,443.9	9,169.4	6,830.6	27.6	48.4	13.22	-3,099.4	-286.2	2,700.1	2,646.3	53.83	50.163	
12,300.0	9,443.7	9,200.7	6,830.0	28.0	48.9	13.18	-3,130.7	-284.4	2,700.2	2,645.9	54.32	49.712	
12,400.0	9,443.2	9,328.4	6,828.1	28.8	50.8	13.07	-3,258.3	-278.8	2,700.3	2,644.5	55.84	48.355	
12,500.0	9,442.8	9,492.3	6,828.2	29.6	53.2	12.85	-3,421.6	-267.2	2,698.2	2,640.6	57.61	46.835	
12,600.0	9,442.3	9,602.8	6,828.6	30.5	54.9	12.62	-3,531.6	-255.8	2,695.2	2,636.2	59.00	45.679	
12,700.0	9,441.9	9,677.5	6,828.7	31.3	56.1	12.48	-3,605.9	-248.4	2,692.5	2,632.3	60.18	44.744	
12,800.0	9,441.4	9,757.8	6,828.6	32.1	57.3	12.31	-3,685.8	-240.2	2,690.1	2,628.8	61.39	43.821	
12,876.0	9,441.1	9,790.0	6,828.1	32.7	57.8	12.24	-3,717.8	-236.7	2,689.4	2,627.3	62.12	43.295	
12,900.0	9,441.0	9,790.0	6,828.1	32.9	57.8	12.24	-3,717.8	-236.7	2,689.6	2,627.3	62.28	43.188	
13,000.0	9,440.5	9,890.5	6,824.6	33.8	59.4	12.03	-3,817.8	-226.9	2,690.5	2,626.9	63.67	42.260	
13,100.0	9,440.1	10,092.4	6,823.5	34.6	62.5	11.62	-4,018.6	-206.7	2,687.8	2,622.0	65.74	40.882	
13,200.0	9,439.6	10,202.8	6,824.1	35.4	64.3	11.36	-4,128.2	-193.5	2,684.4	2,617.3	67.17	39.966	
13,300.0	9,439.2	10,313.9	6,825.0	36.3	66.0	11.14	-4,238.7	-182.0	2,681.3	2,612.7	68.62	39.075	
13,400.0	9,438.7	10,362.0	6,825.4	37.1	66.8	11.05	-4,286.6	-177.4	2,678.4	2,608.7	69.66	38.450	
13,500.0	9,438.3	10,426.0	6,824.9	38.0	67.8	10.94	-4,350.4	-172.0	2,677.3	2,606.5	70.81	37.809	
13,508.7	9,438.2	10,426.0	6,824.9	38.0	67.8	10.94	-4,350.4	-172.0	2,677.3	2,606.4	70.87	37.777	

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 #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - SKEEN 21 STATE COM 2H - OWB - AWP — **Offset Site Error:** 3.0 usft

Survey Program: 100-GYRO-NS, 6260-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
13,600.0	9,437.8	10,528.7	6,822.7	38.8	69.4	10.74	-4,452.6	-162.7	2,677.3	2,605.1	72.23	37.068	
13,700.0	9,437.4	10,616.0	6,820.9	39.6	70.8	10.55	-4,539.4	-153.3	2,677.0	2,603.5	73.52	36.411	
13,744.2	9,437.2	10,681.5	6,819.7	40.0	71.9	10.42	-4,604.6	-147.2	2,676.9	2,602.6	74.29	36.033	
13,800.0	9,436.9	10,779.3	6,819.2	40.5	73.4	10.23	-4,701.9	-137.8	2,676.0	2,600.6	75.36	35.510	
13,900.0	9,436.5	10,871.0	6,819.3	41.3	74.9	10.05	-4,793.2	-128.8	2,673.7	2,597.0	76.70	34.859	
14,000.0	9,436.0	10,963.1	6,819.3	42.2	76.4	9.85	-4,884.7	-118.9	2,671.6	2,593.5	78.05	34.231	
14,100.0	9,435.6	11,040.1	6,818.1	43.0	77.6	9.67	-4,961.3	-110.3	2,670.7	2,591.4	79.29	33.683	
14,200.0	9,435.1	11,152.6	6,816.7	43.9	79.4	9.41	-5,073.1	-97.8	2,669.7	2,589.0	80.77	33.053	
14,300.0	9,434.7	11,235.0	6,815.8	44.7	80.8	9.20	-5,154.8	-87.5	2,668.5	2,586.4	82.04	32.526	
14,313.5	9,434.6	11,235.0	6,815.8	44.8	80.8	9.20	-5,154.8	-87.5	2,668.4	2,586.3	82.14	32.488	
14,400.0	9,434.2	11,235.0	6,815.8	45.6	80.8	9.20	-5,154.8	-87.5	2,669.8	2,587.1	82.71	32.279	
14,500.0	9,433.8	11,235.0	6,815.8	46.4	80.8	9.20	-5,154.8	-87.5	2,674.9	2,591.6	83.29	32.115	
14,600.0	9,433.3	11,235.0	6,815.8	47.2	80.8	9.20	-5,154.8	-87.5	2,683.8	2,600.0	83.78	32.032	
14,644.4	9,433.1	11,235.0	6,815.8	47.6	80.8	9.20	-5,154.8	-87.5	2,688.9	2,604.9	83.97	32.020	
14,654.0	9,433.1	11,235.0	6,815.8	47.7	80.8	9.22	-5,154.8	-87.5	2,690.1	2,606.0	84.01	32.020	
14,700.0	9,432.8	11,235.0	6,815.8	48.1	80.8	9.22	-5,154.8	-87.5	2,696.2	2,612.1	84.19	32.027	
14,800.0	9,432.4	11,235.0	6,815.8	48.9	80.8	9.22	-5,154.8	-87.5	2,712.3	2,627.8	84.50	32.098	
14,900.0	9,431.9	11,235.0	6,815.8	49.8	80.8	9.22	-5,154.8	-87.5	2,732.0	2,647.3	84.73	32.244	
15,000.0	9,431.5	11,235.0	6,815.8	50.6	80.8	9.22	-5,154.8	-87.5	2,755.1	2,670.3	84.88	32.460	
15,100.0	9,431.0	11,235.0	6,815.8	51.5	80.8	9.22	-5,154.8	-87.5	2,781.7	2,696.7	84.95	32.747	
15,200.0	9,430.6	11,235.0	6,815.8	52.3	80.8	9.22	-5,154.8	-87.5	2,811.5	2,726.6	84.94	33.100	
15,300.0	9,430.1	11,235.0	6,815.8	53.2	80.8	9.22	-5,154.8	-87.5	2,844.6	2,759.7	84.87	33.518	
15,400.0	9,429.7	11,235.0	6,815.8	54.0	80.8	9.22	-5,154.8	-87.5	2,880.8	2,796.0	84.73	33.997	
15,500.0	9,429.2	11,235.0	6,815.8	54.9	80.8	9.22	-5,154.8	-87.5	2,919.9	2,835.3	84.54	34.537	
15,600.0	9,428.8	11,235.0	6,815.8	55.7	80.8	9.22	-5,154.8	-87.5	2,961.9	2,877.6	84.30	35.134	
15,700.0	9,428.3	11,235.0	6,815.8	56.6	80.8	9.22	-5,154.8	-87.5	3,006.6	2,922.6	84.02	35.786	
15,800.0	9,427.9	11,235.0	6,815.8	57.4	80.8	9.22	-5,154.8	-87.5	3,054.0	2,970.3	83.69	36.491	
15,900.0	9,427.4	11,235.0	6,815.8	58.3	80.8	9.22	-5,154.8	-87.5	3,103.8	3,020.5	83.33	37.246	
16,000.0	9,427.0	11,235.0	6,815.8	59.1	80.8	9.22	-5,154.8	-87.5	3,156.1	3,073.1	82.95	38.049	
16,100.0	9,426.5	11,235.0	6,815.8	60.0	80.8	9.22	-5,154.8	-87.5	3,210.6	3,128.0	82.54	38.898	
16,200.0	9,426.1	11,235.0	6,815.8	60.8	80.8	9.22	-5,154.8	-87.5	3,267.2	3,185.1	82.11	39.790	
16,300.0	9,425.6	11,235.0	6,815.8	61.7	80.8	9.22	-5,154.8	-87.5	3,325.9	3,244.3	81.67	40.724	
16,400.0	9,425.2	11,235.0	6,815.8	62.5	80.8	9.22	-5,154.8	-87.5	3,386.6	3,305.3	81.22	41.697	
16,500.0	9,424.7	11,235.0	6,815.8	63.4	80.8	9.22	-5,154.8	-87.5	3,449.0	3,368.3	80.76	42.707	
16,600.0	9,424.3	11,235.0	6,815.8	64.2	80.8	9.22	-5,154.8	-87.5	3,513.2	3,432.9	80.30	43.753	
16,700.0	9,423.8	11,235.0	6,815.8	65.1	80.8	9.22	-5,154.8	-87.5	3,579.1	3,499.2	79.83	44.833	
16,800.0	9,423.4	11,235.0	6,815.8	65.9	80.8	9.22	-5,154.8	-87.5	3,646.5	3,567.1	79.37	45.943	
16,900.0	9,422.9	11,235.0	6,815.8	66.8	80.8	9.22	-5,154.8	-87.5	3,715.3	3,636.4	78.91	47.084	
17,000.0	9,422.5	11,235.0	6,815.8	67.7	80.8	9.22	-5,154.8	-87.5	3,785.6	3,707.1	78.45	48.253	
17,100.0	9,422.0	11,235.0	6,815.8	68.5	80.8	9.22	-5,154.8	-87.5	3,857.2	3,779.2	78.00	49.448	
17,200.0	9,421.5	11,235.0	6,815.8	69.4	80.8	9.22	-5,154.8	-87.5	3,930.0	3,852.4	77.56	50.669	
17,300.0	9,421.1	11,235.0	6,815.8	70.2	80.8	9.22	-5,154.8	-87.5	4,004.0	3,926.8	77.13	51.912	
17,400.0	9,420.6	11,235.0	6,815.8	71.1	80.8	9.22	-5,154.8	-87.5	4,079.1	4,002.4	76.71	53.178	
17,500.0	9,420.2	11,235.0	6,815.8	71.9	80.8	9.22	-5,154.8	-87.5	4,155.2	4,078.9	76.29	54.464	
17,600.0	9,419.7	11,235.0	6,815.8	72.8	80.8	9.22	-5,154.8	-87.5	4,232.3	4,156.5	75.89	55.769	
17,700.0	9,419.3	11,235.0	6,815.8	73.6	80.8	9.22	-5,154.8	-87.5	4,310.4	4,234.9	75.50	57.092	
17,800.0	9,418.8	11,235.0	6,815.8	74.5	80.8	9.22	-5,154.8	-87.5	4,389.4	4,314.3	75.12	58.432	
17,900.0	9,418.4	11,235.0	6,815.8	75.3	80.8	9.22	-5,154.8	-87.5	4,469.2	4,394.5	74.75	59.787	
18,000.0	9,417.9	11,235.0	6,815.8	76.2	80.8	9.22	-5,154.8	-87.5	4,549.8	4,475.4	74.40	61.157	
18,100.0	9,417.5	11,235.0	6,815.8	77.0	80.8	9.22	-5,154.8	-87.5	4,631.2	4,557.1	74.05	62.540	
18,200.0	9,417.0	11,235.0	6,815.8	77.9	80.8	9.22	-5,154.8	-87.5	4,713.3	4,639.5	73.72	63.936	
18,300.0	9,416.6	11,235.0	6,815.8	78.8	80.8	9.22	-5,154.8	-87.5	4,796.0	4,722.6	73.40	65.343	

