

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.
2. Name of Operator		9. API Well No. 30 015 48789
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
13. State		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
Office		

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

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

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 07/20/2021

Additional Operator Remarks

Location of Well

0. SHL: SESW / 220 FSL / 1470 FWL / TWSP: 25S / RANGE: 29E / SECTION: 28 / LAT: 32.094148 / LONG: -103.993118 (TVD: 0 feet, MD: 0 feet)

PPP: SWSW / 330 FSL / 330 FWL / TWSP: 25S / RANGE: 29E / SECTION: 28 / LAT: 32.094447 / LONG: -103.996803 (TVD: 10093 feet, MD: 10218 feet)

BHL: NWNW / 200 FNL / 330 FWL / TWSP: 25S / RANGE: 29E / SECTION: 21 / LAT: 32.122713 / LONG: -103.996956 (TVD: 10194 feet, MD: 20198 feet)

BLM Point of Contact

Name: PAMELLA HERNANDEZ

Title: LIE

Phone: (575) 234-5954

Email: PHERANDEZ@BLM.GOV

CONFIDENTIAL

DISTRICT I
1825 N. FRENCH DR., HOBBS, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 748-1283 Fax: (505) 748-0720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code	Property Name ADMIRAL FEDERAL COM	Well Number 706H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 2984.4'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	28	25-S	29-E		220	SOUTH	1470	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	21	25-S	29-E		200	NORTH	330	WEST	EDDY
Dedicated Acres 1280	Joint or Infill	Consolidation Code	Order No.						

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

LTP 330' FNL & 330' FWL Y=408215.1 N X=645473.1 E LAT.=32.121816° N LONG.=103.996954° W		NAD 83 NME PROPOSED BOTTOM HOLE LOCATION Y=408345.1 N X=645472.1 E LAT.=32.122713° N LONG.=103.996956° 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. Signature: <u>Stan Wagner</u> Date: <u>12/22/2020</u> Printed Name: <u>Stan Wagner</u> E-mail Address: _____																	
POINT LEGEND <table border="1"> <tr><td>1</td><td>Y=408543.7 N X=645141.6 E</td></tr> <tr><td>2</td><td>Y=405890.8 N X=645148.5 E</td></tr> <tr><td>3</td><td>Y=403236.4 N X=645154.2 E</td></tr> <tr><td>4</td><td>Y=400584.3 N X=645190.7 E</td></tr> <tr><td>5</td><td>Y=397927.6 N X=645225.2 E</td></tr> <tr><td>6</td><td>Y=397939.4 N X=647886.6 E</td></tr> <tr><td>7</td><td>Y=403248.3 N X=647816.6 E</td></tr> <tr><td>8</td><td>Y=408554.9 N X=647798.5 E</td></tr> </table>		1	Y=408543.7 N X=645141.6 E	2	Y=405890.8 N X=645148.5 E	3	Y=403236.4 N X=645154.2 E	4	Y=400584.3 N X=645190.7 E	5	Y=397927.6 N X=645225.2 E	6	Y=397939.4 N X=647886.6 E	7	Y=403248.3 N X=647816.6 E	8	Y=408554.9 N X=647798.5 E	SECTION 21 SECTION 28		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. NOVEMBER 6, 2020 Date of Survey Signature & Seal of Professional Surveyor  Certificate No. <u>CHAD HARCROW 17777</u> W.O. # <u>20-1714</u> DRAWN BY: <u>AH</u>	
1	Y=408543.7 N X=645141.6 E																				
2	Y=405890.8 N X=645148.5 E																				
3	Y=403236.4 N X=645154.2 E																				
4	Y=400584.3 N X=645190.7 E																				
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6	Y=397939.4 N X=647886.6 E																				
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8	Y=408554.9 N X=647798.5 E																				
FTP 330' FSL & 330' FWL Y=398259.1 N X=645551.0 E LAT.=32.094447° N LONG.=103.996803° W GRID AZ. TO FTP 275°15'13"		NAD 83 NME SURFACE LOCATION Y=398154.1 N X=646692.4 E LAT.=32.094148° N LONG.=103.993118° W		11/20/20																	

Intent ☒ As Drilled ☐

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

Kick Off Point (KOP)

UL N	Section 28	Township 25S	Range 29E	Lot	Feet	From N/S	Feet	From E/W	County Eddy
Latitude					Longitude				NAD 83

First Take Point (FTP)

UL M	Section 28	Township 25S	Range 29E	Lot	Feet 330	From N/S South	Feet 330	From E/W West	County Eddy
Latitude 32.094447					Longitude -103.996803				NAD 83

Last Take Point (LTP)

UL D	Section 21	Township 25S	Range 29E	Lot	Feet 330	From N/S North	Feet 330	From E/W West	County Eddy
Latitude 32.121816					Longitude -103.996954				NAD 83

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

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

API # 30-015-		
Operator Name: COG Operating LLC	Property Name: Admiral Federal Com	Well Number 704H

KZ 06/29/2018

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: COG Operating LLC

OGRID: 239137

Date: 11/30/2020

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Admiral Federal Com 701H	30-015-	O-28-25S-29E	311 FSL & 1570 FEL	± 1342	± 4687	± 4046
Admiral Federal Com 704H	30-015-	N-28-25S-29E	220 FSL & 1530 FWL	± 1342	± 4687	± 4046
Admiral Federal Com 705H	30-015-	N-28-25S-29E	220 FSL & 1500 FWL	± 1342	± 4687	± 4046
Admiral Federal Com 706H	30-015-	N-28-25S-29E	220 FSL & 1470 FWL	± 1342	± 4687	± 4046
Admiral Federal Com 804H	30-015-	M-28-25S-29E	785 FSL & 860 FWL	± 780	± 8000	± 4251
Admiral Federal Com 805H	30-015-	M-28-25S-29E	785 FSL & 830 FWL	± 1283	± 8000	± 5558
Admiral Federal Com 806H	30-015-	M-28-25S-29E	785 FSL & 800 FWL	± 780	± 8000	± 4251

IV. Central Delivery Point Name: Admiral Fed Com CTB A 778 FSL & 1868 FWL 28-25S-29E [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Admiral Federal Com	Pending	± 10/1/2022	± 25 days from spud	TBD	TBD	TBD
701H, 704H, 705H, 706H, 804H, 805H, 806H						

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan**EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

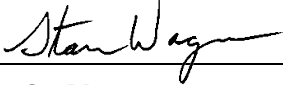
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: Stan Wagner
Title: Regulatory Advisor
E-mail Address: stan.s.wagner@conocophillips.com
Date: 07/26/2021
Phone: 432-253-9685
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

All ConocoPhillips production facility equipment will be sized per industry standards (API 12J) with adequate retention time to effectively separate all phases of production. Each project will take into consideration the number of wells and type curves for each formation pool to ensure adequate facility capacity. Design considerations will also include review of all piping, tanks, VRU's and associated equipment to ensure optimized gas capture minimized risk of release.

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

- During drilling, flare stacks will be located a minimum of 100 feet from the nearest surface hole location. All gas is captured or combusted. If an emergency or malfunction occurs, gas will be flared or vented for public health, safety, and the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.

C. Completion Operations

- During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.
- Individual well test separators will be set to properly separate gas and liquids. A temporary test separator will be utilized initially to process volumes. In addition, separators will be tied into flowback tanks which will be tied into the gas processing equipment for sales down a pipeline.

D. Venting and flaring during production operations

- During each phase of well life (drilling, completion and production) of a ConocoPhillips well, COP personnel will follow all necessary procedures to ensure both the operation and the equipment are within the NMAC 19.15.27.8 Subsection D guidelines.
- During well operations that require unloading of the well to atmospheric pressure, all reasonable actions will be taken to minimize vented gas
- Through the life of the well all flaring shall be measured, and venting events quantified using the data available and industry best practice.

E. Performance standards for separation, storage tank and flare equipment

- All storage tanks and separation equipment are designed minimize risk of liquid or vapor release and optimize gas capture. This includes automation for automatic gauging and pressure monitoring.

- All flare stacks are equipped with auto ignition devices and/or continuous pilots and are designed to operate at maximum combustion efficiency pursuant NMAC 19.15.27.8 Subsection E. Flares will follow COP spacing guidelines to ensure they are a safe distance from combustibles and operations equipment.
- COP personnel will conduct routine AVO inspections on a regular basis per NMAC 19.15.27.8 Subsection E guidelines.

F. Measurement of vented and flared natural gas.

- Measurement equipment will be installed to quantify gas flared during drilling, completion and production of the well.
- All measurement devices installed will meet accuracy ratings per AGA and API standards.
- Measurement devices will be installed without manifolds that allow diversion of gas around the metering element, except for the sole purpose of inspection of servicing the measurement device.

VIII. Best Management Practices

- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize blowdowns to atmosphere
- When feasible, Operator will use electric or air actuated equipment to reduce bleed emissions

COG Operating, LLC - Admiral Federal Com #706H

1. Geologic Formations

TVD of target	10,194' EOL	Pilot hole depth	NA
MD at TD:	20,199'	Deepest expected fresh water:	200'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	582	Water	
Top of Salt	754	Salt	
Base of Salt	2754	Salt	
Lamar	2935	Salt Water	
Bell Canyon	2979	Salt Water	
Cherry Canyon	3825	Oil/Gas	
Brushy Canyon	5105	Oil/Gas	
Bone Spring Lime	6699	Oil/Gas	
U. Avalon Shale	7013	Oil/Gas	
L. Avalon Shale	7204	Oil/Gas	
1st Bone Spring Sand	7613	Oil/Gas	
2nd Bone Spring Sand	8279	Oil/Gas	
3rd Bone Spring Sand	9540	Oil/Gas	
Wolfcamp	9899	Target Oil/Gas	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	704	10.75"	45.5	N80	BTC	7.85	1.58	32.47	34.25
9.875"	0	8500	7.625"	29.7	HCL80	BTC	1.50	1.37	2.88	2.90
8.750"	8500	9595	7.625"	29.7	HCP 110	TL-FJ	1.50	1.42	3.30	2.31
6.75"	0	9395	5.5"	23	P110	BTC	2.29	2.72	3.11	3.09
6.75"	9395	20,199	5.5"	23	P110	Talon HTQ	2.29	2.72	3.11	3.02
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Intermediate burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

COG Operating, LLC - Admiral Federal Com #706H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

COG Operating, LLC - Admiral Federal Com #706H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft ³ / sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	230	13.5	1.75	9	12	Lead: Class C + 4% Gel
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter.	1400	11	2.8	19	48	Lead: NeoCem
	300	16.4	1.1	5	8	Tail: Class H
5.5 Prod	750	12.7	2	10.6	16	Lead: 35:65:6 H Blend
	1200	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results

Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	8,000'	35%

COG Operating, LLC - Admiral Federal Com #706H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
12-1/4"	13-5/8"	3M	Annular	x	2500 psi
			Blind Ram		3M
			Pipe Ram	x	
			Double Ram	x	
			Other*		
8 1/2"	13-5/8"	5M	5M Annular	x	2500 psi
			Blind Ram		5M
			Pipe Ram	x	
			Double Ram	x	
			Other*		

BOP and BOPE will be installed per Onshore Order #2 requirements prior to drilling below the surface casing and will be rated to the above pressure rating or greater, see attached diagrams. Required safety valves, with appropriate wrenches and subs for the drill string being utilized, will be in the open position and accessible on the rig floor.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

COG Operating, LLC - Admiral Federal Com #706H

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.4 - 8.6	28-29	N/C
Surf csg	Int shoe	Diesel Brine Emul	8.6 - 9.4	30-40	N/C
Int shoe	Lateral TD	OBM	10.5 - 12	30-40	20

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---	-----------------------------

6. Logging and Testing Procedures

Logging, Coring and Testing.	
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
N	Are Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain.
N	Coring? If yes, explain.

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
Y	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	

COG Operating, LLC - Admiral Federal Com #706H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	6365 psi at 10194' TVD
Abnormal Temperature	NO 160 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H ₂ S) monitors will be installed prior to drilling out the surface shoe. If H ₂ S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H ₂ S is present
Y	H ₂ S Plan attached

8. Other Facets of Operation

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

x	H ₂ S Plan.
x	BOP & Choke Schematics.
x	Directional Plan
x	5M Annular Variance

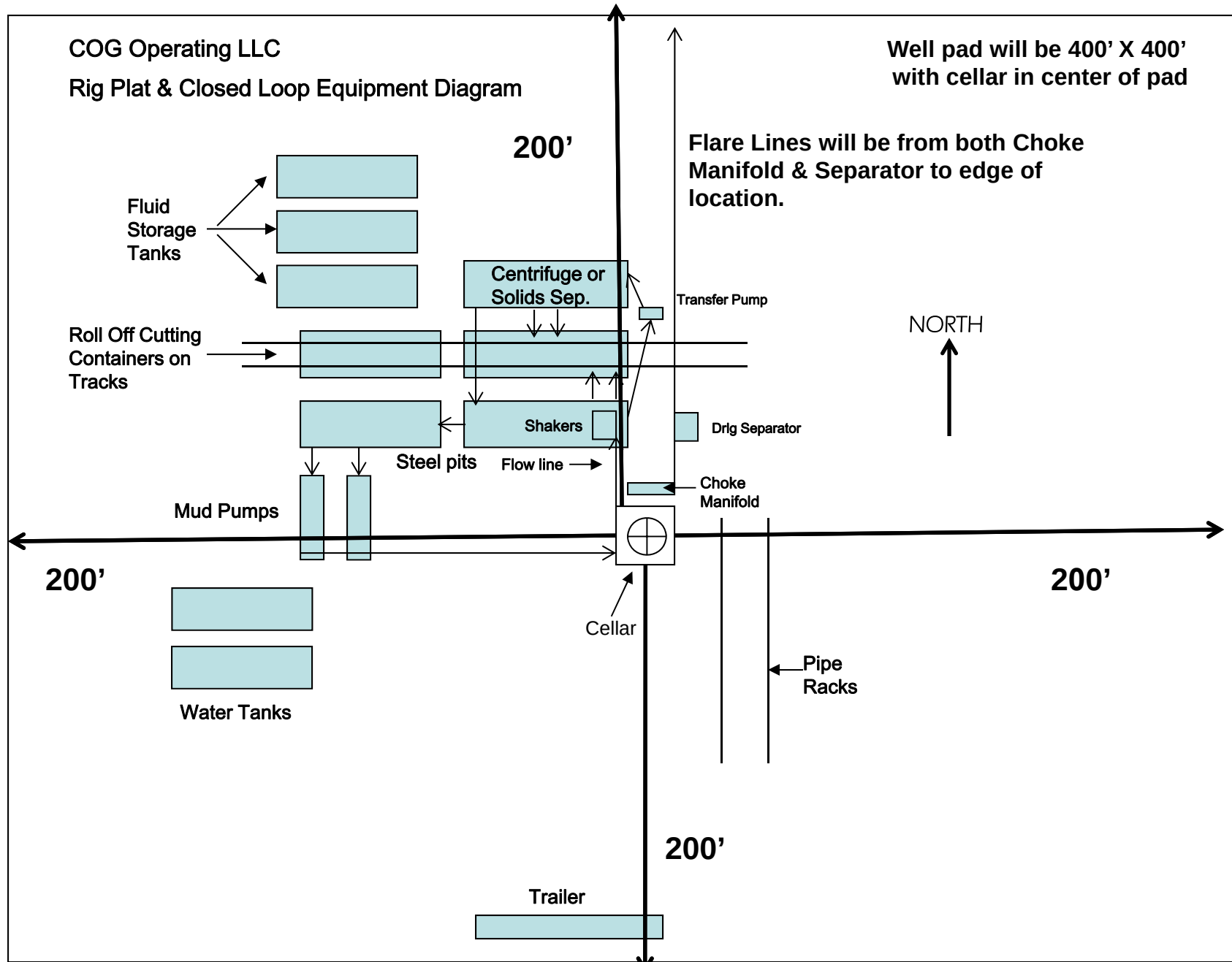


Exhibit 1

"I further certify that COG will comply with Rule 19.15.17 NMAC by using a Closed Loop System."

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

ADMIRAL FEDERAL PROJECT (ATLAS 2529)

ADMIRAL FEDERAL #706H

OWB

PWP1

Anticollision Report

10 December, 2020

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference	PWP1
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	Stations
Depth Range:	Unlimited
Results Limited by:	Maximum ellipse separation of 2,000.0 usft
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Pedal Curve
Casing Method:	Not applied

Survey Tool Program		Date	12/10/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	20,198.3	PWP1 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ADMIRAL FEDERAL PROJECT (ATLAS 2529)						
ADMIRAL FEDERAL #704H - OWB - PWP1	2,500.0	2,499.6	59.9	41.4	3.242	CC, ES, SF
ADMIRAL FEDERAL #705H - OWB - PWP1	2,500.0	2,499.8	30.0	17.3	2.365	CC, ES, SF
ADMIRAL FEDERAL #804H - OWB - PWP1	5,900.3	5,909.1	484.8	442.8	11.521	CC
ADMIRAL FEDERAL #804H - OWB - PWP1	6,000.0	6,006.6	485.3	442.5	11.341	ES
ADMIRAL FEDERAL #804H - OWB - PWP1	6,800.0	6,789.1	519.6	471.2	10.733	SF
ADMIRAL FEDERAL #805H - OWB - PWP1	8,052.0	8,046.3	437.0	399.8	11.741	CC
ADMIRAL FEDERAL #805H - OWB - PWP1	8,100.0	8,093.5	437.1	399.7	11.679	ES
ADMIRAL FEDERAL #805H - OWB - PWP1	20,198.4	20,616.8	1,208.9	1,033.8	6.905	SF
ADMIRAL FEDERAL #806H - OWB - PWP1	10,124.0	10,050.6	284.7	213.1	3.974	CC
ADMIRAL FEDERAL #806H - OWB - PWP1	10,125.0	10,051.2	284.7	213.1	3.973	ES, SF
ADMIRAL FEDERAL COM 501H - OWB - AWP	3,502.9	3,446.2	519.5	503.0	31.425	CC
ADMIRAL FEDERAL COM 501H - OWB - AWP	8,549.9	8,580.3	538.9	499.5	13.670	ES
ADMIRAL FEDERAL COM 501H - OWB - AWP	20,198.4	18,677.7	1,562.9	1,399.6	9.569	SF
ADMIRAL FEDERAL COM 502H - OWB - AWP	4,986.8	4,996.0	78.8	44.9	2.327	CC, ES
ADMIRAL FEDERAL COM 502H - OWB - AWP	5,000.0	5,007.9	79.0	45.0	2.325	SF

Offset Design	ADMIRAL FEDERAL PROJECT (ATLAS 2529) - ADMIRAL FEDERAL #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program:	0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance										Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	3.0	3.0	89.71	0.3	59.9	59.9	59.9	6.01	9.973		
100.0	100.0	99.6	99.6	3.0	3.0	89.71	0.3	59.9	59.9	53.9	6.08	9.852		
200.0	200.0	199.6	199.6	3.0	3.0	89.71	0.3	59.9	59.9	53.8	6.24	9.605		
300.0	300.0	299.6	299.6	3.1	3.1	89.71	0.3	59.9	59.9	53.7	6.47	9.260		
400.0	400.0	399.6	399.6	3.2	3.2	89.71	0.3	59.9	59.9	53.4	6.77	8.848		
500.0	500.0	499.6	499.6	3.4	3.4	89.71	0.3	59.9	59.9	53.1	7.13	8.401		
600.0	600.0	599.6	599.6	3.6	3.6	89.71	0.3	59.9	59.9	52.8	7.54	7.943		
700.0	700.0	699.6	699.6	3.8	3.8	89.71	0.3	59.9	59.9	52.4	8.00	7.491		
800.0	800.0	799.6	799.6	4.0	4.0	89.71	0.3	59.9	59.9	51.9	8.49	7.058		
900.0	900.0	899.6	899.6	4.2	4.2	89.71	0.3	59.9	59.9	51.4	9.01	6.649		
1,000.0	1,000.0	999.6	999.6	4.5	4.5	89.71	0.3	59.9	59.9	50.9	9.56	6.269		
1,100.0	1,100.0	1,099.6	1,099.6	4.8	4.8	89.71	0.3	59.9	59.9	50.3				

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design		ADMIRAL FEDERAL PROJECT (ATLAS 2529) - ADMIRAL FEDERAL #704H - OWB - PWP1											Offset Site Error:	0.0 usft		
Survey Program: 0-MWD+IFR1+FDIR															Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Distance										Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
1,200.0	1,200.0	1,199.6	1,199.6	5.1	5.1	89.71	0.3	59.9	59.9	49.8	10.12	5.917				
1,300.0	1,300.0	1,299.6	1,299.6	5.4	5.4	89.71	0.3	59.9	59.9	49.2	10.71	5.593				
1,400.0	1,400.0	1,399.6	1,399.6	5.7	5.7	89.71	0.3	59.9	59.9	48.6	11.31	5.296				
1,500.0	1,500.0	1,499.6	1,499.6	6.0	6.0	89.71	0.3	59.9	59.9	48.0	11.92	5.023				
1,600.0	1,600.0	1,599.6	1,599.6	6.3	6.3	89.71	0.3	59.9	59.9	47.4	12.55	4.773				
1,700.0	1,700.0	1,699.6	1,699.6	6.6	6.6	89.71	0.3	59.9	59.9	46.7	13.18	4.544				
1,800.0	1,800.0	1,799.6	1,799.6	6.9	6.9	89.71	0.3	59.9	59.9	46.1	13.83	4.333				
1,900.0	1,900.0	1,899.6	1,899.6	7.2	7.2	89.71	0.3	59.9	59.9	45.4	14.47	4.138				
2,000.0	2,000.0	1,999.6	1,999.6	7.6	7.6	89.71	0.3	59.9	59.9	44.8	15.13	3.959				
2,100.0	2,100.0	2,099.6	2,099.6	7.9	7.9	89.71	0.3	59.9	59.9	44.1	15.79	3.793				
2,200.0	2,200.0	2,199.6	2,199.6	8.2	8.2	89.71	0.3	59.9	59.9	43.4	16.46	3.640				
2,300.0	2,300.0	2,299.6	2,299.6	8.6	8.6	89.71	0.3	59.9	59.9	42.8	17.13	3.498				
2,400.0	2,400.0	2,399.6	2,399.6	8.9	8.9	89.71	0.3	59.9	59.9	42.1	17.80	3.365				
2,500.0	2,500.0	2,499.6	2,499.6	9.2	9.2	89.71	0.3	59.9	59.9	41.4	18.48	3.242	CC, ES, SF			
2,600.0	2,600.0	2,597.5	2,597.5	9.6	9.6	175.10	0.0	61.5	63.3	44.2	19.12	3.311				
2,700.0	2,699.8	2,694.6	2,694.5	9.9	9.9	176.05	-0.8	66.4	73.6	53.8	19.73	3.728				
2,800.0	2,799.5	2,791.7	2,791.3	10.2	10.2	177.15	-2.1	74.2	90.3	69.9	20.35	4.437				
2,900.0	2,898.9	2,889.9	2,889.0	10.6	10.5	177.99	-3.5	82.7	109.3	88.3	20.99	5.206				
3,000.0	2,998.4	2,988.1	2,986.8	10.9	10.8	178.58	-4.8	91.1	128.3	106.7	21.64	5.929				
3,100.0	3,097.8	3,086.2	3,084.6	11.2	11.2	179.02	-6.2	99.5	147.3	125.0	22.29	6.609				
3,200.0	3,197.3	3,184.4	3,182.4	11.6	11.5	179.36	-7.6	108.0	166.4	143.4	22.95	7.249				
3,300.0	3,296.7	3,282.6	3,280.2	11.9	11.8	179.63	-9.0	116.4	185.4	161.8	23.61	7.853				
3,400.0	3,396.2	3,380.7	3,378.0	12.3	12.2	179.85	-10.4	124.8	204.5	180.2	24.27	8.423				
3,500.0	3,495.6	3,478.9	3,475.8	12.6	12.5	-179.96	-11.8	133.3	223.5	198.6	24.94	8.961				
3,600.0	3,595.1	3,577.1	3,573.6	12.9	12.8	-179.81	-13.2	141.7	242.6	216.9	25.61	9.471				
3,700.0	3,694.5	3,675.2	3,671.4	13.3	13.2	-179.68	-14.6	150.1	261.6	235.3	26.28	9.954				
3,800.0	3,794.0	3,773.4	3,769.2	13.6	13.5	-179.57	-16.0	158.6	280.7	253.7	26.96	10.411				
3,900.0	3,893.4	3,871.6	3,867.0	14.0	13.8	-179.47	-17.4	167.0	299.7	272.1	27.63	10.846				
4,000.0	3,992.9	3,969.7	3,964.8	14.3	14.2	-179.38	-18.8	175.4	318.8	290.5	28.31	11.259				
4,100.0	4,092.3	4,067.9	4,062.6	14.7	14.5	-179.30	-20.1	183.9	337.8	308.8	28.99	11.652				
4,200.0	4,191.8	4,166.1	4,160.4	15.0	14.9	-179.23	-21.5	192.3	356.9	327.2	29.67	12.026				
4,300.0	4,291.2	4,264.2	4,258.2	15.4	15.2	-179.17	-22.9	200.7	375.9	345.6	30.36	12.383				
4,400.0	4,390.7	4,362.4	4,356.0	15.7	15.5	-179.11	-24.3	209.2	395.0	363.9	31.04	12.723				
4,500.0	4,490.1	4,460.6	4,453.8	16.1	15.9	-179.06	-25.7	217.6	414.0	382.3	31.73	13.048				
4,600.0	4,589.6	4,558.7	4,551.5	16.4	16.2	-179.02	-27.1	226.1	433.1	400.7	32.42	13.359				
4,700.0	4,689.0	4,656.9	4,649.3	16.8	16.6	-178.97	-28.5	234.5	452.2	419.0	33.11	13.656				
4,800.0	4,788.5	4,755.1	4,747.1	17.1	16.9	-178.94	-29.9	242.9	471.2	437.4	33.80	13.941				
4,900.0	4,887.9	4,853.2	4,844.9	17.5	17.3	-178.90	-31.3	251.4	490.3	455.8	34.49	14.214				
5,000.0	4,987.4	4,951.4	4,942.7	17.9	17.6	-178.87	-32.7	259.8	509.3	474.1	35.19	14.475				
5,100.0	5,086.9	5,049.6	5,040.5	18.2	17.9	-178.84	-34.0	268.2	528.4	492.5	35.88	14.727				
5,200.0	5,186.3	5,147.7	5,138.3	18.6	18.3	-178.81	-35.4	276.7	547.4	510.9	36.57	14.968				
5,300.0	5,285.8	5,245.9	5,236.1	18.9	18.6	-178.78	-36.8	285.1	566.5	529.2	37.27	15.200				
5,400.0	5,385.2	5,344.1	5,333.9	19.3	19.0	-178.75	-38.2	293.5	585.6	547.6	37.97	15.422				
5,500.0	5,484.7	5,442.2	5,431.7	19.6	19.3	-178.73	-39.6	302.0	604.6	565.9	38.67	15.637				
5,600.0	5,584.1	5,540.4	5,529.5	20.0	19.7	-178.71	-41.0	310.4	623.7	584.3	39.36	15.844				
5,700.0	5,683.6	5,638.6	5,627.3	20.4	20.0	-178.69	-42.4	318.8	642.7	602.7	40.06	16.043				
5,800.0	5,783.0	5,736.7	5,725.1	20.7	20.4	-178.67	-43.8	327.3	661.8	621.0	40.76	16.235				
5,900.0	5,882.5	5,834.9	5,822.9	21.1	20.7	-178.65	-45.2	335.7	680.8	639.4	41.46	16.420				
6,000.0	5,981.9	5,933.1	5,920.7	21.4	21.1	-178.63	-46.6	344.1	699.9	657.7	42.16	16.599				
6,100.0	6,081.4	6,031.2	6,018.5	21.8	21.4	-178.62	-48.0	352.6	719.0	676.1	42.87	16.772				
6,200.0	6,180.8	6,129.4	6,116.3	22.1	21.8	-178.60	-49.3	361.0	738.0	694.4	43.57	16.939				