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 #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design BOO RADLEY COM PROJECT - SKEEN 21 STATE COM 2H - OWB - AWP — **Offset Site Error:** 3.0 usft

Survey Program: 100-GYRO-NS, 6260-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
18,400.0	9,416.1	11,235.0	6,815.8	79.6	80.8	9.22	-5,154.8	-87.5	4,879.4	4,806.3	73.09	66.760	
18,500.0	9,415.7	11,235.0	6,815.8	80.5	80.8	9.22	-5,154.8	-87.5	4,963.4	4,890.7	72.79	68.187	
18,600.0	9,415.2	11,235.0	6,815.8	81.3	80.8	9.22	-5,154.8	-87.5	5,048.0	4,975.5	72.51	69.623	
18,700.0	9,414.8	11,235.0	6,815.8	82.2	80.8	9.22	-5,154.8	-87.5	5,133.2	5,061.0	72.23	71.067	
18,800.0	9,414.3	11,235.0	6,815.8	83.0	80.8	9.22	-5,154.8	-87.5	5,218.9	5,146.9	71.97	72.518	
18,900.0	9,413.9	11,235.0	6,815.8	83.9	80.8	9.22	-5,154.8	-87.5	5,305.1	5,233.4	71.71	73.976	
19,000.0	9,413.4	11,235.0	6,815.8	84.7	80.8	9.22	-5,154.8	-87.5	5,391.7	5,320.3	71.47	75.439	
19,100.0	9,413.0	11,235.0	6,815.8	85.6	80.8	9.22	-5,154.8	-87.5	5,478.9	5,407.6	71.24	76.908	
19,200.0	9,412.5	11,235.0	6,815.8	86.5	80.8	9.22	-5,154.8	-87.5	5,566.4	5,495.4	71.02	78.381	
19,300.0	9,412.1	11,235.0	6,815.8	87.3	80.8	9.22	-5,154.8	-87.5	5,654.4	5,583.6	70.80	79.859	
19,400.0	9,411.6	11,235.0	6,815.8	88.2	80.8	9.22	-5,154.8	-87.5	5,742.7	5,672.1	70.60	81.340	
19,500.0	9,411.2	11,235.0	6,815.8	89.0	80.8	9.22	-5,154.8	-87.5	5,831.5	5,761.0	70.41	82.824	
19,600.0	9,410.7	11,235.0	6,815.8	89.9	80.8	9.22	-5,154.8	-87.5	5,920.5	5,850.3	70.22	84.310	
19,700.0	9,410.2	11,235.0	6,815.8	90.7	80.8	9.22	-5,154.8	-87.5	6,010.0	5,939.9	70.05	85.799	
19,800.0	9,409.8	11,235.0	6,815.8	91.6	80.8	9.22	-5,154.8	-87.5	6,099.7	6,029.9	69.88	87.289	
19,900.0	9,409.3	11,235.0	6,815.8	92.4	80.8	9.22	-5,154.8	-87.5	6,189.8	6,120.1	69.72	88.780	
19,931.5	9,409.2	11,235.0	6,815.8	92.7	80.8	9.22	-5,154.8	-87.5	6,218.3	6,148.6	69.67	89.250	
19,936.7	9,409.2	11,235.0	6,815.8	92.8	80.8	9.01	-5,154.8	-87.5	6,222.9	6,153.3	69.66	89.327	
20,000.0	9,408.9	11,235.0	6,815.8	93.3	80.8	9.01	-5,154.8	-87.5	6,280.2	6,210.6	69.57	90.272	
20,100.0	9,408.4	11,235.0	6,815.8	94.2	80.8	9.01	-5,154.8	-87.5	6,370.9	6,301.4	69.43	91.764	
20,200.0	9,408.0	11,235.0	6,815.8	95.0	80.8	9.01	-5,154.8	-87.5	6,461.8	6,392.5	69.29	93.256	
20,300.0	9,407.5	11,235.0	6,815.8	95.9	80.8	9.01	-5,154.8	-87.5	6,553.0	6,483.9	69.16	94.748	
20,400.0	9,407.1	11,235.0	6,815.8	96.7	80.8	9.01	-5,154.8	-87.5	6,644.5	6,575.5	69.04	96.240	
20,500.0	9,406.6	11,235.0	6,815.8	97.6	80.8	9.01	-5,154.8	-87.5	6,736.2	6,667.3	68.93	97.730	
20,600.0	9,406.2	11,235.0	6,815.8	98.4	80.8	9.01	-5,154.8	-87.5	6,828.2	6,759.3	68.82	99.219	
20,700.0	9,405.7	11,235.0	6,815.8	99.3	80.8	9.01	-5,154.8	-87.5	6,920.3	6,851.6	68.72	100.706	
20,800.0	9,405.3	11,235.0	6,815.8	100.1	80.8	9.01	-5,154.8	-87.5	7,012.7	6,944.1	68.62	102.192	
20,900.0	9,404.8	11,235.0	6,815.8	101.0	80.8	9.01	-5,154.8	-87.5	7,105.3	7,036.8	68.53	103.675	
21,000.0	9,404.3	11,235.0	6,815.8	101.9	80.8	9.01	-5,154.8	-87.5	7,198.1	7,129.6	68.45	105.156	
21,100.0	9,403.9	11,235.0	6,815.8	102.7	80.8	9.01	-5,154.8	-87.5	7,291.1	7,222.7	68.37	106.635	
21,200.0	9,403.4	11,235.0	6,815.8	103.6	80.8	9.01	-5,154.8	-87.5	7,384.2	7,315.9	68.30	108.111	
21,300.0	9,403.0	11,235.0	6,815.8	104.4	80.8	9.01	-5,154.8	-87.5	7,477.6	7,409.3	68.24	109.583	
21,400.0	9,402.5	11,235.0	6,815.8	105.3	80.8	9.01	-5,154.8	-87.5	7,571.1	7,502.9	68.18	111.053	
21,500.0	9,402.1	11,235.0	6,815.8	106.1	80.8	9.01	-5,154.8	-87.5	7,664.7	7,596.6	68.12	112.519	
21,600.0	9,401.6	11,235.0	6,815.8	107.0	80.8	9.01	-5,154.8	-87.5	7,758.6	7,690.5	68.07	113.982	
21,700.0	9,401.2	11,235.0	6,815.8	107.9	80.8	9.01	-5,154.8	-87.5	7,852.5	7,784.5	68.02	115.441	
21,800.0	9,400.7	11,235.0	6,815.8	108.7	80.8	9.01	-5,154.8	-87.5	7,946.7	7,878.7	67.98	116.896	
21,900.0	9,400.3	11,235.0	6,815.8	109.6	80.8	9.01	-5,154.8	-87.5	8,040.9	7,973.0	67.94	118.347	
21,956.3	9,400.0	11,235.0	6,815.8	110.1	80.8	9.01	-5,154.8	-87.5	8,094.1	8,026.2	67.92	119.163	

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design HONEY GRAHAM STATE PROJECT (ATLAS 2628) - GRAHAM CRACKER 16 STATE #3H - OWB - AW — **Offset Site Error:** 0.0 usft