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

Concho Resources LLC

Anticollision Report

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Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design ADMIRAL FEDERAL PROJECT (ATLAS 2529) - ADMIRAL FEDERAL #704H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,300.0	6,280.3	6,227.6	6,214.0	22.5	22.1	-178.59	-50.7	369.4	757.1	712.8	44.27	17.101		
6,400.0	6,379.7	6,325.7	6,311.8	22.9	22.5	-178.57	-52.1	377.9	776.1	731.2	44.98	17.257		
6,500.0	6,479.2	6,423.9	6,409.6	23.2	22.8	-178.56	-53.5	386.3	795.2	749.5	45.68	17.408		
6,600.0	6,578.6	6,522.1	6,507.4	23.6	23.2	-178.55	-54.9	394.7	814.3	767.9	46.38	17.555		
6,700.0	6,678.1	6,620.2	6,605.2	23.9	23.5	-178.53	-56.3	403.2	833.3	786.2	47.09	17.696		
6,800.0	6,777.5	6,718.4	6,703.0	24.3	23.9	-178.52	-57.7	411.6	852.4	804.6	47.79	17.834		
6,900.0	6,877.0	6,816.6	6,800.8	24.7	24.2	-178.51	-59.1	420.0	871.4	822.9	48.50	17.967		
7,000.0	6,976.4	6,914.7	6,898.6	25.0	24.6	-178.50	-60.5	428.5	890.5	841.3	49.21	18.097		
7,100.0	7,075.9	7,012.9	6,996.4	25.4	24.9	-178.49	-61.9	436.9	909.5	859.6	49.91	18.222		
7,200.0	7,175.3	7,111.1	7,094.2	25.8	25.3	-178.48	-63.2	445.3	928.6	878.0	50.62	18.344		
7,300.0	7,274.8	7,209.2	7,192.0	26.1	25.6	-178.47	-64.6	453.8	947.7	896.3	51.33	18.463		
7,400.0	7,374.3	7,307.4	7,289.8	26.5	26.0	-178.46	-66.0	462.2	966.7	914.7	52.04	18.578		
7,500.0	7,473.7	7,405.6	7,387.6	26.8	26.3	-178.45	-67.4	470.6	985.8	933.0	52.74	18.690		
7,600.0	7,573.2	7,503.7	7,485.4	27.2	26.7	-178.44	-68.8	479.1	1,004.8	951.4	53.45	18.799		
7,700.0	7,672.6	7,601.9	7,583.2	27.6	27.0	-178.44	-70.2	487.5	1,023.9	969.7	54.16	18.904		
7,800.0	7,772.1	7,700.1	7,681.0	27.9	27.4	-178.43	-71.6	495.9	1,043.0	988.1	54.87	19.007		
7,900.0	7,871.5	7,798.2	7,778.8	28.3	27.8	-178.42	-73.0	504.4	1,062.0	1,006.4	55.58	19.108		
8,000.0	7,971.0	7,896.4	7,876.5	28.6	28.1	-178.41	-74.4	512.8	1,081.1	1,024.8	56.29	19.205		
8,100.0	8,070.4	7,994.6	7,974.3	29.0	28.5	-178.41	-75.8	521.2	1,100.1	1,043.1	57.00	19.300		
8,200.0	8,169.9	8,092.7	8,072.1	29.4	28.8	-178.40	-77.2	529.7	1,119.2	1,061.5	57.71	19.393		
8,300.0	8,269.3	8,190.9	8,169.9	29.7	29.2	-178.39	-78.5	538.1	1,138.2	1,079.8	58.42	19.483		
8,400.0	8,368.8	8,289.1	8,267.7	30.1	29.5	-178.39	-79.9	546.5	1,157.3	1,098.2	59.13	19.571		
8,500.0	8,468.2	8,387.2	8,365.5	30.5	29.9	-178.38	-81.3	555.0	1,176.4	1,116.5	59.84	19.657		
8,600.0	8,567.7	8,485.4	8,463.3	30.8	30.2	-178.37	-82.7	563.4	1,195.4	1,134.9	60.56	19.741		
8,700.0	8,667.1	8,583.6	8,561.1	31.2	30.6	-178.37	-84.1	571.8	1,214.5	1,153.2	61.27	19.823		
8,800.0	8,766.6	8,681.7	8,658.9	31.6	30.9	-178.36	-85.5	580.3	1,233.5	1,171.6	61.98	19.902		
8,900.0	8,866.0	8,779.9	8,756.7	31.9	31.3	-178.36	-86.9	588.7	1,252.6	1,189.9	62.69	19.980		
9,000.0	8,965.5	8,878.1	8,854.5	32.3	31.6	-178.35	-88.3	597.1	1,271.7	1,208.3	63.40	20.056		
9,100.0	9,064.9	8,976.2	8,952.3	32.6	32.0	-178.35	-89.7	605.6	1,290.7	1,226.6	64.12	20.131		
9,200.0	9,164.4	9,074.4	9,050.1	33.0	32.4	-178.34	-91.1	614.0	1,309.8	1,244.9	64.83	20.203		
9,300.0	9,263.8	9,172.6	9,147.9	33.4	32.7	-178.34	-92.5	622.4	1,328.8	1,263.3	65.54	20.274		
9,400.0	9,363.3	9,270.7	9,245.7	33.7	33.1	-178.33	-93.8	630.9	1,347.9	1,281.6	66.26	20.343		
9,500.0	9,462.7	9,368.9	9,343.5	34.1	33.4	-178.33	-95.2	639.3	1,367.0	1,300.0	66.97	20.411		
9,600.0	9,562.2	9,467.1	9,441.3	34.5	33.8	-178.32	-96.6	647.7	1,386.0	1,318.3	67.68	20.478		
9,700.0	9,661.7	9,565.2	9,539.0	34.8	34.1	-178.32	-98.0	656.2	1,405.1	1,336.7	68.40	20.542		
9,744.7	9,706.1	9,609.1	9,582.8	35.0	34.3	-178.32	-98.6	659.9	1,413.6	1,344.9	68.72	20.571		
9,750.0	9,711.4	9,614.3	9,587.9	35.0	34.3	176.42	-98.7	660.4	1,414.6	1,345.9	68.76	20.575		
9,775.0	9,736.2	9,638.8	9,612.3	35.1	34.4	158.11	-99.1	662.5	1,419.8	1,350.9	68.93	20.597		
9,800.0	9,760.8	9,663.0	9,636.4	35.2	34.5	147.25	-99.4	664.6	1,425.6	1,356.5	69.11	20.627		
9,825.0	9,785.3	9,684.3	9,657.6	35.3	34.6	140.34	-99.7	666.4	1,432.0	1,362.7	69.27	20.673		
9,850.0	9,809.4	9,700.0	9,673.3	35.4	34.6	135.48	-99.7	667.8	1,439.0	1,369.6	69.39	20.739		
9,875.0	9,833.3	9,719.1	9,692.3	35.5	34.7	131.82	-99.0	669.7	1,446.7	1,377.2	69.53	20.807		
9,900.0	9,856.7	9,735.4	9,708.4	35.6	34.7	128.84	-97.8	671.5	1,455.1	1,385.4	69.65	20.891		
9,925.0	9,879.6	9,750.0	9,722.8	35.6	34.8	126.27	-96.3	673.2	1,464.1	1,394.3	69.76	20.988		
9,950.0	9,902.0	9,767.6	9,740.1	35.7	34.9	124.01	-93.9	675.4	1,473.6	1,403.8	69.88	21.087		
9,975.0	9,923.8	9,783.5	9,755.6	35.8	34.9	121.91	-91.2	677.6	1,483.8	1,413.8	70.00	21.198		
10,000.0	9,944.9	9,800.0	9,771.7	35.9	35.0	119.93	-87.9	679.9	1,494.5	1,424.4	70.12	21.315		
10,025.0	9,965.4	9,814.7	9,785.8	36.0	35.0	117.99	-84.4	682.1	1,505.7	1,435.5	70.22	21.443		
10,050.0	9,985.0	9,830.2	9,800.5	36.0	35.1	116.10	-80.4	684.6	1,517.4	1,447.1	70.33	21.577		
10,075.0	10,003.8	9,845.4	9,814.9	36.1	35.1	114.22	-76.0	687.1	1,529.6	1,459.2	70.43	21.717		
10,100.0	10,021.8	9,860.5	9,828.9	36.2	35.2	112.34	-71.1	689.6	1,542.2	1,471.7	70.54	21.863		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design ADMIRAL FEDERAL PROJECT (ATLAS 2529) - ADMIRAL FEDERAL #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,125.0	10,038.8	9,875.0	9,842.3	36.2	35.2	110.45	-66.1	692.2	1,555.2	1,484.6	70.64	22.016	
10,150.0	10,054.9	9,890.1	9,856.0	36.3	35.3	108.55	-60.4	695.0	1,568.5	1,497.8	70.74	22.173	
10,175.0	10,069.9	9,904.7	9,869.1	36.3	35.3	106.62	-54.5	697.8	1,582.2	1,511.4	70.84	22.334	
10,200.0	10,083.9	9,919.2	9,881.8	36.4	35.4	104.68	-48.3	700.7	1,596.2	1,525.2	70.94	22.500	
10,225.0	10,096.7	9,933.5	9,894.2	36.4	35.4	102.72	-41.7	703.6	1,610.4	1,539.4	71.04	22.670	
10,250.0	10,108.5	9,950.0	9,908.2	36.4	35.5	100.79	-33.7	707.0	1,624.8	1,553.7	71.15	22.838	
10,275.0	10,119.1	9,961.6	9,917.9	36.5	35.5	98.75	-27.8	709.5	1,639.5	1,568.2	71.22	23.018	
10,300.0	10,128.5	9,975.0	9,928.9	36.5	35.5	96.75	-20.8	712.4	1,654.3	1,582.9	71.31	23.197	
10,325.0	10,136.6	9,989.3	9,940.4	36.5	35.6	94.77	-12.9	715.6	1,669.2	1,597.8	71.41	23.376	
10,350.0	10,143.5	10,002.9	9,951.1	36.6	35.6	92.78	-5.0	718.7	1,684.2	1,612.7	71.50	23.557	
10,375.0	10,149.2	10,016.5	9,961.5	36.6	35.6	90.82	3.0	721.9	1,699.3	1,627.7	71.58	23.739	
10,400.0	10,153.6	10,029.9	9,971.6	36.7	35.7	88.88	11.4	725.0	1,714.4	1,642.7	71.67	23.921	
10,425.0	10,156.7	10,043.3	9,981.4	36.7	35.7	86.97	19.9	728.3	1,729.5	1,657.7	71.75	24.104	
10,450.0	10,158.5	10,056.7	9,990.9	36.7	35.7	85.10	28.7	731.5	1,744.5	1,672.7	71.83	24.287	
10,470.4	10,159.0	10,067.5	9,998.4	36.8	35.7	83.61	36.1	734.2	1,756.8	1,684.9	71.89	24.436	
10,500.0	10,159.1	10,083.9	10,009.4	36.8	35.8	84.14	47.4	738.3	1,774.4	1,702.5	71.99	24.650	
10,600.0	10,159.5	10,150.1	10,049.6	36.9	35.9	85.94	97.1	755.5	1,833.4	1,761.1	72.31	25.355	
10,700.0	10,159.8	10,235.9	10,090.2	37.1	36.0	87.61	168.8	778.8	1,890.4	1,817.8	72.64	26.026	
10,800.0	10,160.2	10,342.6	10,121.1	37.3	36.2	88.79	266.4	808.2	1,944.3	1,871.4	72.94	26.655	
10,900.0	10,160.5	10,511.3	10,129.3	37.5	36.3	89.11	428.9	852.1	1,993.8	1,920.5	73.28	27.209	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9672-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	89.81	0.1	30.0	30.0				
100.0	100.0	99.8	99.8	3.0	3.0	89.81	0.1	30.0	30.0	24.0	6.00	4.997	
200.0	200.0	199.8	199.8	3.0	3.0	89.81	0.1	30.0	30.0	24.0	6.04	4.965	
300.0	300.0	299.8	299.8	3.1	3.0	89.81	0.1	30.0	30.0	23.9	6.12	4.900	
400.0	400.0	399.8	399.8	3.2	3.0	89.81	0.1	30.0	30.0	23.8	6.24	4.805	
500.0	500.0	499.8	499.8	3.4	3.1	89.81	0.1	30.0	30.0	23.6	6.40	4.687	
600.0	600.0	599.8	599.8	3.6	3.1	89.81	0.1	30.0	30.0	23.4	6.59	4.553	
700.0	700.0	699.8	699.8	3.8	3.1	89.81	0.1	30.0	30.0	23.2	6.80	4.409	
800.0	800.0	799.8	799.8	4.0	3.2	89.81	0.1	30.0	30.0	23.0	7.04	4.260	
900.0	900.0	899.8	899.8	4.2	3.2	89.81	0.1	30.0	30.0	22.7	7.30	4.109	
1,000.0	1,000.0	999.8	999.8	4.5	3.2	89.81	0.1	30.0	30.0	22.4	7.58	3.960	
1,100.0	1,100.0	1,099.8	1,099.8	4.8	3.3	89.81	0.1	30.0	30.0	22.1	7.86	3.815	
1,200.0	1,200.0	1,199.8	1,199.8	5.1	3.4	89.81	0.1	30.0	30.0	21.8	8.17	3.674	
1,300.0	1,300.0	1,299.8	1,299.8	5.4	3.4	89.81	0.1	30.0	30.0	21.5	8.48	3.539	
1,400.0	1,400.0	1,399.8	1,399.8	5.7	3.5	89.81	0.1	30.0	30.0	21.2	8.80	3.410	
1,500.0	1,500.0	1,499.8	1,499.8	6.0	3.5	89.81	0.1	30.0	30.0	20.9	9.13	3.287	
1,600.0	1,600.0	1,599.8	1,599.8	6.3	3.6	89.81	0.1	30.0	30.0	20.5	9.46	3.171	
1,700.0	1,700.0	1,699.8	1,699.8	6.6	3.7	89.81	0.1	30.0	30.0	20.2	9.80	3.060	
1,800.0	1,800.0	1,799.8	1,799.8	6.9	3.8	89.81	0.1	30.0	30.0	19.9	10.15	2.956	
1,900.0	1,900.0	1,899.8	1,899.8	7.2	3.9	89.81	0.1	30.0	30.0	19.5	10.50	2.857	
2,000.0	2,000.0	1,999.8	1,999.8	7.6	3.9	89.81	0.1	30.0	30.0	19.1	10.86	2.763	
2,100.0	2,100.0	2,099.8	2,099.8	7.9	4.0	89.81	0.1	30.0	30.0	18.8	11.22	2.675	
2,200.0	2,200.0	2,199.8	2,199.8	8.2	4.1	89.81	0.1	30.0	30.0	18.4	11.58	2.591	
2,300.0	2,300.0	2,299.8	2,299.8	8.6	4.2	89.81	0.1	30.0	30.0	18.1	11.95	2.511	
2,400.0	2,400.0	2,399.8	2,399.8	8.9	4.3	89.81	0.1	30.0	30.0	17.7	12.32	2.436	
2,500.0	2,500.0	2,499.8	2,499.8	9.2	4.4	89.81	0.1	30.0	30.0	17.3	12.69	2.365 CC, ES, SF	
2,600.0	2,600.0	2,599.4	2,599.4	9.6	4.4	178.03	-1.6	30.5	32.3	19.2	13.06	2.472	
2,700.0	2,699.8	2,698.6	2,698.4	9.9	4.4	-174.62	-6.5	31.9	39.6	26.1	13.44	2.944	
2,800.0	2,799.5	2,797.7	2,797.3	10.2	4.4	-168.57	-13.1	33.9	51.6	37.8	13.83	3.734	
2,900.0	2,898.9	2,896.6	2,896.0	10.6	4.3	-165.26	-19.8	35.8	65.7	51.5	14.21	4.627	
3,000.0	2,998.4	2,995.6	2,994.7	10.9	4.3	-163.12	-26.4	37.8	80.0	65.4	14.58	5.487	
3,100.0	3,097.8	3,094.5	3,093.4	11.2	4.3	-161.63	-33.0	39.7	94.3	79.4	14.95	6.310	
3,200.0	3,197.3	3,193.5	3,192.1	11.6	4.3	-160.54	-39.6	41.7	108.7	93.4	15.31	7.096	
3,300.0	3,296.7	3,292.4	3,290.8	11.9	4.3	-159.70	-46.2	43.6	123.1	107.4	15.68	7.847	
3,400.0	3,396.2	3,391.4	3,389.5	12.3	4.3	-159.03	-52.9	45.6	137.5	121.4	16.05	8.564	
3,500.0	3,495.6	3,490.3	3,488.2	12.6	4.3	-158.49	-59.5	47.5	151.9	135.5	16.43	9.248	
3,600.0	3,595.1	3,589.3	3,586.9	12.9	4.3	-158.05	-66.1	49.5	166.4	149.6	16.80	9.900	
3,700.0	3,694.5	3,688.2	3,685.6	13.3	4.3	-157.67	-72.7	51.4	180.8	163.6	17.18	10.522	
3,800.0	3,794.0	3,787.1	3,784.3	13.6	4.3	-157.35	-79.3	53.4	195.3	177.7	17.57	11.116	
3,900.0	3,893.4	3,886.1	3,883.0	14.0	4.3	-157.08	-86.0	55.3	209.7	191.8	17.95	11.683	
4,000.0	3,992.9	3,985.0	3,981.7	14.3	4.3	-156.84	-92.6	57.3	224.2	205.9	18.34	12.224	
4,100.0	4,092.3	4,084.0	4,080.4	14.7	4.3	-156.63	-99.2	59.2	238.7	219.9	18.73	12.741	
4,200.0	4,191.8	4,182.9	4,179.1	15.0	4.3	-156.44	-105.8	61.2	253.1	234.0	19.13	13.235	
4,300.0	4,291.2	4,281.9	4,277.8	15.4	4.4	-156.28	-112.5	63.1	267.6	248.1	19.52	13.707	
4,400.0	4,390.7	4,380.8	4,376.5	15.7	4.4	-156.13	-119.1	65.1	282.1	262.2	19.92	14.158	
4,500.0	4,490.1	4,479.8	4,475.3	16.1	4.5	-155.99	-125.7	67.0	296.6	276.3	20.33	14.590	
4,600.0	4,589.6	4,578.7	4,574.0	16.4	4.5	-155.87	-132.3	68.9	311.1	290.3	20.73	15.003	
4,700.0	4,689.0	4,677.6	4,672.7	16.8	4.5	-155.76	-138.9	70.9	325.5	304.4	21.14	15.398	
4,800.0	4,788.5	4,776.6	4,771.4	17.1	4.6	-155.66	-145.6	72.8	340.0	318.5	21.55	15.776	
4,900.0	4,887.9	4,875.5	4,870.1	17.5	4.7	-155.57	-152.2	74.8	354.5	332.5	21.97	16.139	
5,000.0	4,987.4	4,976.1	4,970.4	17.9	4.7	-155.49	-158.8	76.7	368.9	346.5	22.39	16.478	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9672-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance										Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.0	5,086.9	5,080.1	5,074.2	18.2	4.8	-155.58	-164.2	78.3	382.3	359.5	22.82	16.751		
5,200.0	5,186.3	5,184.4	5,178.5	18.6	4.8	-155.85	-167.9	79.4	394.4	371.2	23.26	16.958		
5,300.0	5,285.8	5,288.9	5,283.0	18.9	4.9	-156.30	-169.7	79.9	405.3	381.6	23.69	17.104		
5,400.0	5,385.2	5,391.0	5,385.0	19.3	4.9	-156.87	-169.9	80.0	415.0	390.9	24.11	17.215		
5,500.0	5,484.7	5,490.4	5,484.5	19.6	5.0	-157.42	-169.9	80.0	424.7	400.1	24.51	17.326		
5,600.0	5,584.1	5,589.9	5,583.9	20.0	5.1	-157.95	-169.9	80.0	434.3	409.4	24.91	17.434		
5,700.0	5,683.6	5,689.3	5,683.4	20.4	5.1	-158.46	-169.9	80.0	444.0	418.7	25.32	17.540		
5,800.0	5,783.0	5,788.8	5,782.8	20.7	5.2	-158.94	-169.9	80.0	453.8	428.1	25.72	17.642		
5,900.0	5,882.5	5,888.2	5,882.3	21.1	5.2	-159.41	-169.9	80.0	463.6	437.4	26.13	17.741		
6,000.0	5,981.9	5,987.7	5,981.7	21.4	5.3	-159.85	-169.9	80.0	473.4	446.8	26.54	17.838		
6,100.0	6,081.4	6,087.1	6,081.2	21.8	5.4	-160.28	-169.9	80.0	483.2	456.3	26.95	17.932		
6,200.0	6,180.8	6,186.6	6,180.6	22.1	5.4	-160.69	-169.9	80.0	493.1	465.7	27.36	18.023		
6,300.0	6,280.3	6,286.0	6,280.1	22.5	5.5	-161.08	-169.9	80.0	502.9	475.2	27.77	18.112		
6,400.0	6,379.7	6,385.5	6,379.5	22.9	5.6	-161.46	-169.9	80.0	512.9	484.7	28.18	18.199		
6,500.0	6,479.2	6,484.9	6,479.0	23.2	5.7	-161.82	-169.9	80.0	522.8	494.2	28.59	18.283		
6,600.0	6,578.6	6,584.4	6,578.4	23.6	5.7	-162.17	-169.9	80.0	532.7	503.7	29.01	18.365		
6,700.0	6,678.1	6,683.8	6,677.9	23.9	5.8	-162.51	-169.9	80.0	542.7	513.3	29.42	18.445		
6,800.0	6,777.5	6,783.3	6,777.3	24.3	5.9	-162.84	-169.9	80.0	552.7	522.8	29.84	18.523		
6,900.0	6,877.0	6,882.7	6,876.8	24.7	6.0	-163.15	-169.9	80.0	562.7	532.4	30.25	18.599		
7,000.0	6,976.4	6,982.2	6,976.2	25.0	6.1	-163.45	-169.9	80.0	572.7	542.0	30.67	18.673		
7,100.0	7,075.9	7,081.6	7,075.7	25.4	6.2	-163.75	-169.9	80.0	582.7	551.6	31.09	18.746		
7,200.0	7,175.3	7,181.1	7,175.1	25.8	6.2	-164.03	-169.9	80.0	592.8	561.3	31.50	18.816		
7,300.0	7,274.8	7,280.5	7,274.6	26.1	6.3	-164.30	-169.9	80.0	602.8	570.9	31.92	18.885		
7,400.0	7,374.3	7,380.0	7,374.1	26.5	6.4	-164.57	-169.9	80.0	612.9	580.6	32.34	18.951		
7,500.0	7,473.7	7,479.4	7,473.5	26.8	6.5	-164.82	-169.9	80.0	623.0	590.2	32.76	19.017		
7,600.0	7,573.2	7,578.9	7,573.0	27.2	6.6	-165.07	-169.9	80.0	633.1	599.9	33.18	19.081		
7,700.0	7,672.6	7,678.4	7,672.4	27.6	6.7	-165.31	-169.9	80.0	643.2	609.6	33.60	19.143		
7,800.0	7,772.1	7,777.8	7,771.9	27.9	6.8	-165.54	-169.9	80.0	653.3	619.3	34.02	19.204		
7,900.0	7,871.5	7,877.3	7,871.3	28.3	6.9	-165.77	-169.9	80.0	663.4	629.0	34.44	19.263		
8,000.0	7,971.0	7,976.7	7,970.8	28.6	7.0	-165.99	-169.9	80.0	673.6	638.7	34.86	19.321		
8,100.0	8,070.4	8,076.2	8,070.2	29.0	7.1	-166.20	-169.9	80.0	683.7	648.5	35.28	19.378		
8,200.0	8,169.9	8,175.6	8,169.7	29.4	7.2	-166.40	-169.9	80.0	693.9	658.2	35.71	19.433		
8,300.0	8,269.3	8,275.1	8,269.1	29.7	7.3	-166.60	-169.9	80.0	704.1	667.9	36.13	19.487		
8,400.0	8,368.8	8,374.5	8,368.6	30.1	7.4	-166.80	-169.9	80.0	714.2	677.7	36.55	19.540		
8,500.0	8,468.2	8,474.0	8,468.0	30.5	7.5	-166.99	-169.9	80.0	724.4	687.4	36.98	19.592		
8,600.0	8,567.7	8,573.4	8,567.5	30.8	7.6	-167.17	-169.9	80.0	734.6	697.2	37.40	19.643		
8,700.0	8,667.1	8,672.9	8,666.9	31.2	7.7	-167.35	-169.9	80.0	744.8	707.0	37.82	19.692		
8,800.0	8,766.6	8,772.3	8,766.4	31.6	7.8	-167.52	-169.9	80.0	755.0	716.8	38.25	19.741		
8,900.0	8,866.0	8,871.8	8,865.8	31.9	7.9	-167.69	-169.9	80.0	765.2	726.6	38.67	19.788		
9,000.0	8,965.5	8,971.2	8,965.3	32.3	8.1	-167.86	-169.9	80.0	775.4	736.3	39.10	19.835		
9,100.0	9,064.9	9,070.7	9,064.7	32.6	8.2	-168.02	-169.9	80.0	785.7	746.1	39.52	19.880		
9,200.0	9,164.4	9,170.1	9,164.2	33.0	8.3	-168.17	-169.9	80.0	795.9	756.0	39.95	19.925		
9,300.0	9,263.8	9,269.6	9,263.6	33.4	8.4	-168.32	-169.9	80.0	806.1	765.8	40.37	19.968		
9,400.0	9,363.3	9,369.0	9,363.1	33.7	8.5	-168.47	-169.9	80.0	816.4	775.6	40.80	20.011		
9,500.0	9,462.7	9,468.5	9,462.5	34.1	8.6	-168.62	-169.9	80.0	826.6	785.4	41.22	20.053		
9,600.0	9,562.2	9,567.9	9,562.0	34.5	8.7	-168.76	-169.9	80.0	836.9	795.2	41.65	20.094		
9,700.0	9,661.7	9,667.4	9,661.5	34.8	8.8	-168.90	-169.9	80.0	847.1	805.1	42.06	20.142		
9,744.7	9,706.1	9,954.4	9,932.3	35.0	9.0	-174.11	-91.3	61.2	845.9	802.8	43.11	19.623		
9,750.0	9,711.4	9,965.7	9,941.6	35.0	9.0	-179.59	-84.9	59.7	844.9	801.8	43.15	19.580		
9,775.0	9,736.2	10,095.1	10,036.1	35.1	9.2	157.66	0.4	39.2	839.7	796.0	43.67	19.231		
9,800.0	9,760.8	10,174.6	10,081.0	35.2	9.3	143.91	64.1	24.0	833.8	789.8	43.97	18.962		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9672-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference				Offset				Semi Major Axis				Distance	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,825.0	9,785.3	10,218.2	10,100.8	35.3	9.3	135.81	101.9	15.0	827.7	783.6	44.15	18.748	
9,850.0	9,809.4	10,280.0	10,122.9	35.4	9.4	128.66	158.0	1.5	822.0	777.6	44.41	18.512	
9,875.0	9,833.3	10,317.9	10,132.6	35.5	9.5	124.03	193.6	-7.0	816.8	772.2	44.57	18.324	
9,900.0	9,856.7	10,350.2	10,138.5	35.6	9.5	120.43	224.4	-14.4	812.2	767.4	44.72	18.160	
9,925.0	9,879.6	10,378.4	10,141.9	35.6	9.5	117.50	251.7	-20.9	808.2	763.3	44.85	18.019	
9,950.0	9,902.0	10,403.7	10,143.6	35.7	9.6	115.02	276.3	-26.8	804.9	759.9	44.96	17.900	
9,975.0	9,923.8	10,419.3	10,143.9	35.8	9.6	113.32	291.4	-30.4	802.3	757.2	45.03	17.816	
10,000.0	9,944.9	10,433.5	10,144.0	35.9	9.6	111.82	305.2	-33.7	800.5	755.4	45.09	17.754	
10,025.0	9,965.4	10,444.4	10,144.0	36.0	9.6	110.58	315.8	-36.2	799.7	754.5	45.14	17.717	
10,037.9	9,975.6	10,450.4	10,144.1	36.0	9.6	109.93	321.6	-37.5	799.6	754.4	45.16	17.705	
10,050.0	9,985.0	10,456.1	10,144.1	36.0	9.6	109.33	327.3	-38.8	799.7	754.5	45.19	17.698	
10,075.0	10,003.8	10,468.6	10,144.1	36.1	9.6	108.06	339.5	-41.5	800.4	755.2	45.24	17.694	
10,100.0	10,021.8	10,481.8	10,144.2	36.2	9.7	106.76	352.4	-44.3	802.0	756.7	45.30	17.704	
10,125.0	10,038.8	10,500.0	10,144.2	36.2	9.7	105.24	370.1	-48.1	804.2	758.8	45.39	17.719	
10,150.0	10,054.9	10,500.0	10,144.2	36.3	9.7	104.58	370.1	-48.1	807.1	761.7	45.38	17.787	
10,175.0	10,069.9	10,525.4	10,144.3	36.3	9.7	102.76	395.0	-53.2	810.5	764.9	45.52	17.803	
10,200.0	10,083.9	10,541.1	10,144.4	36.4	9.8	101.41	410.4	-56.3	814.4	768.8	45.61	17.855	
10,225.0	10,096.7	10,557.3	10,144.4	36.4	9.8	100.06	426.3	-59.4	818.8	773.1	45.71	17.914	
10,250.0	10,108.5	10,574.0	10,144.5	36.4	9.9	98.73	442.7	-62.4	823.6	777.8	45.81	17.980	
10,275.0	10,119.1	10,600.0	10,144.6	36.5	9.9	97.16	468.3	-67.0	828.8	782.9	45.96	18.033	
10,300.0	10,128.5	10,600.0	10,144.6	36.5	9.9	96.37	468.3	-67.0	834.3	788.3	45.96	18.152	
10,325.0	10,136.6	10,626.3	10,144.7	36.5	10.0	94.93	494.2	-71.4	839.9	793.8	46.13	18.207	
10,350.0	10,143.5	10,644.3	10,144.7	36.6	10.1	93.77	512.0	-74.2	845.8	799.5	46.25	18.289	
10,375.0	10,149.2	10,662.5	10,144.8	36.6	10.1	92.66	530.0	-77.0	851.8	805.4	46.36	18.373	
10,400.0	10,153.6	10,680.8	10,144.9	36.7	10.2	91.63	548.1	-79.7	858.0	811.5	46.48	18.459	
10,425.0	10,156.7	10,700.0	10,144.9	36.7	10.3	90.66	567.1	-82.4	864.2	817.6	46.60	18.545	
10,450.0	10,158.5	10,717.8	10,145.0	36.7	10.4	89.79	584.8	-84.8	870.5	823.8	46.72	18.632	
10,470.4	10,159.0	10,733.0	10,145.1	36.8	10.4	89.12	599.8	-86.7	875.7	828.9	46.82	18.703	
10,500.0	10,159.1	10,754.9	10,145.1	36.8	10.5	89.13	621.5	-89.4	883.1	836.2	46.97	18.803	
10,600.0	10,159.5	10,828.7	10,145.4	36.9	10.9	89.15	695.0	-97.2	907.8	860.3	47.48	19.118	
10,700.0	10,159.8	10,900.0	10,145.6	37.1	11.3	89.17	766.0	-102.9	931.6	883.6	48.01	19.405	
10,800.0	10,160.2	10,975.5	10,145.9	37.3	11.8	89.18	841.4	-107.0	954.4	905.8	48.59	19.641	
10,900.0	10,160.5	11,052.3	10,146.2	37.5	12.2	89.20	918.2	-109.1	976.4	927.2	49.21	19.842	
11,000.0	10,160.9	11,145.1	10,146.5	37.7	12.8	89.21	1,011.0	-110.5	996.3	946.3	50.00	19.928	
11,100.0	10,161.2	11,243.8	10,146.9	37.9	13.5	89.22	1,109.6	-111.9	1,012.8	961.9	50.87	19.908	
11,200.0	10,161.6	11,342.9	10,147.2	38.2	14.1	89.23	1,208.7	-113.3	1,025.8	974.0	51.79	19.807	
11,300.0	10,162.0	11,442.4	10,147.6	38.4	14.9	89.23	1,308.3	-114.8	1,035.4	982.6	52.74	19.631	
11,400.0	10,162.3	11,542.2	10,147.9	38.7	15.6	89.23	1,408.1	-116.2	1,041.5	987.7	53.73	19.385	
11,500.0	10,162.7	11,642.2	10,148.3	38.9	16.3	89.22	1,508.0	-117.7	1,044.1	989.3	54.74	19.074	
11,524.2	10,162.8	11,666.4	10,148.4	39.0	16.5	89.22	1,532.2	-118.0	1,044.2	989.2	54.99	18.990	
11,600.0	10,163.0	11,742.2	10,148.6	39.2	17.1	89.22	1,608.0	-119.1	1,044.2	988.4	55.77	18.722	
11,700.0	10,163.4	11,842.2	10,149.0	39.5	17.8	89.22	1,708.0	-120.6	1,044.2	987.4	56.84	18.372	
11,800.0	10,163.8	11,942.2	10,149.3	39.8	18.6	89.22	1,808.0	-122.0	1,044.2	986.3	57.92	18.027	
11,900.0	10,164.1	12,042.2	10,149.7	40.1	19.4	89.22	1,908.0	-123.5	1,044.2	985.2	59.04	17.688	
12,000.0	10,164.5	12,142.2	10,150.0	40.5	20.2	89.22	2,008.0	-124.9	1,044.2	984.1	60.17	17.355	
12,100.0	10,164.8	12,242.2	10,150.4	40.8	21.0	89.22	2,107.9	-126.4	1,044.2	982.9	61.32	17.028	
12,200.0	10,165.2	12,342.2	10,150.7	41.2	21.8	89.22	2,207.9	-127.8	1,044.2	981.7	62.50	16.708	
12,300.0	10,165.6	12,442.2	10,151.1	41.6	22.6	89.22	2,307.9	-129.2	1,044.2	980.6	63.69	16.395	
12,400.0	10,165.9	12,542.2	10,151.4	42.0	23.4	89.22	2,407.9	-130.7	1,044.3	979.4	64.90	16.089	
12,500.0	10,166.3	12,642.2	10,151.8	42.4	24.2	89.22	2,507.9	-132.1	1,044.3	978.1	66.13	15.790	
12,600.0	10,166.6	12,742.2	10,152.1	42.8	25.0	89.22	2,607.9	-133.6	1,044.3	976.9	67.38	15.498	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design ADMIRAL FEDERAL PROJECT (ATLAS 2529) - ADMIRAL FEDERAL #705H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9672-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
12,700.0	10,167.0	12,842.2	10,152.5	43.3	25.8	89.22	2,707.9	-135.0	1,044.3	975.6	68.64	15.214		
12,800.0	10,167.4	12,942.2	10,152.9	43.7	26.6	89.22	2,807.9	-136.5	1,044.3	974.4	69.92	14.936		
12,900.0	10,167.7	13,042.2	10,153.2	44.2	27.4	89.21	2,907.9	-137.9	1,044.3	973.1	71.21	14.665		
13,000.0	10,168.1	13,142.2	10,153.6	44.7	28.3	89.21	3,007.8	-139.4	1,044.3	971.8	72.52	14.401		
13,100.0	10,168.4	13,242.2	10,153.9	45.1	29.1	89.21	3,107.8	-140.8	1,044.3	970.5	73.84	14.144		
13,200.0	10,168.8	13,342.2	10,154.3	45.6	29.9	89.21	3,207.8	-142.3	1,044.3	969.2	75.17	13.893		
13,300.0	10,169.2	13,442.2	10,154.6	46.2	30.8	89.21	3,307.8	-143.7	1,044.3	967.8	76.51	13.649		
13,400.0	10,169.5	13,542.2	10,155.0	46.7	31.6	89.21	3,407.8	-145.2	1,044.3	966.5	77.87	13.411		
13,500.0	10,169.9	13,642.2	10,155.3	47.2	32.4	89.21	3,507.8	-146.6	1,044.4	965.1	79.24	13.180		
13,600.0	10,170.2	13,742.2	10,155.7	47.7	33.3	89.21	3,607.8	-148.1	1,044.4	963.7	80.62	12.955		
13,700.0	10,170.6	13,842.2	10,156.0	48.3	34.1	89.21	3,707.8	-149.5	1,044.4	962.4	82.01	12.735		
13,800.0	10,170.9	13,942.2	10,156.4	48.9	34.9	89.21	3,807.8	-151.0	1,044.4	961.0	83.41	12.522		
13,900.0	10,171.3	14,042.2	10,156.7	49.4	35.8	89.21	3,907.7	-152.4	1,044.4	959.6	84.82	12.314		
14,000.0	10,171.7	14,142.2	10,157.1	50.0	36.6	89.21	4,007.7	-153.8	1,044.4	958.2	86.23	12.111		
14,100.0	10,172.0	14,242.2	10,157.4	50.6	37.4	89.21	4,107.7	-155.3	1,044.4	956.7	87.66	11.914		
14,200.0	10,172.4	14,342.2	10,157.8	51.2	38.3	89.21	4,207.7	-156.7	1,044.4	955.3	89.10	11.722		
14,300.0	10,172.7	14,442.2	10,158.1	51.8	39.1	89.21	4,307.7	-158.2	1,044.4	953.9	90.54	11.535		
14,400.0	10,173.1	14,542.2	10,158.5	52.4	40.0	89.21	4,407.7	-159.6	1,044.4	952.4	92.00	11.353		
14,500.0	10,173.5	14,642.2	10,158.8	53.0	40.8	89.21	4,507.7	-161.1	1,044.4	951.0	93.46	11.175		
14,600.0	10,173.8	14,742.2	10,159.2	53.6	41.7	89.21	4,607.7	-162.5	1,044.5	949.5	94.93	11.003		
14,700.0	10,174.2	14,842.2	10,159.6	54.2	42.5	89.21	4,707.7	-164.0	1,044.5	948.1	96.40	10.834		
14,800.0	10,174.5	14,942.2	10,159.9	54.9	43.4	89.21	4,807.6	-165.4	1,044.5	946.6	97.89	10.670		
14,900.0	10,174.9	15,042.2	10,160.3	55.5	44.2	89.21	4,907.6	-166.9	1,044.5	945.1	99.37	10.510		
15,000.0	10,175.3	15,142.2	10,160.6	56.2	45.1	89.21	5,007.6	-168.3	1,044.5	943.6	100.87	10.355		
15,003.4	10,175.3	15,145.6	10,160.6	56.2	45.1	89.21	5,011.0	-168.4	1,044.5	943.6	100.92	10.349		
15,096.7	10,175.6	15,234.9	10,160.9	56.8	45.8	89.21	5,100.3	-169.6	1,044.5	942.3	102.27	10.214		
15,100.0	10,175.6	15,237.3	10,160.9	56.8	45.9	89.21	5,102.7	-169.7	1,044.5	942.2	102.30	10.210		
15,135.1	10,175.7	15,263.3	10,161.0	57.0	46.1	89.20	5,128.7	-169.8	1,044.6	941.9	102.70	10.171		
15,200.0	10,176.0	15,328.2	10,161.3	57.5	46.6	89.20	5,193.6	-169.9	1,044.6	940.9	103.68	10.075		
15,300.0	10,176.3	15,428.2	10,161.6	58.1	47.5	89.20	5,293.6	-170.0	1,044.6	939.4	105.19	9.931		
15,400.0	10,176.7	15,528.2	10,162.0	58.8	48.3	89.20	5,393.6	-170.1	1,044.6	937.9	106.70	9.790		
15,500.0	10,177.1	15,628.2	10,162.3	59.5	49.2	89.20	5,493.6	-170.2	1,044.6	936.4	108.22	9.653		
15,600.0	10,177.4	15,728.2	10,162.7	60.1	50.0	89.20	5,593.6	-170.3	1,044.6	934.9	109.75	9.518		
15,700.0	10,177.8	15,828.2	10,163.0	60.8	50.9	89.20	5,693.6	-170.4	1,044.6	933.4	111.28	9.388		
15,800.0	10,178.1	15,928.2	10,163.4	61.5	51.7	89.20	5,793.6	-170.5	1,044.7	931.8	112.82	9.260		
15,900.0	10,178.5	16,028.2	10,163.8	62.2	52.6	89.20	5,893.6	-170.6	1,044.7	930.3	114.36	9.135		
16,000.0	10,178.9	16,128.2	10,164.1	62.9	53.4	89.20	5,993.6	-170.7	1,044.7	928.8	115.90	9.014		
16,100.0	10,179.2	16,228.2	10,164.5	63.6	54.3	89.20	6,093.6	-170.8	1,044.7	927.2	117.45	8.895		
16,200.0	10,179.6	16,328.2	10,164.8	64.3	55.1	89.20	6,193.6	-170.9	1,044.7	925.7	119.00	8.779		
16,300.0	10,179.9	16,428.2	10,165.2	65.0	56.0	89.20	6,293.6	-171.0	1,044.7	924.1	120.56	8.665		
16,400.0	10,180.3	16,528.2	10,165.5	65.7	56.8	89.20	6,393.6	-171.1	1,044.7	922.6	122.12	8.555		
16,500.0	10,180.7	16,628.2	10,165.9	66.4	57.7	89.20	6,493.6	-171.2	1,044.7	921.0	123.69	8.446		
16,600.0	10,181.0	16,728.2	10,166.2	67.1	58.5	89.20	6,593.6	-171.3	1,044.7	919.5	125.26	8.341		
16,700.0	10,181.4	16,828.2	10,166.6	67.8	59.4	89.20	6,693.6	-171.4	1,044.7	917.9	126.83	8.237		
16,800.0	10,181.7	16,928.2	10,166.9	68.5	60.2	89.20	6,793.6	-171.5	1,044.7	916.3	128.40	8.136		
16,900.0	10,182.1	17,028.2	10,167.3	69.3	61.1	89.20	6,893.6	-171.6	1,044.7	914.8	129.98	8.037		
17,000.0	10,182.5	17,128.2	10,167.7	70.0	61.9	89.20	6,993.6	-171.8	1,044.8	913.2	131.57	7.941		
17,100.0	10,182.8	17,228.2	10,168.0	70.7	62.8	89.20	7,093.6	-171.9	1,044.8	911.6	133.15	7.846		
17,200.0	10,183.2	17,328.2	10,168.4	71.5	63.6	89.20	7,193.6	-172.0	1,044.8	910.0	134.74	7.754		
17,300.0	10,183.5	17,428.2	10,168.7	72.2	64.5	89.20	7,293.6	-172.1	1,044.8	908.4	136.33	7.663		
17,400.0	10,183.9	17,528.2	10,169.1	72.9	65.3	89.20	7,393.6	-172.2	1,044.8	906.9	137.93	7.575		

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

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COMPASS 5000.15 Build 91E

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design ADMIRAL FEDERAL PROJECT (ATLAS 2529) - ADMIRAL FEDERAL #705H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9672-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,500.0	10,184.3	17,628.2	10,169.4	73.7	66.2	89.20	7,493.6	-172.3	1,044.8	905.3	139.52	7.488	
17,600.0	10,184.6	17,728.2	10,169.8	74.4	67.0	89.20	7,593.6	-172.4	1,044.8	903.7	141.12	7.403	
17,700.0	10,185.0	17,828.2	10,170.1	75.2	67.9	89.20	7,693.6	-172.5	1,044.8	902.1	142.73	7.320	
17,800.0	10,185.3	17,928.2	10,170.5	75.9	68.7	89.20	7,793.6	-172.6	1,044.8	900.5	144.33	7.239	
17,900.0	10,185.7	18,028.2	10,170.8	76.7	69.6	89.20	7,893.6	-172.7	1,044.8	898.9	145.94	7.159	
18,000.0	10,186.1	18,128.2	10,171.2	77.4	70.5	89.20	7,993.6	-172.8	1,044.8	897.3	147.55	7.081	
18,100.0	10,186.4	18,228.2	10,171.5	78.2	71.3	89.19	8,093.6	-172.9	1,044.8	895.7	149.16	7.005	
18,200.0	10,186.8	18,328.2	10,171.9	78.9	72.2	89.19	8,193.6	-173.0	1,044.8	894.1	150.78	6.930	
18,300.0	10,187.2	18,428.2	10,172.3	79.7	73.0	89.19	8,293.6	-173.1	1,044.9	892.5	152.39	6.856	
18,400.0	10,187.5	18,528.2	10,172.6	80.5	73.9	89.19	8,393.6	-173.2	1,044.9	890.9	154.01	6.784	
18,500.0	10,187.9	18,628.2	10,173.0	81.2	74.7	89.19	8,493.6	-173.3	1,044.9	889.2	155.63	6.714	
18,600.0	10,188.2	18,728.2	10,173.3	82.0	75.6	89.19	8,593.6	-173.4	1,044.9	887.6	157.26	6.644	
18,700.0	10,188.6	18,828.2	10,173.7	82.8	76.4	89.19	8,693.6	-173.5	1,044.9	886.0	158.88	6.577	
18,800.0	10,189.0	18,928.2	10,174.0	83.5	77.3	89.19	8,793.6	-173.6	1,044.9	884.4	160.51	6.510	
18,900.0	10,189.3	19,028.2	10,174.4	84.3	78.1	89.19	8,893.6	-173.7	1,044.9	882.8	162.13	6.445	
19,000.0	10,189.7	19,128.2	10,174.7	85.1	79.0	89.19	8,993.6	-173.8	1,044.9	881.1	163.76	6.381	
19,100.0	10,190.0	19,228.2	10,175.1	85.8	79.9	89.19	9,093.6	-173.9	1,044.9	879.5	165.40	6.318	
19,200.0	10,190.4	19,328.2	10,175.4	86.6	80.7	89.19	9,193.6	-174.1	1,044.9	877.9	167.03	6.256	
19,300.0	10,190.8	19,428.2	10,175.8	87.4	81.6	89.19	9,293.6	-174.2	1,044.9	876.3	168.67	6.195	
19,400.0	10,191.1	19,528.2	10,176.2	88.2	82.4	89.19	9,393.6	-174.3	1,044.9	874.6	170.30	6.136	
19,500.0	10,191.5	19,628.2	10,176.5	89.0	83.3	89.19	9,493.6	-174.4	1,045.0	873.0	171.94	6.077	
19,600.0	10,191.8	19,728.2	10,176.9	89.7	84.1	89.19	9,593.6	-174.5	1,045.0	871.4	173.58	6.020	
19,700.0	10,192.2	19,828.2	10,177.2	90.5	85.0	89.19	9,693.6	-174.6	1,045.0	869.7	175.22	5.964	
19,800.0	10,192.6	19,928.2	10,177.6	91.3	85.8	89.19	9,793.6	-174.7	1,045.0	868.1	176.86	5.908	
19,900.0	10,192.9	20,028.2	10,177.9	92.1	86.7	89.19	9,893.6	-174.8	1,045.0	866.5	178.51	5.854	
20,000.0	10,193.3	20,128.2	10,178.3	92.9	87.6	89.19	9,993.6	-174.9	1,045.0	864.8	180.15	5.801	
20,100.0	10,193.6	20,228.2	10,178.6	93.7	88.4	89.19	10,093.6	-175.0	1,045.0	863.2	181.80	5.748	
20,198.4	10,194.0	20,326.6	10,179.0	94.4	89.2	89.19	10,191.9	-175.1	1,045.0	861.7	183.36	5.699	

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

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COMPASS 5000.15 Build 91E

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design ADMIRAL FEDERAL PROJECT (ATLAS 2529) - ADMIRAL FEDERAL #804H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	7.1	7.1	3.0	3.0	-47.67		562.3	-617.3	835.0				
100.0	100.0	107.1	107.1	3.0	3.0	-47.67		562.3	-617.3	835.0	829.0	6.01	139.000	
200.0	200.0	207.1	207.1	3.0	3.0	-47.67		562.3	-617.3	835.0	828.9	6.08	137.232	
300.0	300.0	307.1	307.1	3.1	3.1	-47.67		562.3	-617.3	835.0	828.8	6.24	133.730	
400.0	400.0	407.1	407.1	3.2	3.2	-47.67		562.3	-617.3	835.0	828.5	6.48	128.877	
500.0	500.0	507.1	507.1	3.4	3.4	-47.67		562.3	-617.3	835.0	828.2	6.78	123.116	
600.0	600.0	607.1	607.1	3.6	3.6	-47.67		562.3	-617.3	835.0	827.9	7.14	116.871	
700.0	700.0	707.1	707.1	3.8	3.8	-47.67		562.3	-617.3	835.0	827.5	7.56	110.480	
800.0	800.0	807.1	807.1	4.0	4.0	-47.67		562.3	-617.3	835.0	827.0	8.01	104.191	
900.0	900.0	907.1	907.1	4.2	4.3	-47.67		562.3	-617.3	835.0	826.5	8.51	98.162	
1,000.0	1,000.0	1,007.1	1,007.1	4.5	4.5	-47.67		562.3	-617.3	835.0	826.0	9.03	92.483	
1,100.0	1,100.0	1,107.1	1,107.1	4.8	4.8	-47.67		562.3	-617.3	835.0	825.4	9.58	87.194	
1,200.0	1,200.0	1,207.1	1,207.1	5.1	5.1	-47.67		562.3	-617.3	835.0	824.9	10.15	82.306	
1,300.0	1,300.0	1,307.1	1,307.1	5.4	5.4	-47.67		562.3	-617.3	835.0	824.3	10.73	77.808	
1,400.0	1,400.0	1,407.1	1,407.1	5.7	5.7	-47.67		562.3	-617.3	835.0	823.7	11.33	73.679	
1,500.0	1,500.0	1,507.1	1,507.1	6.0	6.0	-47.67		562.3	-617.3	835.0	823.1	11.95	69.890	
1,600.0	1,600.0	1,607.1	1,607.1	6.3	6.3	-47.67		562.3	-617.3	835.0	822.4	12.57	66.415	
1,700.0	1,700.0	1,707.1	1,707.1	6.6	6.6	-47.67		562.3	-617.3	835.0	821.8	13.21	63.225	
1,800.0	1,800.0	1,807.1	1,807.1	6.9	6.9	-47.67		562.3	-617.3	835.0	821.2	13.85	60.292	
1,900.0	1,900.0	1,907.1	1,907.1	7.2	7.3	-47.67		562.3	-617.3	835.0	820.5	14.50	57.591	
2,000.0	2,000.0	2,007.1	2,007.1	7.6	7.6	-47.67		562.3	-617.3	835.0	819.9	15.15	55.099	
2,100.0	2,100.0	2,107.1	2,107.1	7.9	7.9	-47.67		562.3	-617.3	835.0	819.2	15.82	52.797	
2,200.0	2,200.0	2,207.1	2,207.1	8.2	8.3	-47.67		562.3	-617.3	835.0	818.5	16.48	50.665	
2,300.0	2,300.0	2,307.1	2,307.1	8.6	8.6	-47.67		562.3	-617.3	835.0	817.9	17.15	48.686	
2,400.0	2,400.0	2,407.1	2,407.1	8.9	8.9	-47.67		562.3	-617.3	835.0	817.2	17.82	46.847	
2,500.0	2,500.0	2,509.4	2,509.4	9.2	9.3	-47.67		562.3	-617.3	835.0	816.5	18.51	45.117	
2,600.0	2,600.0	2,641.1	2,641.1	9.6	9.7	37.60		561.8	-613.9	831.4	812.2	19.26	43.174	
2,700.0	2,699.8	2,771.5	2,771.1	9.9	10.1	38.39		560.4	-604.6	821.3	801.4	19.97	41.131	
2,800.0	2,799.5	2,876.4	2,875.4	10.2	10.5	39.43		558.7	-593.9	806.1	785.5	20.63	39.077	
2,900.0	2,898.9	2,974.2	2,972.7	10.6	10.8	40.34		557.2	-583.8	789.6	768.3	21.28	37.106	
3,000.0	2,998.4	3,072.0	3,070.0	10.9	11.1	41.29		555.7	-573.7	773.3	751.4	21.93	35.255	
3,100.0	3,097.8	3,169.8	3,167.3	11.2	11.4	42.28		554.1	-563.6	757.2	734.6	22.59	33.515	
3,200.0	3,197.3	3,267.6	3,264.5	11.6	11.8	43.31		552.6	-553.5	741.4	718.1	23.26	31.877	
3,300.0	3,296.7	3,365.5	3,361.8	11.9	12.1	44.38		551.0	-543.4	725.8	701.9	23.93	30.336	
3,400.0	3,396.2	3,463.3	3,459.1	12.3	12.4	45.50		549.5	-533.3	710.5	685.9	24.60	28.885	
3,500.0	3,495.6	3,561.1	3,556.4	12.6	12.8	46.67		548.0	-523.2	695.5	670.2	25.27	27.518	
3,600.0	3,595.1	3,658.9	3,653.7	12.9	13.1	47.89		546.4	-513.1	680.7	654.8	25.95	26.231	
3,700.0	3,694.5	3,756.7	3,751.0	13.3	13.4	49.16		544.9	-503.0	666.3	639.7	26.63	25.019	
3,800.0	3,794.0	3,854.6	3,848.2	13.6	13.8	50.49		543.3	-492.9	652.2	624.9	27.32	23.877	
3,900.0	3,893.4	3,952.4	3,945.5	14.0	14.1	51.87		541.8	-482.8	638.5	610.5	28.00	22.802	
4,000.0	3,992.9	4,050.2	4,042.8	14.3	14.5	53.31		540.3	-472.7	625.2	596.5	28.69	21.790	
4,100.0	4,092.3	4,148.0	4,140.1	14.7	14.8	54.81		538.7	-462.6	612.3	582.9	29.38	20.838	
4,200.0	4,191.8	4,245.8	4,237.4	15.0	15.1	56.37		537.2	-452.5	599.8	569.8	30.08	19.943	
4,300.0	4,291.2	4,343.7	4,334.7	15.4	15.5	57.99		535.6	-442.4	587.8	557.1	30.77	19.102	
4,400.0	4,390.7	4,441.5	4,431.9	15.7	15.8	59.68		534.1	-432.3	576.4	544.9	31.47	18.313	
4,500.0	4,490.1	4,539.3	4,529.2	16.1	16.2	61.44		532.6	-422.2	565.4	533.2	32.17	17.573	
4,600.0	4,589.6	4,637.1	4,626.5	16.4	16.5	63.26		531.0	-412.1	555.0	522.1	32.88	16.881	
4,700.0	4,689.0	4,734.9	4,723.8	16.8	16.9	65.14		529.5	-402.0	545.2	511.6	33.58	16.236	
4,800.0	4,788.5	4,832.7	4,821.1	17.1	17.2	67.09		527.9	-391.9	536.0	501.7	34.29	15.634	
4,900.0	4,887.9	4,930.6	4,918.4	17.5	17.6	69.10		526.4	-381.8	527.5	492.5	34.99	15.075	
5,000.0	4,987.4	5,028.4	5,015.7	17.9	17.9	71.17		524.9	-371.7	519.7	484.0	35.70	14.556	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design ADMIRAL FEDERAL PROJECT (ATLAS 2529) - ADMIRAL FEDERAL #804H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,086.9	5,126.2	5,112.9	18.2	18.2	73.30		523.3	-361.6	512.5	476.1	36.41	14.078	
5,200.0	5,186.3	5,224.0	5,210.2	18.6	18.6	75.49		521.8	-351.5	506.2	469.1	37.12	13.638	
5,300.0	5,285.8	5,321.8	5,307.5	18.9	18.9	77.72		520.2	-341.4	500.6	462.8	37.83	13.234	
5,400.0	5,385.2	5,419.7	5,404.8	19.3	19.3	80.00		518.7	-331.3	495.8	457.3	38.54	12.867	
5,500.0	5,484.7	5,517.5	5,502.1	19.6	19.6	82.32		517.2	-321.2	491.9	452.7	39.25	12.534	
5,600.0	5,584.1	5,615.3	5,599.4	20.0	20.0	84.67		515.6	-311.1	488.8	448.9	39.96	12.234	
5,700.0	5,683.6	5,713.1	5,696.6	20.4	20.3	87.04		514.1	-301.0	486.6	446.0	40.67	11.966	
5,800.0	5,783.0	5,810.9	5,793.9	20.7	20.7	89.44		512.5	-290.9	485.3	443.9	41.37	11.729	
5,900.0	5,882.5	5,908.8	5,891.2	21.1	21.0	91.84		511.0	-280.8	484.8	442.8	42.08	11.521	CC
5,900.3	5,882.8	5,909.1	5,891.5	21.1	21.0	91.84		511.0	-280.8	484.8	442.8	42.08	11.521	CC
6,000.0	5,981.9	6,006.6	5,988.5	21.4	21.4	94.24		509.5	-270.7	485.3	442.5	42.79	11.341	ES
6,100.0	6,081.4	6,104.4	6,085.8	21.8	21.7	96.63		507.9	-260.6	486.6	443.1	43.50	11.187	
6,200.0	6,180.8	6,202.2	6,183.1	22.1	22.1	99.00		506.4	-250.5	488.8	444.6	44.20	11.059	
6,300.0	6,280.3	6,300.0	6,280.3	22.5	22.4	101.35		504.8	-240.4	491.9	447.0	44.91	10.954	
6,400.0	6,379.7	6,397.8	6,377.6	22.9	22.8	103.67		503.3	-230.3	495.8	450.2	45.61	10.871	
6,500.0	6,479.2	6,495.7	6,474.9	23.2	23.1	105.95		501.8	-220.2	500.6	454.3	46.31	10.809	
6,600.0	6,578.6	6,593.5	6,572.2	23.6	23.5	108.19		500.2	-210.1	506.2	459.1	47.01	10.766	
6,700.0	6,678.1	6,691.3	6,669.5	23.9	23.8	110.37		498.7	-200.0	512.5	464.8	47.71	10.741	
6,800.0	6,777.5	6,789.1	6,766.8	24.3	24.2	112.50		497.2	-189.9	519.6	471.2	48.41	10.733	SF
6,900.0	6,877.0	6,886.9	6,864.0	24.7	24.5	114.57		495.6	-179.8	527.4	478.3	49.11	10.739	
7,000.0	6,976.4	6,984.8	6,961.3	25.0	24.9	116.59		494.1	-169.7	536.0	486.1	49.81	10.759	
7,100.0	7,075.9	7,082.6	7,058.6	25.4	25.3	118.53		492.5	-159.6	545.1	494.6	50.51	10.792	
7,200.0	7,175.3	7,180.4	7,155.9	25.8	25.6	120.42		491.0	-149.5	554.9	503.7	51.21	10.836	
7,300.0	7,274.8	7,278.2	7,253.2	26.1	26.0	122.24		489.5	-139.4	565.3	513.4	51.91	10.891	
7,400.0	7,374.3	7,376.0	7,350.5	26.5	26.3	123.99		487.9	-129.3	576.3	523.7	52.61	10.954	
7,500.0	7,473.7	7,473.9	7,447.7	26.8	26.7	125.68		486.4	-119.2	587.8	534.5	53.31	11.026	
7,600.0	7,573.2	7,571.7	7,545.0	27.2	27.0	127.31		484.8	-109.1	599.8	545.8	54.01	11.105	
7,700.0	7,672.6	7,669.5	7,642.3	27.6	27.4	128.87		483.3	-99.0	612.2	557.5	54.71	11.191	
7,800.0	7,772.1	7,767.3	7,739.6	27.9	27.7	130.37		481.8	-88.9	625.1	569.7	55.41	11.283	
7,900.0	7,871.5	7,865.1	7,836.9	28.3	28.1	131.81		480.2	-78.8	638.4	582.3	56.11	11.379	
8,000.0	7,971.0	7,963.0	7,934.2	28.6	28.4	133.19		478.7	-68.7	652.1	595.3	56.81	11.480	
8,100.0	8,070.4	8,060.8	8,031.5	29.0	28.8	134.51		477.1	-58.6	666.2	608.7	57.51	11.585	
8,200.0	8,169.9	8,158.6	8,128.7	29.4	29.1	135.79		475.6	-48.5	680.6	622.4	58.21	11.693	
8,300.0	8,269.3	8,256.4	8,226.0	29.7	29.5	137.00		474.1	-38.4	695.4	636.4	58.91	11.803	
8,400.0	8,368.8	8,354.2	8,323.3	30.1	29.9	138.17		472.5	-28.3	710.4	650.8	59.61	11.916	
8,500.0	8,468.2	8,452.0	8,420.6	30.5	30.2	139.30		471.0	-18.2	725.7	665.4	60.32	12.032	
8,600.0	8,567.7	8,549.9	8,517.9	30.8	30.6	140.37		469.4	-8.1	741.3	680.3	61.02	12.148	
8,700.0	8,667.1	8,647.7	8,615.2	31.2	30.9	141.40		467.9	2.0	757.1	695.4	61.73	12.266	
8,800.0	8,766.6	8,745.5	8,712.4	31.6	31.3	142.39		466.4	12.1	773.2	710.8	62.43	12.385	
8,900.0	8,866.0	8,843.3	8,809.7	31.9	31.6	143.34		464.8	22.2	789.5	726.4	63.14	12.505	
9,000.0	8,965.5	8,941.1	8,907.0	32.3	32.0	144.25		463.3	32.3	806.0	742.1	63.84	12.625	
9,100.0	9,064.9	9,039.0	9,004.3	32.6	32.3	145.13		461.7	42.4	822.7	758.1	64.55	12.745	
9,200.0	9,164.4	9,136.8	9,101.6	33.0	32.7	145.97		460.2	52.5	839.6	774.3	65.26	12.866	
9,300.0	9,263.8	9,234.6	9,198.9	33.4	33.0	146.78		458.7	62.6	856.6	790.6	65.96	12.986	
9,400.0	9,363.3	9,332.4	9,296.1	33.7	33.4	147.56		457.1	72.7	873.8	807.1	66.67	13.106	
9,500.0	9,462.7	9,430.2	9,393.4	34.1	33.8	148.30		455.6	82.8	891.2	823.8	67.38	13.226	
9,600.0	9,562.2	9,528.1	9,490.7	34.5	34.1	149.02		454.0	92.9	908.7	840.6	68.09	13.345	
9,700.0	9,661.7	9,625.9	9,588.0	34.8	34.5	149.71		452.5	103.0	926.3	857.5	68.80	13.464	
9,744.7	9,706.1	9,669.6	9,631.5	35.0	34.6	150.02		451.8	107.5	934.2	865.1	69.11	13.517	
9,750.0	9,711.4	9,674.8	9,636.6	35.0	34.6	144.79		451.7	108.0	935.1	866.0	69.15	13.523	
9,775.0	9,736.2	9,699.1	9,660.8	35.1	34.7	126.69		451.4	110.5	939.5	870.2	69.33	13.552	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.0	9,760.8	9,723.3	9,684.8	35.2	34.8	116.15	451.0	113.0	943.9	874.4	69.50	13.580		
9,825.0	9,785.3	9,747.1	9,708.6	35.3	34.9	109.68	450.6	115.5	948.1	878.5	69.68	13.608		
9,850.0	9,809.4	9,770.6	9,731.9	35.4	35.0	105.42	450.2	117.9	952.4	882.5	69.85	13.636		
9,875.0	9,833.3	9,793.7	9,754.9	35.5	35.1	102.48	449.9	120.3	956.6	886.6	70.01	13.663		
9,900.0	9,856.7	9,816.4	9,777.4	35.6	35.2	100.37	449.5	122.6	960.8	890.6	70.18	13.691		
9,925.0	9,879.6	9,838.5	9,799.4	35.6	35.2	98.81	449.2	124.9	965.0	894.7	70.34	13.720		
9,950.0	9,902.0	9,860.0	9,820.8	35.7	35.3	97.65	448.8	127.1	969.3	898.8	70.49	13.751		
9,975.0	9,923.8	9,880.8	9,841.6	35.8	35.4	96.76	448.5	129.3	973.6	903.0	70.64	13.783		
10,000.0	9,944.9	9,901.0	9,861.6	35.9	35.5	96.07	448.2	131.4	978.1	907.3	70.79	13.817		
10,025.0	9,965.4	9,920.4	9,880.9	36.0	35.5	95.53	447.9	133.4	982.7	911.8	70.93	13.855		
10,050.0	9,985.0	9,938.9	9,899.3	36.0	35.6	95.09	447.6	135.3	987.5	916.4	71.06	13.895		
10,075.0	10,003.8	9,956.6	9,916.9	36.1	35.7	94.72	447.3	137.1	992.4	921.2	71.19	13.940		
10,100.0	10,021.8	9,973.4	9,933.6	36.2	35.7	94.39	447.0	138.8	997.6	926.3	71.32	13.988		
10,125.0	10,038.8	9,989.2	9,949.3	36.2	35.8	94.07	446.8	140.5	1,003.1	931.6	71.43	14.042		
10,150.0	10,054.9	10,004.0	9,964.1	36.3	35.8	93.74	446.6	142.0	1,008.8	937.3	71.54	14.101		
10,175.0	10,069.9	10,017.8	9,977.8	36.3	35.9	93.39	446.3	143.4	1,014.9	943.2	71.65	14.165		
10,200.0	10,083.9	10,030.5	9,990.4	36.4	35.9	93.00	446.1	144.7	1,021.3	949.5	71.74	14.235		
10,225.0	10,096.7	10,042.0	10,001.9	36.4	36.0	92.55	446.0	145.9	1,028.0	956.2	71.83	14.312		
10,250.0	10,108.5	10,052.4	10,012.2	36.4	36.0	92.04	445.8	147.0	1,035.1	963.2	71.91	14.395		
10,275.0	10,119.1	10,061.7	10,021.4	36.5	36.1	91.45	445.6	147.9	1,042.6	970.6	71.98	14.484		
10,300.0	10,128.5	10,069.7	10,029.4	36.5	36.1	90.77	445.5	148.8	1,050.5	978.4	72.05	14.580		
10,325.0	10,136.6	10,076.5	10,036.1	36.5	36.1	90.00	445.4	149.5	1,058.7	986.6	72.10	14.683		
10,350.0	10,143.5	10,082.0	10,041.7	36.6	36.1	89.13	445.3	150.1	1,067.3	995.1	72.15	14.792		
10,375.0	10,149.2	10,086.3	10,045.9	36.6	36.1	88.17	445.3	150.5	1,076.2	1,004.0	72.19	14.908		
10,400.0	10,153.6	10,089.4	10,048.9	36.7	36.2	87.10	445.2	150.8	1,085.5	1,013.3	72.22	15.031		
10,425.0	10,156.7	10,091.1	10,050.7	36.7	36.2	85.93	445.2	151.0	1,095.1	1,022.9	72.24	15.159		
10,450.0	10,158.5	10,091.5	10,051.1	36.7	36.2	84.66	445.2	151.0	1,105.0	1,032.7	72.26	15.293		
10,470.4	10,159.0	10,091.0	10,050.5	36.8	36.2	83.56	445.2	151.0	1,113.3	1,041.0	72.26	15.406		
10,500.0	10,159.1	10,089.5	10,049.1	36.8	36.2	83.51	445.2	150.8	1,125.5	1,053.3	72.26	15.575		
10,600.0	10,159.5	10,084.8	10,044.4	36.9	36.1	83.35	445.3	150.3	1,169.6	1,097.3	72.28	16.181		
10,700.0	10,159.8	10,080.4	10,040.0	37.1	36.1	83.23	445.4	149.9	1,217.3	1,145.0	72.31	16.835		
10,800.0	10,160.2	10,076.4	10,036.0	37.3	36.1	83.15	445.4	149.5	1,268.2	1,195.9	72.34	17.532		
10,900.0	10,160.5	10,072.6	10,032.3	37.5	36.1	83.10	445.5	149.1	1,321.9	1,249.5	72.37	18.266		
11,000.0	10,160.9	10,069.2	10,028.9	37.7	36.1	83.08	445.5	148.7	1,377.9	1,305.5	72.41	19.031		
11,100.0	10,161.2	10,066.2	10,025.9	37.9	36.1	83.10	445.6	148.4	1,436.0	1,363.6	72.45	19.822		
11,200.0	10,161.6	10,063.5	10,023.2	38.2	36.1	83.14	445.6	148.1	1,495.9	1,423.4	72.48	20.637		
11,300.0	10,162.0	10,061.2	10,020.9	38.4	36.1	83.20	445.7	147.9	1,557.2	1,484.6	72.52	21.471		
11,400.0	10,162.3	10,059.2	10,018.9	38.7	36.0	83.29	445.7	147.7	1,619.7	1,547.1	72.56	22.321		
11,500.0	10,162.7	10,057.6	10,017.3	38.9	36.0	83.40	445.7	147.5	1,683.3	1,610.7	72.61	23.184		
11,524.2	10,162.8	10,057.2	10,017.0	39.0	36.0	83.43	445.7	147.5	1,698.8	1,626.2	72.61	23.395		
11,600.0	10,163.0	10,056.2	10,015.9	39.2	36.0	83.39	445.7	147.4	1,748.4	1,675.8	72.65	24.067		
11,700.0	10,163.4	10,054.8	10,014.6	39.5	36.0	83.33	445.8	147.2	1,816.7	1,744.0	72.69	24.992		
11,800.0	10,163.8	10,053.4	10,013.2	39.8	36.0	83.27	445.8	147.1	1,887.8	1,815.0	72.73	25.954		
11,900.0	10,164.1	10,052.1	10,011.9	40.1	36.0	83.21	445.8	147.0	1,961.4	1,888.6	72.78	26.951		