Survey Program: 100-GYRO-NS, 7447-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	41.9	41.9	4.2	3.0	-6.51	4,935.1	-563.4	4,967.2				
100.0	100.0	143.3	143.3	4.2	3.0	-6.51	4,935.3	-563.5	4,967.4	4,960.1	7.27	683.215	
200.0	200.0	318.6	318.6	4.2	3.3	-6.52	4,934.4	-563.7	4,966.9	4,959.5	7.42	669.570	
300.0	300.0	409.2	409.2	4.3	3.5	-6.52	4,933.3	-563.9	4,965.8	4,958.2	7.55	657.554	
400.0	400.0	548.8	548.8	4.3	3.8	-6.53	4,930.7	-564.8	4,963.9	4,956.1	7.79	636.848	
500.0	500.0	647.8	647.7	4.3	4.1	-6.55	4,928.6	-565.5	4,961.9	4,953.9	8.00	620.182	
600.0	600.0	805.1	805.0	4.3	4.5	-6.56	4,924.7	-566.5	4,959.6	4,951.3	8.37	592.414	
700.0	700.0	879.5	879.4	4.3	4.7	-6.56	4,922.6	-566.3	4,956.8	4,948.2	8.60	576.306	
800.0	800.0	963.0	962.8	4.4	4.9	-6.56	4,920.6	-565.6	4,954.3	4,945.4	8.88	558.225	
900.0	900.0	1,067.0	1,066.8	4.4	5.2	-6.55	4,918.3	-564.6	4,952.0	4,942.8	9.23	536.481	
1,000.0	1,000.0	1,179.9	1,179.6	4.4	5.6	-6.54	4,915.6	-563.3	4,949.5	4,939.9	9.62	514.469	
1,100.0	1,100.0	1,266.8	1,266.5	4.5	5.8	-6.54	4,913.4	-562.9	4,947.0	4,937.0	9.93	498.294	
1,200.0	1,200.0	1,401.2	1,400.9	4.5	6.3	-6.54	4,910.0	-562.7	4,944.4	4,934.1	10.38	476.399	
1,300.0	1,300.0	1,477.8	1,477.5	4.5	6.5	-6.54	4,907.7	-563.0	4,941.6	4,931.0	10.65	463.943	
1,400.0	1,400.0	1,618.6	1,618.2	4.6	7.0	-6.56	4,903.5	-563.9	4,938.8	4,927.6	11.12	444.094	
1,500.0	1,500.0	1,700.0	1,699.5	4.6	7.2	-6.57	4,901.0	-564.1	4,935.7	4,924.2	11.43	431.815	
1,600.0	1,600.0	1,774.5	1,774.1	4.7	7.5	-6.57	4,898.9	-564.0	4,932.9	4,921.2	11.73	420.702	
1,700.0	1,700.0	1,882.5	1,882.0	4.8	7.9	-6.56	4,896.3	-563.0	4,930.4	4,918.2	12.17	405.243	
1,800.0	1,800.0	1,954.5	1,954.0	4.8	8.1	-6.54	4,894.6	-561.4	4,927.9	4,915.4	12.50	394.272	
1,900.0	1,900.0	2,022.3	2,021.8	4.9	8.3	-6.52	4,893.6	-559.7	4,926.1	4,913.3	12.81	384.469	
2,000.0	2,000.0	2,100.9	2,100.3	5.0	8.6	-6.50	4,892.9	-557.6	4,924.8	4,911.7	13.15	374.482	
2,100.0	2,100.0	2,200.0	2,199.3	5.0	8.9	-6.47	4,892.1	-554.8	4,923.7	4,910.2	13.56	363.100	
2,200.0	2,200.0	2,274.9	2,274.2	5.1	9.1	-6.45	4,891.8	-552.6	4,923.0	4,909.1	13.89	354.544	
2,300.0	2,300.0	2,365.0	2,364.3	5.2	9.4	-6.42	4,891.7	-550.4	4,922.6	4,908.3	14.26	345.160	
2,400.0	2,400.0	2,463.8	2,463.1	5.2	9.7	-6.40	4,891.6	-548.3	4,922.3	4,907.6	14.67	335.535	
2,500.0	2,500.0	2,562.5	2,561.7	5.3	10.0	-6.38	4,891.5	-546.7	4,922.0	4,906.9	15.08	326.377	
2,600.0	2,600.0	2,661.6	2,660.8	5.4	10.3	-6.36	4,891.5	-544.9	4,921.8	4,906.3	15.50	317.624	
2,700.0	2,700.0	2,757.5	2,756.7	5.5	10.6	-6.34	4,891.4	-543.4	4,921.5	4,905.6	15.90	309.503	
2,800.0	2,800.0	2,853.7	2,852.9	5.6	10.9	-6.33	4,891.4	-542.6	4,921.4	4,905.1	16.31	301.732	
2,883.9	2,883.9	2,933.3	2,932.5	5.6	11.1	-6.33	4,891.4	-542.2	4,921.4	4,904.7	16.65	295.584	
2,900.0	2,900.0	2,947.9	2,947.1	5.7	11.2	-6.32	4,891.4	-542.1	4,921.4	4,904.7	16.71	294.487	
3,000.0	3,000.0	3,040.6	3,039.8	5.7	11.5	-6.32	4,891.6	-541.7	4,921.5	4,904.4	17.10	287.736	
3,100.0	3,100.0	12,520.0	8,030.5	5.8	82.8	-70.22	131.7	-366.1	4,897.3	4,853.1	44.26	110.652	
3,200.0	3,200.0	12,520.0	8,030.5	5.9	82.8	-70.22	131.7	-366.1	4,797.7	4,753.3	44.41	108.027	
3,300.0	3,300.0	12,520.0	8,030.5	6.0	82.8	-70.22	131.7	-366.1	4,698.0	4,653.4	44.57	105.415	
3,400.0	3,400.0	12,520.0	8,030.5	6.1	82.8	-70.22	131.7	-366.1	4,598.4	4,553.6	44.72	102.815	
3,500.0	3,500.0	12,520.0	8,030.5	6.2	82.8	-70.22	131.7	-366.1	4,498.7	4,453.8	44.88	100.228	
3,600.0	3,600.0	12,520.0	8,030.5	6.3	82.8	-70.22	131.7	-366.1	4,399.1	4,354.1	45.05	97.653	
3,700.0	3,700.0	12,520.0	8,030.5	6.4	82.8	-70.22	131.7	-366.1	4,299.5	4,254.3	45.21	95.091	
3,800.0	3,800.0	12,520.0	8,030.5	6.5	82.8	-70.22	131.7	-366.1	4,199.9	4,154.5	45.38	92.542	
3,900.0	3,900.0	12,520.0	8,030.5	6.6	82.8	-70.22	131.7	-366.1	4,100.4	4,054.8	45.56	90.005	
4,000.0	4,000.0	12,520.0	8,030.5	6.7	82.8	-70.22	131.7	-366.1	4,000.8	3,955.1	45.73	87.482	
4,100.0	4,100.0	12,520.0	8,030.5	6.8	82.8	-70.22	131.7	-366.1	3,901.3	3,855.4	45.91	84.972	
4,200.0	4,200.0	12,520.0	8,030.5	6.9	82.8	-70.22	131.7	-366.1	3,801.8	3,755.7	46.10	82.475	
4,300.0	4,300.0	12,520.0	8,030.5	7.0	82.8	-70.22	131.7	-366.1	3,702.4	3,656.1	46.28	79.991	
4,400.0	4,400.0	12,520.0	8,030.5	7.1	82.8	-70.22	131.7	-366.1	3,602.9	3,556.5	46.48	77.521	
4,500.0	4,500.0	12,520.0	8,030.5	7.2	82.8	-70.22	131.7	-366.1	3,503.5	3,456.9	46.67	75.064	
4,600.0	4,600.0	12,520.0	8,030.5	7.3	82.8	-70.22	131.7	-366.1	3,404.2	3,357.3	46.88	72.621	
4,700.0	4,700.0	12,520.0	8,030.5	7.4	82.8	-70.22	131.7	-366.1	3,304.8	3,257.8	47.08	70.192	
4,800.0	4,800.0	12,520.0	8,030.5	7.5	82.8	-70.22	131.7	-366.1	3,205.6	3,158.3	47.30	67.777	
4,900.0	4,900.0	12,520.0	8,030.5	7.7	82.8	-70.22	131.7	-366.1	3,106.3	3,058.8	47.51	65.376	
5,000.0	5,000.0	12,520.0	8,030.5	7.8	82.8	-70.22	131.7	-366.1	3,007.1	2,959.4	47.74	62.989	

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 #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design HONEY GRAHAM STATE PROJECT (ATLAS 2628) - GRAHAM CRACKER 16 STATE #3H - OWB - AW — **Offset Site Error:** 0.0 usft

Survey Program: 100-GYRO-NS, 7447-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
5,100.0	5,100.0	12,520.0	8,030.5	7.9	82.8	-70.22	131.7	-366.1	2,908.0	2,860.0	47.97	60.617	
5,200.0	5,200.0	12,520.0	8,030.5	8.0	82.8	-70.22	131.7	-366.1	2,808.9	2,760.7	48.22	58.259	
5,300.0	5,300.0	12,520.0	8,030.5	8.1	82.8	-70.22	131.7	-366.1	2,709.9	2,661.5	48.47	55.915	
5,400.0	5,400.0	12,520.0	8,030.5	8.2	82.8	-70.22	131.7	-366.1	2,611.0	2,562.3	48.73	53.586	
5,500.0	5,500.0	12,520.0	8,030.5	8.3	82.8	-70.22	131.7	-366.1	2,512.2	2,463.2	49.00	51.272	
5,600.0	5,600.0	12,520.0	8,030.5	8.4	82.8	-176.37	131.7	-366.1	2,413.7	2,364.4	49.29	48.969	
5,700.0	5,699.8	12,520.0	8,030.5	8.4	82.8	-176.89	131.7	-366.1	2,316.1	2,266.5	49.62	46.674	
5,747.1	5,746.8	12,520.0	8,030.5	8.4	82.8	-177.09	131.7	-366.1	2,270.5	2,220.7	49.80	45.595	
5,800.0	5,799.5	12,520.0	8,030.5	8.4	82.8	-177.09	131.7	-366.1	2,219.5	2,169.5	50.00	44.389	
5,900.0	5,899.1	12,520.0	8,030.5	8.4	82.8	-177.09	131.7	-366.1	2,123.3	2,072.9	50.41	42.118	
6,000.0	5,998.8	12,520.0	8,030.5	8.5	82.8	-177.09	131.7	-366.1	2,027.4	1,976.5	50.86	39.861	
6,100.0	6,098.4	12,520.0	8,030.5	8.5	82.8	-177.09	131.7	-366.1	1,932.0	1,880.6	51.35	37.620	
6,200.0	6,198.0	12,520.0	8,030.5	8.5	82.8	-177.09	131.7	-366.1	1,837.0	1,785.1	51.90	35.395	
6,300.0	6,297.6	12,520.0	8,030.5	8.5	82.8	-177.09	131.7	-366.1	1,742.6	1,690.1	52.51	33.187	
6,400.0	6,397.3	12,520.0	8,030.5	8.6	82.8	-177.09	131.7	-366.1	1,648.9	1,595.7	53.19	30.998	
6,500.0	6,496.9	12,520.0	8,030.5	8.6	82.8	-177.09	131.7	-366.1	1,555.9	1,501.9	53.97	28.831	
6,600.0	6,596.5	12,520.0	8,030.5	8.6	82.8	-177.09	131.7	-366.1	1,463.9	1,409.0	54.85	26.688	
6,700.0	6,696.1	12,520.0	8,030.5	8.6	82.8	-177.09	131.7	-366.1	1,373.0	1,317.1	55.87	24.574	
6,800.0	6,795.8	12,520.0	8,030.5	8.7	82.8	-177.09	131.7	-366.1	1,283.4	1,226.4	57.05	22.495	
6,900.0	6,895.4	12,520.0	8,030.5	8.7	82.8	-177.09	131.7	-366.1	1,195.5	1,137.1	58.43	20.460	
7,000.0	6,995.0	12,520.0	8,030.5	8.8	82.8	-177.09	131.7	-366.1	1,109.7	1,049.6	60.05	18.480	
7,100.0	7,094.7	12,520.0	8,030.5	8.8	82.8	-177.09	131.7	-366.1	1,026.4	964.4	61.94	16.569	
7,200.0	7,194.3	12,520.0	8,030.5	8.8	82.8	-177.09	131.7	-366.1	946.3	882.2	64.17	14.747	
7,300.0	7,293.9	12,520.0	8,030.5	8.9	82.8	-177.09	131.7	-366.1	870.4	803.7	66.75	13.039	
7,400.0	7,393.5	12,520.0	8,030.5	8.9	82.8	-177.09	131.7	-366.1	799.8	730.1	69.71	11.474	
7,500.0	7,493.2	12,520.0	8,030.5	9.0	82.8	-177.09	131.7	-366.1	736.1	663.1	72.98	10.087	
7,600.0	7,592.8	12,520.0	8,030.5	9.0	82.8	-177.09	131.7	-366.1	681.1	604.7	76.40	8.915	
7,700.0	7,692.4	12,520.0	8,030.5	9.1	82.8	-177.09	131.7	-366.1	637.2	557.5	79.70	7.994	
7,800.0	7,792.1	12,520.0	8,030.5	9.2	82.8	-177.09	131.7	-366.1	606.7	524.2	82.48	7.356	
7,900.0	7,891.7	12,520.0	8,030.5	9.2	82.8	-177.09	131.7	-366.1	591.8	507.4	84.36	7.015	
7,939.5	7,931.1	12,520.0	8,030.5	9.2	82.8	-177.09	131.7	-366.1	590.5	505.7	84.80	6.963	CC, ES, SF
8,000.0	7,991.3	12,520.0	8,030.5	9.3	82.8	-177.09	131.7	-366.1	593.6	508.4	85.13	6.972	
8,100.0	8,090.9	12,520.0	8,030.5	9.3	82.8	-177.09	131.7	-366.1	611.9	527.1	84.82	7.214	
8,200.0	8,190.6	12,520.0	8,030.5	9.4	82.8	-177.09	131.7	-366.1	645.4	561.8	83.59	7.721	
8,300.0	8,290.2	12,520.0	8,030.5	9.5	82.8	-177.09	131.7	-366.1	691.8	610.1	81.75	8.462	
8,400.0	8,389.8	12,520.0	8,030.5	9.5	82.8	-177.09	131.7	-366.1	748.8	669.2	79.63	9.403	
8,500.0	8,489.5	12,520.0	8,030.5	9.6	82.8	-177.09	131.7	-366.1	814.1	736.6	77.49	10.506	
8,600.0	8,589.1	12,520.0	8,030.5	9.7	82.8	-177.09	131.7	-366.1	885.9	810.5	75.48	11.738	
8,700.0	8,688.7	12,520.0	8,030.5	9.7	82.8	-177.09	131.7	-366.1	962.8	889.1	73.68	13.068	
8,800.0	8,788.3	12,520.0	8,030.5	9.8	82.8	-177.09	131.7	-366.1	1,043.6	971.5	72.11	14.472	
8,909.3	8,897.2	12,520.0	8,030.5	9.9	82.8	-177.09	131.7	-366.1	1,135.4	1,064.2	71.15	15.958	
8,950.0	8,937.7	12,520.0	8,030.5	9.9	82.8	143.22	131.7	-366.1	1,170.6	1,099.9	70.65	16.568	
9,000.0	8,987.1	12,520.0	8,030.5	9.9	82.8	117.27	131.7	-366.1	1,214.6	1,144.5	70.06	17.336	
9,050.0	9,035.6	12,520.0	8,030.5	9.9	82.8	100.12	131.7	-366.1	1,259.1	1,189.6	69.49	18.120	
9,100.0	9,083.0	12,520.0	8,030.5	9.9	82.8	86.40	131.7	-366.1	1,303.8	1,234.9	68.94	18.912	
9,150.0	9,128.9	12,520.0	8,030.5	9.9	82.8	74.86	131.7	-366.1	1,348.4	1,279.9	68.42	19.706	
9,200.0	9,172.9	12,520.0	8,030.5	10.0	82.8	65.19	131.7	-366.1	1,392.4	1,324.5	67.93	20.499	
9,250.0	9,214.7	12,520.0	8,030.5	10.0	82.8	57.19	131.7	-366.1	1,435.7	1,368.2	67.45	21.285	
9,300.0	9,254.0	12,520.0	8,030.5	10.1	82.8	50.63	131.7	-366.1	1,477.9	1,410.9	66.99	22.062	
9,350.0	9,290.5	12,520.0	8,030.5	10.1	82.8	45.28	131.7	-366.1	1,518.9	1,452.4	66.54	22.826	
9,400.0	9,323.9	12,520.0	8,030.5	10.2	82.8	40.90	131.7	-366.1	1,558.5	1,492.4	66.11	23.575	
9,450.0	9,354.0	12,520.0	8,030.5	10.3	82.8	37.32	131.7	-366.1	1,596.5	1,530.8	65.68	24.306	