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

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COMPASS 5000.15 Build 91E

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10515-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	7.4	7.4	3.0	3.0	-49.03	562.2	-647.4	857.4					
100.0	100.0	107.4	107.4	3.0	3.0	-49.03	562.2	-647.4	857.4	851.4	6.00	142.826		
200.0	200.0	207.4	207.4	3.0	3.0	-49.03	562.2	-647.4	857.4	851.4	6.04	141.870		
300.0	300.0	307.4	307.4	3.1	3.0	-49.03	562.2	-647.4	857.4	851.3	6.13	139.905		
400.0	400.0	407.4	407.4	3.2	3.0	-49.03	562.2	-647.4	857.4	851.2	6.26	137.080		
500.0	500.0	507.4	507.4	3.4	3.1	-49.03	562.2	-647.4	857.4	851.0	6.42	133.581		
600.0	600.0	607.4	607.4	3.6	3.1	-49.03	562.2	-647.4	857.4	850.8	6.62	129.605		
700.0	700.0	707.4	707.4	3.8	3.1	-49.03	562.2	-647.4	857.4	850.6	6.84	125.329		
800.0	800.0	807.4	807.4	4.0	3.2	-49.03	562.2	-647.4	857.4	850.3	7.09	120.902		
900.0	900.0	907.4	907.4	4.2	3.2	-49.03	562.2	-647.4	857.4	850.1	7.36	116.440		
1,000.0	1,000.0	1,007.4	1,007.4	4.5	3.2	-49.03	562.2	-647.4	857.4	849.8	7.65	112.028		
1,100.0	1,100.0	1,107.4	1,107.4	4.8	3.3	-49.03	562.2	-647.4	857.4	849.5	7.96	107.727		
1,200.0	1,200.0	1,207.4	1,207.4	5.1	3.4	-49.03	562.2	-647.4	857.4	849.2	8.28	103.574		
1,300.0	1,300.0	1,307.4	1,307.4	5.4	3.4	-49.03	562.2	-647.4	857.4	848.8	8.61	99.594		
1,400.0	1,400.0	1,407.4	1,407.4	5.7	3.5	-49.03	562.2	-647.4	857.4	848.5	8.95	95.799		
1,500.0	1,500.0	1,507.4	1,507.4	6.0	3.6	-49.03	562.2	-647.4	857.4	848.1	9.30	92.194		
1,600.0	1,600.0	1,607.4	1,607.4	6.3	3.6	-49.03	562.2	-647.4	857.4	847.8	9.66	88.776		
1,700.0	1,700.0	1,707.4	1,707.4	6.6	3.7	-49.03	562.2	-647.4	857.4	847.4	10.02	85.543		
1,800.0	1,800.0	1,807.4	1,807.4	6.9	3.8	-49.03	562.2	-647.4	857.4	847.0	10.39	82.487		
1,900.0	1,900.0	1,907.4	1,907.4	7.2	3.9	-49.03	562.2	-647.4	857.4	846.7	10.77	79.599		
2,000.0	2,000.0	2,007.4	2,007.4	7.6	3.9	-49.03	562.2	-647.4	857.4	846.3	11.15	76.871		
2,100.0	2,100.0	2,107.4	2,107.4	7.9	4.0	-49.03	562.2	-647.4	857.4	845.9	11.54	74.294		
2,200.0	2,200.0	2,207.4	2,207.4	8.2	4.1	-49.03	562.2	-647.4	857.4	845.5	11.93	71.859		
2,300.0	2,300.0	2,307.4	2,307.4	8.6	4.2	-49.03	562.2	-647.4	857.4	845.1	12.33	69.556		
2,400.0	2,400.0	2,407.4	2,407.4	8.9	4.3	-49.03	562.2	-647.4	857.4	844.7	12.73	67.377		
2,500.0	2,500.0	2,507.4	2,507.4	9.2	4.4	-49.03	562.2	-647.4	857.4	844.3	13.13	65.314		
2,600.0	2,600.0	2,607.4	2,607.4	9.6	4.5	36.06	562.2	-647.4	856.0	842.5	13.53	63.286		
2,700.0	2,699.8	2,707.2	2,707.2	9.9	4.6	36.31	562.2	-647.4	851.8	837.9	13.92	61.177		
2,800.0	2,799.5	2,806.9	2,806.9	10.2	4.7	36.75	562.2	-647.4	844.8	830.5	14.33	58.963		
2,900.0	2,898.9	2,906.3	2,906.3	10.6	4.8	37.17	562.2	-647.4	836.4	821.7	14.74	56.758		
3,000.0	2,998.4	3,005.8	3,005.8	10.9	4.9	37.61	562.2	-647.4	828.1	812.9	15.15	54.660		
3,100.0	3,097.8	3,105.2	3,105.2	11.2	5.0	38.06	562.2	-647.4	819.8	804.3	15.57	52.661		
3,200.0	3,197.3	3,204.7	3,204.7	11.6	5.1	38.51	562.2	-647.4	811.6	795.6	15.99	50.756		
3,300.0	3,296.7	3,304.1	3,304.1	11.9	5.2	38.97	562.2	-647.4	803.4	787.0	16.42	48.939		
3,400.0	3,396.2	3,403.6	3,403.6	12.3	5.3	39.45	562.2	-647.4	795.3	778.5	16.85	47.206		
3,500.0	3,495.6	3,503.0	3,503.0	12.6	5.4	39.93	562.2	-647.4	787.2	770.0	17.28	45.553		
3,600.0	3,595.1	3,602.5	3,602.5	12.9	5.5	40.42	562.2	-647.4	779.2	761.5	17.72	43.975		
3,700.0	3,694.5	3,701.9	3,701.9	13.3	5.7	40.92	562.2	-647.4	771.3	753.1	18.16	42.468		
3,800.0	3,794.0	3,801.4	3,801.4	13.6	5.8	41.43	562.2	-647.4	763.4	744.8	18.61	41.027		
3,900.0	3,893.4	3,900.8	3,900.8	14.0	5.9	41.96	562.2	-647.4	755.6	736.5	19.06	39.651		
4,000.0	3,992.9	4,000.3	4,000.3	14.3	6.0	42.49	562.2	-647.4	747.8	728.3	19.51	38.334		
4,100.0	4,092.3	4,099.7	4,099.7	14.7	6.1	43.04	562.2	-647.4	740.1	720.2	19.96	37.075		
4,200.0	4,191.8	4,199.2	4,199.2	15.0	6.2	43.59	562.2	-647.4	732.5	712.1	20.42	35.869		
4,300.0	4,291.2	4,298.6	4,298.6	15.4	6.3	44.16	562.2	-647.4	725.0	704.1	20.88	34.715		
4,400.0	4,390.7	4,398.1	4,398.1	15.7	6.5	44.74	562.2	-647.4	717.5	696.1	21.35	33.609		
4,500.0	4,490.1	4,497.5	4,497.5	16.1	6.6	45.33	562.2	-647.4	710.1	688.3	21.81	32.550		
4,600.0	4,589.6	4,597.0	4,597.0	16.4	6.7	45.94	562.2	-647.4	702.7	680.5	22.28	31.534		
4,700.0	4,689.0	4,696.4	4,696.4	16.8	6.8	46.56	562.2	-647.4	695.5	672.7	22.76	30.560		
4,800.0	4,788.5	4,795.9	4,795.9	17.1	6.9	47.19	562.2	-647.4	688.3	665.1	23.23	29.626		
4,900.0	4,887.9	4,895.3	4,895.3	17.5	7.0	47.83	562.2	-647.4	681.2	657.5	23.71	28.730		
5,000.0	4,987.4	4,994.8	4,994.8	17.9	7.2	48.48	562.2	-647.4	674.2	650.1	24.19	27.870		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design ADMIRAL FEDERAL PROJECT (ATLAS 2529) - ADMIRAL FEDERAL #805H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10515-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,086.9	5,094.3	5,094.3	18.2	7.3	49.15	562.2	-647.4	667.3	642.7	24.68	27.044	
5,200.0	5,186.3	5,193.7	5,193.7	18.6	7.4	49.84	562.2	-647.4	660.5	635.4	25.16	26.251	
5,300.0	5,285.8	5,293.2	5,293.2	18.9	7.5	50.54	562.2	-647.4	653.8	628.2	25.65	25.489	
5,400.0	5,385.2	5,392.6	5,392.6	19.3	7.6	51.25	562.2	-647.4	647.2	621.1	26.14	24.758	
5,500.0	5,484.7	5,492.1	5,492.1	19.6	7.8	51.97	562.2	-647.4	640.7	614.1	26.63	24.055	
5,600.0	5,584.1	5,612.4	5,612.4	20.0	7.8	52.98	561.3	-645.4	632.8	605.7	27.05	23.395	
5,700.0	5,683.6	5,733.3	5,733.0	20.4	7.8	54.28	558.2	-638.8	621.5	594.1	27.37	22.704	
5,800.0	5,783.0	5,834.5	5,833.8	20.7	7.8	55.56	554.5	-630.9	608.3	580.6	27.76	21.917	
5,900.0	5,882.5	5,932.7	5,931.7	21.1	7.8	56.86	550.9	-623.1	595.4	567.2	28.15	21.153	
6,000.0	5,981.9	6,030.9	6,029.5	21.4	7.9	58.21	547.3	-615.3	582.8	554.3	28.54	20.419	
6,100.0	6,081.4	6,129.1	6,127.4	21.8	7.9	59.62	543.6	-607.6	570.5	541.6	28.94	19.714	
6,200.0	6,180.8	6,227.3	6,225.2	22.1	7.9	61.09	540.0	-599.8	558.6	529.3	29.34	19.038	
6,300.0	6,280.3	6,325.6	6,323.1	22.5	7.9	62.63	536.4	-592.1	547.1	517.4	29.75	18.391	
6,400.0	6,379.7	6,423.8	6,420.9	22.9	7.9	64.22	532.8	-584.3	536.0	505.9	30.16	17.773	
6,500.0	6,479.2	6,522.0	6,518.8	23.2	7.9	65.88	529.2	-576.6	525.4	494.8	30.57	17.185	
6,600.0	6,578.6	6,620.2	6,616.6	23.6	7.9	67.61	525.6	-568.8	515.2	484.2	30.99	16.625	
6,700.0	6,678.1	6,718.4	6,714.4	23.9	8.0	69.40	521.9	-561.1	505.5	474.1	31.41	16.095	
6,800.0	6,777.5	6,816.7	6,812.3	24.3	8.0	71.26	518.3	-553.3	496.3	464.5	31.83	15.593	
6,900.0	6,877.0	6,914.9	6,910.1	24.7	8.0	73.18	514.7	-545.6	487.7	455.4	32.25	15.121	
7,000.0	6,976.4	7,013.1	7,008.0	25.0	8.1	75.17	511.1	-537.8	479.7	447.0	32.68	14.677	
7,100.0	7,075.9	7,111.3	7,105.8	25.4	8.1	77.22	507.5	-530.1	472.2	439.1	33.11	14.262	
7,200.0	7,175.3	7,209.5	7,203.7	25.8	8.1	79.33	503.9	-522.3	465.4	431.9	33.54	13.877	
7,300.0	7,274.8	7,307.8	7,301.5	26.1	8.2	81.50	500.3	-514.6	459.3	425.3	33.97	13.520	
7,400.0	7,374.3	7,406.0	7,399.4	26.5	8.2	83.73	496.6	-506.8	453.9	419.5	34.40	13.193	
7,500.0	7,473.7	7,504.2	7,497.2	26.8	8.2	86.00	493.0	-499.1	449.2	414.3	34.84	12.893	
7,600.0	7,573.2	7,602.4	7,595.1	27.2	8.3	88.32	489.4	-491.3	445.2	409.9	35.27	12.623	
7,700.0	7,672.6	7,700.6	7,692.9	27.6	8.3	90.67	485.8	-483.6	442.0	406.3	35.70	12.380	
7,800.0	7,772.1	7,798.9	7,790.8	27.9	8.4	93.05	482.2	-475.8	439.6	403.5	36.14	12.165	
7,900.0	7,871.5	7,897.1	7,888.6	28.3	8.4	95.45	478.6	-468.1	438.0	401.4	36.57	11.977	
8,000.0	7,971.0	7,995.3	7,986.4	28.6	8.5	97.86	475.0	-460.3	437.1	400.1	37.00	11.815	
8,052.0	8,022.7	8,046.3	8,037.3	28.8	8.5	99.12	473.1	-456.3	437.0	399.8	37.22	11.741 CC	
8,100.0	8,070.4	8,093.5	8,084.3	29.0	8.5	100.28	471.3	-452.6	437.1	399.7	37.43	11.679 ES	
8,200.0	8,169.9	8,191.7	8,182.1	29.4	8.6	102.70	467.7	-444.8	437.9	400.1	37.86	11.568	
8,300.0	8,269.3	8,289.9	8,280.0	29.7	8.6	105.10	464.1	-437.0	439.5	401.2	38.28	11.481	
8,400.0	8,368.8	8,388.2	8,377.8	30.1	8.7	107.48	460.5	-429.3	441.9	403.2	38.71	11.417	
8,500.0	8,468.2	8,486.4	8,475.7	30.5	8.8	109.83	456.9	-421.5	445.1	405.9	39.13	11.374	
8,600.0	8,567.7	8,584.6	8,573.5	30.8	8.8	112.15	453.3	-413.8	449.0	409.4	39.55	11.352	
8,700.0	8,667.1	8,682.8	8,671.4	31.2	8.9	114.43	449.6	-406.0	453.7	413.7	39.97	11.350	
8,800.0	8,766.6	8,781.0	8,769.2	31.6	9.0	116.65	446.0	-398.3	459.1	418.7	40.39	11.366	
8,900.0	8,866.0	8,879.3	8,867.1	31.9	9.0	118.82	442.4	-390.5	465.2	424.4	40.81	11.399	
9,000.0	8,965.5	8,977.5	8,964.9	32.3	9.1	120.94	438.8	-382.8	471.9	430.7	41.23	11.447	
9,100.0	9,064.9	9,075.7	9,062.7	32.6	9.2	122.99	435.2	-375.0	479.3	437.7	41.65	11.510	
9,200.0	9,164.4	9,173.9	9,160.6	33.0	9.3	124.98	431.6	-367.3	487.4	445.3	42.06	11.586	
9,300.0	9,263.8	9,272.1	9,258.4	33.4	9.3	126.91	428.0	-359.5	496.0	453.5	42.48	11.675	
9,400.0	9,363.3	9,370.4	9,356.3	33.7	9.4	128.77	424.3	-351.8	505.1	462.2	42.90	11.774	
9,500.0	9,462.7	9,468.6	9,454.1	34.1	9.5	130.57	420.7	-344.0	514.8	471.5	43.32	11.883	
9,600.0	9,562.2	9,566.8	9,552.0	34.5	9.6	132.29	417.1	-336.3	525.0	481.2	43.74	12.001	
9,700.0	9,661.7	9,665.0	9,649.8	34.8	9.6	133.96	413.5	-328.5	535.6	491.5	44.16	12.128	
9,744.7	9,706.1	9,708.9	9,693.5	35.0	9.7	134.68	411.9	-325.1	540.5	496.2	44.35	12.187	
9,750.0	9,711.4	9,714.1	9,698.7	35.0	9.7	129.55	411.7	-324.6	541.1	496.7	44.38	12.193	
9,775.0	9,736.2	9,738.6	9,723.1	35.1	9.7	111.96	410.8	-322.7	543.6	499.1	44.48	12.221	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
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Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
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Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design ADMIRAL FEDERAL PROJECT (ATLAS 2529) - ADMIRAL FEDERAL #805H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10515-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,800.0	9,760.8	9,762.8	9,747.2	35.2	9.7	102.01	409.9	-320.8	545.7	501.1	44.58	12.241	
9,825.0	9,785.3	9,786.7	9,771.0	35.3	9.7	96.20	409.0	-318.9	547.5	502.9	44.68	12.255	
9,850.0	9,809.4	9,810.2	9,794.5	35.4	9.8	92.66	408.2	-317.1	549.1	504.3	44.77	12.263	
9,875.0	9,833.3	9,833.4	9,817.5	35.5	9.8	90.50	407.3	-315.2	550.3	505.5	44.86	12.267	
9,900.0	9,856.7	9,856.0	9,840.1	35.6	9.8	89.22	406.5	-313.4	551.5	506.5	44.95	12.268	
9,925.0	9,879.6	9,878.1	9,862.1	35.6	9.8	88.55	405.7	-311.7	552.4	507.4	45.03	12.268	
9,950.0	9,902.0	9,899.6	9,883.5	35.7	9.8	88.30	404.9	-310.0	553.4	508.3	45.10	12.269	
9,975.0	9,923.8	9,920.4	9,904.3	35.8	9.9	88.35	404.1	-308.4	554.3	509.2	45.17	12.271	
10,000.0	9,944.9	9,940.5	9,924.3	35.9	9.9	88.63	403.4	-306.8	555.4	510.1	45.23	12.278	
10,025.0	9,965.4	9,959.9	9,943.6	36.0	9.9	89.06	402.6	-305.2	556.6	511.3	45.29	12.290	
10,050.0	9,985.0	9,978.4	9,962.0	36.0	9.9	89.59	402.0	-303.8	558.1	512.7	45.33	12.311	
10,075.0	10,003.8	9,996.0	9,979.5	36.1	9.9	90.16	401.3	-302.4	559.9	514.5	45.37	12.340	
10,100.0	10,021.8	10,012.7	9,996.1	36.2	9.9	90.75	400.7	-301.1	562.1	516.7	45.40	12.381	
10,125.0	10,038.8	10,028.4	10,011.8	36.2	10.0	91.32	400.1	-299.8	564.7	519.3	45.42	12.435	
10,150.0	10,054.9	10,043.0	10,026.4	36.3	10.0	91.83	399.6	-298.7	568.0	522.6	45.43	12.503	
10,175.0	10,069.9	10,056.7	10,040.0	36.3	10.0	92.26	399.1	-297.6	571.8	526.4	45.43	12.587	
10,200.0	10,083.9	10,069.2	10,052.5	36.4	10.0	92.57	398.6	-296.6	576.3	530.9	45.42	12.688	
10,225.0	10,096.7	10,080.6	10,063.8	36.4	10.0	92.76	398.2	-295.7	581.6	536.2	45.41	12.807	
10,250.0	10,108.5	10,090.8	10,074.0	36.4	10.0	92.79	397.8	-294.9	587.5	542.2	45.39	12.945	
10,275.0	10,119.1	10,099.9	10,083.0	36.5	10.0	92.65	397.5	-294.2	594.3	548.9	45.35	13.103	
10,300.0	10,128.5	10,107.7	10,090.8	36.5	10.0	92.33	397.2	-293.6	601.8	556.5	45.32	13.280	
10,325.0	10,136.6	10,114.3	10,097.4	36.5	10.0	91.81	397.0	-293.1	610.1	564.8	45.27	13.476	
10,350.0	10,143.5	10,119.6	10,102.7	36.6	10.0	91.08	396.8	-292.6	619.1	573.9	45.22	13.691	
10,375.0	10,149.2	10,123.7	10,106.7	36.6	10.0	90.14	396.6	-292.3	628.9	583.7	45.16	13.924	
10,400.0	10,153.6	10,126.5	10,109.5	36.7	10.0	88.99	396.5	-292.1	639.4	594.3	45.10	14.175	
10,425.0	10,156.7	10,127.9	10,111.0	36.7	10.0	87.62	396.5	-292.0	650.5	605.5	45.04	14.443	
10,450.0	10,158.5	10,128.1	10,111.2	36.7	10.0	86.04	396.5	-292.0	662.2	617.3	44.97	14.726	
10,470.4	10,159.0	10,127.3	10,110.4	36.8	10.0	84.60	396.5	-292.0	672.2	627.3	44.91	14.967	
10,500.0	10,159.1	10,125.6	10,108.6	36.8	10.0	84.46	396.5	-292.2	687.3	642.4	44.83	15.329	
10,600.0	10,159.5	10,119.7	10,102.8	36.9	10.0	84.03	396.8	-292.6	742.8	698.2	44.60	16.655	
10,700.0	10,159.8	10,114.1	10,097.2	37.1	10.0	83.66	397.0	-293.1	804.4	760.0	44.43	18.106	
10,800.0	10,160.2	10,108.7	10,091.8	37.3	10.0	83.37	397.2	-293.5	870.6	826.3	44.30	19.651	
10,900.0	10,160.5	10,103.6	10,086.7	37.5	10.0	83.13	397.4	-293.9	940.4	896.1	44.22	21.264	
11,000.0	10,160.9	10,098.6	10,081.8	37.7	10.0	82.96	397.5	-294.3	1,013.0	968.8	44.18	22.927	
11,100.0	10,161.2	10,094.0	10,077.1	37.9	10.0	82.85	397.7	-294.7	1,087.7	1,043.5	44.17	24.626	
11,200.0	10,161.6	10,089.5	10,072.7	38.2	10.0	82.79	397.9	-295.0	1,164.1	1,119.9	44.18	26.351	
11,300.0	10,162.0	11,731.1	10,090.5	38.4	12.6	132.02	1,307.3	-235.8	1,228.9	1,176.4	52.53	23.394	
11,400.0	10,162.3	11,830.9	10,090.4	38.7	13.1	131.76	1,407.1	-237.3	1,233.1	1,179.9	53.20	23.177	
11,500.0	10,162.7	11,930.9	10,090.3	38.9	13.6	131.63	1,507.1	-238.7	1,234.7	1,180.8	53.92	22.901	
11,524.2	10,162.8	11,955.1	10,090.3	39.0	13.8	131.62	1,531.3	-239.1	1,234.8	1,180.7	54.09	22.826	
11,600.0	10,163.0	12,030.9	10,090.2	39.2	14.2	131.61	1,607.1	-240.2	1,234.5	1,179.9	54.67	22.582	
11,700.0	10,163.4	12,130.9	10,090.1	39.5	14.8	131.59	1,707.1	-241.6	1,234.2	1,178.8	55.46	22.253	
11,800.0	10,163.8	12,230.9	10,090.0	39.8	15.4	131.57	1,807.1	-243.0	1,233.9	1,177.6	56.30	21.918	
11,900.0	10,164.1	12,330.9	10,089.9	40.1	16.1	131.56	1,907.0	-244.5	1,233.6	1,176.4	57.17	21.578	
12,000.0	10,164.5	12,430.9	10,089.8	40.5	16.8	131.54	2,007.0	-245.9	1,233.3	1,175.2	58.08	21.235	
12,100.0	10,164.8	12,530.9	10,089.6	40.8	17.5	131.52	2,107.0	-247.4	1,233.0	1,174.0	59.02	20.890	
12,200.0	10,165.2	12,630.9	10,089.5	41.2	18.2	131.51	2,207.0	-248.8	1,232.7	1,172.7	60.00	20.545	
12,300.0	10,165.6	12,730.9	10,089.4	41.6	18.9	131.49	2,307.0	-250.3	1,232.4	1,171.4	61.01	20.201	
12,400.0	10,165.9	12,830.9	10,089.3	42.0	19.7	131.47	2,407.0	-251.7	1,232.1	1,170.1	62.04	19.859	
12,500.0	10,166.3	12,930.9	10,089.2	42.4	20.4	131.46	2,507.0	-253.1	1,231.8	1,168.7	63.11	19.520	
12,600.0	10,166.6	13,030.9	10,089.1	42.8	21.2	131.44	2,607.0	-254.6	1,231.5	1,167.3	64.19	19.184	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design ADMIRAL FEDERAL PROJECT (ATLAS 2529) - ADMIRAL FEDERAL #805H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10515-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,700.0	10,167.0	13,130.9	10,989.0	43.3	21.9	131.42	2,707.0	-256.0	1,231.2	1,165.9	65.31	18.852		
12,800.0	10,167.4	13,230.9	10,988.9	43.7	22.7	131.41	2,806.9	-257.5	1,230.9	1,164.4	66.45	18.525		
12,900.0	10,167.7	13,330.9	10,988.8	44.2	23.5	131.39	2,906.9	-258.9	1,230.6	1,163.0	67.60	18.203		
13,000.0	10,168.1	13,430.9	10,988.6	44.7	24.3	131.37	3,006.9	-260.4	1,230.3	1,161.5	68.78	17.886		
13,100.0	10,168.4	13,530.9	10,988.5	45.1	25.0	131.36	3,106.9	-261.8	1,230.0	1,160.0	69.98	17.576		
13,200.0	10,168.8	13,630.8	10,988.4	45.6	25.8	131.34	3,206.9	-263.2	1,229.7	1,158.5	71.20	17.271		
13,300.0	10,169.2	13,730.8	10,988.3	46.2	26.6	131.32	3,306.9	-264.7	1,229.4	1,156.9	72.43	16.972		
13,400.0	10,169.5	13,830.8	10,988.2	46.7	27.4	131.31	3,406.9	-266.1	1,229.1	1,155.4	73.69	16.680		
13,500.0	10,169.9	13,930.8	10,988.1	47.2	28.2	131.29	3,506.9	-267.6	1,228.8	1,153.8	74.95	16.394		
13,600.0	10,170.2	14,030.8	10,988.0	47.7	29.1	131.27	3,606.8	-269.0	1,228.5	1,152.2	76.23	16.114		
13,700.0	10,170.6	14,130.8	10,987.9	48.3	29.9	131.25	3,706.8	-270.5	1,228.2	1,150.6	77.53	15.841		
13,800.0	10,170.9	14,230.8	10,987.7	48.9	30.7	131.24	3,806.8	-271.9	1,227.9	1,149.0	78.84	15.574		
13,900.0	10,171.3	14,330.8	10,987.6	49.4	31.5	131.22	3,906.8	-273.3	1,227.6	1,147.4	80.16	15.314		
14,000.0	10,171.7	14,430.8	10,987.5	50.0	32.3	131.20	4,006.8	-274.8	1,227.3	1,145.8	81.50	15.059		
14,100.0	10,172.0	14,530.8	10,987.4	50.6	33.1	131.19	4,106.8	-276.2	1,227.0	1,144.1	82.84	14.811		
14,200.0	10,172.4	14,630.8	10,987.3	51.2	34.0	131.17	4,206.8	-277.7	1,226.7	1,142.5	84.20	14.569		
14,300.0	10,172.7	14,730.8	10,987.2	51.8	34.8	131.15	4,306.8	-279.1	1,226.4	1,140.8	85.57	14.332		
14,400.0	10,173.1	14,830.8	10,987.1	52.4	35.6	131.14	4,406.8	-280.6	1,226.1	1,139.1	86.94	14.102		
14,500.0	10,173.5	14,930.8	10,987.0	53.0	36.5	131.12	4,506.7	-282.0	1,225.8	1,137.4	88.33	13.877		
14,600.0	10,173.8	15,030.8	10,986.8	53.6	37.3	131.10	4,606.7	-283.4	1,225.5	1,135.7	89.73	13.658		
14,700.0	10,174.2	15,130.8	10,986.7	54.2	38.1	131.08	4,706.7	-284.9	1,225.2	1,134.0	91.13	13.444		
14,800.0	10,174.5	15,230.8	10,986.6	54.9	39.0	131.07	4,806.7	-286.3	1,224.9	1,132.3	92.54	13.236		
14,900.0	10,174.9	15,330.8	10,986.5	55.5	39.8	131.05	4,906.7	-287.8	1,224.6	1,130.6	93.96	13.033		
15,000.0	10,175.3	15,430.8	10,986.4	56.2	40.6	131.03	5,006.7	-289.2	1,224.3	1,128.9	95.39	12.834		
15,096.7	10,175.6	15,524.0	10,986.3	56.8	41.4	131.02	5,099.8	-290.5	1,224.0	1,127.3	96.73	12.653		
15,100.0	10,175.6	15,526.5	10,986.3	56.8	41.4	131.02	5,102.3	-290.6	1,224.0	1,127.2	96.77	12.649		
15,135.1	10,175.7	15,553.6	10,986.3	57.0	41.7	131.01	5,129.4	-290.7	1,223.9	1,126.8	97.17	12.596		
15,200.0	10,176.0	15,618.4	10,986.2	57.5	42.2	131.00	5,194.3	-290.8	1,223.8	1,125.6	98.10	12.474		
15,300.0	10,176.3	15,718.4	10,986.1	58.1	43.0	130.98	5,294.3	-290.9	1,223.5	1,123.9	99.55	12.290		
15,400.0	10,176.7	15,818.4	10,986.0	58.8	43.9	130.96	5,394.3	-291.0	1,223.2	1,122.1	101.01	12.110		
15,500.0	10,177.1	15,918.4	10,985.9	59.5	44.7	130.95	5,494.3	-291.1	1,222.9	1,120.4	102.47	11.934		
15,600.0	10,177.4	16,018.4	10,985.8	60.1	45.5	130.93	5,594.3	-291.2	1,222.6	1,118.6	103.93	11.763		
15,700.0	10,177.8	16,118.4	10,985.7	60.8	46.4	130.91	5,694.3	-291.3	1,222.3	1,116.8	105.40	11.596		
15,800.0	10,178.1	16,218.4	10,985.6	61.5	47.2	130.90	5,794.3	-291.4	1,222.0	1,115.1	106.88	11.433		
15,900.0	10,178.5	16,318.4	10,985.5	62.2	48.1	130.88	5,894.3	-291.5	1,221.7	1,113.3	108.36	11.274		
16,000.0	10,178.9	16,418.4	10,985.4	62.9	48.9	130.86	5,994.3	-291.6	1,221.4	1,111.5	109.85	11.119		
16,100.0	10,179.2	16,518.4	10,985.3	63.6	49.8	130.85	6,094.3	-291.7	1,221.1	1,109.7	111.34	10.967		
16,200.0	10,179.6	16,618.4	10,985.2	64.3	50.6	130.83	6,194.3	-291.8	1,220.8	1,107.9	112.83	10.819		
16,300.0	10,179.9	16,718.4	10,985.0	65.0	51.4	130.81	6,294.2	-291.9	1,220.5	1,106.1	114.33	10.674		
16,400.0	10,180.3	16,818.4	10,984.9	65.7	52.3	130.80	6,394.2	-292.0	1,220.2	1,104.3	115.84	10.533		
16,500.0	10,180.7	16,918.4	10,984.8	66.4	53.1	130.78	6,494.2	-292.2	1,219.9	1,102.5	117.35	10.395		
16,600.0	10,181.0	17,018.4	10,984.7	67.1	54.0	130.76	6,594.2	-292.3	1,219.6	1,100.7	118.86	10.260		
16,700.0	10,181.4	17,118.4	10,984.6	67.8	54.8	130.75	6,694.2	-292.4	1,219.3	1,098.9	120.38	10.129		
16,800.0	10,181.7	17,218.4	10,984.5	68.5	55.7	130.73	6,794.2	-292.5	1,219.0	1,097.1	121.90	10.000		
16,900.0	10,182.1	17,318.4	10,984.4	69.3	56.5	130.71	6,894.2	-292.6	1,218.7	1,095.2	123.42	9.874		
17,000.0	10,182.5	17,418.4	10,984.3	70.0	57.4	130.70	6,994.2	-292.7	1,218.4	1,093.4	124.95	9.751		
17,100.0	10,182.8	17,518.4	10,984.2	70.7	58.2	130.68	7,094.2	-292.8	1,218.1	1,091.6	126.48	9.631		
17,200.0	10,183.2	17,618.4	10,984.1	71.5	59.1	130.66	7,194.2	-292.9	1,217.8	1,089.8	128.01	9.513		
17,300.0	10,183.5	17,718.4	10,984.0	72.2	59.9	130.65	7,294.2	-293.0	1,217.5	1,087.9	129.55	9.398		
17,400.0	10,183.9	17,818.4	10,983.9	72.9	60.8	130.63	7,394.2	-293.1	1,217.2	1,086.1	131.09	9.285		
17,500.0	10,184.3	17,918.4	10,983.8	73.7	61.6	130.61	7,494.2	-293.2	1,216.9	1,084.2	132.63	9.175		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design ADMIRAL FEDERAL PROJECT (ATLAS 2529) - ADMIRAL FEDERAL #805H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10515-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance										Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
17,600.0	10,184.6	18,018.4	10,983.7	74.4	62.5	130.60	7,594.2	-293.3	1,216.6	1,082.4	134.17	9.067		
17,700.0	10,185.0	18,118.4	10,983.6	75.2	63.3	130.58	7,694.2	-293.4	1,216.3	1,080.6	135.72	8.961		
17,800.0	10,185.3	18,218.4	10,983.5	75.9	64.2	130.56	7,794.2	-293.5	1,216.0	1,078.7	137.27	8.858		
17,900.0	10,185.7	18,318.4	10,983.4	76.7	65.0	130.55	7,894.2	-293.6	1,215.7	1,076.9	138.83	8.757		
18,000.0	10,186.1	18,418.4	10,983.3	77.4	65.9	130.53	7,994.2	-293.8	1,215.4	1,075.0	140.38	8.658		
18,100.0	10,186.4	18,518.4	10,983.2	78.2	66.7	130.51	8,094.2	-293.9	1,215.1	1,073.1	141.94	8.561		
18,200.0	10,186.8	18,618.4	10,983.1	78.9	67.6	130.50	8,194.2	-294.0	1,214.8	1,071.3	143.50	8.465		
18,300.0	10,187.2	18,718.4	10,983.0	79.7	68.4	130.48	8,294.2	-294.1	1,214.5	1,069.4	145.06	8.372		
18,400.0	10,187.5	18,818.4	10,982.9	80.5	69.3	130.46	8,394.2	-294.2	1,214.2	1,067.6	146.63	8.281		
18,500.0	10,187.9	18,918.4	10,982.8	81.2	70.1	130.45	8,494.2	-294.3	1,213.9	1,065.7	148.19	8.191		
18,600.0	10,188.2	19,018.4	10,982.7	82.0	71.0	130.43	8,594.2	-294.4	1,213.6	1,063.8	149.76	8.104		
18,700.0	10,188.6	19,118.4	10,982.6	82.8	71.8	130.41	8,694.2	-294.5	1,213.3	1,062.0	151.33	8.017		
18,800.0	10,189.0	19,218.4	10,982.5	83.5	72.7	130.39	8,794.2	-294.6	1,213.0	1,060.1	152.91	7.933		
18,900.0	10,189.3	19,318.4	10,982.3	84.3	73.5	130.38	8,894.2	-294.7	1,212.7	1,058.2	154.48	7.850		
19,000.0	10,189.7	19,418.4	10,982.2	85.1	74.4	130.36	8,994.2	-294.8	1,212.4	1,056.4	156.06	7.769		
19,100.0	10,190.0	19,518.4	10,982.1	85.8	75.3	130.34	9,094.2	-294.9	1,212.1	1,054.5	157.63	7.689		
19,200.0	10,190.4	19,618.4	10,982.0	86.6	76.1	130.33	9,194.2	-295.0	1,211.8	1,052.6	159.21	7.611		
19,300.0	10,190.8	19,718.4	10,981.9	87.4	77.0	130.31	9,294.2	-295.1	1,211.5	1,050.7	160.80	7.535		
19,400.0	10,191.1	19,818.4	10,981.8	88.2	77.8	130.29	9,394.2	-295.2	1,211.2	1,048.9	162.38	7.459		
19,500.0	10,191.5	19,918.4	10,981.7	89.0	78.7	130.28	9,494.2	-295.4	1,210.9	1,047.0	163.96	7.385		
19,600.0	10,191.8	20,018.4	10,981.6	89.7	79.5	130.26	9,594.2	-295.5	1,210.6	1,045.1	165.55	7.313		
19,700.0	10,192.2	20,118.4	10,981.5	90.5	80.4	130.24	9,694.2	-295.6	1,210.3	1,043.2	167.14	7.242		
19,800.0	10,192.6	20,218.4	10,981.4	91.3	81.2	130.23	9,794.2	-295.7	1,210.1	1,041.3	168.73	7.172		
19,900.0	10,192.9	20,318.4	10,981.3	92.1	82.1	130.21	9,894.2	-295.8	1,209.8	1,039.4	170.32	7.103		
20,000.0	10,193.3	20,418.4	10,981.2	92.9	82.9	130.19	9,994.2	-295.9	1,209.5	1,037.6	171.91	7.035		
20,100.0	10,193.6	20,518.4	10,981.1	93.7	83.8	130.17	10,094.2	-296.0	1,209.2	1,035.7	173.50	6.969		