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 #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design HONEY GRAHAM STATE PROJECT (ATLAS 2628) - GRAHAM CRACKER 16 STATE #3H - OWB - AW — **Offset Site Error:** 0.0 usft

Survey Program: 100-GYRO-NS, 7447-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
9,500.0	9,380.4	12,520.0	8,030.5	10.4	82.8	34.38	131.7	-366.1	1,632.7	1,567.4	65.26	25.017	
9,550.0	9,403.1	12,520.0	8,030.5	10.5	82.8	31.95	131.7	-366.1	1,666.9	1,602.1	64.84	25.706	
9,600.0	9,421.9	12,520.0	8,030.5	10.5	82.8	29.94	131.7	-366.1	1,699.1	1,634.6	64.43	26.371	
9,650.0	9,436.5	12,520.0	8,030.5	10.6	82.8	28.28	131.7	-366.1	1,729.0	1,665.0	64.01	27.011	
9,700.0	9,447.0	12,520.0	8,030.5	10.7	82.8	26.90	131.7	-366.1	1,756.7	1,693.1	63.59	27.623	
9,750.0	9,453.1	12,520.0	8,030.5	10.8	82.8	25.78	131.7	-366.1	1,781.9	1,718.8	63.17	28.206	
9,798.6	9,454.9	12,520.0	8,030.5	10.9	82.8	24.89	131.7	-366.1	1,804.1	1,741.3	62.76	28.744	
9,800.0	9,454.9	12,520.0	8,030.5	10.9	82.8	24.89	131.7	-366.1	1,804.7	1,741.9	62.75	28.761	
9,900.0	9,454.5	12,520.0	8,030.5	11.2	82.8	24.89	131.7	-366.1	1,850.1	1,788.2	61.92	29.880	
10,000.0	9,454.0	12,520.0	8,030.5	11.6	82.8	24.89	131.7	-366.1	1,899.6	1,838.5	61.08	31.098	
10,100.0	9,453.6	12,520.0	8,030.5	12.0	82.8	24.89	131.7	-366.1	1,953.1	1,892.8	60.26	32.409	
10,200.0	9,453.1	12,520.0	8,030.5	12.5	82.8	24.89	131.7	-366.1	2,010.1	1,950.6	59.46	33.804	
10,300.0	9,452.7	12,520.0	8,030.5	13.1	82.8	24.89	131.7	-366.1	2,070.3	2,011.6	58.69	35.277	
10,400.0	9,452.2	12,520.0	8,030.5	13.7	82.8	24.89	131.7	-366.1	2,133.6	2,075.6	57.94	36.821	
10,500.0	9,451.8	12,520.0	8,030.5	14.3	82.8	24.89	131.7	-366.1	2,199.5	2,142.3	57.24	38.429	
10,600.0	9,451.3	12,520.0	8,030.5	15.0	82.8	24.89	131.7	-366.1	2,268.0	2,211.4	56.57	40.094	
10,700.0	9,450.9	12,520.0	8,030.5	15.7	82.8	24.89	131.7	-366.1	2,338.7	2,282.8	55.94	41.811	
10,800.0	9,450.4	12,520.0	8,030.5	16.4	82.8	24.89	131.7	-366.1	2,411.5	2,356.2	55.34	43.573	
10,900.0	9,450.0	12,520.0	8,030.5	17.1	82.8	24.89	131.7	-366.1	2,486.2	2,431.4	54.79	45.376	
11,000.0	9,449.5	12,520.0	8,030.5	17.9	82.8	24.89	131.7	-366.1	2,562.7	2,508.4	54.28	47.215	
11,100.0	9,449.1	12,520.0	8,030.5	18.6	82.8	24.89	131.7	-366.1	2,640.7	2,586.9	53.80	49.085	
11,200.0	9,448.6	12,520.0	8,030.5	19.4	82.8	24.89	131.7	-366.1	2,720.1	2,666.7	53.35	50.982	
11,300.0	9,448.2	12,520.0	8,030.5	20.1	82.8	24.89	131.7	-366.1	2,800.9	2,747.9	52.94	52.902	
11,400.0	9,447.7	12,520.0	8,030.5	20.9	82.8	24.89	131.7	-366.1	2,882.8	2,830.2	52.57	54.842	
11,500.0	9,447.3	12,520.0	8,030.5	21.7	82.8	24.89	131.7	-366.1	2,965.9	2,913.7	52.22	56.798	
11,600.0	9,446.8	12,520.0	8,030.5	22.5	82.8	24.89	131.7	-366.1	3,050.0	2,998.1	51.90	58.769	
11,700.0	9,446.4	12,520.0	8,030.5	23.3	82.8	24.89	131.7	-366.1	3,135.0	3,083.4	51.60	60.751	
11,800.0	9,445.9	12,520.0	8,030.5	24.1	82.8	24.89	131.7	-366.1	3,220.9	3,169.5	51.34	62.742	
11,900.0	9,445.5	12,520.0	8,030.5	24.9	82.8	24.89	131.7	-366.1	3,307.6	3,256.5	51.09	64.740	
12,000.0	9,445.0	12,520.0	8,030.5	25.7	82.8	24.89	131.7	-366.1	3,395.0	3,344.1	50.87	66.744	
12,100.0	9,444.6	12,520.0	8,030.5	26.5	82.8	24.89	131.7	-366.1	3,483.0	3,432.4	50.66	68.751	
12,200.0	9,444.1	12,520.0	8,030.5	27.3	82.8	24.89	131.7	-366.1	3,571.8	3,521.3	50.48	70.760	
12,300.0	9,443.7	12,520.0	8,030.5	28.1	82.8	24.89	131.7	-366.1	3,661.1	3,610.7	50.31	72.770	
12,400.0	9,443.2	12,520.0	8,030.5	29.0	82.8	24.89	131.7	-366.1	3,750.9	3,700.7	50.16	74.780	
12,500.0	9,442.8	12,520.0	8,030.5	29.8	82.8	24.89	131.7	-366.1	3,841.2	3,791.2	50.02	76.788	
12,600.0	9,442.3	12,520.0	8,030.5	30.6	82.8	24.89	131.7	-366.1	3,932.0	3,882.1	49.90	78.794	
12,700.0	9,441.9	12,520.0	8,030.5	31.4	82.8	24.89	131.7	-366.1	4,023.3	3,973.5	49.80	80.796	
12,800.0	9,441.4	12,520.0	8,030.5	32.3	82.8	24.89	131.7	-366.1	4,114.9	4,065.2	49.70	82.795	
12,900.0	9,441.0	12,520.0	8,030.5	33.1	82.8	24.89	131.7	-366.1	4,207.0	4,157.3	49.62	84.788	
13,000.0	9,440.5	12,520.0	8,030.5	33.9	82.8	24.89	131.7	-366.1	4,299.3	4,249.8	49.54	86.777	
13,100.0	9,440.1	12,520.0	8,030.5	34.7	82.8	24.89	131.7	-366.1	4,392.1	4,342.6	49.48	88.759	
13,200.0	9,439.6	12,520.0	8,030.5	35.6	82.8	24.89	131.7	-366.1	4,485.1	4,435.7	49.43	90.735	
13,300.0	9,439.2	12,520.0	8,030.5	36.4	82.8	24.89	131.7	-366.1	4,578.4	4,529.0	49.39	92.704	
13,400.0	9,438.7	12,520.0	8,030.5	37.2	82.8	24.89	131.7	-366.1	4,672.0	4,622.7	49.35	94.665	
13,500.0	9,438.3	12,520.0	8,030.5	38.1	82.8	24.89	131.7	-366.1	4,765.9	4,716.6	49.33	96.619	
13,600.0	9,437.8	12,520.0	8,030.5	38.9	82.8	24.89	131.7	-366.1	4,860.0	4,810.7	49.31	98.565	
13,700.0	9,437.4	12,520.0	8,030.5	39.8	82.8	24.89	131.7	-366.1	4,954.3	4,905.0	49.30	100.503	
13,800.0	9,436.9	12,520.0	8,030.5	40.6	82.8	24.89	131.7	-366.1	5,048.9	4,999.6	49.29	102.432	
13,900.0	9,436.5	12,520.0	8,030.5	41.4	82.8	24.89	131.7	-366.1	5,143.6	5,094.4	49.29	104.352	
14,000.0	9,436.0	12,520.0	8,030.5	42.3	82.8	24.89	131.7	-366.1	5,238.6	5,189.3	49.30	106.263	
14,100.0	9,435.6	12,520.0	8,030.5	43.1	82.8	24.89	131.7	-366.1	5,333.7	5,284.4	49.31	108.165	
14,200.0	9,435.1	12,520.0	8,030.5	44.0	82.8	24.89	131.7	-366.1	5,429.1	5,379.7	49.33	110.058	

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 #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design HONEY GRAHAM STATE PROJECT (ATLAS 2628) - GRAHAM CRACKER 16 STATE #3H - OWB - AW — **Offset Site Error:** 0.0 usft

Survey Program: 100-GYRO-NS, 7447-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
14,300.0	9,434.7	12,520.0	8,030.5	44.8	82.8	24.89	131.7	-366.1	5,524.5	5,475.2	49.35	111.941	
14,400.0	9,434.2	12,520.0	8,030.5	45.6	82.8	24.89	131.7	-366.1	5,620.2	5,570.8	49.38	113.815	
14,500.0	9,433.8	12,520.0	8,030.5	46.5	82.8	24.89	131.7	-366.1	5,716.0	5,666.5	49.41	115.678	
14,600.0	9,433.3	12,520.0	8,030.5	47.3	82.8	24.89	131.7	-366.1	5,811.9	5,762.4	49.45	117.532	
14,644.4	9,433.1	12,520.0	8,030.5	47.7	82.8	24.89	131.7	-366.1	5,854.6	5,805.1	49.47	118.353	
14,654.0	9,433.1	12,520.0	8,030.5	47.8	82.8	25.48	131.7	-366.1	5,863.7	5,814.2	49.47	118.528	
14,700.0	9,432.8	12,520.0	8,030.5	48.2	82.8	25.48	131.7	-366.1	5,907.9	5,858.4	49.49	119.377	
14,800.0	9,432.4	12,520.0	8,030.5	49.0	82.8	25.48	131.7	-366.1	6,004.1	5,954.6	49.53	121.211	
14,900.0	9,431.9	12,520.0	8,030.5	49.9	82.8	25.48	131.7	-366.1	6,100.4	6,050.8	49.58	123.036	
15,000.0	9,431.5	12,520.0	8,030.5	50.7	82.8	25.48	131.7	-366.1	6,196.8	6,147.1	49.63	124.850	
15,100.0	9,431.0	12,520.0	8,030.5	51.6	82.8	25.48	131.7	-366.1	6,293.3	6,243.6	49.69	126.654	
15,200.0	9,430.6	12,520.0	8,030.5	52.4	82.8	25.48	131.7	-366.1	6,389.9	6,340.1	49.75	128.448	
15,300.0	9,430.1	12,520.0	8,030.5	53.3	82.8	25.48	131.7	-366.1	6,486.6	6,436.8	49.81	130.231	
15,400.0	9,429.7	12,520.0	8,030.5	54.1	82.8	25.48	131.7	-366.1	6,583.4	6,533.5	49.87	132.003	
15,500.0	9,429.2	12,520.0	8,030.5	55.0	82.8	25.48	131.7	-366.1	6,680.3	6,630.4	49.94	133.766	
15,600.0	9,428.8	12,520.0	8,030.5	55.8	82.8	25.48	131.7	-366.1	6,777.3	6,727.3	50.01	135.517	
15,700.0	9,428.3	12,520.0	8,030.5	56.7	82.8	25.48	131.7	-366.1	6,874.4	6,824.3	50.08	137.258	
15,800.0	9,427.9	12,520.0	8,030.5	57.5	82.8	25.48	131.7	-366.1	6,971.6	6,921.4	50.16	138.989	
15,900.0	9,427.4	12,520.0	8,030.5	58.4	82.8	25.48	131.7	-366.1	7,068.8	7,018.6	50.24	140.709	
16,000.0	9,427.0	12,520.0	8,030.5	59.2	82.8	25.48	131.7	-366.1	7,166.2	7,115.8	50.32	142.419	
16,100.0	9,426.5	12,520.0	8,030.5	60.1	82.8	25.48	131.7	-366.1	7,263.6	7,213.2	50.40	144.118	
16,200.0	9,426.1	12,520.0	8,030.5	60.9	82.8	25.48	131.7	-366.1	7,361.0	7,310.5	50.48	145.807	
16,300.0	9,425.6	12,520.0	8,030.5	61.8	82.8	25.48	131.7	-366.1	7,458.6	7,408.0	50.57	147.485	
16,400.0	9,425.2	12,520.0	8,030.5	62.6	82.8	25.48	131.7	-366.1	7,556.1	7,505.5	50.66	149.153	
16,500.0	9,424.7	12,520.0	8,030.5	63.5	82.8	25.48	131.7	-366.1	7,653.8	7,603.1	50.75	150.810	
16,600.0	9,424.3	12,520.0	8,030.5	64.3	82.8	25.48	131.7	-366.1	7,751.5	7,700.7	50.84	152.457	
16,700.0	9,423.8	12,520.0	8,030.5	65.2	82.8	25.48	131.7	-366.1	7,849.3	7,798.4	50.94	154.094	
16,800.0	9,423.4	12,520.0	8,030.5	66.0	82.8	25.48	131.7	-366.1	7,947.1	7,896.1	51.03	155.720	
16,900.0	9,422.9	12,520.0	8,030.5	66.9	82.8	25.48	131.7	-366.1	8,045.0	7,993.9	51.13	157.336	
17,000.0	9,422.5	12,520.0	8,030.5	67.7	82.8	25.48	131.7	-366.1	8,143.0	8,091.7	51.23	158.941	
17,100.0	9,422.0	12,520.0	8,030.5	68.6	82.8	25.48	131.7	-366.1	8,240.9	8,189.6	51.33	160.537	
17,200.0	9,421.5	12,520.0	8,030.5	69.4	82.8	25.48	131.7	-366.1	8,339.0	8,287.5	51.44	162.122	
17,300.0	9,421.1	12,520.0	8,030.5	70.3	82.8	25.48	131.7	-366.1	8,437.1	8,385.5	51.54	163.697	
17,400.0	9,420.6	12,520.0	8,030.5	71.1	82.8	25.48	131.7	-366.1	8,535.2	8,483.5	51.65	165.262	
17,500.0	9,420.2	12,520.0	8,030.5	72.0	82.8	25.48	131.7	-366.1	8,633.3	8,581.6	51.75	166.816	
17,600.0	9,419.7	12,520.0	8,030.5	72.8	82.8	25.48	131.7	-366.1	8,731.6	8,679.7	51.86	168.361	
17,700.0	9,419.3	12,520.0	8,030.5	73.7	82.8	25.48	131.7	-366.1	8,829.8	8,777.8	51.97	169.896	
17,800.0	9,418.8	12,520.0	8,030.5	74.5	82.8	25.48	131.7	-366.1	8,928.1	8,876.0	52.08	171.421	
17,900.0	9,418.4	12,520.0	8,030.5	75.4	82.8	25.48	131.7	-366.1	9,026.4	8,974.2	52.20	172.936	
18,000.0	9,417.9	12,520.0	8,030.5	76.2	82.8	25.48	131.7	-366.1	9,124.8	9,072.5	52.31	174.441	
18,100.0	9,417.5	12,520.0	8,030.5	77.1	82.8	25.48	131.7	-366.1	9,223.2	9,170.8	52.42	175.936	
18,200.0	9,417.0	12,520.0	8,030.5	78.0	82.8	25.48	131.7	-366.1	9,321.6	9,269.1	52.54	177.422	
18,300.0	9,416.6	12,520.0	8,030.5	78.8	82.8	25.48	131.7	-366.1	9,420.1	9,367.4	52.66	178.898	
18,400.0	9,416.1	12,520.0	8,030.5	79.7	82.8	25.48	131.7	-366.1	9,518.6	9,465.8	52.77	180.364	
18,500.0	9,415.7	12,520.0	8,030.5	80.5	82.8	25.48	131.7	-366.1	9,617.1	9,564.2	52.89	181.821	
18,600.0	9,415.2	12,520.0	8,030.5	81.4	82.8	25.48	131.7	-366.1	9,715.7	9,662.6	53.01	183.268	
18,700.0	9,414.8	12,520.0	8,030.5	82.2	82.8	25.48	131.7	-366.1	9,814.2	9,761.1	53.13	184.706	
18,800.0	9,414.3	12,520.0	8,030.5	83.1	82.8	25.48	131.7	-366.1	9,912.9	9,859.6	53.26	186.134	

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design SRO STATE PROJECT (ATLAS 2628) - SRO STATE UNIT #53H - ST01 - AWP ST01 — **Offset Site Error:** 0.0 usft