20,198.4	10,194.0	20,616.8	10,981.0	94.4	84.6	130.16	10,192.6	-296.1	1,208.9	1,033.8	175.07	6.905 SF		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design ADMIRAL FEDERAL PROJECT (ATLAS 2529) - ADMIRAL FEDERAL #806H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	7.7	7.7	3.0	3.0	-50.32	562.0	-677.4	880.2				
100.0	100.0	107.7	107.7	3.0	3.0	-50.32	562.0	-677.4	880.2	874.2	6.01	146.516	
200.0	200.0	207.7	207.7	3.0	3.0	-50.32	562.0	-677.4	880.2	874.1	6.09	144.646	
300.0	300.0	307.7	307.7	3.1	3.1	-50.32	562.0	-677.4	880.2	873.9	6.24	140.951	
400.0	400.0	407.7	407.7	3.2	3.2	-50.32	562.0	-677.4	880.2	873.7	6.48	135.831	
500.0	500.0	507.7	507.7	3.4	3.4	-50.32	562.0	-677.4	880.2	873.4	6.78	129.757	
600.0	600.0	607.7	607.7	3.6	3.6	-50.32	562.0	-677.4	880.2	873.0	7.15	123.172	
700.0	700.0	707.7	707.7	3.8	3.8	-50.32	562.0	-677.4	880.2	872.6	7.56	116.436	
800.0	800.0	807.7	807.7	4.0	4.0	-50.32	562.0	-677.4	880.2	872.2	8.02	109.808	
900.0	900.0	907.7	907.7	4.2	4.3	-50.32	562.0	-677.4	880.2	871.7	8.51	103.454	
1,000.0	1,000.0	1,007.7	1,007.7	4.5	4.5	-50.32	562.0	-677.4	880.2	871.1	9.03	97.468	
1,100.0	1,100.0	1,107.7	1,107.7	4.8	4.8	-50.32	562.0	-677.4	880.2	870.6	9.58	91.895	
1,200.0	1,200.0	1,207.7	1,207.7	5.1	5.1	-50.32	562.0	-677.4	880.2	870.0	10.15	86.744	
1,300.0	1,300.0	1,307.7	1,307.7	5.4	5.4	-50.32	562.0	-677.4	880.2	869.4	10.73	82.004	
1,400.0	1,400.0	1,407.7	1,407.7	5.7	5.7	-50.32	562.0	-677.4	880.2	868.8	11.33	77.652	
1,500.0	1,500.0	1,507.7	1,507.7	6.0	6.0	-50.32	562.0	-677.4	880.2	868.2	11.95	73.660	
1,600.0	1,600.0	1,607.7	1,607.7	6.3	6.3	-50.32	562.0	-677.4	880.2	867.6	12.57	69.998	
1,700.0	1,700.0	1,707.7	1,707.7	6.6	6.6	-50.32	562.0	-677.4	880.2	867.0	13.21	66.635	
1,800.0	1,800.0	1,807.7	1,807.7	6.9	6.9	-50.32	562.0	-677.4	880.2	866.3	13.85	63.544	
1,900.0	1,900.0	1,907.7	1,907.7	7.2	7.3	-50.32	562.0	-677.4	880.2	865.7	14.50	60.698	
2,000.0	2,000.0	2,007.7	2,007.7	7.6	7.6	-50.32	562.0	-677.4	880.2	865.0	15.16	58.072	
2,100.0	2,100.0	2,107.7	2,107.7	7.9	7.9	-50.32	562.0	-677.4	880.2	864.4	15.82	55.646	
2,200.0	2,200.0	2,207.7	2,207.7	8.2	8.3	-50.32	562.0	-677.4	880.2	863.7	16.48	53.399	
2,300.0	2,300.0	2,307.7	2,307.7	8.6	8.6	-50.32	562.0	-677.4	880.2	863.0	17.15	51.314	
2,400.0	2,400.0	2,407.7	2,407.7	8.9	8.9	-50.32	562.0	-677.4	880.2	862.4	17.83	49.375	
2,500.0	2,500.0	2,507.6	2,507.6	9.2	9.3	-50.32	562.0	-677.4	880.2	861.7	18.50	47.573	
2,514.3	2,514.3	2,521.8	2,521.8	9.3	9.3	34.68	561.9	-677.5	880.2	861.6	18.59	47.333	
2,600.0	2,600.0	2,606.9	2,606.8	9.6	9.6	34.63	560.5	-678.7	878.8	859.6	19.15	45.879	
2,700.0	2,699.8	2,705.9	2,705.7	9.9	9.9	34.52	556.4	-682.3	874.6	854.8	19.79	44.196	
2,800.0	2,799.5	2,805.3	2,804.8	10.2	10.2	34.38	550.3	-687.6	867.7	847.3	20.43	42.468	
2,900.0	2,898.9	2,904.9	2,904.1	10.6	10.5	34.21	544.0	-693.1	859.3	838.2	21.08	40.768	
3,000.0	2,998.4	3,004.5	3,003.3	10.9	10.8	34.04	537.6	-698.6	851.0	829.2	21.73	39.161	
3,100.0	3,097.8	3,104.2	3,102.6	11.2	11.2	33.87	531.3	-704.2	842.6	820.2	22.39	37.639	
3,200.0	3,197.3	3,203.8	3,201.8	11.6	11.5	33.69	525.0	-709.7	834.3	811.2	23.05	36.198	
3,300.0	3,296.7	3,303.4	3,301.1	11.9	11.8	33.51	518.7	-715.2	825.9	802.2	23.71	34.831	
3,400.0	3,396.2	3,403.0	3,400.4	12.3	12.1	33.32	512.3	-720.7	817.6	793.2	24.38	33.535	
3,500.0	3,495.6	3,502.6	3,499.6	12.6	12.5	33.13	506.0	-726.2	809.3	784.2	25.05	32.303	
3,600.0	3,595.1	3,602.2	3,598.9	12.9	12.8	32.94	499.7	-731.7	801.0	775.2	25.73	31.132	
3,700.0	3,694.5	3,701.9	3,698.2	13.3	13.1	32.74	493.4	-737.2	792.7	766.3	26.41	30.018	
3,800.0	3,794.0	3,801.5	3,797.4	13.6	13.5	32.54	487.1	-742.8	784.4	757.3	27.09	28.957	
3,900.0	3,893.4	3,901.1	3,896.7	14.0	13.8	32.33	480.7	-748.3	776.1	748.3	27.77	27.947	
4,000.0	3,992.9	4,000.7	3,996.0	14.3	14.2	32.12	474.4	-753.8	767.8	739.4	28.46	26.982	
4,100.0	4,092.3	4,100.3	4,095.2	14.7	14.5	31.91	468.1	-759.3	759.6	730.4	29.14	26.062	
4,200.0	4,191.8	4,199.9	4,194.5	15.0	14.8	31.69	461.8	-764.8	751.3	721.5	29.83	25.183	
4,300.0	4,291.2	4,299.6	4,293.7	15.4	15.2	31.47	455.4	-770.3	743.1	712.6	30.53	24.342	
4,400.0	4,390.7	4,399.2	4,393.0	15.7	15.5	31.24	449.1	-775.8	734.9	703.6	31.22	23.538	
4,500.0	4,490.1	4,498.8	4,492.3	16.1	15.9	31.00	442.8	-781.3	726.6	694.7	31.92	22.768	
4,600.0	4,589.6	4,598.4	4,591.5	16.4	16.2	30.76	436.5	-786.9	718.4	685.8	32.61	22.030	
4,700.0	4,689.0	4,698.0	4,690.8	16.8	16.6	30.52	430.1	-792.4	710.3	676.9	33.31	21.322	
4,800.0	4,788.5	4,797.7	4,790.1	17.1	16.9	30.27	423.8	-797.9	702.1	668.1	34.01	20.643	
4,900.0	4,887.9	4,897.3	4,889.3	17.5	17.3	30.01	417.5	-803.4	693.9	659.2	34.71	19.991	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design ADMIRAL FEDERAL PROJECT (ATLAS 2529) - ADMIRAL FEDERAL #806H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,987.4	4,996.9	4,988.6	17.9	17.6	29.75	29.75	411.2	-808.9	685.8	650.4	35.41	19.365	
5,100.0	5,086.9	5,096.5	5,087.9	18.2	18.0	29.48	29.48	404.9	-814.4	677.6	641.5	36.12	18.763	
5,200.0	5,186.3	5,196.1	5,187.1	18.6	18.3	29.20	29.20	398.5	-819.9	669.5	632.7	36.82	18.183	
5,300.0	5,285.8	5,295.7	5,286.4	18.9	18.7	28.92	28.92	392.2	-825.5	661.4	623.9	37.53	17.626	
5,400.0	5,385.2	5,395.4	5,385.6	19.3	19.0	28.63	28.63	385.9	-831.0	653.3	615.1	38.23	17.089	
5,500.0	5,484.7	5,495.0	5,484.9	19.6	19.4	28.33	28.33	379.6	-836.5	645.3	606.3	38.94	16.571	
5,600.0	5,584.1	5,594.6	5,584.2	20.0	19.7	28.03	28.03	373.2	-842.0	637.2	597.6	39.65	16.072	
5,700.0	5,683.6	5,694.2	5,683.4	20.4	20.1	27.71	27.71	366.9	-847.5	629.2	588.8	40.35	15.591	
5,800.0	5,783.0	5,793.8	5,782.7	20.7	20.4	27.39	27.39	360.6	-853.0	621.2	580.1	41.06	15.127	
5,900.0	5,882.5	5,893.4	5,882.0	21.1	20.8	27.06	27.06	354.3	-858.5	613.2	571.4	41.77	14.678	
6,000.0	5,981.9	5,993.1	5,981.2	21.4	21.1	26.73	26.73	348.0	-864.1	605.2	562.7	42.48	14.245	
6,100.0	6,081.4	6,092.7	6,080.5	21.8	21.5	26.38	26.38	341.6	-869.6	597.2	554.0	43.20	13.826	
6,200.0	6,180.8	6,192.3	6,179.8	22.1	21.8	26.03	26.03	335.3	-875.1	589.3	545.4	43.91	13.422	
6,300.0	6,280.3	6,291.9	6,279.0	22.5	22.2	25.66	25.66	329.0	-880.6	581.4	536.8	44.62	13.030	
6,400.0	6,379.7	6,391.5	6,378.3	22.9	22.5	25.28	25.28	322.7	-886.1	573.5	528.2	45.33	12.651	
6,500.0	6,479.2	6,491.1	6,477.5	23.2	22.9	24.90	24.90	316.3	-891.6	565.7	519.6	46.05	12.285	
6,600.0	6,578.6	6,590.8	6,576.8	23.6	23.2	24.50	24.50	310.0	-897.1	557.8	511.1	46.76	11.930	
6,700.0	6,678.1	6,690.4	6,676.1	23.9	23.6	24.09	24.09	303.7	-902.6	550.0	502.6	47.48	11.586	
6,800.0	6,777.5	6,790.0	6,775.3	24.3	24.0	23.67	23.67	297.4	-908.2	542.3	494.1	48.19	11.252	
6,900.0	6,877.0	6,889.6	6,874.6	24.7	24.3	23.24	23.24	291.0	-913.7	534.5	485.6	48.91	10.930	
7,000.0	6,976.4	6,989.2	6,973.9	25.0	24.7	22.80	22.80	284.7	-919.2	526.8	477.2	49.62	10.616	
7,100.0	7,075.9	7,088.9	7,073.1	25.4	25.0	22.34	22.34	278.4	-924.7	519.1	468.8	50.34	10.313	
7,200.0	7,175.3	7,188.5	7,172.4	25.8	25.4	21.87	21.87	272.1	-930.2	511.5	460.4	51.05	10.018	
7,300.0	7,274.8	7,288.1	7,271.7	26.1	25.7	21.38	21.38	265.8	-935.7	503.9	452.1	51.77	9.733	
7,400.0	7,374.3	7,387.7	7,370.9	26.5	26.1	20.88	20.88	259.4	-941.2	496.3	443.8	52.49	9.455	
7,500.0	7,473.7	7,487.3	7,470.2	26.8	26.4	20.37	20.37	253.1	-946.8	488.8	435.5	53.20	9.186	
7,600.0	7,573.2	7,586.9	7,569.4	27.2	26.8	19.84	19.84	246.8	-952.3	481.3	427.3	53.92	8.925	
7,700.0	7,672.6	7,686.6	7,668.7	27.6	27.2	19.29	19.29	240.5	-957.8	473.8	419.2	54.64	8.671	
7,800.0	7,772.1	7,786.2	7,768.0	27.9	27.5	18.72	18.72	234.1	-963.3	466.4	411.0	55.36	8.425	
7,900.0	7,871.5	7,885.8	7,867.2	28.3	27.9	18.14	18.14	227.8	-968.8	459.0	403.0	56.08	8.186	
8,000.0	7,971.0	7,985.4	7,966.5	28.6	28.2	17.53	17.53	221.5	-974.3	451.7	394.9	56.79	7.954	
8,100.0	8,070.4	8,085.0	8,065.8	29.0	28.6	16.91	16.91	215.2	-979.8	444.5	387.0	57.51	7.728	
8,200.0	8,169.9	8,184.6	8,165.0	29.4	29.0	16.27	16.27	208.8	-985.3	437.3	379.0	58.23	7.509	
8,300.0	8,269.3	8,284.3	8,264.3	29.7	29.3	15.60	15.60	202.5	-990.9	430.1	371.2	58.95	7.296	
8,400.0	8,368.8	8,383.9	8,363.6	30.1	29.7	14.92	14.92	196.2	-996.4	423.0	363.3	59.67	7.089	
8,500.0	8,468.2	8,483.5	8,462.8	30.5	30.0	14.21	14.21	189.9	-1,001.9	416.0	355.6	60.39	6.889	
8,600.0	8,567.7	8,583.1	8,562.1	30.8	30.4	13.47	13.47	183.6	-1,007.4	409.0	347.9	61.11	6.694	
8,700.0	8,667.1	8,682.7	8,661.3	31.2	30.7	12.71	12.71	177.2	-1,012.9	402.1	340.3	61.83	6.504	
8,800.0	8,766.6	8,782.3	8,760.6	31.6	31.1	11.93	11.93	170.9	-1,018.4	395.3	332.8	62.54	6.321	
8,900.0	8,866.0	8,882.0	8,859.9	31.9	31.5	11.11	11.11	164.6	-1,023.9	388.6	325.3	63.26	6.142	
9,000.0	8,965.5	8,981.6	8,959.1	32.3	31.8	10.27	10.27	158.3	-1,029.5	381.9	317.9	63.98	5.969	
9,100.0	9,064.9	9,081.2	9,058.4	32.6	32.2	9.40	9.40	151.9	-1,035.0	375.3	310.6	64.70	5.801	
9,200.0	9,164.4	9,180.8	9,157.7	33.0	32.5	8.50	8.50	145.6	-1,040.5	368.9	303.4	65.42	5.638	
9,300.0	9,263.8	9,280.4	9,256.9	33.4	32.9	7.56	7.56	139.3	-1,046.0	362.5	296.3	66.14	5.480	
9,400.0	9,363.3	9,380.1	9,356.2	33.7	33.3	6.59	6.59	133.0	-1,051.5	356.2	289.3	66.86	5.327	
9,500.0	9,462.7	9,479.7	9,455.4	34.1	33.6	5.59	5.59	126.7	-1,057.0	350.0	282.4	67.58	5.179	
9,600.0	9,562.2	9,579.3	9,554.7	34.5	34.0	4.56	4.56	120.3	-1,062.5	343.9	275.6	68.30	5.036	
9,700.0	9,661.7	9,678.9	9,654.0	34.8	34.3	3.48	3.48	114.0	-1,068.1	338.0	268.9	69.01	4.897	
9,744.7	9,706.1	9,723.4	9,698.3	35.0	34.5	2.99	2.99	111.2	-1,070.5	335.3	266.0	69.33	4.836	
9,750.0	9,711.4	9,728.7	9,703.6	35.0	34.5	-2.26	-2.26	110.8	-1,070.8	335.0	265.6	69.37	4.829	
9,775.0	9,736.2	9,753.5	9,728.3	35.1	34.6	-20.67	-20.67	109.3	-1,072.2	333.1	263.5	69.55	4.789	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design ADMIRAL FEDERAL PROJECT (ATLAS 2529) - ADMIRAL FEDERAL #806H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.0	9,760.8	9,778.1	9,752.8	35.2	34.7	-31.85	107.7	-1,073.5	330.6	260.9	69.73	4.741		
9,825.0	9,785.3	9,802.5	9,777.1	35.3	34.8	-39.32	106.2	-1,074.9	327.5	257.6	69.90	4.685		
9,850.0	9,809.4	9,826.5	9,801.0	35.4	34.9	-44.90	104.6	-1,076.2	323.9	253.9	70.08	4.623		
9,875.0	9,833.3	9,850.1	9,824.6	35.5	35.0	-49.49	103.1	-1,077.5	319.9	249.7	70.24	4.555		
9,900.0	9,856.7	9,873.3	9,847.7	35.6	35.0	-53.55	101.7	-1,078.8	315.6	245.2	70.41	4.482		
9,925.0	9,879.6	9,895.9	9,870.2	35.6	35.1	-57.34	100.2	-1,080.1	311.0	240.5	70.57	4.408		
9,950.0	9,902.0	9,918.0	9,892.2	35.7	35.2	-60.99	98.8	-1,081.3	306.4	235.6	70.72	4.332		
9,975.0	9,923.8	9,939.4	9,913.5	35.8	35.3	-64.56	97.5	-1,082.5	301.7	230.9	70.87	4.257		
10,000.0	9,944.9	9,960.1	9,934.2	35.9	35.4	-68.09	96.2	-1,083.6	297.3	226.3	71.02	4.186		
10,025.0	9,965.4	9,980.1	9,954.1	36.0	35.4	-71.57	94.9	-1,084.7	293.3	222.1	71.16	4.121		
10,050.0	9,985.0	9,999.2	9,973.1	36.0	35.5	-74.98	93.7	-1,085.8	289.8	218.5	71.29	4.065		
10,075.0	10,003.8	10,017.5	9,991.3	36.1	35.6	-78.27	92.5	-1,086.8	287.1	215.6	71.42	4.019		
10,100.0	10,021.8	10,034.8	10,008.6	36.2	35.6	-81.39	91.4	-1,087.8	285.3	213.8	71.54	3.988		
10,124.0	10,038.2	10,050.6	10,024.3	36.2	35.7	-84.20	90.4	-1,088.6	284.7	213.1	71.65	3.974 CC		
10,125.0	10,038.8	10,051.2	10,024.9	36.2	35.7	-84.31	90.4	-1,088.7	284.7	213.1	71.66	3.973 ES, SF		
10,150.0	10,054.9	10,066.6	10,040.3	36.3	35.7	-86.96	89.4	-1,089.5	285.5	213.7	71.77	3.978		
10,175.0	10,069.9	10,080.9	10,054.5	36.3	35.8	-89.31	88.5	-1,090.3	287.7	215.8	71.88	4.003		
10,200.0	10,083.9	10,094.1	10,067.7	36.4	35.8	-91.31	87.6	-1,091.0	291.6	219.6	71.98	4.051		
10,225.0	10,096.7	10,106.2	10,079.8	36.4	35.9	-92.93	86.9	-1,091.7	297.1	225.0	72.08	4.122		
10,250.0	10,108.5	10,117.2	10,090.7	36.4	35.9	-94.14	86.2	-1,092.3	304.4	232.2	72.17	4.217		
10,275.0	10,119.1	10,126.9	10,100.4	36.5	36.0	-94.91	85.6	-1,092.8	313.3	241.1	72.25	4.336		
10,300.0	10,128.5	10,135.4	10,108.9	36.5	36.0	-95.22	85.0	-1,093.3	323.9	251.6	72.33	4.478		
10,325.0	10,136.6	10,142.7	10,116.2	36.5	36.0	-95.05	84.6	-1,093.7	336.1	263.7	72.40	4.642		
10,350.0	10,143.5	10,148.8	10,122.2	36.6	36.0	-94.37	84.2	-1,094.1	349.7	277.2	72.45	4.826		
10,375.0	10,149.2	10,153.5	10,126.9	36.6	36.1	-93.16	83.9	-1,094.3	364.6	292.0	72.50	5.028		
10,400.0	10,153.6	10,157.0	10,130.4	36.7	36.1	-91.40	83.7	-1,094.5	380.6	308.1	72.54	5.247		
10,425.0	10,156.7	10,159.1	10,132.5	36.7	36.1	-89.08	83.5	-1,094.6	397.7	325.1	72.57	5.480		
10,450.0	10,158.5	10,160.0	10,133.4	36.7	36.1	-86.18	83.5	-1,094.7	415.6	343.0	72.60	5.725		
10,470.4	10,159.0	10,159.7	10,133.1	36.8	36.1	-83.40	83.5	-1,094.7	430.8	358.2	72.61	5.934		
10,500.0	10,159.1	10,158.7	10,132.1	36.8	36.1	-83.11	83.6	-1,094.6	453.6	381.0	72.62	6.247		
10,600.0	10,159.5	10,155.0	10,128.4	36.9	36.1	-81.95	83.8	-1,094.4	536.9	464.2	72.66	7.389		
10,700.0	10,159.8	10,151.1	10,124.5	37.1	36.1	-80.47	84.0	-1,094.2	626.5	553.8	72.68	8.620		
10,800.0	10,160.2	10,146.9	10,120.3	37.3	36.0	-78.50	84.3	-1,094.0	720.0	647.3	72.69	9.904		
10,900.0	10,160.5	11,639.2	10,976.4	37.5	39.3	-175.26	899.1	-1,154.1	811.1	767.8	43.31	18.731		
11,000.0	10,160.9	11,737.2	10,976.3	37.7	39.5	-176.61	997.1	-1,155.5	809.2	765.3	43.82	18.466		
11,100.0	10,161.2	11,835.8	10,976.1	37.9	39.6	-177.74	1,095.7	-1,156.9	807.8	763.4	44.43	18.181		
11,200.0	10,161.6	11,935.0	10,976.0	38.2	39.8	-178.64	1,194.8	-1,158.4	806.9	761.8	45.11	17.886		
11,300.0	10,162.0	12,034.5	10,975.8	38.4	40.0	-179.31	1,294.3	-1,159.8	806.2	760.4	45.84	17.588		
11,400.0	10,162.3	12,134.3	10,975.7	38.7	40.2	-179.74	1,394.1	-1,161.2	805.6	759.1	46.59	17.294		
11,500.0	10,162.7	12,234.3	10,975.5	38.9	40.4	-179.92	1,494.1	-1,162.7	805.1	757.8	47.34	17.006		
11,524.2	10,162.8	12,258.5	10,975.5	39.0	40.5	-179.93	1,518.3	-1,163.0	805.0	757.5	47.53	16.938		
11,600.0	10,163.0	12,334.3	10,975.4	39.2	40.7	-179.93	1,594.1	-1,164.1	804.6	756.5	48.11	16.723		
11,700.0	10,163.4	12,434.3	10,975.2	39.5	40.9	-179.93	1,694.0	-1,165.6	804.1	755.2	48.92	16.437		
11,800.0	10,163.8	12,534.3	10,975.1	39.8	41.2	-179.93	1,794.0	-1,167.0	803.6	753.8	49.76	16.148		
11,900.0	10,164.1	12,634.3	10,974.9	40.1	41.5	-179.93	1,894.0	-1,168.4	803.1	752.4	50.64	15.858		
12,000.0	10,164.5	12,734.3	10,974.7	40.5	41.8	-179.93	1,994.0	-1,169.9	802.6	751.0	51.55	15.567		
12,100.0	10,164.8	12,834.3	10,974.6	40.8	42.1	-179.93	2,094.0	-1,171.3	802.0	749.6	52.50	15.278		
12,200.0	10,165.2	12,934.3	10,974.4	41.2	42.5	-179.94	2,194.0	-1,172.8	801.5	748.1	53.47	14.991		
12,300.0	10,165.6	13,034.3	10,974.3	41.6	42.8	-179.94	2,294.0	-1,174.2	801.0	746.6	54.47	14.706		
12,400.0	10,165.9	13,134.3	10,974.1	42.0	43.2	-179.94	2,394.0	-1,175.6	800.5	745.0	55.49	14.425		
12,500.0	10,166.3	13,234.3	10,974.0	42.4	43.6	-179.94	2,494.0	-1,177.1	800.0	743.5	56.54	14.148		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design ADMIRAL FEDERAL PROJECT (ATLAS 2529) - ADMIRAL FEDERAL #806H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,600.0	10,166.6	13,334.3	10,973.8	42.8	44.0	-179.94		2,593.9	-1,178.5	799.5	741.9	57.62	13.876	
12,700.0	10,167.0	13,434.3	10,973.7	43.3	44.4	-179.94		2,693.9	-1,180.0	799.0	740.3	58.71	13.608	
12,800.0	10,167.4	13,534.3	10,973.5	43.7	44.8	-179.94		2,793.9	-1,181.4	798.5	738.6	59.83	13.345	
12,900.0	10,167.7	13,634.3	10,973.4	44.2	45.2	-179.94		2,893.9	-1,182.8	797.9	737.0	60.97	13.088	
13,000.0	10,168.1	13,734.3	10,973.2	44.7	45.7	-179.94		2,993.9	-1,184.3	797.4	735.3	62.13	12.836	
13,100.0	10,168.4	13,834.3	10,973.1	45.1	46.1	-179.95		3,093.9	-1,185.7	796.9	733.6	63.30	12.590	
13,200.0	10,168.8	13,934.3	10,972.9	45.6	46.6	-179.95		3,193.9	-1,187.2	796.4	731.9	64.49	12.349	
13,300.0	10,169.2	14,034.3	10,972.7	46.2	47.1	-179.95		3,293.9	-1,188.6	795.9	730.2	65.70	12.115	
13,400.0	10,169.5	14,134.3	10,972.6	46.7	47.6	-179.95		3,393.8	-1,190.0	795.4	728.5	66.92	11.886	
13,500.0	10,169.9	14,234.3	10,972.4	47.2	48.1	-179.95		3,493.8	-1,191.5	794.9	726.7	68.16	11.663	
13,600.0	10,170.2	14,334.3	10,972.3	47.7	48.6	-179.95		3,593.8	-1,192.9	794.4	725.0	69.40	11.445	
13,700.0	10,170.6	14,434.3	10,972.1	48.3	49.1	-179.95		3,693.8	-1,194.4	793.9	723.2	70.67	11.234	
13,800.0	10,170.9	14,534.3	10,972.0	48.9	49.6	-179.95		3,793.8	-1,195.8	793.3	721.4	71.94	11.028	
13,900.0	10,171.3	14,634.3	10,971.8	49.4	50.2	-179.95		3,893.8	-1,197.2	792.8	719.6	73.23	10.827	
14,000.0	10,171.7	14,734.3	10,971.7	50.0	50.7	-179.96		3,993.8	-1,198.7	792.3	717.8	74.52	10.632	
14,100.0	10,172.0	14,834.3	10,971.5	50.6	51.3	-179.96		4,093.8	-1,200.1	791.8	716.0	75.83	10.442	
14,200.0	10,172.4	14,934.3	10,971.4	51.2	51.8	-179.96		4,193.8	-1,201.6	791.3	714.1	77.15	10.257	
14,300.0	10,172.7	15,034.3	10,971.2	51.8	52.4	-179.96		4,293.7	-1,203.0	790.8	712.3	78.47	10.077	
14,400.0	10,173.1	15,134.3	10,971.1	52.4	53.0	-179.96		4,393.7	-1,204.4	790.3	710.5	79.81	9.902	
14,500.0	10,173.5	15,234.2	10,970.9	53.0	53.6	-179.96		4,493.7	-1,205.9	789.8	708.6	81.15	9.732	
14,600.0	10,173.8	15,334.2	10,970.8	53.6	54.2	-179.96		4,593.7	-1,207.3	789.2	706.7	82.50	9.566	
14,700.0	10,174.2	15,434.2	10,970.6	54.2	54.8	-179.96		4,693.7	-1,208.8	788.7	704.9	83.86	9.405	
14,800.0	10,174.5	15,534.2	10,970.4	54.9	55.4	-179.96		4,793.7	-1,210.2	788.2	703.0	85.23	9.248	
14,900.0	10,174.9	15,634.2	10,970.3	55.5	56.0	-179.96		4,893.7	-1,211.6	787.7	701.1	86.60	9.096	
15,000.0	10,175.3	15,734.2	10,970.1	56.2	56.6	-179.97		4,993.7	-1,213.1	787.2	699.2	87.98	8.947	
15,096.7	10,175.6	15,830.9	10,970.0	56.8	57.2	-179.97		5,090.3	-1,214.5	786.7	697.4	89.32	8.808	
15,100.0	10,175.6	15,834.2	10,970.0	56.8	57.3	-179.97		5,093.7	-1,214.5	786.7	697.3	89.36	8.803	
15,135.1	10,175.7	15,869.4	10,969.9	57.0	57.5	-179.97		5,128.8	-1,214.7	786.5	696.6	89.85	8.753	
15,200.0	10,176.0	15,934.3	10,969.8	57.5	57.9	-179.97		5,193.7	-1,214.8	786.2	695.4	90.76	8.662	
15,300.0	10,176.3	16,034.3	10,969.7	58.1	58.5	-179.97		5,293.7	-1,214.9	785.6	693.5	92.16	8.525	
15,400.0	10,176.7	16,134.3	10,969.5	58.8	59.2	-179.97		5,393.7	-1,215.0	785.1	691.6	93.56	8.392	
15,500.0	10,177.1	16,234.3	10,969.4	59.5	59.8	-179.97		5,493.7	-1,215.1	784.6	689.6	94.97	8.262	
15,600.0	10,177.4	16,334.3	10,969.2	60.1	60.5	-179.97		5,593.7	-1,215.2	784.1	687.7	96.38	8.135	
15,700.0	10,177.8	16,434.3	10,969.0	60.8	61.1	-179.97		5,693.7	-1,215.3	783.6	685.8	97.80	8.012	
15,800.0	10,178.1	16,534.3	10,968.9	61.5	61.8	-179.97		5,793.7	-1,215.4	783.1	683.8	99.22	7.892	
15,900.0	10,178.5	16,634.3	10,968.7	62.2	62.5	-179.98		5,893.7	-1,215.5	782.5	681.9	100.65	7.775	
16,000.0	10,178.9	16,734.3	10,968.6	62.9	63.2	-179.98		5,993.7	-1,215.6	782.0	679.9	102.08	7.661	
16,100.0	10,179.2	16,834.3	10,968.4	63.6	63.8	-179.98		6,093.7	-1,215.7	781.5	678.0	103.51	7.550	
16,200.0	10,179.6	16,934.3	10,968.3	64.3	64.5	-179.98		6,193.7	-1,215.8	781.0	676.0	104.95	7.441	
16,300.0	10,179.9	17,034.3	10,968.1	65.0	65.2	-179.98		6,293.7	-1,215.9	780.5	674.1	106.39	7.336	
16,400.0	10,180.3	17,134.3	10,968.0	65.7	65.9	-179.98		6,393.7	-1,216.0	780.0	672.1	107.84	7.233	
16,500.0	10,180.7	17,234.3	10,967.8	66.4	66.6	-179.98		6,493.7	-1,216.1	779.4	670.1	109.29	7.132	
16,600.0	10,181.0	17,334.3	10,967.6	67.1	67.3	-179.98		6,593.7	-1,216.2	778.9	668.2	110.74	7.034	
16,700.0	10,181.4	17,434.3	10,967.5	67.8	68.0	-179.98		6,693.7	-1,216.3	778.4	666.2	112.20	6.938	
16,800.0	10,181.7	17,534.3	10,967.3	68.5	68.7	-179.98		6,793.7	-1,216.4	777.9	664.2	113.66	6.844	
16,900.0	10,182.1	17,634.2	10,967.2	69.3	69.4	-179.98		6,893.7	-1,216.5	777.4	662.2	115.12	6.753	
17,000.0	10,182.5	17,734.2	10,967.0	70.0	70.1	-179.98		6,993.6	-1,216.7	776.8	660.3	116.58	6.664	
17,100.0	10,182.8	17,834.2	10,966.9	70.7	70.9	-179.98		7,093.6	-1,216.8	776.3	658.3	118.05	6.576	
17,200.0	10,183.2	17,934.2	10,966.7	71.5	71.6	-179.98		7,193.6	-1,216.9	775.8	656.3	119.52	6.491	
17,300.0	10,183.5	18,034.2	10,966.5	72.2	72.3	-179.98		7,293.6	-1,217.0	775.3	654.3	120.99	6.408	
17,400.0	10,183.9	18,134.2	10,966.4	72.9	73.0	-179.98		7,393.6	-1,217.1	774.8	652.3	122.47	6.326	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design		ADMIRAL FEDERAL PROJECT (ATLAS 2529) - ADMIRAL FEDERAL #806H - OWB - PWP1										Offset Site Error:		0.0 usft			
Survey Program: 0-MWD+IFR1+FDIR														Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
17,500.0	10,184.3	18,234.2	10,966.2	73.7	73.8	-179.98	7,493.6	-1,217.2	774.3	650.3	123.94	6.247					
17,600.0	10,184.6	18,334.2	10,966.1	74.4	74.5	-179.98	7,593.6	-1,217.3	773.7	648.3	125.42	6.169					
17,700.0	10,185.0	18,434.2	10,965.9	75.2	75.2	-179.99	7,693.6	-1,217.4	773.2	646.3	126.90	6.093					
17,800.0	10,185.3	18,534.2	10,965.8	75.9	76.0	-179.99	7,793.6	-1,217.5	772.7	644.3	128.39	6.019					
17,900.0	10,185.7	18,634.2	10,965.6	76.7	76.7	-179.99	7,893.6	-1,217.6	772.2	642.3	129.87	5.946					
18,000.0	10,186.1	18,734.2	10,965.4	77.4	77.4	-179.99	7,993.6	-1,217.7	771.7	640.3	131.36	5.874					
18,100.0	10,186.4	18,834.2	10,965.3	78.2	78.2	-179.99	8,093.6	-1,217.8	771.2	638.3	132.85	5.805					
18,200.0	10,186.8	18,934.2	10,965.1	78.9	78.9	-179.99	8,193.6	-1,217.9	770.6	636.3	134.34	5.736					
18,300.0	10,187.2	19,034.2	10,965.0	79.7	79.7	-179.99	8,293.6	-1,218.0	770.1	634.3	135.84	5.670					
18,400.0	10,187.5	19,134.2	10,964.8	80.5	80.4	-179.99	8,393.6	-1,218.1	769.6	632.3	137.33	5.604					
18,500.0	10,187.9	19,234.2	10,964.7	81.2	81.2	-179.99	8,493.6	-1,218.2	769.1	630.3	138.83	5.540					
18,600.0	10,188.2	19,334.2	10,964.5	82.0	82.0	-179.99	8,593.6	-1,218.3	768.6	628.2	140.32	5.477					
18,700.0	10,188.6	19,434.2	10,964.3	82.8	82.7	-179.99	8,693.6	-1,218.4	768.1	626.2	141.82	5.416					
18,800.0	10,189.0	19,534.2	10,964.2	83.5	83.5	-179.99	8,793.6	-1,218.5	767.5	624.2	143.33	5.355					
18,900.0	10,189.3	19,634.2	10,964.0	84.3	84.2	-179.99	8,893.6	-1,218.6	767.0	622.2	144.83	5.296					
19,000.0	10,189.7	19,734.2	10,963.9	85.1	85.0	-179.99	8,993.6	-1,218.7	766.5	620.2	146.33	5.238					
19,100.0	10,190.0	19,834.2	10,963.7	85.8	85.8	-179.99	9,093.6	-1,218.9	766.0	618.1	147.84	5.181					
19,200.0	10,190.4	19,934.2	10,963.6	86.6	86.5	-179.99	9,193.6	-1,219.0	765.5	616.1	149.34	5.126					
19,300.0	10,190.8	20,034.2	10,963.4	87.4	87.3	-179.99	9,293.6	-1,219.1	764.9	614.1	150.85	5.071					
19,400.0	10,191.1	20,134.2	10,963.2	88.2	88.1	-180.00	9,393.6	-1,219.2	764.4	612.1	152.36	5.017					
19,500.0	10,191.5	20,234.2	10,963.1	89.0	88.9	-180.00	9,493.6	-1,219.3	763.9	610.0	153.87	4.965					
19,600.0	10,191.8	20,334.2	10,962.9	89.7	89.6	-180.00	9,593.6	-1,219.4	763.4	608.0	155.38	4.913					
19,700.0	10,192.2	20,434.2	10,962.8	90.5	90.4	-180.00	9,693.6	-1,219.5	762.9	606.0	156.90	4.862					
19,800.0	10,192.6	20,534.2	10,962.6	91.3	91.2	-180.00	9,793.6	-1,219.6	762.4	604.0	158.41	4.813					
19,900.0	10,192.9	20,634.2	10,962.5	92.1	92.0	-180.00	9,893.6	-1,219.7	761.8	601.9	159.92	4.764					
20,000.0	10,193.3	20,734.2	10,962.3	92.9	92.7	-180.00	9,993.6	-1,219.8	761.3	599.9	161.44	4.716					
20,100.0	10,193.6	20,834.2	10,962.2	93.7	93.5	-180.00	10,093.6	-1,219.9	760.8	597.9	162.96	4.669					
20,198.4	10,194.0	20,931.4	10,962.0	94.4	94.3	180.00	10,190.8	-1,220.0	760.3	595.9	164.43	4.624					

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

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COMPASS 5000.15 Build 91E

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 7829-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference				Offset				Semi Major Axis				Distance	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-90.24	-2.5	-590.0	590.0				
100.0	100.0	95.9	95.9	3.0	3.0	-90.21	-2.2	-590.2	590.3	584.3	6.00	98.324	
200.0	200.0	196.1	196.1	3.0	3.0	-90.14	-1.4	-590.7	590.8	584.7	6.04	97.762	
300.0	300.0	296.8	296.8	3.1	3.0	-90.03	-0.4	-591.1	591.1	585.0	6.13	96.506	
400.0	400.0	394.0	393.9	3.2	3.0	-89.93	0.7	-591.6	591.7	585.4	6.25	94.691	
500.0	500.0	493.6	493.6	3.4	3.1	-89.86	1.5	-592.6	592.6	586.2	6.41	92.437	
600.0	600.0	596.1	596.1	3.6	3.1	-89.83	1.7	-593.3	593.3	586.7	6.61	89.759	
700.0	700.0	694.9	694.9	3.8	3.1	-89.85	1.5	-593.9	593.9	587.1	6.84	86.843	
800.0	800.0	794.3	794.3	4.0	3.1	-89.93	0.7	-594.6	594.6	587.5	7.09	83.877	
900.0	900.0	892.1	892.0	4.2	3.1	-90.03	-0.3	-595.5	595.6	588.2	7.36	80.927	
1,000.0	1,000.0	987.1	987.0	4.5	3.1	-90.16	-1.7	-597.0	597.1	589.5	7.65	78.077	
1,100.0	1,100.0	1,086.4	1,086.3	4.8	3.2	-90.33	-3.4	-599.1	599.2	591.3	7.96	75.323	
1,200.0	1,200.0	1,198.1	1,197.9	5.1	3.2	-90.41	-4.3	-599.9	599.9	591.7	8.28	72.475	
1,300.0	1,300.0	1,296.8	1,296.7	5.4	3.2	-90.47	-4.9	-600.1	600.1	591.5	8.59	69.819	
1,400.0	1,400.0	1,393.4	1,393.3	5.7	3.3	-90.54	-5.7	-600.6	600.6	591.7	8.93	67.263	
1,500.0	1,500.0	1,485.5	1,485.3	6.0	3.3	-90.59	-6.2	-602.1	602.3	593.0	9.28	64.892	
1,600.0	1,600.0	1,583.9	1,583.7	6.3	3.4	-90.65	-6.9	-604.5	604.7	595.1	9.65	62.681	
1,700.0	1,700.0	1,681.0	1,680.8	6.6	3.4	-90.73	-7.7	-607.2	607.6	597.5	10.02	60.626	
1,800.0	1,800.0	1,785.9	1,785.6	6.9	3.5	-90.79	-8.4	-610.3	610.5	600.0	10.41	58.646	
1,900.0	1,900.0	1,894.9	1,894.6	7.2	3.6	-90.54	-5.7	-611.6	611.6	600.8	10.78	56.723	
2,000.0	2,000.0	1,995.2	1,994.8	7.6	3.6	-90.21	-2.3	-612.2	612.2	601.1	11.14	54.942	
2,100.0	2,100.0	2,097.8	2,097.4	7.9	3.6	-89.97	0.3	-612.8	612.8	601.3	11.51	53.218	
2,200.0	2,200.0	2,198.1	2,197.7	8.2	3.7	-90.04	-0.4	-612.9	613.0	601.1	11.89	51.557	
2,300.0	2,300.0	2,313.2	2,312.8	8.6	3.7	-90.12	-1.3	-612.2	612.4	600.1	12.24	50.049	
2,400.0	2,400.0	2,425.0	2,424.5	8.9	3.7	-90.21	-2.3	-608.3	608.8	596.2	12.56	48.484	
2,500.0	2,500.0	2,511.4	2,510.9	9.2	3.7	-90.44	-4.6	-605.6	605.7	592.8	12.91	46.935	
2,600.0	2,600.0	2,622.6	2,621.8	9.6	3.7	-6.00	-10.2	-602.4	601.2	588.0	13.25	45.368	
2,700.0	2,699.8	2,719.2	2,718.3	9.9	3.7	-6.46	-14.2	-599.2	592.7	579.1	13.59	43.602	
2,800.0	2,799.5	2,823.5	2,822.5	10.2	3.8	-6.95	-17.7	-595.2	580.3	566.4	13.93	41.654	
2,900.0	2,898.9	2,921.9	2,920.7	10.6	3.8	-7.41	-20.8	-591.0	565.9	551.7	14.28	39.643	
3,000.0	2,998.4	3,016.0	3,014.7	10.9	3.8	-7.89	-23.9	-587.5	552.0	537.4	14.63	37.741	
3,100.0	3,097.8	3,104.9	3,103.5	11.2	3.8	-8.36	-26.9	-584.8	538.9	523.9	14.99	35.960	
3,200.0	3,197.3	3,187.8	3,186.4	11.6	3.9	-8.65	-28.4	-585.3	529.1	513.8	15.36	34.437	
3,300.0	3,296.7	3,266.9	3,265.4	11.9	4.0	-9.01	-30.7	-588.3	522.8	507.0	15.74	33.206	
3,400.0	3,396.2	3,347.2	3,345.4	12.3	4.0	-9.45	-33.7	-594.0	519.8	503.7	16.12	32.257	
3,500.0	3,495.6	3,443.5	3,441.2	12.6	4.1	-9.94	-37.2	-603.3	519.5	503.0	16.52	31.447	
3,502.9	3,498.5	3,446.2	3,443.9	12.6	4.1	-9.95	-37.3	-603.6	519.5	503.0	16.53	31.425 CC	
3,600.0	3,595.1	3,538.9	3,536.0	12.9	4.2	-10.33	-39.9	-613.3	519.9	503.0	16.92	30.719	
3,700.0	3,694.5	3,625.0	3,621.5	13.3	4.2	-10.58	-41.6	-624.1	522.2	504.9	17.31	30.175	
3,800.0	3,794.0	3,700.0	3,695.4	13.6	4.3	-10.72	-42.7	-636.7	528.8	511.1	17.64	29.972	
3,900.0	3,893.4	3,812.6	3,806.2	14.0	4.4	-10.92	-44.4	-656.7	536.4	518.3	18.11	29.615	
4,000.0	3,992.9	3,921.2	3,913.6	14.3	4.4	-11.22	-46.7	-672.5	540.9	522.3	18.57	29.126	
4,100.0	4,092.3	4,021.9	4,013.2	14.7	4.5	-11.53	-49.2	-686.8	545.1	526.1	19.00	28.681	
4,200.0	4,191.8	4,124.4	4,114.7	15.0	4.6	-11.90	-52.2	-701.0	548.9	529.4	19.45	28.222	
4,300.0	4,291.2	4,215.7	4,205.1	15.4	4.7	-12.27	-55.4	-713.6	552.9	533.0	19.86	27.838	
4,400.0	4,390.7	4,308.7	4,296.8	15.7	4.8	-12.69	-59.3	-728.4	559.1	538.8	20.28	27.569	
4,500.0	4,490.1	4,416.6	4,403.3	16.1	4.9	-13.20	-64.1	-744.9	564.7	543.9	20.75	27.212	
4,600.0	4,589.6	4,515.8	4,501.4	16.4	5.0	-13.69	-68.7	-759.5	569.8	548.6	21.20	26.885	
4,700.0	4,689.0	4,625.2	4,609.5	16.8	5.1	-14.30	-74.5	-774.5	574.1	552.4	21.67	26.486	
4,800.0	4,788.5	4,731.9	4,715.3	17.1	5.2	-14.95	-80.5	-787.5	576.9	554.7	22.15	26.050	
4,900.0	4,887.9	4,810.1	4,792.7	17.5	5.3	-15.40	-84.7	-797.6	580.7	558.2	22.53	25.775	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 7829-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,987.4	4,901.2	4,882.4	17.9	5.4	-15.82	-89.3	-812.8	588.0	565.1	22.95	25.619	
5,100.0	5,086.9	5,002.6	4,982.2	18.2	5.5	-16.27	-94.3	-829.7	595.4	572.0	23.41	25.427	
5,200.0	5,186.3	5,114.5	5,092.7	18.6	5.6	-16.77	-99.8	-847.0	601.5	577.5	23.92	25.148	
5,300.0	5,285.8	5,227.4	5,204.5	18.9	5.7	-17.33	-105.6	-862.0	605.6	581.1	24.42	24.800	
5,400.0	5,385.2	5,336.3	5,312.5	19.3	5.8	-17.90	-111.0	-874.6	608.0	583.1	24.90	24.411	
5,500.0	5,484.7	5,439.5	5,414.9	19.6	5.9	-18.48	-116.4	-885.5	609.5	584.1	25.38	24.019	
5,600.0	5,584.1	5,544.0	5,518.8	20.0	6.0	-19.07	-121.8	-895.6	610.2	584.4	25.85	23.605	
5,700.0	5,683.6	5,641.3	5,615.5	20.4	6.1	-19.54	-126.1	-905.5	611.4	585.1	26.31	23.235	
5,800.0	5,783.0	5,734.6	5,708.2	20.7	6.3	-20.00	-130.2	-915.1	612.7	585.9	26.76	22.892	
5,900.0	5,882.5	5,827.1	5,799.9	21.1	6.4	-20.38	-134.2	-926.6	615.9	588.7	27.21	22.636	
6,000.0	5,981.9	5,931.6	5,903.5	21.4	6.5	-20.85	-138.9	-939.1	618.9	591.3	27.69	22.351	
6,100.0	6,081.4	6,025.0	5,996.2	21.8	6.6	-21.29	-143.3	-950.0	621.8	593.6	28.14	22.094	
6,200.0	6,180.8	6,118.0	6,088.2	22.1	6.7	-21.56	-146.6	-963.1	626.5	597.9	28.59	21.912	
6,300.0	6,280.3	6,228.9	6,198.1	22.5	6.8	-21.91	-150.5	-977.8	630.6	601.5	29.10	21.672	
6,400.0	6,379.7	6,341.4	6,309.8	22.9	6.9	-22.37	-155.0	-990.4	632.7	603.1	29.60	21.374	
6,500.0	6,479.2	6,431.1	6,398.8	23.2	7.0	-22.75	-158.7	-1,000.0	634.6	604.6	30.05	21.120	
6,600.0	6,578.6	6,539.4	6,506.4	23.6	7.2	-23.18	-163.2	-1,012.4	637.2	606.6	30.55	20.860	
6,700.0	6,678.1	6,625.0	6,591.4	23.9	7.3	-23.50	-166.4	-1,022.0	639.6	608.6	30.98	20.645	
6,800.0	6,777.5	6,701.7	6,667.2	24.3	7.3	-23.67	-168.8	-1,033.2	644.9	613.5	31.37	20.555	
6,900.0	6,877.0	6,799.3	6,763.3	24.7	7.5	-23.65	-170.1	-1,050.5	652.5	620.7	31.84	20.497	
7,000.0	6,976.4	6,945.0	6,907.3	25.0	7.6	-23.54	-169.7	-1,072.4	657.4	624.9	32.44	20.261	
7,100.0	7,075.9	7,058.1	7,019.7	25.4	7.7	-23.43	-167.2	-1,083.5	656.3	623.3	32.94	19.925	
7,200.0	7,175.3	7,153.0	7,114.1	25.8	7.8	-23.30	-164.7	-1,093.2	655.5	622.1	33.39	19.631	
7,246.0	7,221.1	7,196.2	7,157.1	25.9	7.9	-23.29	-164.1	-1,097.7	655.5	621.9	33.60	19.507	
7,300.0	7,274.8	7,244.4	7,205.0	26.1	7.9	-23.32	-164.0	-1,102.7	655.6	621.8	33.84	19.372	
7,400.0	7,374.3	7,338.5	7,298.5	26.5	8.0	-23.48	-165.4	-1,113.4	657.3	623.0	34.30	19.161	
7,500.0	7,473.7	7,452.5	7,411.8	26.8	8.2	-23.78	-168.2	-1,125.8	658.9	624.1	34.82	18.924	
7,600.0	7,573.2	7,563.7	7,522.6	27.2	8.3	-24.13	-170.6	-1,135.0	657.9	622.6	35.32	18.627	
7,700.0	7,672.6	7,702.1	7,660.8	27.6	8.5	-24.66	-172.6	-1,140.2	652.2	616.3	35.85	18.192	
7,800.0	7,772.1	7,791.5	7,750.2	27.9	8.6	-25.08	-174.1	-1,142.2	645.3	608.9	36.31	17.769	
7,900.0	7,871.5	7,885.0	7,843.6	28.3	8.6	-25.44	-175.1	-1,145.5	639.5	602.8	36.70	17.423	
8,000.0	7,971.0	7,983.3	7,941.9	28.6	8.6	-25.74	-175.6	-1,149.9	634.4	597.4	37.09	17.107	
8,100.0	8,070.4	8,250.1	8,196.8	29.0	8.7	-20.76	-109.3	-1,152.2	619.1	582.1	36.98	16.741	
8,200.0	8,169.9	8,328.9	8,265.3	29.4	8.8	-17.40	-70.8	-1,148.0	590.8	553.3	37.51	15.752	
8,300.0	8,269.3	8,413.0	8,335.2	29.7	8.9	-12.93	-24.0	-1,146.1	566.8	528.8	38.04	14.902	
8,400.0	8,368.8	8,478.0	8,386.3	30.1	9.0	-8.86	16.2	-1,146.3	549.1	510.4	38.63	14.215	
8,500.0	8,468.2	8,546.3	8,437.2	30.5	9.1	-4.10	61.7	-1,148.4	540.2	501.0	39.17	13.789	
8,549.9	8,517.8	8,580.3	8,460.4	30.6	9.1	-1.49	86.5	-1,149.3	538.9	499.5	39.42	13.670 ES	
8,600.0	8,567.7	8,609.2	8,478.6	30.8	9.2	0.87	108.8	-1,149.9	540.3	500.7	39.65	13.629	
8,700.0	8,667.1	8,663.5	8,509.7	31.2	9.3	5.56	153.5	-1,150.6	552.4	512.4	39.98	13.817	
8,800.0	8,766.6	8,700.8	8,529.5	31.6	9.4	8.81	185.0	-1,151.1	577.1	537.1	40.08	14.400	
8,900.0	8,866.0	8,729.1	8,543.8	31.9	9.4	11.27	209.5	-1,152.0	614.5	574.5	39.93	15.388	
9,000.0	8,965.5	8,762.0	8,558.6	32.3	9.5	14.11	238.7	-1,153.8	663.3	623.7	39.65	16.730	
9,100.0	9,064.9	8,762.0	8,558.6	32.6	9.5	14.11	238.7	-1,153.8	721.2	682.1	39.06	18.461	
9,200.0	9,164.4	8,784.6	8,567.5	33.0	9.6	16.05	259.5	-1,155.3	786.7	748.1	38.63	20.365	
9,300.0	9,263.8	8,809.0	8,575.7	33.4	9.6	18.13	282.4	-1,157.0	858.5	820.3	38.25	22.443	
9,400.0	9,363.3	8,809.0	8,575.7	33.7	9.6	18.13	282.4	-1,157.0	934.7	896.9	37.76	24.752	
9,500.0	9,462.7	8,823.2	8,579.9	34.1	9.7	19.33	296.0	-1,157.9	1,014.8	977.3	37.46	27.086	
9,600.0	9,562.2	8,836.1	8,583.4	34.5	9.7	20.39	308.3	-1,158.8	1,097.8	1,060.5	37.24	29.479	
9,700.0	9,661.7	8,857.0	8,588.7	34.8	9.8	22.10	328.5	-1,160.0	1,183.2	1,146.1	37.14	31.854	
9,744.7	9,706.1	8,857.0	8,588.7	35.0	9.8	22.10	328.5	-1,160.0	1,221.9	1,184.8	37.06	32.971	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 7829-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.0	9,711.4	8,857.0	8,588.7	35.0	9.8	17.68	328.5	-1,160.0	1,226.5	1,189.5	37.05	33.105		
9,775.0	9,736.2	8,857.0	8,588.7	35.1	9.8	3.06	328.5	-1,160.0	1,248.0	1,211.0	37.00	33.728		
9,800.0	9,760.8	8,857.0	8,588.7	35.2	9.8	-4.48	328.5	-1,160.0	1,269.1	1,232.2	36.95	34.345		
9,825.0	9,785.3	8,866.0	8,590.8	35.3	9.8	-7.89	337.2	-1,160.4	1,289.7	1,252.7	36.96	34.897		
9,850.0	9,809.4	8,872.7	8,592.4	35.4	9.8	-9.66	343.7	-1,160.7	1,309.8	1,272.8	36.95	35.451		
9,875.0	9,833.3	8,880.0	8,594.1	35.5	9.8	-10.47	350.8	-1,161.1	1,329.3	1,292.3	36.93	35.990		
9,900.0	9,856.7	8,887.8	8,595.8	35.6	9.9	-10.75	358.4	-1,161.4	1,348.1	1,311.2	36.92	36.512		
9,925.0	9,879.6	8,904.0	8,599.3	35.6	9.9	-10.45	374.2	-1,161.9	1,366.4	1,329.4	36.96	36.969		
9,950.0	9,902.0	8,904.0	8,599.3	35.7	9.9	-10.59	374.2	-1,161.9	1,383.8	1,347.0	36.89	37.508		
9,975.0	9,923.8	8,904.0	8,599.3	35.8	9.9	-10.61	374.2	-1,161.9	1,400.7	1,363.8	36.83	38.032		
10,000.0	9,944.9	8,919.0	8,602.3	35.9	10.0	-10.10	388.9	-1,162.3	1,416.7	1,379.8	36.85	38.443		
10,025.0	9,965.4	8,926.6	8,603.8	36.0	10.0	-9.81	396.4	-1,162.5	1,431.9	1,395.1	36.83	38.884		
10,050.0	9,985.0	8,934.5	8,605.3	36.0	10.0	-9.51	404.1	-1,162.7	1,446.4	1,409.6	36.80	39.304		
10,075.0	10,003.8	8,952.0	8,608.4	36.1	10.1	-8.99	421.3	-1,163.0	1,460.1	1,423.2	36.83	39.646		
10,100.0	10,021.8	8,952.0	8,608.4	36.2	10.1	-8.89	421.3	-1,163.0	1,472.8	1,436.0	36.75	40.072		
10,125.0	10,038.8	8,952.0	8,608.4	36.2	10.1	-8.80	421.3	-1,163.0	1,484.7	1,448.0	36.68	40.477		
10,150.0	10,054.9	8,973.9	8,611.9	36.3	10.2	-8.25	442.9	-1,163.3	1,495.6	1,458.9	36.73	40.721		
10,175.0	10,069.9	8,986.0	8,613.8	36.3	10.2	-7.94	454.9	-1,163.5	1,505.6	1,468.8	36.72	41.003		
10,200.0	10,083.9	8,998.3	8,615.6	36.4	10.3	-7.65	467.1	-1,163.6	1,514.5	1,477.8	36.71	41.259		
10,225.0	10,096.7	9,010.8	8,617.3	36.4	10.3	-7.38	479.4	-1,163.6	1,522.5	1,485.8	36.70	41.488		
10,250.0	10,108.5	9,023.5	8,619.1	36.4	10.4	-7.12	492.0	-1,163.6	1,529.5	1,492.8	36.69	41.690		
10,275.0	10,119.1	9,047.0	8,622.0	36.5	10.4	-6.71	515.3	-1,163.6	1,535.5	1,498.8	36.73	41.804		
10,300.0	10,128.5	9,047.0	8,622.0	36.5	10.4	-6.70	515.3	-1,163.6	1,540.4	1,503.7	36.66	42.022		
10,325.0	10,136.6	9,047.0	8,622.0	36.5	10.4	-6.70	515.3	-1,163.6	1,544.3	1,507.8	36.59	42.212		
10,350.0	10,143.5	9,077.4	8,625.5	36.6	10.6	-6.24	545.6	-1,163.4	1,547.0	1,510.3	36.67	42.191		
10,375.0	10,149.2	9,091.5	8,626.9	36.6	10.6	-6.05	559.6	-1,163.2	1,548.6	1,512.0	36.66	42.238		
10,400.0	10,153.6	9,105.7	8,628.3	36.7	10.7	-5.88	573.7	-1,163.1	1,549.2	1,512.6	36.66	42.254		
10,425.0	10,156.7	9,119.9	8,629.6	36.7	10.8	-5.72	587.8	-1,162.8	1,548.7	1,512.1	36.67	42.240		
10,450.0	10,158.5	9,142.0	8,631.5	36.7	10.9	-5.46	609.8	-1,162.5	1,547.2	1,510.5	36.70	42.154		
10,470.4	10,159.0	9,142.0	8,631.5	36.8	10.9	-5.51	609.8	-1,162.5	1,545.1	1,508.4	36.65	42.153		
10,500.0	10,159.1	9,166.0	8,633.3	36.8	11.0	-5.24	633.8	-1,162.0	1,541.6	1,504.9	36.70	42.008		
10,600.0	10,159.5	9,237.0	8,637.9	36.9	11.3	-4.49	704.6	-1,160.4	1,531.6	1,494.8	36.83	41.583		
10,700.0	10,159.8	9,277.8	8,639.5	37.1	11.5	-4.12	745.4	-1,159.4	1,525.0	1,488.0	36.93	41.295		
10,800.0	10,160.2	9,331.0	8,639.7	37.3	11.8	-3.57	798.5	-1,157.9	1,522.5	1,485.3	37.16	40.975		
10,815.8	10,160.2	9,331.0	8,639.7	37.3	11.8	-3.57	798.5	-1,157.9	1,522.4	1,485.2	37.18	40.948		
10,900.0	10,160.5	9,386.0	8,638.3	37.5	12.1	-2.99	853.5	-1,156.2	1,523.4	1,485.9	37.48	40.647		
11,000.0	10,160.9	9,458.9	8,635.4	37.7	12.6	-2.25	926.3	-1,153.7	1,526.7	1,488.8	37.92	40.261		
11,100.0	10,161.2	9,547.8	8,630.7	37.9	13.1	-1.45	1,015.0	-1,150.5	1,531.8	1,493.3	38.46	39.823		
11,200.0	10,161.6	9,665.0	8,625.7	38.2	13.9	-0.53	1,131.9	-1,145.3	1,536.0	1,496.9	39.15	39.233		
11,300.0	10,162.0	9,773.0	8,621.3	38.4	14.6	0.20	1,239.8	-1,139.5	1,540.5	1,500.6	39.88	38.627		
11,400.0	10,162.3	9,969.6	8,621.5	38.7	15.9	1.01	1,436.1	-1,132.9	1,540.5	1,499.4	41.07	37.505		
11,500.0	10,162.7	10,066.5	8,624.4	38.9	16.6	1.16	1,533.0	-1,131.3	1,538.1	1,496.1	41.92	36.692		
11,524.2	10,162.8	10,090.0	8,625.0	39.0	16.8	1.17	1,556.5	-1,131.1	1,537.5	1,495.4	42.13	36.496		
11,600.0	10,163.0	10,149.9	8,626.2	39.2	17.2	1.23	1,616.4	-1,130.6	1,536.3	1,493.6	42.74	35.945		
11,688.1	10,163.4	10,220.4	8,626.9	39.5	17.8	1.28	1,686.9	-1,130.2	1,535.8	1,492.3	43.48	35.321		
11,700.0	10,163.4	10,229.8	8,626.9	39.5	17.8	1.29	1,696.3	-1,130.1	1,535.8	1,492.2	43.58	35.239		
11,800.0	10,163.8	10,310.9	8,626.6	39.8	18.4	1.36	1,777.3	-1,129.2	1,536.6	1,492.2	44.46	34.562		
11,900.0	10,164.1	10,397.3	8,625.3	40.1	19.1	1.44	1,863.8	-1,128.5	1,538.5	1,493.1	45.39	33.893		
12,000.0	10,164.5	10,466.1	8,623.4	40.5	19.6	1.46	1,932.5	-1,128.9	1,541.7	1,495.4	46.28	33.316		
12,100.0	10,164.8	10,662.4	8,619.3	40.8	21.1	1.50	2,128.6	-1,130.5	1,545.3	1,497.5	47.84	32.302		
12,200.0	10,165.2	10,806.1	8,626.4	41.2	22.3	1.29	2,271.9	-1,138.2	1,540.1	1,490.8	49.22	31.290		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design												ADMIRAL FEDERAL PROJECT (ATLAS 2529) - ADMIRAL FEDERAL COM 501H - OWB - AWP		Offset Site Error:		0.0 usft	
Survey Program: 100-Standard Keeper 104, 7829-MWD+IFR1+FDIR														Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis		Distance											
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	Minimum	Separation	Warning					
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor					
12,300.0	10,165.6	10,886.0	8,629.9	41.6	22.9	1.15	2,351.6	-1,143.4	1,536.0	1,485.8	50.25	30.568					
12,400.0	10,165.9	10,952.2	8,631.5	42.0	23.4	1.03	2,417.7	-1,147.5	1,533.7	1,482.5	51.22	29.943					
12,469.2	10,166.2	11,002.4	8,631.9	42.3	23.8	0.94	2,467.8	-1,150.6	1,533.3	1,481.4	51.93	29.525					
12,500.0	10,166.3	11,027.3	8,632.0	42.4	24.0	0.90	2,492.6	-1,152.0	1,533.4	1,481.1	52.27	29.339					
12,600.0	10,166.6	11,108.5	8,631.4	42.8	24.7	0.82	2,573.7	-1,155.4	1,534.4	1,481.1	53.36	28.758					
12,700.0	10,167.0	11,187.9	8,629.9	43.3	25.3	0.77	2,653.0	-1,157.9	1,536.6	1,482.2	54.45	28.221					
12,800.0	10,167.4	11,265.0	8,627.2	43.7	25.9	0.73	2,730.1	-1,160.1	1,540.5	1,485.0	55.54	27.736					
12,900.0	10,167.7	11,419.4	8,623.7	44.2	27.2	0.64	2,884.4	-1,164.5	1,543.0	1,485.9	57.11	27.019					
13,000.0	10,168.1	11,513.6	8,623.3	44.7	28.0	0.57	2,978.5	-1,168.0	1,543.8	1,485.5	58.34	26.462					
13,100.0	10,168.4	11,656.8	8,623.0	45.1	29.2	0.41	3,121.5	-1,174.3	1,544.6	1,484.7	59.88	25.794					
13,169.7	10,168.7	11,703.3	8,623.4	45.5	29.5	0.38	3,168.0	-1,175.8	1,544.3	1,483.6	60.65	25.462					
13,200.0	10,168.8	11,726.9	8,623.4	45.6	29.7	0.38	3,191.6	-1,176.2	1,544.3	1,483.3	61.00	25.316					
13,300.0	10,169.2	11,795.8	8,622.7	46.2	30.3	0.40	3,260.5	-1,176.6	1,545.7	1,483.6	62.11	24.887					
13,400.0	10,169.5	11,881.9	8,620.2	46.7	31.0	0.43	3,346.6	-1,177.1	1,549.0	1,485.6	63.33	24.458					
13,500.0	10,169.9	11,997.4	8,617.2	47.2	32.0	0.31	3,461.9	-1,182.0	1,551.9	1,487.1	64.76	23.963					
13,600.0	10,170.2	12,135.4	8,616.0	47.7	33.1	0.39	3,599.9	-1,181.8	1,553.1	1,486.8	66.31	23.421					
13,602.3	10,170.2	12,138.7	8,616.1	47.8	33.1	0.39	3,603.2	-1,181.8	1,553.1	1,486.8	66.35	23.409					
13,700.0	10,170.6	12,213.0	8,615.2	48.3	33.8	0.45	3,677.5	-1,181.3	1,554.4	1,486.9	67.51	23.024					
13,800.0	10,170.9	12,282.3	8,613.5	48.9	34.3	0.48	3,746.8	-1,181.4	1,557.1	1,488.4	68.67	22.675					
13,900.0	10,171.3	12,380.5	8,610.4	49.4	35.2	0.50	3,844.9	-1,182.2	1,560.6	1,490.6	70.01	22.291					
14,000.0	10,171.7	12,495.6	8,607.4	50.0	36.1	0.63	3,959.9	-1,180.3	1,563.6	1,492.2	71.46	21.881					
14,100.0	10,172.0	12,636.7	8,606.9	50.6	37.3	0.92	4,100.9	-1,174.5	1,564.2	1,491.2	73.06	21.410					
14,164.3	10,172.3	12,698.0	8,607.3	51.0	37.8	1.06	4,162.2	-1,171.5	1,564.2	1,490.2	73.92	21.161					
14,200.0	10,172.4	12,725.4	8,607.3	51.2	38.0	1.13	4,189.5	-1,170.1	1,564.3	1,489.9	74.36	21.038					
14,300.0	10,172.7	12,845.7	8,607.0	51.8	39.0	1.41	4,309.7	-1,164.1	1,565.2	1,489.4	75.84	20.639					
14,400.0	10,173.1	12,962.9	8,609.5	52.4	40.0	1.65	4,426.8	-1,159.3	1,563.5	1,486.2	77.31	20.222					
14,500.0	10,173.5	13,046.7	8,611.0	53.0	40.7	1.78	4,510.5	-1,157.1	1,562.2	1,483.6	78.61	19.871					
14,554.5	10,173.7	13,089.6	8,611.4	53.3	41.1	1.84	4,553.4	-1,156.1	1,561.9	1,482.6	79.31	19.695					
14,600.0	10,173.8	13,124.0	8,611.5	53.6	41.3	1.88	4,587.8	-1,155.4	1,562.1	1,482.2	79.88	19.556					
14,700.0	10,174.2	13,199.8	8,610.7	54.2	42.0	1.98	4,663.6	-1,153.8	1,563.6	1,482.5	81.13	19.273					
14,800.0	10,174.5	13,296.2	8,608.4	54.9	42.8	2.10	4,759.9	-1,151.7	1,566.5	1,483.9	82.51	18.985					
14,900.0	10,174.9	13,440.8	8,607.7	55.5	44.0	2.34	4,904.4	-1,147.3	1,567.4	1,483.2	84.20	18.615					
14,937.5	10,175.0	13,472.9	8,608.0	55.8	44.3	2.39	4,936.5	-1,146.4	1,567.3	1,482.6	84.70	18.504					
15,000.0	10,175.3	13,523.5	8,608.1	56.2	44.7	2.47	4,987.2	-1,145.1	1,567.6	1,482.0	85.52	18.331					
15,096.7	10,175.6	13,691.8	8,611.2	56.8	46.1	2.66	5,155.3	-1,142.3	1,566.3	1,479.0	87.29	17.943					
15,100.0	10,175.6	13,697.1	8,611.4	56.8	46.2	2.66	5,160.6	-1,142.3	1,566.2	1,478.9	87.35	17.930					
15,135.1	10,175.7	13,726.8	8,612.9	57.0	46.4	2.65	5,190.3	-1,142.1	1,564.7	1,476.9	87.83	17.815					
15,200.0	10,176.0	13,790.5	8,615.8	57.5	46.9	2.67	5,253.9	-1,141.7	1,562.0	1,473.2	88.76	17.598					
15,300.0	10,176.3	13,861.7	8,618.0	58.1	47.5	2.69	5,325.1	-1,141.4	1,559.3	1,469.2	90.05	17.315					
15,385.3	10,176.6	13,920.0	8,618.7	58.7	48.0	2.70	5,383.4	-1,141.0	1,558.6	1,467.4	91.13	17.102					
15,400.0	10,176.7	13,920.0	8,618.7	58.8	48.0	2.70	5,383.4	-1,141.0	1,558.6	1,467.4	91.25	17.080					
15,500.0	10,177.1	14,015.0	8,617.9	59.5	48.8	2.72	5,478.4	-1,140.6	1,559.9	1,467.2	92.67	16.832					
15,600.0	10,177.4	14,116.5	8,616.5	60.1	49.7	2.78	5,579.9	-1,139.0	1,561.7	1,467.5	94.13	16.590					
15,700.0	10,177.8	14,205.0	8,615.4	60.8	50.5	2.84	5,668.3	-1,137.5	1,563.4	1,467.8	95.51	16.368					
15,800.0	10,178.1	14,271.9	8,613.7	61.5	51.0	2.86	5,735.2	-1,136.9	1,566.4	1,469.6	96.73	16.193					
15,900.0	10,178.5	14,395.4	8,609.4	62.2	52.1	2.88	5,858.6	-1,136.2	1,570.4	1,472.0	98.37	15.964					
16,000.0	10,178.9	14,534.3	8,609.0	62.9	53.3	2.81	5,997.5	-1,138.4	1,570.6	1,470.5	100.11	15.689					
16,100.0	10,179.2	14,608.7	8,608.7	63.6	53.9	2.75	6,071.9	-1,140.0	1,571.3	1,469.9	101.42	15.493					
16,200.0	10,179.6	14,679.0	8,606.8	64.3	54.5	2.70	6,142.2	-1,141.3	1,574.2	1,471.5	102.69	15.330					
16,300.0	10,179.9	14,816.8	8,602.6	65.0	55.7	2.60	6,279.9	-1,144.0	1,577.9	1,473.5	104.45	15.108					
16,400.0	10,180.3	14,988.3	8,606.4	65.7	57.1	2.42	6,451.2	-1,149.3	1,575.3	1,468.9	106.35	14.813					