Survey Program: 100-GYRO-NS, 6468-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	54.6	54.6	4.2	3.0	9.01	4,940.4	783.5	5,002.2				
100.0	100.0	169.2	169.2	4.2	3.1	9.01	4,939.6	783.0	5,001.4	4,994.1	7.27	687.575	
200.0	200.0	258.1	258.0	4.2	3.2	9.00	4,939.1	782.4	5,000.8	4,993.4	7.34	681.726	
300.0	300.0	334.4	334.4	4.3	3.4	9.00	4,938.9	781.8	5,000.4	4,993.0	7.42	673.465	
309.3	309.3	340.6	340.6	4.3	3.4	8.99	4,938.9	781.8	5,000.4	4,993.0	7.43	672.569	
400.0	400.0	402.5	402.5	4.3	3.5	8.99	4,939.2	781.3	5,000.7	4,993.1	7.55	662.677	
500.0	500.0	527.5	527.5	4.3	3.7	8.98	4,939.6	780.9	5,000.9	4,993.0	7.86	636.121	
600.0	600.0	620.9	620.9	4.3	3.9	8.98	4,939.7	780.8	5,001.1	4,992.9	8.13	615.426	
700.0	700.0	715.0	715.0	4.3	4.1	8.98	4,940.0	780.7	5,001.3	4,992.9	8.40	595.201	
800.0	800.0	812.0	812.0	4.4	4.3	8.98	4,940.3	780.8	5,001.7	4,993.0	8.66	577.561	
900.0	900.0	909.0	908.9	4.4	4.5	8.99	4,940.7	781.3	5,002.1	4,993.2	8.91	561.596	
1,000.0	1,000.0	1,021.2	1,021.2	4.4	4.9	9.00	4,940.9	782.3	5,002.4	4,993.2	9.22	542.472	
1,100.0	1,100.0	1,119.9	1,119.9	4.5	5.2	9.01	4,940.9	783.0	5,002.6	4,993.1	9.52	525.286	
1,200.0	1,200.0	1,209.6	1,209.6	4.5	5.5	9.01	4,941.1	783.7	5,002.9	4,993.1	9.81	510.160	
1,300.0	1,300.0	1,304.5	1,304.5	4.5	5.8	9.02	4,941.5	784.5	5,003.4	4,993.3	10.11	494.954	
1,400.0	1,400.0	1,419.8	1,419.8	4.6	6.1	9.03	4,941.7	785.5	5,003.8	4,993.3	10.49	477.210	
1,500.0	1,500.0	1,518.2	1,518.2	4.6	6.5	9.04	4,941.9	786.2	5,004.0	4,993.2	10.83	462.160	
1,600.0	1,600.0	1,625.8	1,625.7	4.7	6.8	9.04	4,942.0	786.7	5,004.2	4,993.0	11.20	446.704	
1,700.0	1,700.0	1,731.3	1,731.2	4.8	7.2	9.05	4,942.0	787.1	5,004.3	4,992.7	11.59	431.790	
1,800.0	1,800.0	1,840.3	1,840.2	4.8	7.5	9.06	4,941.8	787.8	5,004.2	4,992.2	12.01	416.701	
1,900.0	1,900.0	1,947.9	1,947.9	4.9	7.9	9.07	4,941.3	788.7	5,003.9	4,991.5	12.44	402.324	
2,000.0	2,000.0	2,037.5	2,037.4	5.0	8.2	9.08	4,941.0	789.5	5,003.6	4,990.8	12.81	390.727	
2,031.3	2,031.3	2,062.6	2,062.6	5.0	8.3	9.08	4,940.9	789.8	5,003.6	4,990.7	12.91	387.566	
2,100.0	2,100.0	2,118.9	2,118.9	5.0	8.4	9.09	4,940.9	790.4	5,003.7	4,990.6	13.14	380.723	
2,200.0	2,200.0	2,205.2	2,205.2	5.1	8.7	9.10	4,941.0	791.8	5,004.1	4,990.6	13.49	370.897	
2,300.0	2,300.0	2,320.6	2,320.5	5.2	9.1	9.14	4,941.0	794.5	5,004.5	4,990.6	13.94	358.940	
2,400.0	2,400.0	2,458.0	2,457.9	5.2	9.6	9.16	4,940.3	797.0	5,004.3	4,989.8	14.48	345.487	
2,500.0	2,500.0	2,537.7	2,537.5	5.3	9.9	9.18	4,939.7	798.3	5,003.8	4,989.0	14.83	337.381	
2,514.8	2,514.8	2,546.2	2,546.1	5.3	9.9	9.18	4,939.7	798.4	5,003.8	4,988.9	14.87	336.477	
2,600.0	2,600.0	2,600.0	2,599.9	5.4	10.1	9.19	4,939.8	799.1	5,004.1	4,989.0	15.12	331.049	
2,700.0	2,700.0	2,687.8	2,687.6	5.5	10.3	9.19	4,940.5	799.6	5,004.9	4,989.5	15.48	323.279	
2,800.0	2,800.0	2,842.1	2,842.0	5.6	10.8	9.19	4,940.8	799.4	5,005.1	4,989.0	16.06	311.560	
2,900.0	2,900.0	2,938.7	2,938.5	5.7	11.1	9.19	4,940.7	799.3	5,004.9	4,988.4	16.47	303.964	
3,000.0	3,000.0	3,040.6	3,040.5	5.7	11.5	9.19	4,940.5	799.2	5,004.8	4,987.9	16.89	296.262	
3,100.0	3,100.0	3,140.0	3,139.8	5.8	11.8	9.19	4,940.3	799.3	5,004.5	4,987.2	17.33	288.817	
3,200.0	3,200.0	3,233.8	3,233.7	5.9	12.1	9.19	4,940.2	799.4	5,004.5	4,986.7	17.75	281.927	
3,300.0	3,300.0	12,617.0	8,142.9	6.0	82.9	79.81	178.6	993.3	4,916.3	4,870.3	46.06	106.746	
3,400.0	3,400.0	12,617.0	8,142.9	6.1	82.9	79.81	178.6	993.3	4,818.5	4,772.2	46.31	104.057	
3,500.0	3,500.0	12,617.0	8,142.9	6.2	82.9	79.81	178.6	993.3	4,720.8	4,674.2	46.56	101.382	
3,600.0	3,600.0	12,617.0	8,142.9	6.3	82.9	79.81	178.6	993.3	4,623.1	4,576.3	46.83	98.721	
3,700.0	3,700.0	12,617.0	8,142.9	6.4	82.9	79.81	178.6	993.3	4,525.6	4,478.5	47.11	96.073	
3,800.0	3,800.0	12,617.0	8,142.9	6.5	82.9	79.81	178.6	993.3	4,428.2	4,380.8	47.39	93.440	
3,900.0	3,900.0	12,617.0	8,142.9	6.6	82.9	79.81	178.6	993.3	4,330.9	4,283.2	47.69	90.821	
4,000.0	4,000.0	12,617.0	8,142.9	6.7	82.9	79.81	178.6	993.3	4,233.7	4,185.7	47.99	88.217	
4,100.0	4,100.0	12,617.0	8,142.9	6.8	82.9	79.81	178.6	993.3	4,136.6	4,088.3	48.31	85.627	
4,200.0	4,200.0	12,617.0	8,142.9	6.9	82.9	79.81	178.6	993.3	4,039.7	3,991.1	48.64	83.054	
4,300.0	4,300.0	12,617.0	8,142.9	7.0	82.9	79.81	178.6	993.3	3,943.0	3,894.0	48.98	80.495	
4,400.0	4,400.0	12,617.0	8,142.9	7.1	82.9	79.81	178.6	993.3	3,846.4	3,797.1	49.34	77.953	
4,500.0	4,500.0	12,617.0	8,142.9	7.2	82.9	79.81	178.6	993.3	3,750.0	3,700.3	49.72	75.428	
4,600.0	4,600.0	12,617.0	8,142.9	7.3	82.9	79.81	178.6	993.3	3,653.8	3,603.7	50.11	72.920	
4,700.0	4,700.0	12,617.0	8,142.9	7.4	82.9	79.81	178.6	993.3	3,557.8	3,507.3	50.52	70.429	
4,800.0	4,800.0	12,617.0	8,142.9	7.5	82.9	79.81	178.6	993.3	3,462.0	3,411.1	50.94	67.956	

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 #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design SRO STATE PROJECT (ATLAS 2628) - SRO STATE UNIT #53H - ST01 - AWP ST01 — **Offset Site Error:** 0.0 usft

Survey Program: 100-GYRO-NS, 6468-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
4,900.0	4,900.0	12,617.0	8,142.9	7.7	82.9	79.81	178.6	993.3	3,366.5	3,315.1	51.39	65.502	
5,000.0	5,000.0	12,617.0	8,142.9	7.8	82.9	79.81	178.6	993.3	3,271.2	3,219.3	51.87	63.068	
5,100.0	5,100.0	12,617.0	8,142.9	7.9	82.9	79.81	178.6	993.3	3,176.2	3,123.9	52.37	60.654	
5,200.0	5,200.0	12,617.0	8,142.9	8.0	82.9	79.81	178.6	993.3	3,081.6	3,028.7	52.89	58.261	
5,300.0	5,300.0	12,617.0	8,142.9	8.1	82.9	79.81	178.6	993.3	2,987.3	2,933.8	53.45	55.890	
5,400.0	5,400.0	12,617.0	8,142.9	8.2	82.9	79.81	178.6	993.3	2,893.3	2,839.3	54.04	53.542	
5,500.0	5,500.0	12,617.0	8,142.9	8.3	82.9	79.81	178.6	993.3	2,799.8	2,745.2	54.66	51.219	
5,600.0	5,600.0	12,617.0	8,142.9	8.4	82.9	-27.95	178.6	993.3	2,706.2	2,650.9	55.31	48.929	
5,700.0	5,699.8	12,617.0	8,142.9	8.4	82.9	-30.70	178.6	993.3	2,612.0	2,556.1	55.95	46.683	
5,747.1	5,746.8	12,617.0	8,142.9	8.4	82.9	-32.15	178.6	993.3	2,567.4	2,511.1	56.25	45.639	
5,800.0	5,799.5	12,617.0	8,142.9	8.4	82.9	-32.15	178.6	993.3	2,517.3	2,460.7	56.60	44.479	
5,900.0	5,899.1	12,617.0	8,142.9	8.4	82.9	-32.15	178.6	993.3	2,423.0	2,365.7	57.28	42.302	
6,000.0	5,998.8	12,617.0	8,142.9	8.5	82.9	-32.15	178.6	993.3	2,329.1	2,271.1	58.01	40.153	
6,100.0	6,098.4	12,617.0	8,142.9	8.5	82.9	-32.15	178.6	993.3	2,235.8	2,177.0	58.79	38.031	
6,200.0	6,198.0	12,617.0	8,142.9	8.5	82.9	-32.15	178.6	993.3	2,143.0	2,083.4	59.63	35.941	
6,300.0	6,297.6	12,617.0	8,142.9	8.5	82.9	-32.15	178.6	993.3	2,050.9	1,990.4	60.53	33.883	
6,400.0	6,397.3	12,617.0	8,142.9	8.6	82.9	-32.15	178.6	993.3	1,959.6	1,898.1	61.51	31.861	
6,500.0	6,496.9	12,617.0	8,142.9	8.6	82.9	-32.15	178.6	993.3	1,869.2	1,806.7	62.56	29.877	
6,600.0	6,596.5	12,617.0	8,142.9	8.6	82.9	-32.15	178.6	993.3	1,779.9	1,716.1	63.71	27.936	
6,700.0	6,696.1	12,617.0	8,142.9	8.6	82.9	-32.15	178.6	993.3	1,691.7	1,626.7	64.96	26.042	
6,800.0	6,795.8	12,617.0	8,142.9	8.7	82.9	-32.15	178.6	993.3	1,604.9	1,538.6	66.32	24.200	
6,900.0	6,895.4	12,617.0	8,142.9	8.7	82.9	-32.15	178.6	993.3	1,519.7	1,451.9	67.79	22.416	
7,000.0	6,995.0	12,617.0	8,142.9	8.8	82.9	-32.15	178.6	993.3	1,436.4	1,367.0	69.40	20.697	
7,100.0	7,094.7	12,617.0	8,142.9	8.8	82.9	-32.15	178.6	993.3	1,355.4	1,284.3	71.15	19.051	
7,200.0	7,194.3	12,617.0	8,142.9	8.8	82.9	-32.15	178.6	993.3	1,277.1	1,204.1	73.04	17.487	
7,300.0	7,293.9	12,617.0	8,142.9	8.9	82.9	-32.15	178.6	993.3	1,202.1	1,127.0	75.06	16.015	
7,400.0	7,393.5	12,617.0	8,142.9	8.9	82.9	-32.15	178.6	993.3	1,130.8	1,053.6	77.19	14.649	
7,500.0	7,493.2	12,617.0	8,142.9	9.0	82.9	-32.15	178.6	993.3	1,064.3	984.9	79.41	13.402	
7,600.0	7,592.8	12,617.0	8,142.9	9.0	82.9	-32.15	178.6	993.3	1,003.3	921.6	81.64	12.289	
7,700.0	7,692.4	12,617.0	8,142.9	9.1	82.9	-32.15	178.6	993.3	948.9	865.1	83.79	11.324	
7,800.0	7,792.1	12,617.0	8,142.9	9.2	82.9	-32.15	178.6	993.3	902.4	816.6	85.73	10.525	
7,900.0	7,891.7	12,617.0	8,142.9	9.2	82.9	-32.15	178.6	993.3	864.9	777.6	87.30	9.907	
8,000.0	7,991.3	12,617.0	8,142.9	9.3	82.9	-32.15	178.6	993.3	837.8	749.5	88.35	9.483	
8,100.0	8,090.9	12,617.0	8,142.9	9.3	82.9	-32.15	178.6	993.3	822.1	733.3	88.76	9.262	
8,180.7	8,171.3	12,617.0	8,142.9	9.4	82.9	-32.15	178.6	993.3	818.1	729.6	88.57	9.237	CC, ES, SF
8,200.0	8,190.6	12,617.0	8,142.9	9.4	82.9	-32.15	178.6	993.3	818.4	729.9	88.46	9.251	
8,300.0	8,290.2	12,617.0	8,142.9	9.5	82.9	-32.15	178.6	993.3	826.8	739.3	87.48	9.451	
8,400.0	8,389.8	12,617.0	8,142.9	9.5	82.9	-32.15	178.6	993.3	847.0	761.1	85.92	9.858	
8,500.0	8,489.5	12,617.0	8,142.9	9.6	82.9	-32.15	178.6	993.3	878.2	794.3	83.93	10.464	
8,600.0	8,589.1	12,617.0	8,142.9	9.7	82.9	-32.15	178.6	993.3	919.3	837.7	81.67	11.256	
8,700.0	8,688.7	12,617.0	8,142.9	9.7	82.9	-32.15	178.6	993.3	969.0	889.7	79.32	12.217	
8,800.0	8,788.3	12,617.0	8,142.9	9.8	82.9	-32.15	178.6	993.3	1,026.1	949.1	77.00	13.326	
8,909.3	8,897.2	12,617.0	8,142.9	9.9	82.9	-32.15	178.6	993.3	1,095.5	1,021.2	74.36	14.733	
8,950.0	8,937.7	12,617.0	8,142.9	9.9	82.9	-61.42	178.6	993.3	1,123.3	1,049.8	73.51	15.280	
9,000.0	8,987.1	12,617.0	8,142.9	9.9	82.9	-73.13	178.6	993.3	1,159.0	1,086.5	72.51	15.984	
9,050.0	9,035.6	12,617.0	8,142.9	9.9	82.9	-74.95	178.6	993.3	1,196.2	1,124.7	71.56	16.716	
9,100.0	9,083.0	12,617.0	8,142.9	9.9	82.9	-73.01	178.6	993.3	1,234.4	1,163.7	70.66	17.470	
9,150.0	9,128.9	12,617.0	8,142.9	9.9	82.9	-69.34	178.6	993.3	1,273.2	1,203.4	69.81	18.238	
9,200.0	9,172.9	12,617.0	8,142.9	10.0	82.9	-64.85	178.6	993.3	1,312.4	1,243.4	69.02	19.014	
9,250.0	9,214.7	12,617.0	8,142.9	10.0	82.9	-60.06	178.6	993.3	1,351.5	1,283.2	68.28	19.793	
9,300.0	9,254.0	12,617.0	8,142.9	10.1	82.9	-55.30	178.6	993.3	1,390.4	1,322.8	67.60	20.569	
9,350.0	9,290.5	12,617.0	8,142.9	10.1	82.9	-50.79	178.6	993.3	1,428.7	1,361.7	66.96	21.338	