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design ADMIRAL FEDERAL PROJECT (ATLAS 2529) - ADMIRAL FEDERAL COM 501H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 7829-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,500.0	10,180.7	15,074.3	8,609.2	66.4	57.9	2.37	6,537.2	-1,150.9	1,572.3	1,464.6	107.77	14.590		
16,600.0	10,181.0	15,158.9	8,611.0	67.1	58.6	2.33	6,621.7	-1,152.2	1,570.5	1,461.3	109.18	14.383		
16,700.0	10,181.4	15,363.9	8,621.8	67.8	60.3	2.23	6,826.4	-1,155.5	1,565.4	1,454.3	111.07	14.093		
16,800.0	10,181.7	15,438.0	8,627.9	68.5	60.9	2.18	6,900.2	-1,157.1	1,557.6	1,445.1	112.51	13.845		
16,900.0	10,182.1	15,533.0	8,634.3	69.3	61.7	2.12	6,995.0	-1,159.1	1,551.2	1,437.2	113.99	13.608		
17,000.0	10,182.5	15,584.7	8,636.6	70.0	62.2	2.08	7,046.6	-1,160.3	1,546.7	1,431.4	115.31	13.413		
17,100.0	10,182.8	15,651.4	8,638.0	70.7	62.7	2.01	7,113.2	-1,162.3	1,544.8	1,428.1	116.65	13.243		
17,173.0	10,183.1	15,709.5	8,638.5	71.3	63.2	1.95	7,171.3	-1,164.1	1,544.4	1,426.8	117.66	13.126		
17,200.0	10,183.2	15,722.0	8,638.5	71.5	63.3	1.93	7,183.8	-1,164.5	1,544.5	1,426.5	117.98	13.092		
17,300.0	10,183.5	15,817.0	8,637.8	72.2	64.2	1.85	7,278.8	-1,167.0	1,545.6	1,426.1	119.45	12.939		
17,400.0	10,183.9	15,880.7	8,636.2	72.9	64.7	1.80	7,342.4	-1,168.2	1,548.2	1,427.5	120.68	12.828		
17,500.0	10,184.3	15,963.7	8,632.8	73.7	65.4	1.75	7,425.4	-1,169.5	1,552.5	1,430.5	122.05	12.721		
17,600.0	10,184.6	16,117.8	8,628.9	74.4	66.7	1.61	7,579.3	-1,173.3	1,555.3	1,431.3	123.99	12.543		
17,700.0	10,185.0	16,246.0	8,628.6	75.2	67.8	1.44	7,707.4	-1,178.0	1,555.8	1,430.1	125.70	12.378		
17,800.0	10,185.3	16,387.7	8,632.8	75.9	69.0	1.24	7,848.9	-1,183.7	1,552.8	1,425.4	127.43	12.186		
17,900.0	10,185.7	16,484.9	8,636.2	76.7	69.9	1.09	7,946.0	-1,188.0	1,549.7	1,420.7	128.95	12.018		
18,000.0	10,186.1	16,578.1	8,639.2	77.4	70.7	0.93	8,039.0	-1,192.4	1,546.7	1,416.2	130.45	11.856		
18,100.0	10,186.4	16,657.0	8,640.9	78.2	71.3	0.79	8,117.8	-1,196.3	1,544.8	1,412.9	131.88	11.714		
18,200.0	10,186.8	16,741.9	8,641.6	78.9	72.1	0.65	8,202.6	-1,200.4	1,544.2	1,410.9	133.33	11.582		
18,300.0	10,187.2	16,853.1	8,642.6	79.7	73.0	0.45	8,313.7	-1,205.7	1,543.6	1,408.7	134.93	11.440		
18,400.0	10,187.5	16,960.1	8,644.5	80.5	73.9	0.24	8,420.5	-1,211.6	1,542.2	1,405.7	136.51	11.297		
18,500.0	10,187.9	17,045.5	8,645.5	81.2	74.7	0.14	8,505.9	-1,214.4	1,541.3	1,403.3	137.96	11.172		
18,600.0	10,188.2	17,167.9	8,647.8	82.0	75.7	0.09	8,628.2	-1,215.7	1,539.8	1,400.2	139.60	11.030		
18,700.0	10,188.6	17,258.4	8,649.8	82.8	76.5	0.07	8,718.7	-1,216.5	1,538.0	1,396.9	141.08	10.901		
18,796.3	10,188.9	17,333.9	8,650.6	83.5	77.1	0.05	8,794.2	-1,217.1	1,537.3	1,394.8	142.43	10.793		
18,800.0	10,189.0	17,336.7	8,650.6	83.5	77.2	0.05	8,797.0	-1,217.2	1,537.3	1,394.8	142.48	10.789		
18,900.0	10,189.3	17,415.0	8,650.1	84.3	77.8	0.04	8,875.3	-1,217.4	1,538.2	1,394.4	143.86	10.693		
19,000.0	10,189.7	17,510.0	8,648.9	85.1	78.6	0.04	8,970.3	-1,217.6	1,539.9	1,394.5	145.35	10.594		
19,100.0	10,190.0	17,605.0	8,647.5	85.8	79.5	0.04	9,065.3	-1,217.6	1,541.7	1,394.9	146.83	10.500		
19,200.0	10,190.4	17,732.9	8,646.6	86.6	80.6	0.02	9,193.2	-1,218.4	1,542.7	1,394.1	148.56	10.385		
19,300.0	10,190.8	17,818.4	8,646.4	87.4	81.3	0.00	9,278.7	-1,218.9	1,543.3	1,393.3	149.99	10.289		
19,400.0	10,191.1	17,888.0	8,645.1	88.2	81.9	0.02	9,348.2	-1,218.6	1,545.6	1,394.3	151.27	10.217		
19,500.0	10,191.5	18,002.5	8,642.2	89.0	82.9	0.06	9,462.8	-1,217.6	1,548.4	1,395.5	152.91	10.126		
19,600.0	10,191.8	18,118.3	8,640.6	89.7	83.9	0.10	9,578.5	-1,216.6	1,550.2	1,395.6	154.56	10.030		
19,700.0	10,192.2	18,220.2	8,640.0	90.5	84.7	0.18	9,680.4	-1,214.6	1,551.2	1,395.1	156.09	9.938		
19,800.0	10,192.6	18,314.5	8,639.0	91.3	85.5	0.26	9,774.6	-1,212.4	1,552.6	1,395.0	157.57	9.853		
19,900.0	10,192.9	18,407.2	8,637.8	92.1	86.3	0.34	9,867.3	-1,210.4	1,554.2	1,395.2	159.03	9.773		
20,000.0	10,193.3	18,496.7	8,636.1	92.9	87.1	0.43	9,956.7	-1,208.0	1,556.6	1,396.1	160.47	9.700		
20,100.0	10,193.6	18,588.3	8,633.8	93.7	87.9	0.53	10,048.3	-1,205.3	1,559.5	1,397.6	161.92	9.631		
20,198.4	10,194.0	18,677.7	8,631.0	94.4	88.7	0.64	10,137.6	-1,202.6	1,562.9	1,399.6	163.33	9.569 SF		