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 #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design SRO STATE PROJECT (ATLAS 2628) - SRO STATE UNIT #53H - ST01 - AWP ST01 — **Offset Site Error:** 0.0 usft

Survey Program: 100-GYRO-NS, 6468-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
9,400.0	9,323.9	12,617.0	8,142.9	10.2	82.9	-46.64	178.6	993.3	1,466.2	1,399.9	66.36	22.096	
9,450.0	9,354.0	12,617.0	8,142.9	10.3	82.9	-42.89	178.6	993.3	1,502.7	1,437.0	65.79	22.841	
9,500.0	9,380.4	12,617.0	8,142.9	10.4	82.9	-39.55	178.6	993.3	1,538.1	1,472.8	65.26	23.568	
9,550.0	9,403.1	12,617.0	8,142.9	10.5	82.9	-36.61	178.6	993.3	1,572.0	1,507.3	64.76	24.276	
9,600.0	9,421.9	12,617.0	8,142.9	10.5	82.9	-34.03	178.6	993.3	1,604.4	1,540.2	64.28	24.962	
9,650.0	9,436.5	12,617.0	8,142.9	10.6	82.9	-31.77	178.6	993.3	1,635.2	1,571.3	63.82	25.622	
9,700.0	9,447.0	12,617.0	8,142.9	10.7	82.9	-29.80	178.6	993.3	1,664.1	1,600.7	63.38	26.255	
9,750.0	9,453.1	12,617.0	8,142.9	10.8	82.9	-28.07	178.6	993.3	1,691.0	1,628.1	62.96	26.859	
9,798.6	9,454.9	12,617.0	8,142.9	10.9	82.9	-26.60	178.6	993.3	1,715.2	1,652.7	62.56	27.416	
9,800.0	9,454.9	12,617.0	8,142.9	10.9	82.9	-26.60	178.6	993.3	1,715.9	1,653.4	62.55	27.434	
9,900.0	9,454.5	12,617.0	8,142.9	11.2	82.9	-26.60	178.6	993.3	1,766.0	1,704.2	61.76	28.593	
10,000.0	9,454.0	12,617.0	8,142.9	11.6	82.9	-26.60	178.6	993.3	1,820.2	1,759.2	60.97	29.856	
10,100.0	9,453.6	12,617.0	8,142.9	12.0	82.9	-26.60	178.6	993.3	1,878.1	1,817.9	60.17	31.214	
10,200.0	9,453.1	12,617.0	8,142.9	12.5	82.9	-26.60	178.6	993.3	1,939.5	1,880.1	59.39	32.660	
10,300.0	9,452.7	12,617.0	8,142.9	13.1	82.9	-26.60	178.6	993.3	2,004.0	1,945.4	58.62	34.186	
10,400.0	9,452.2	12,617.0	8,142.9	13.7	82.9	-26.60	178.6	993.3	2,071.3	2,013.4	57.88	35.785	
10,500.0	9,451.8	12,617.0	8,142.9	14.3	82.9	-26.60	178.6	993.3	2,141.2	2,084.0	57.17	37.450	
10,600.0	9,451.3	12,617.0	8,142.9	15.0	82.9	-26.60	178.6	993.3	2,213.3	2,156.8	56.50	39.175	
10,700.0	9,450.9	12,617.0	8,142.9	15.7	82.9	-26.60	178.6	993.3	2,287.6	2,231.8	55.86	40.954	
10,800.0	9,450.4	12,617.0	8,142.9	16.4	82.9	-26.60	178.6	993.3	2,363.8	2,308.5	55.25	42.781	
10,900.0	9,450.0	12,617.0	8,142.9	17.1	82.9	-26.60	178.6	993.3	2,441.7	2,387.0	54.68	44.651	
11,000.0	9,449.5	12,617.0	8,142.9	17.9	82.9	-26.60	178.6	993.3	2,521.1	2,467.0	54.15	46.559	
11,100.0	9,449.1	12,617.0	8,142.9	18.6	82.9	-26.60	178.6	993.3	2,602.0	2,548.4	53.65	48.501	
11,200.0	9,448.6	12,617.0	8,142.9	19.4	82.9	-26.60	178.6	993.3	2,684.2	2,631.0	53.18	50.472	
11,300.0	9,448.2	12,617.0	8,142.9	20.1	82.9	-26.60	178.6	993.3	2,767.5	2,714.8	52.74	52.470	
11,400.0	9,447.7	12,617.0	8,142.9	20.9	82.9	-26.60	178.6	993.3	2,851.9	2,799.6	52.34	54.490	
11,500.0	9,447.3	12,617.0	8,142.9	21.7	82.9	-26.60	178.6	993.3	2,937.3	2,885.3	51.96	56.529	
11,600.0	9,446.8	12,617.0	8,142.9	22.5	82.9	-26.60	178.6	993.3	3,023.6	2,972.0	51.61	58.585	
11,700.0	9,446.4	12,617.0	8,142.9	23.3	82.9	-26.60	178.6	993.3	3,110.7	3,059.4	51.28	60.655	
11,800.0	9,445.9	12,617.0	8,142.9	24.1	82.9	-26.60	178.6	993.3	3,198.5	3,147.6	50.98	62.737	
11,900.0	9,445.5	12,617.0	8,142.9	24.9	82.9	-26.60	178.6	993.3	3,287.1	3,236.4	50.70	64.828	
12,000.0	9,445.0	12,617.0	8,142.9	25.7	82.9	-26.60	178.6	993.3	3,376.3	3,325.8	50.45	66.927	
12,100.0	9,444.6	12,617.0	8,142.9	26.5	82.9	-26.60	178.6	993.3	3,466.1	3,415.8	50.21	69.031	
12,200.0	9,444.1	12,617.0	8,142.9	27.3	82.9	-26.60	178.6	993.3	3,556.4	3,506.4	49.99	71.140	
12,300.0	9,443.7	12,617.0	8,142.9	28.1	82.9	-26.60	178.6	993.3	3,647.2	3,597.4	49.79	73.252	
12,400.0	9,443.2	12,617.0	8,142.9	29.0	82.9	-26.60	178.6	993.3	3,738.5	3,688.9	49.61	75.365	
12,500.0	9,442.8	12,617.0	8,142.9	29.8	82.9	-26.60	178.6	993.3	3,830.3	3,780.8	49.44	77.479	
12,600.0	9,442.3	12,617.0	8,142.9	30.6	82.9	-26.60	178.6	993.3	3,922.4	3,873.1	49.28	79.592	
12,700.0	9,441.9	12,617.0	8,142.9	31.4	82.9	-26.60	178.6	993.3	4,014.9	3,965.8	49.14	81.703	
12,800.0	9,441.4	12,617.0	8,142.9	32.3	82.9	-26.60	178.6	993.3	4,107.8	4,058.8	49.01	83.811	
12,900.0	9,441.0	12,617.0	8,142.9	33.1	82.9	-26.60	178.6	993.3	4,201.0	4,152.1	48.90	85.915	
13,000.0	9,440.5	12,617.0	8,142.9	33.9	82.9	-26.60	178.6	993.3	4,294.5	4,245.7	48.79	88.016	
13,100.0	9,440.1	12,617.0	8,142.9	34.7	82.9	-26.60	178.6	993.3	4,388.2	4,339.5	48.70	90.111	
13,200.0	9,439.6	12,617.0	8,142.9	35.6	82.9	-26.60	178.6	993.3	4,482.3	4,433.7	48.61	92.201	
13,300.0	9,439.2	12,617.0	8,142.9	36.4	82.9	-26.60	178.6	993.3	4,576.6	4,528.1	48.54	94.284	
13,400.0	9,438.7	12,617.0	8,142.9	37.2	82.9	-26.60	178.6	993.3	4,671.1	4,622.7	48.48	96.361	
13,500.0	9,438.3	12,617.0	8,142.9	38.1	82.9	-26.60	178.6	993.3	4,765.9	4,717.5	48.42	98.430	
13,600.0	9,437.8	12,617.0	8,142.9	38.9	82.9	-26.60	178.6	993.3	4,860.9	4,812.5	48.37	100.492	
13,700.0	9,437.4	12,617.0	8,142.9	39.8	82.9	-26.60	178.6	993.3	4,956.1	4,907.7	48.33	102.546	
13,800.0	9,436.9	12,617.0	8,142.9	40.6	82.9	-26.60	178.6	993.3	5,051.4	5,003.1	48.30	104.591	
13,900.0	9,436.5	12,617.0	8,142.9	41.4	82.9	-26.60	178.6	993.3	5,147.0	5,098.7	48.27	106.628	
14,000.0	9,436.0	12,617.0	8,142.9	42.3	82.9	-26.60	178.6	993.3	5,242.7	5,194.4	48.25	108.655	

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 #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Offset Design SRO STATE PROJECT (ATLAS 2628) - SRO STATE UNIT #53H - ST01 - AWP ST01 — **Offset Site Error:** 0.0 usft

Survey Program: 100-GYRO-NS, 6468-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
14,100.0	9,435.6	12,617.0	8,142.9	43.1	82.9	-26.60	178.6	993.3	5,338.5	5,290.3	48.24	110.674	
14,200.0	9,435.1	12,617.0	8,142.9	44.0	82.9	-26.60	178.6	993.3	5,434.5	5,386.3	48.23	112.682	
14,300.0	9,434.7	12,617.0	8,142.9	44.8	82.9	-26.60	178.6	993.3	5,530.7	5,482.5	48.23	114.681	
14,400.0	9,434.2	12,617.0	8,142.9	45.6	82.9	-26.60	178.6	993.3	5,627.0	5,578.7	48.23	116.670	
14,500.0	9,433.8	12,617.0	8,142.9	46.5	82.9	-26.60	178.6	993.3	5,723.4	5,675.1	48.24	118.648	
14,600.0	9,433.3	12,617.0	8,142.9	47.3	82.9	-26.60	178.6	993.3	5,819.9	5,771.7	48.25	120.616	
14,644.4	9,433.1	12,617.0	8,142.9	47.7	82.9	-26.60	178.6	993.3	5,862.9	5,814.6	48.26	121.488	
14,654.0	9,433.1	12,617.0	8,142.9	47.8	82.9	-25.95	178.6	993.3	5,872.0	5,823.8	48.26	121.674	
14,700.0	9,432.8	12,617.0	8,142.9	48.2	82.9	-25.95	178.6	993.3	5,916.6	5,868.3	48.27	122.572	
14,800.0	9,432.4	12,617.0	8,142.9	49.0	82.9	-25.95	178.6	993.3	6,013.4	5,965.1	48.29	124.516	
14,900.0	9,431.9	12,617.0	8,142.9	49.9	82.9	-25.95	178.6	993.3	6,110.3	6,061.9	48.32	126.449	
15,000.0	9,431.5	12,617.0	8,142.9	50.7	82.9	-25.95	178.6	993.3	6,207.3	6,158.9	48.35	128.371	
15,100.0	9,431.0	12,617.0	8,142.9	51.6	82.9	-25.95	178.6	993.3	6,304.4	6,256.0	48.39	130.282	
15,200.0	9,430.6	12,617.0	8,142.9	52.4	82.9	-25.95	178.6	993.3	6,401.5	6,353.1	48.43	132.182	
15,300.0	9,430.1	12,617.0	8,142.9	53.3	82.9	-25.95	178.6	993.3	6,498.8	6,450.3	48.47	134.070	
15,400.0	9,429.7	12,617.0	8,142.9	54.1	82.9	-25.95	178.6	993.3	6,596.1	6,547.6	48.52	135.948	
15,500.0	9,429.2	12,617.0	8,142.9	55.0	82.9	-25.95	178.6	993.3	6,693.6	6,645.0	48.57	137.814	
15,600.0	9,428.8	12,617.0	8,142.9	55.8	82.9	-25.95	178.6	993.3	6,791.1	6,742.4	48.62	139.670	
15,700.0	9,428.3	12,617.0	8,142.9	56.7	82.9	-25.95	178.6	993.3	6,888.6	6,840.0	48.68	141.513	
15,800.0	9,427.9	12,617.0	8,142.9	57.5	82.9	-25.95	178.6	993.3	6,986.3	6,937.5	48.74	143.346	
15,900.0	9,427.4	12,617.0	8,142.9	58.4	82.9	-25.95	178.6	993.3	7,084.0	7,035.2	48.80	145.167	
16,000.0	9,427.0	12,617.0	8,142.9	59.2	82.9	-25.95	178.6	993.3	7,181.8	7,132.9	48.86	146.977	
16,100.0	9,426.5	12,617.0	8,142.9	60.1	82.9	-25.95	178.6	993.3	7,279.6	7,230.7	48.93	148.775	
16,200.0	9,426.1	12,617.0	8,142.9	60.9	82.9	-25.95	178.6	993.3	7,377.5	7,328.5	49.00	150.562	
16,300.0	9,425.6	12,617.0	8,142.9	61.8	82.9	-25.95	178.6	993.3	7,475.4	7,426.3	49.07	152.337	
16,400.0	9,425.2	12,617.0	8,142.9	62.6	82.9	-25.95	178.6	993.3	7,573.4	7,524.3	49.15	154.101	
16,500.0	9,424.7	12,617.0	8,142.9	63.5	82.9	-25.95	178.6	993.3	7,671.5	7,622.2	49.22	155.854	
16,600.0	9,424.3	12,617.0	8,142.9	64.3	82.9	-25.95	178.6	993.3	7,769.6	7,720.3	49.30	157.595	
16,700.0	9,423.8	12,617.0	8,142.9	65.2	82.9	-25.95	178.6	993.3	7,867.7	7,818.3	49.38	159.325	
16,800.0	9,423.4	12,617.0	8,142.9	66.0	82.9	-25.95	178.6	993.3	7,965.9	7,916.4	49.46	161.043	
16,900.0	9,422.9	12,617.0	8,142.9	66.9	82.9	-25.95	178.6	993.3	8,064.1	8,014.6	49.55	162.750	
17,000.0	9,422.5	12,617.0	8,142.9	67.7	82.9	-25.95	178.6	993.3	8,162.4	8,112.8	49.64	164.446	
17,100.0	9,422.0	12,617.0	8,142.9	68.6	82.9	-25.95	178.6	993.3	8,260.7	8,211.0	49.72	166.131	
17,200.0	9,421.5	12,617.0	8,142.9	69.4	82.9	-25.95	178.6	993.3	8,359.1	8,309.3	49.81	167.804	
17,300.0	9,421.1	12,617.0	8,142.9	70.3	82.9	-25.95	178.6	993.3	8,457.5	8,407.6	49.91	169.466	
17,400.0	9,420.6	12,617.0	8,142.9	71.1	82.9	-25.95	178.6	993.3	8,555.9	8,505.9	50.00	171.117	
17,500.0	9,420.2	12,617.0	8,142.9	72.0	82.9	-25.95	178.6	993.3	8,654.4	8,604.3	50.10	172.757	
17,600.0	9,419.7	12,617.0	8,142.9	72.8	82.9	-25.95	178.6	993.3	8,752.9	8,702.7	50.19	174.385	
17,700.0	9,419.3	12,617.0	8,142.9	73.7	82.9	-25.95	178.6	993.3	8,851.5	8,801.2	50.29	176.003	
17,800.0	9,418.8	12,617.0	8,142.9	74.5	82.9	-25.95	178.6	993.3	8,950.0	8,899.6	50.39	177.610	
17,900.0	9,418.4	12,617.0	8,142.9	75.4	82.9	-25.95	178.6	993.3	9,048.6	8,998.1	50.49	179.205	
18,000.0	9,417.9	12,617.0	8,142.9	76.2	82.9	-25.95	178.6	993.3	9,147.3	9,096.7	50.60	180.790	
18,100.0	9,417.5	12,617.0	8,142.9	77.1	82.9	-25.95	178.6	993.3	9,245.9	9,195.2	50.70	182.364	
18,200.0	9,417.0	12,617.0	8,142.9	78.0	82.9	-25.95	178.6	993.3	9,344.6	9,293.8	50.81	183.928	
18,300.0	9,416.6	12,617.0	8,142.9	78.8	82.9	-25.95	178.6	993.3	9,443.4	9,392.4	50.91	185.480	
18,400.0	9,416.1	12,617.0	8,142.9	79.7	82.9	-25.95	178.6	993.3	9,542.1	9,491.1	51.02	187.022	
18,500.0	9,415.7	12,617.0	8,142.9	80.5	82.9	-25.95	178.6	993.3	9,640.9	9,589.7	51.13	188.553	
18,600.0	9,415.2	12,617.0	8,142.9	81.4	82.9	-25.95	178.6	993.3	9,739.7	9,688.4	51.24	190.074	
18,700.0	9,414.8	12,617.0	8,142.9	82.2	82.9	-25.95	178.6	993.3	9,838.5	9,787.1	51.35	191.584	
18,800.0	9,414.3	12,617.0	8,142.9	83.1	82.9	-25.95	178.6	993.3	9,937.3	9,885.9	51.47	193.084	

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 #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KB=30' @ 3024.7usft (TBD)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: BOO RADLEY COM #702H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.13°

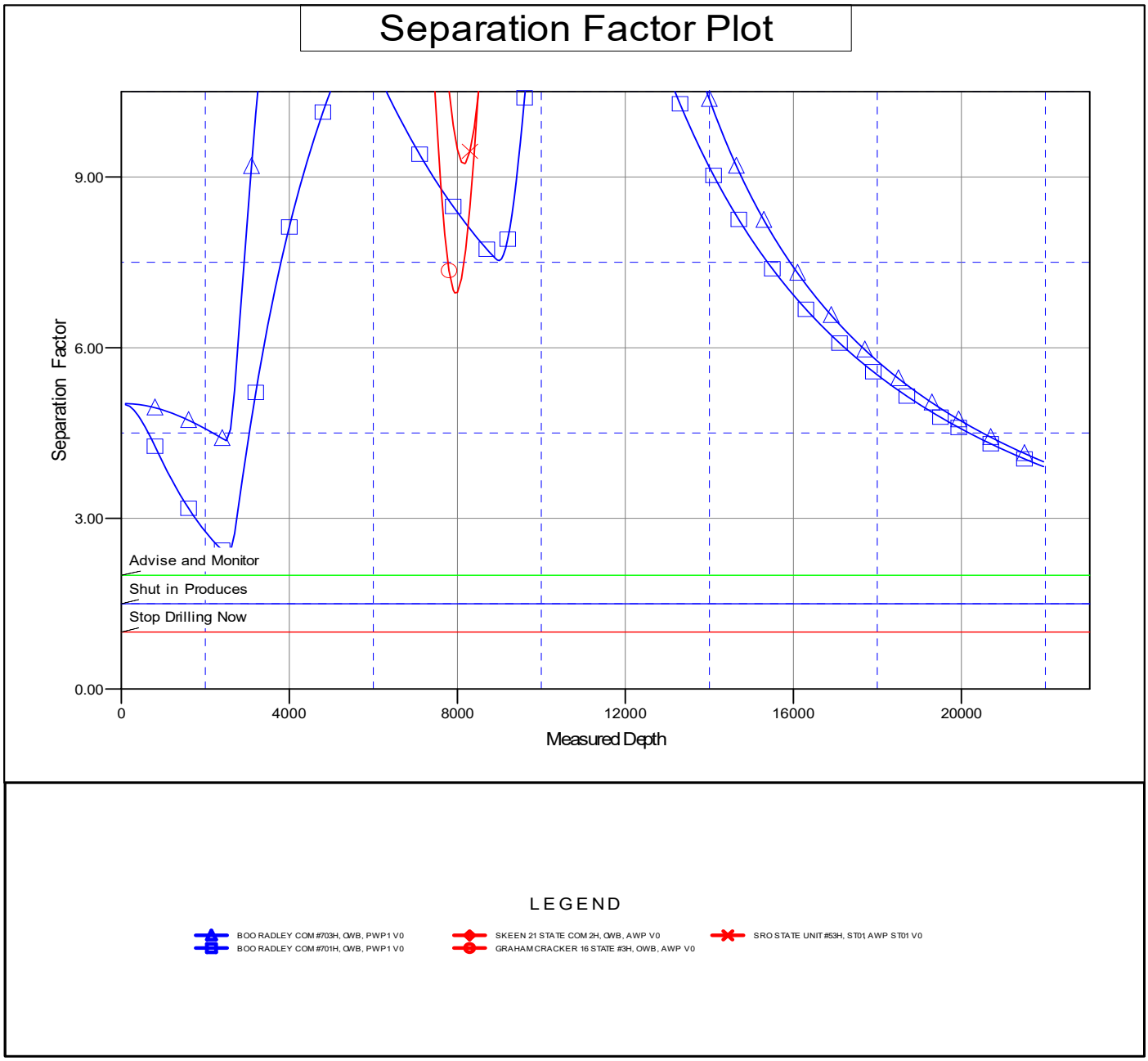
Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3024.7usft (TBD)
Reference Site:	BOO RADLEY COM PROJECT	**MD Reference:**	KB=30' @ 3024.7usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	BOO RADLEY COM #702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP1	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to KB=30' @ 3024.7usft (TBD)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: BOO RADLEY COM #702H
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