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

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COMPASS 5000.15 Build 91E

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 89-MWD, 679-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-90.25	-2.4	-560.0	560.0				
100.0	100.0	99.6	99.6	3.0	3.0	-90.23	-2.2	-559.9	559.9	553.9	6.01	93.095	
200.0	200.0	199.2	199.2	3.0	3.1	-90.18	-1.8	-559.8	559.8	553.7	6.12	91.491	
300.0	300.0	301.3	301.3	3.1	3.2	-90.20	-2.0	-559.4	559.4	553.1	6.28	89.113	
400.0	400.0	401.2	401.2	3.2	3.3	-90.25	-2.5	-558.9	558.9	552.4	6.51	85.909	
500.0	500.0	501.4	501.4	3.4	3.6	-90.32	-3.2	-558.4	558.4	551.6	6.81	82.064	
600.0	600.0	607.4	607.4	3.6	3.8	-90.42	-4.1	-557.5	557.6	550.4	7.15	77.986	
700.0	700.0	717.0	716.9	3.8	3.9	-90.55	-5.3	-554.5	554.8	547.4	7.44	74.598	
800.0	800.0	818.2	818.1	4.0	3.9	-90.68	-6.5	-551.0	551.4	543.7	7.71	71.480	
900.0	900.0	916.6	916.4	4.2	4.0	-90.89	-8.5	-547.5	547.9	539.8	8.04	68.147	
1,000.0	1,000.0	1,012.1	1,011.8	4.5	4.1	-91.08	-10.2	-544.7	545.0	536.6	8.41	64.810	
1,100.0	1,100.0	1,114.8	1,114.5	4.8	4.2	-91.23	-11.6	-542.1	542.5	533.7	8.83	61.470	
1,200.0	1,200.0	1,212.4	1,212.0	5.1	4.4	-91.36	-12.8	-539.3	539.7	530.4	9.27	58.200	
1,300.0	1,300.0	1,303.8	1,303.5	5.4	4.5	-91.47	-13.8	-537.7	537.9	528.2	9.74	55.233	
1,400.0	1,400.0	1,405.3	1,404.9	5.7	4.7	-91.64	-15.4	-536.7	536.9	526.7	10.25	52.383	
1,500.0	1,500.0	1,510.0	1,509.5	6.0	5.0	-91.95	-18.2	-534.8	535.3	524.5	10.79	49.595	
1,600.0	1,600.0	1,612.1	1,611.6	6.3	5.2	-92.38	-22.1	-532.3	532.9	521.6	11.35	46.944	
1,700.0	1,700.0	1,709.3	1,708.6	6.6	5.5	-92.79	-25.9	-530.0	530.7	518.8	11.92	44.523	
1,800.0	1,800.0	1,803.1	1,802.4	6.9	5.7	-93.25	-30.0	-528.5	529.3	516.8	12.49	42.378	
1,849.3	1,849.3	1,848.6	1,847.8	7.1	5.8	-93.47	-32.1	-528.2	529.2	516.4	12.77	41.425	
1,900.0	1,900.0	1,897.0	1,896.1	7.2	5.9	-93.71	-34.2	-528.2	529.3	516.2	13.07	40.495	
2,000.0	2,000.0	1,997.1	1,996.2	7.6	6.2	-94.19	-38.7	-528.3	529.8	516.1	13.68	38.725	
2,100.0	2,100.0	2,096.3	2,095.3	7.9	6.5	-94.63	-42.8	-528.5	530.2	515.9	14.30	37.088	
2,200.0	2,200.0	2,196.8	2,195.7	8.2	6.8	-95.05	-46.7	-528.9	531.0	516.1	14.93	35.577	
2,300.0	2,300.0	2,311.3	2,310.0	8.6	7.1	-95.57	-51.5	-527.9	530.6	514.9	15.61	33.995	
2,400.0	2,400.0	2,420.9	2,419.4	8.9	7.5	-96.25	-57.3	-523.5	527.1	510.8	16.28	32.377	
2,500.0	2,500.0	2,527.7	2,525.9	9.2	7.8	-96.96	-63.2	-518.0	522.6	505.6	16.95	30.831	
2,600.0	2,600.0	2,641.2	2,638.8	9.6	8.2	-13.03	-71.1	-509.6	514.4	496.8	17.63	29.185	
2,700.0	2,699.8	2,750.0	2,746.8	9.9	8.5	-14.39	-79.5	-498.5	500.4	482.1	18.29	27.365	
2,800.0	2,799.5	2,846.8	2,842.9	10.2	8.8	-15.43	-83.7	-488.4	482.4	463.5	18.93	25.480	
2,900.0	2,898.9	2,939.2	2,934.9	10.6	9.1	-16.20	-85.8	-479.9	463.8	444.2	19.58	23.691	
3,000.0	2,998.4	3,035.2	3,030.5	10.9	9.4	-17.00	-87.6	-471.9	446.0	425.8	20.23	22.052	
3,100.0	3,097.8	3,132.0	3,127.0	11.2	9.7	-17.84	-89.3	-464.3	428.8	407.9	20.88	20.535	
3,200.0	3,197.3	3,230.2	3,224.9	11.6	10.1	-18.69	-90.6	-456.8	411.8	390.3	21.54	19.118	
3,300.0	3,296.7	3,342.0	3,336.3	11.9	10.4	-19.77	-91.9	-447.1	393.9	371.7	22.20	17.747	
3,400.0	3,396.2	3,453.4	3,446.7	12.3	10.8	-21.24	-93.6	-432.4	371.9	349.0	22.83	16.290	
3,500.0	3,495.6	3,548.3	3,540.5	12.6	11.1	-22.77	-95.2	-418.3	348.6	325.1	23.50	14.830	
3,600.0	3,595.1	3,644.3	3,635.5	12.9	11.5	-24.44	-96.6	-404.7	326.0	301.9	24.18	13.484	
3,700.0	3,694.5	3,740.4	3,730.8	13.3	11.8	-26.23	-97.5	-391.4	304.1	279.2	24.86	12.231	
3,800.0	3,794.0	3,832.4	3,822.0	13.6	12.1	-28.00	-97.7	-380.0	283.4	257.9	25.56	11.087	
3,900.0	3,893.4	3,934.5	3,923.3	14.0	12.5	-30.01	-97.1	-368.0	263.3	237.1	26.22	10.042	
4,000.0	3,992.9	4,035.5	4,023.5	14.3	12.8	-32.26	-95.3	-354.7	241.7	214.9	26.87	8.996	
4,100.0	4,092.3	4,132.0	4,119.0	14.7	13.1	-34.72	-93.0	-341.7	220.1	192.5	27.56	7.984	
4,200.0	4,191.8	4,228.6	4,214.9	15.0	13.5	-37.55	-90.4	-329.1	199.1	170.8	28.26	7.046	
4,300.0	4,291.2	4,324.9	4,310.3	15.4	13.8	-40.76	-87.4	-317.3	179.1	150.1	28.96	6.184	
4,400.0	4,390.7	4,421.0	4,405.8	15.7	14.1	-44.37	-84.1	-306.8	160.6	130.9	29.67	5.411	
4,500.0	4,490.1	4,518.8	4,503.0	16.1	14.5	-48.70	-80.4	-296.6	143.1	112.7	30.37	4.713	
4,600.0	4,589.6	4,615.4	4,599.1	16.4	14.8	-53.84	-76.8	-287.4	127.2	96.1	31.09	4.092	
4,700.0	4,689.0	4,714.3	4,697.5	16.8	15.1	-60.05	-73.1	-279.1	113.3	81.5	31.78	3.564	
4,800.0	4,788.5	4,816.7	4,799.0	17.1	15.5	-70.15	-68.0	-265.9	97.9	65.5	32.40	3.021	
4,900.0	4,887.9	4,914.2	4,894.6	17.5	15.8	-86.33	-62.0	-247.8	84.0	50.8	33.16	2.531	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 89-MWD, 679-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,986.8	4,974.2	4,996.0	4,974.6	17.8	16.1	-103.36	-56.7	-232.0	78.8	44.9	33.87	2.327 CC, ES	
5,000.0	4,987.4	5,007.9	4,986.3	17.9	16.2	-105.96	-56.1	-229.6	79.0	45.0	33.96	2.325 SF	
5,100.0	5,086.9	5,097.8	5,074.2	18.2	16.5	-123.94	-55.0	-211.0	89.8	55.3	34.40	2.609	
5,200.0	5,186.3	5,189.9	5,164.1	18.6	16.8	-136.04	-59.3	-191.3	112.9	78.1	34.81	3.243	
5,300.0	5,285.8	5,286.8	5,259.0	18.9	17.2	-143.62	-64.4	-172.5	138.5	103.0	35.50	3.902	
5,400.0	5,385.2	5,380.2	5,350.5	19.3	17.5	-147.60	-72.2	-155.4	166.5	130.4	36.08	4.613	
5,500.0	5,484.7	5,479.6	5,448.0	19.6	17.9	-150.39	-80.8	-138.1	194.5	157.6	36.89	5.271	
5,600.0	5,584.1	5,581.8	5,548.7	20.0	18.3	-152.68	-87.6	-122.3	220.0	182.3	37.74	5.831	
5,700.0	5,683.6	5,678.5	5,644.3	20.4	18.6	-154.36	-93.2	-108.9	244.2	205.8	38.43	6.354	
5,800.0	5,783.0	5,772.8	5,737.3	20.7	18.9	-154.89	-102.6	-96.6	269.7	230.6	39.08	6.902	
5,900.0	5,882.5	5,870.8	5,833.9	21.1	19.3	-154.85	-114.4	-85.1	295.1	255.3	39.80	7.415	
6,000.0	5,981.9	5,970.3	5,932.2	21.4	19.7	-154.88	-125.8	-73.8	320.1	279.5	40.55	7.892	
6,100.0	6,081.4	6,070.2	6,030.9	21.8	20.0	-155.01	-136.2	-63.0	343.9	302.6	41.30	8.327	
6,200.0	6,180.8	6,170.8	6,130.5	22.1	20.4	-155.19	-146.0	-52.5	367.1	325.1	42.06	8.729	
6,300.0	6,280.3	6,273.3	6,232.2	22.5	20.8	-155.44	-154.9	-42.6	389.2	346.3	42.83	9.086	
6,400.0	6,379.7	6,375.5	6,333.6	22.9	21.1	-155.73	-162.7	-33.7	410.0	366.4	43.59	9.405	
6,500.0	6,479.2	6,476.8	6,434.4	23.2	21.5	-156.03	-169.7	-25.4	429.9	385.6	44.34	9.696	
6,600.0	6,578.6	6,582.9	6,540.0	23.6	21.9	-156.36	-176.1	-17.8	448.6	403.5	45.12	9.943	
6,700.0	6,678.1	6,684.7	6,641.5	23.9	22.2	-156.98	-179.4	-10.3	466.1	420.3	45.86	10.165	
6,800.0	6,777.5	6,794.4	6,750.9	24.3	22.6	-157.61	-182.0	-3.6	482.3	435.7	46.65	10.340	
6,900.0	6,877.0	6,911.2	6,867.7	24.7	23.0	-158.16	-183.7	-0.2	495.2	447.8	47.44	10.438	
7,000.0	6,976.4	7,021.2	6,977.6	25.0	23.4	-158.68	-183.7	0.3	505.3	457.1	48.17	10.490	
7,100.0	7,075.9	7,124.9	7,081.4	25.4	23.8	-159.38	-181.1	0.3	514.0	465.1	48.86	10.520	
7,200.0	7,175.3	7,227.3	7,183.7	25.8	24.1	-160.15	-177.4	0.2	522.2	472.7	49.54	10.540	
7,300.0	7,274.8	7,332.9	7,289.2	26.1	24.4	-160.78	-174.5	-1.2	529.7	479.5	50.23	10.546	
7,400.0	7,374.3	7,433.0	7,389.2	26.5	24.7	-161.19	-172.8	-4.1	536.3	485.4	50.90	10.536	
7,500.0	7,473.7	7,527.0	7,483.2	26.8	25.0	-161.45	-172.3	-6.9	543.3	491.7	51.57	10.535	
7,600.0	7,573.2	7,622.3	7,578.5	27.2	25.3	-161.66	-172.8	-8.9	551.5	499.2	52.25	10.555	
7,700.0	7,672.6	7,729.1	7,685.2	27.6	25.7	-161.82	-173.8	-11.5	559.5	506.6	52.94	10.569	
7,800.0	7,772.1	7,831.4	7,787.5	27.9	26.0	-161.91	-174.9	-15.2	566.5	512.9	53.62	10.565	
7,900.0	7,871.5	7,922.6	7,878.6	28.3	26.3	-162.03	-175.7	-17.9	574.2	519.9	54.30	10.575	
8,000.0	7,971.0	8,013.1	7,969.1	28.6	26.6	-162.23	-176.3	-18.5	583.7	528.7	54.97	10.618	
8,100.0	8,070.4	8,133.4	8,089.1	29.0	27.0	-163.30	-168.8	-17.8	591.9	536.2	55.70	10.625	
8,200.0	8,169.9	8,259.8	8,213.1	29.4	27.4	-165.85	-145.1	-15.7	596.9	540.6	56.37	10.590	
8,300.0	8,269.3	8,368.5	8,316.1	29.7	27.8	-169.29	-110.5	-13.8	598.9	541.8	57.05	10.497	
8,400.0	8,368.8	8,525.2	8,456.9	30.1	28.2	-175.85	-42.0	-15.5	597.6	540.1	57.53	10.388	
8,500.0	8,468.2	8,622.7	8,536.8	30.5	28.5	178.94	12.8	-21.2	593.6	535.2	58.35	10.172	
8,511.2	8,479.4	8,627.0	8,539.9	30.5	28.5	178.65	15.9	-21.3	593.5	535.0	58.47	10.150	
8,600.0	8,567.7	8,659.0	8,561.5	30.8	28.6	176.38	39.5	-21.5	598.3	539.2	59.12	10.121	
8,700.0	8,667.1	8,690.0	8,579.5	31.2	28.7	173.98	64.7	-19.7	616.4	557.3	59.12	10.426	
8,800.0	8,766.6	8,710.1	8,589.4	31.6	28.7	172.35	82.0	-17.8	647.5	589.2	58.30	11.105	
8,900.0	8,866.0	8,737.0	8,601.0	31.9	28.7	170.10	106.1	-15.2	689.8	632.8	57.03	12.095	
9,000.0	8,965.5	8,752.8	8,606.7	32.3	28.8	168.75	120.8	-13.7	742.2	686.9	55.34	13.413	
9,100.0	9,064.9	8,768.0	8,611.4	32.6	28.8	167.44	135.2	-12.3	803.1	749.5	53.56	14.994	
9,200.0	9,164.4	8,788.9	8,617.1	33.0	28.8	165.63	155.2	-10.5	870.6	818.7	51.93	16.765	
9,300.0	9,263.8	8,815.3	8,623.8	33.4	28.8	163.38	180.7	-8.7	943.2	892.7	50.52	18.669	
9,400.0	9,363.3	8,831.0	8,627.4	33.7	28.8	162.04	195.9	-8.0	1,019.9	970.7	49.17	20.743	
9,500.0	9,462.7	8,847.6	8,631.0	34.1	28.9	160.64	212.1	-7.5	1,100.0	1,052.0	48.01	22.911	
9,600.0	9,562.2	8,863.0	8,633.9	34.5	28.9	159.35	227.2	-7.1	1,182.9	1,135.9	47.02	25.158	
9,700.0	9,661.7	8,863.0	8,633.9	34.8	28.9	159.35	227.2	-7.1	1,268.2	1,222.1	46.05	27.539	
9,744.7	9,706.1	8,863.0	8,633.9	35.0	28.9	159.35	227.2	-7.1	1,307.0	1,261.3	45.67	28.618	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 89-MWD, 679-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,750.0	9,711.4	8,863.0	8,633.9	35.0	28.9	153.06	227.2	-7.1	1,311.6	1,266.0	45.63	28.747		
9,775.0	9,736.2	8,873.7	8,635.8	35.1	28.9	128.98	237.8	-6.9	1,333.4	1,287.9	45.53	29.289		
9,800.0	9,760.8	8,876.6	8,636.3	35.2	28.9	112.97	240.7	-6.8	1,355.4	1,310.0	45.37	29.874		
9,825.0	9,785.3	8,880.1	8,636.8	35.3	28.9	100.97	244.1	-6.7	1,377.3	1,332.1	45.23	30.453		
9,850.0	9,809.4	8,883.9	8,637.4	35.4	28.9	91.31	247.9	-6.7	1,399.3	1,354.2	45.10	31.024		
9,875.0	9,833.3	8,895.0	8,639.1	35.5	28.9	82.84	258.8	-6.5	1,421.1	1,376.0	45.05	31.547		
9,900.0	9,856.7	8,895.0	8,639.1	35.6	28.9	76.09	258.8	-6.5	1,442.7	1,397.7	44.91	32.124		
9,925.0	9,879.6	8,895.0	8,639.1	35.6	28.9	70.20	258.8	-6.5	1,464.0	1,419.2	44.79	32.690		
9,950.0	9,902.0	8,895.0	8,639.1	35.7	28.9	65.02	258.8	-6.5	1,485.2	1,440.5	44.67	33.244		
9,975.0	9,923.8	8,895.0	8,639.1	35.8	28.9	60.46	258.8	-6.5	1,506.0	1,461.4	44.58	33.785		
10,000.0	9,944.9	8,906.9	8,640.7	35.9	28.9	56.24	270.7	-6.3	1,526.3	1,481.7	44.57	34.243		
10,025.0	9,965.4	8,910.7	8,641.1	36.0	28.9	52.67	274.4	-6.2	1,546.2	1,501.7	44.52	34.731		
10,050.0	9,985.0	8,926.0	8,642.6	36.0	28.9	49.44	289.6	-5.9	1,565.9	1,521.4	44.55	35.149		
10,075.0	10,003.8	8,926.0	8,642.6	36.1	28.9	46.73	289.6	-5.9	1,584.8	1,540.3	44.50	35.617		
10,100.0	10,021.8	8,926.0	8,642.6	36.2	28.9	44.32	289.6	-5.9	1,603.2	1,558.7	44.45	36.063		
10,125.0	10,038.8	8,926.0	8,642.6	36.2	28.9	42.17	289.6	-5.9	1,621.0	1,576.6	44.43	36.487		
10,150.0	10,054.9	8,926.0	8,642.6	36.3	28.9	40.25	289.6	-5.9	1,638.3	1,593.9	44.42	36.887		
10,175.0	10,069.9	8,945.4	8,643.9	36.3	29.0	38.59	309.0	-5.5	1,654.8	1,610.3	44.51	37.181		
10,200.0	10,083.9	8,954.5	8,644.4	36.4	29.0	37.12	318.0	-5.4	1,670.6	1,626.0	44.56	37.495		
10,225.0	10,096.7	8,963.7	8,644.9	36.4	29.0	35.83	327.2	-5.2	1,685.6	1,641.0	44.61	37.781		
10,250.0	10,108.5	8,989.0	8,645.8	36.4	29.0	34.79	352.5	-4.7	1,700.0	1,655.3	44.75	37.991		
10,275.0	10,119.1	8,989.0	8,645.8	36.5	29.0	33.75	352.5	-4.7	1,713.3	1,668.5	44.79	38.253		
10,300.0	10,128.5	8,999.5	8,646.1	36.5	29.0	32.90	363.0	-4.6	1,725.8	1,681.0	44.88	38.453		
10,325.0	10,136.6	9,029.2	8,647.0	36.5	29.1	32.31	392.7	-4.2	1,737.4	1,692.3	45.06	38.560		
10,350.0	10,143.5	9,059.6	8,647.9	36.6	29.1	31.87	423.0	-3.9	1,747.7	1,702.5	45.24	38.632		
10,375.0	10,149.2	9,090.5	8,649.0	36.6	29.1	31.54	454.0	-3.8	1,756.9	1,711.5	45.44	38.668		
10,400.0	10,153.6	9,107.5	8,649.5	36.7	29.2	31.20	471.0	-3.8	1,765.0	1,719.5	45.59	38.714		
10,425.0	10,156.7	9,127.1	8,650.2	36.7	29.2	30.97	490.6	-3.7	1,772.1	1,726.3	45.77	38.722		
10,450.0	10,158.5	9,146.8	8,650.7	36.7	29.2	30.83	510.2	-3.6	1,778.1	1,732.2	45.95	38.698		
10,470.4	10,159.0	9,162.9	8,651.2	36.8	29.2	30.79	526.4	-3.5	1,782.2	1,736.1	46.10	38.657		
10,500.0	10,159.1	9,179.0	8,651.6	36.8	29.3	31.05	542.4	-3.4	1,787.6	1,741.3	46.31	38.604		
10,600.0	10,159.5	9,241.6	8,652.6	36.9	29.4	32.00	605.0	-2.8	1,806.2	1,759.2	47.03	38.408		
10,700.0	10,159.8	9,298.1	8,652.4	37.1	29.5	32.82	661.5	-1.8	1,825.4	1,777.7	47.71	38.260		
10,800.0	10,160.2	9,369.0	8,650.3	37.3	29.6	33.68	732.3	0.0	1,845.2	1,796.8	48.42	38.110		
10,900.0	10,160.5	9,505.5	8,648.1	37.5	29.9	34.86	868.8	2.9	1,862.2	1,812.9	49.33	37.752		
11,000.0	10,160.9	9,578.0	8,646.9	37.7	30.1	35.50	941.3	4.0	1,877.2	1,827.2	50.01	37.539		
11,100.0	10,161.2	9,654.0	8,644.6	37.9	30.3	36.06	1,017.2	5.7	1,891.8	1,841.2	50.68	37.326		
11,200.0	10,161.6	9,881.7	8,646.6	38.2	31.0	37.04	1,244.8	5.8	1,898.3	1,846.3	52.01	36.498		
11,300.0	10,162.0	9,938.0	8,646.6	38.4	31.2	37.24	1,301.1	4.8	1,904.0	1,851.4	52.56	36.227		
11,400.0	10,162.3	10,024.8	8,645.1	38.7	31.5	37.40	1,387.8	3.4	1,909.2	1,856.0	53.22	35.871		
11,500.0	10,162.7	10,102.6	8,642.9	38.9	31.8	37.43	1,465.6	1.5	1,912.7	1,858.9	53.83	35.535		
11,524.2	10,162.8	10,128.0	8,641.9	39.0	31.9	37.42	1,491.0	0.8	1,913.5	1,859.5	54.00	35.438		
11,600.0	10,163.0	10,304.8	8,641.4	39.2	32.6	37.33	1,667.7	-4.5	1,912.8	1,857.7	55.04	34.751		
11,700.0	10,163.4	10,372.9	8,642.2	39.5	32.9	37.30	1,735.6	-7.3	1,910.7	1,855.0	55.64	34.339		
11,759.6	10,163.6	10,412.0	8,641.9	39.7	33.0	37.27	1,774.8	-8.7	1,910.4	1,854.4	56.00	34.112		
11,800.0	10,163.8	10,434.4	8,641.4	39.8	33.1	37.25	1,797.1	-9.5	1,910.6	1,854.4	56.23	33.977		
11,900.0	10,164.1	10,507.0	8,638.8	40.1	33.5	37.17	1,869.7	-11.9	1,912.6	1,855.7	56.90	33.612		
12,000.0	10,164.5	10,642.2	8,635.9	40.5	34.1	37.10	2,004.8	-14.1	1,914.6	1,856.6	57.94	33.041		
12,100.0	10,164.8	10,800.4	8,639.0	40.8	34.8	37.16	2,162.9	-15.9	1,913.5	1,854.2	59.23	32.307		
12,200.0	10,165.2	10,920.1	8,642.6	41.2	35.4	37.17	2,282.5	-19.4	1,910.5	1,850.2	60.31	31.676		
12,300.0	10,165.6	10,982.0	8,644.2	41.6	35.7	37.15	2,344.3	-22.4	1,907.2	1,846.1	61.05	31.238		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design ADMIRAL FEDERAL PROJECT (ATLAS 2529) - ADMIRAL FEDERAL COM 502H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 89-MWD, 679-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,400.0	10,165.9	11,076.0	8,644.2	42.0	36.2	37.08	2,438.2	-26.5	1,905.7	1,843.7	61.99	30.742	
12,423.3	10,166.0	11,076.0	8,644.2	42.1	36.2	37.08	2,438.2	-26.5	1,905.6	1,843.5	62.09	30.691	
12,500.0	10,166.3	11,123.0	8,642.8	42.4	36.5	37.03	2,485.2	-28.1	1,906.5	1,843.8	62.68	30.416	
12,600.0	10,166.6	11,206.6	8,639.6	42.8	36.9	36.91	2,568.7	-31.3	1,908.4	1,844.8	63.59	30.013	
12,700.0	10,167.0	11,299.6	8,635.1	43.3	37.4	36.78	2,661.5	-34.6	1,911.3	1,846.7	64.56	29.603	
12,800.0	10,167.4	11,447.8	8,634.5	43.7	38.3	36.79	2,809.6	-35.4	1,912.2	1,846.3	65.97	28.988	
12,854.6	10,167.6	11,507.7	8,635.9	44.0	38.6	36.84	2,869.5	-35.2	1,911.9	1,845.3	66.63	28.693	
12,900.0	10,167.7	11,551.0	8,637.0	44.2	38.9	36.90	2,912.8	-34.2	1,912.2	1,845.0	67.15	28.474	
13,000.0	10,168.1	11,612.5	8,638.3	44.7	39.2	36.99	2,974.3	-31.9	1,913.6	1,845.5	68.09	28.104	
13,100.0	10,168.4	11,684.8	8,639.6	45.1	39.6	37.12	3,046.4	-28.4	1,916.4	1,847.3	69.12	27.726	
13,200.0	10,168.8	11,759.0	8,640.0	45.6	40.1	37.26	3,120.5	-23.8	1,920.8	1,850.6	70.18	27.371	
13,300.0	10,169.2	11,852.1	8,640.0	46.2	40.6	37.42	3,213.4	-18.0	1,925.7	1,854.3	71.38	26.978	
13,400.0	10,169.5	11,930.0	8,639.5	46.7	41.1	37.57	3,291.1	-12.1	1,931.9	1,859.4	72.49	26.650	
13,500.0	10,169.9	12,130.3	8,641.6	47.2	42.3	37.94	3,491.0	-0.2	1,936.1	1,861.5	74.54	25.974	
13,600.0	10,170.2	12,245.7	8,644.8	47.7	43.1	38.11	3,606.3	3.0	1,936.8	1,860.9	75.95	25.502	
13,700.0	10,170.6	12,330.3	8,646.7	48.3	43.6	38.21	3,690.9	4.9	1,937.5	1,860.4	77.14	25.117	
13,800.0	10,170.9	12,404.0	8,647.3	48.9	44.1	38.29	3,764.5	6.8	1,939.7	1,861.4	78.25	24.787	
13,900.0	10,171.3	12,474.5	8,646.8	49.4	44.6	38.35	3,835.0	9.1	1,943.3	1,864.0	79.35	24.491	
14,000.0	10,171.7	12,731.9	8,648.0	50.0	46.3	38.47	4,092.2	10.2	1,946.0	1,864.2	81.75	23.805	
14,100.0	10,172.0	12,818.8	8,651.3	50.6	46.9	38.49	4,179.0	7.7	1,942.4	1,859.4	82.99	23.406	
14,200.0	10,172.4	12,898.7	8,653.4	51.2	47.4	38.49	4,258.9	5.1	1,939.5	1,855.3	84.18	23.041	
14,300.0	10,172.7	12,972.0	8,653.6	51.8	47.9	38.45	4,332.1	2.3	1,938.1	1,852.8	85.32	22.717	
14,375.1	10,173.0	13,030.6	8,652.8	52.2	48.3	38.40	4,390.6	0.0	1,937.9	1,851.7	86.19	22.484	
14,400.0	10,173.1	13,051.8	8,652.5	52.4	48.5	38.38	4,411.8	-0.8	1,937.9	1,851.4	86.49	22.406	
14,500.0	10,173.5	13,140.0	8,650.4	53.0	49.1	38.28	4,499.9	-4.4	1,938.4	1,850.7	87.72	22.097	
14,600.0	10,173.8	13,245.2	8,647.2	53.6	49.8	38.14	4,605.0	-9.2	1,939.2	1,850.1	89.07	21.772	
14,700.0	10,174.2	13,351.2	8,644.2	54.2	50.6	38.00	4,710.9	-14.4	1,939.6	1,849.1	90.43	21.449	
14,800.0	10,174.5	13,492.2	8,643.6	54.9	51.6	37.88	4,851.7	-20.6	1,938.1	1,846.1	92.04	21.058	
14,900.0	10,174.9	13,573.4	8,643.6	55.5	52.2	37.81	4,932.8	-24.3	1,936.6	1,843.3	93.28	20.761	
14,952.9	10,175.1	13,608.8	8,643.2	55.9	52.4	37.78	4,968.1	-25.8	1,936.3	1,842.5	93.88	20.625	
15,000.0	10,175.3	13,636.0	8,642.7	56.2	52.6	37.75	4,995.3	-26.9	1,936.5	1,842.1	94.39	20.517	
15,096.7	10,175.6	13,708.5	8,640.2	56.8	53.1	37.66	5,067.7	-29.7	1,938.0	1,842.5	95.53	20.287	
15,100.0	10,175.6	13,710.8	8,640.1	56.8	53.2	37.66	5,070.1	-29.8	1,938.1	1,842.5	95.57	20.279	
15,135.1	10,175.7	13,745.0	8,638.5	57.0	53.4	37.61	5,104.2	-31.1	1,938.8	1,842.8	96.03	20.189	
15,200.0	10,176.0	13,940.9	8,639.8	57.5	54.8	37.51	5,299.9	-36.3	1,937.7	1,839.9	97.81	19.810	
15,300.0	10,176.3	14,040.7	8,644.1	58.1	55.6	37.50	5,399.6	-39.7	1,932.6	1,833.3	99.23	19.476	
15,400.0	10,176.7	14,141.3	8,648.2	58.8	56.3	37.48	5,500.0	-43.6	1,927.2	1,826.6	100.65	19.149	
15,500.0	10,177.1	14,224.2	8,651.0	59.5	56.9	37.44	5,582.7	-47.2	1,922.4	1,820.4	101.96	18.855	
15,600.0	10,177.4	14,300.0	8,652.5	60.1	57.5	37.40	5,658.5	-50.0	1,918.8	1,815.6	103.22	18.590	
15,700.0	10,177.8	14,385.1	8,653.3	60.8	58.1	37.34	5,743.6	-52.9	1,916.4	1,811.8	104.54	18.332	
15,800.0	10,178.1	14,469.6	8,653.4	61.5	58.8	37.27	5,828.0	-55.9	1,914.4	1,808.6	105.85	18.086	
15,900.0	10,178.5	14,556.2	8,652.5	62.2	59.4	37.17	5,914.6	-59.2	1,913.3	1,806.1	107.17	17.853	
15,986.7	10,178.8	14,627.6	8,651.4	62.8	60.0	37.09	5,985.9	-61.7	1,912.9	1,804.6	108.29	17.665	
16,000.0	10,178.9	14,638.2	8,651.2	62.9	60.0	37.08	5,996.5	-61.9	1,912.9	1,804.5	108.46	17.637	
16,100.0	10,179.2	14,720.7	8,650.1	63.6	60.7	37.03	6,078.9	-63.1	1,913.6	1,803.8	109.77	17.433	
16,200.0	10,179.6	14,811.7	8,648.7	64.3	61.4	36.99	6,170.0	-63.4	1,914.9	1,803.8	111.15	17.229	
16,300.0	10,179.9	14,909.9	8,647.7	65.0	62.1	36.99	6,268.1	-62.7	1,916.5	1,803.9	112.60	17.021	
16,400.0	10,180.3	15,010.6	8,646.7	65.7	62.9	36.98	6,368.8	-61.9	1,918.2	1,804.1	114.07	16.815	
16,500.0	10,180.7	15,104.3	8,645.3	66.4	63.6	36.96	6,462.6	-61.8	1,919.8	1,804.3	115.49	16.623	
16,600.0	10,181.0	15,196.0	8,643.5	67.1	64.3	36.93	6,554.2	-61.3	1,922.0	1,805.1	116.89	16.443	
16,700.0	10,181.4	15,287.4	8,641.0	67.8	65.0	36.88	6,645.6	-61.5	1,924.4	1,806.1	118.28	16.270	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design ADMIRAL FEDERAL PROJECT (ATLAS 2529) - ADMIRAL FEDERAL COM 502H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 89-MWD, 679-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,800.0	10,181.7	15,378.8	8,637.5	68.5	65.7	36.81	6,736.9	-61.7	1,927.7	1,808.0	119.67	16.108	
16,900.0	10,182.1	15,498.4	8,635.8	69.3	66.7	36.83	6,856.5	-59.4	1,930.3	1,809.0	121.34	15.909	
17,000.0	10,182.5	15,663.3	8,637.2	70.0	67.9	36.90	7,021.3	-57.2	1,930.8	1,807.4	123.36	15.651	
17,100.0	10,182.8	15,763.1	8,638.2	70.7	68.7	36.88	7,121.2	-58.5	1,929.6	1,804.7	124.85	15.454	
17,200.0	10,183.2	15,857.4	8,638.0	71.5	69.5	36.82	7,215.4	-60.8	1,928.6	1,802.3	126.29	15.271	
17,300.0	10,183.5	15,954.9	8,636.8	72.2	70.2	36.72	7,312.8	-64.2	1,927.8	1,800.1	127.75	15.091	
17,400.0	10,183.9	16,092.2	8,637.0	72.9	71.3	36.64	7,450.0	-67.5	1,926.8	1,797.3	129.48	14.881	
17,500.0	10,184.3	16,178.6	8,641.4	73.7	72.0	36.76	7,536.2	-65.6	1,924.4	1,793.4	130.95	14.696	
17,600.0	10,184.6	16,260.8	8,644.5	74.4	72.6	36.85	7,618.4	-64.0	1,922.9	1,790.6	132.37	14.527	
17,700.0	10,185.0	16,345.3	8,646.6	75.2	73.3	36.92	7,702.8	-62.5	1,922.3	1,788.6	133.80	14.368	
17,800.0	10,185.3	16,472.5	8,648.8	75.9	74.3	36.98	7,830.0	-61.4	1,922.0	1,786.4	135.53	14.181	
17,900.0	10,185.7	16,562.9	8,650.3	76.7	75.0	36.98	7,920.4	-62.2	1,920.5	1,783.5	136.99	14.020	
18,000.0	10,186.1	16,644.1	8,650.5	77.4	75.7	36.96	8,001.7	-63.2	1,919.9	1,781.5	138.37	13.875	
18,100.0	10,186.4	16,752.8	8,650.0	78.2	76.5	36.91	8,110.3	-64.7	1,919.8	1,779.8	139.94	13.719	
18,200.0	10,186.8	16,859.7	8,650.1	78.9	77.4	36.86	8,217.2	-66.6	1,919.0	1,777.5	141.50	13.562	
18,300.0	10,187.2	16,956.0	8,650.4	79.7	78.2	36.83	8,313.5	-68.2	1,918.1	1,775.1	142.99	13.414	
18,342.8	10,187.3	16,984.6	8,650.4	80.0	78.4	36.82	8,342.0	-68.6	1,917.9	1,774.4	143.54	13.361	
18,400.0	10,187.5	17,020.9	8,650.2	80.5	78.7	36.81	8,378.3	-68.8	1,918.2	1,774.0	144.25	13.298	
18,500.0	10,187.9	17,104.0	8,648.8	81.2	79.3	36.78	8,461.5	-68.6	1,920.0	1,774.4	145.63	13.184	
18,600.0	10,188.2	17,228.0	8,648.1	82.0	80.3	36.78	8,585.4	-68.0	1,921.1	1,773.7	147.37	13.036	
18,700.0	10,188.6	17,351.9	8,650.6	82.8	81.3	36.87	8,709.3	-66.0	1,920.6	1,771.5	149.12	12.880	
18,800.0	10,189.0	17,464.2	8,653.8	83.5	82.2	36.97	8,821.5	-64.0	1,919.8	1,769.0	150.79	12.732	
18,900.0	10,189.3	17,556.6	8,656.5	84.3	83.0	37.04	8,913.9	-63.0	1,918.5	1,766.2	152.30	12.597	
18,948.0	10,189.5	17,589.9	8,657.0	84.7	83.2	37.05	8,947.2	-62.7	1,918.4	1,765.4	152.94	12.543	
19,000.0	10,189.7	17,628.7	8,657.2	85.1	83.6	37.06	8,986.0	-62.4	1,918.6	1,764.9	153.64	12.487	
19,100.0	10,190.0	17,726.2	8,657.2	85.8	84.3	37.07	9,083.5	-61.8	1,919.3	1,764.1	155.17	12.369	
19,200.0	10,190.4	17,812.4	8,656.9	86.6	85.0	37.08	9,169.6	-61.0	1,920.5	1,763.9	156.60	12.263	
19,300.0	10,190.8	17,915.0	8,656.4	87.4	85.9	37.10	9,272.3	-59.8	1,921.9	1,763.7	158.18	12.150	
19,400.0	10,191.1	18,010.0	8,656.1	88.2	86.6	37.12	9,367.3	-58.4	1,923.5	1,763.8	159.70	12.045	
19,500.0	10,191.5	18,112.4	8,655.4	89.0	87.5	37.14	9,469.6	-57.0	1,925.1	1,763.8	161.27	11.937	
19,600.0	10,191.8	18,220.6	8,654.5	89.7	88.3	37.13	9,577.8	-56.5	1,926.4	1,763.5	162.89	11.826	
19,700.0	10,192.2	18,327.0	8,653.8	90.5	89.2	37.11	9,684.2	-56.5	1,927.3	1,762.8	164.50	11.717	
19,800.0	10,192.6	18,431.0	8,653.3	91.3	90.1	37.10	9,788.2	-56.6	1,928.0	1,761.9	166.08	11.609	
19,900.0	10,192.9	18,536.4	8,652.9	92.1	90.9	37.08	9,893.6	-56.9	1,928.5	1,760.8	167.67	11.501	
20,000.0	10,193.3	18,635.1	8,652.5	92.9	91.7	37.05	9,992.3	-57.6	1,928.7	1,759.5	169.21	11.398	
20,100.0	10,193.6	18,733.6	8,651.9	93.7	92.5	37.02	10,090.8	-58.2	1,929.2	1,758.4	170.75	11.298	
20,198.4	10,194.0	18,831.9	8,651.1	94.4	93.3	36.98	10,189.1	-59.2	1,929.6	1,757.3	172.27	11.201	

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

12/10/2020 3:17:05PM

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COMPASS 5000.15 Build 91E

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=25' @ 3009.4usft

Offset Depths are relative to Offset Datum

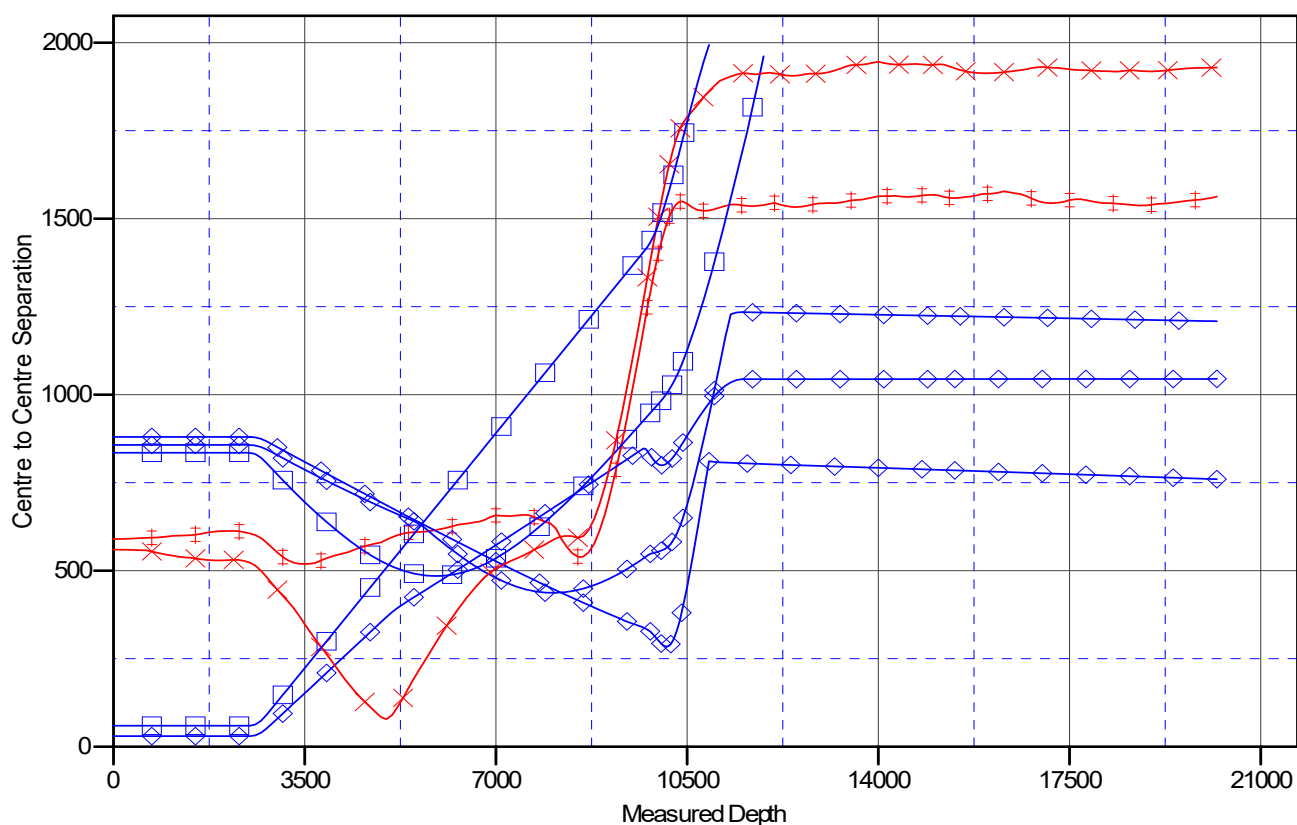
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ADMIRAL FEDERAL #706H

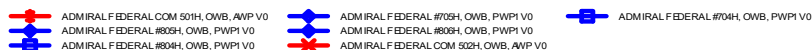
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.18°

Ladder Plot



LEGEND



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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Reference Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ADMIRAL FEDERAL #706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=25' @ 3009.4usft

Offset Depths are relative to Offset Datum

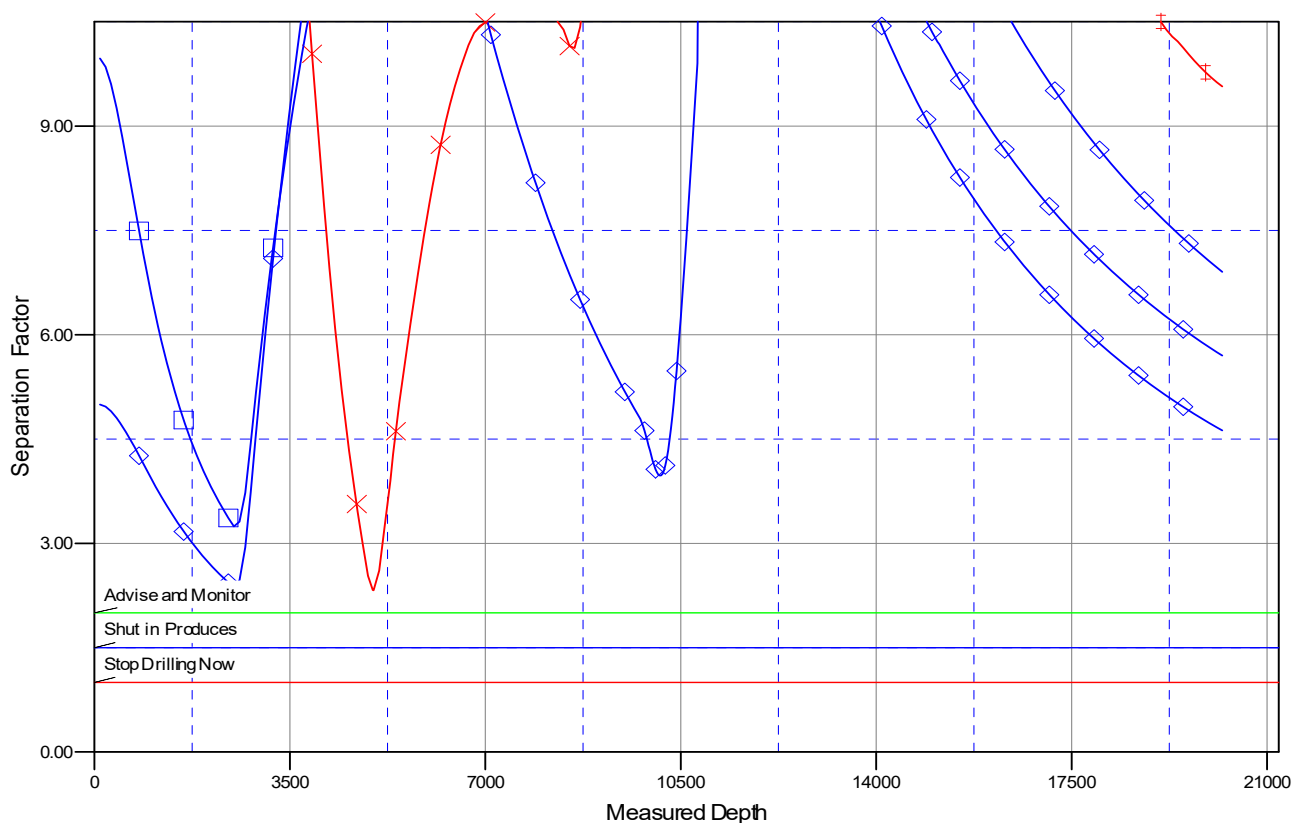
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ADMIRAL FEDERAL #706H

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

Grid Convergence at Surface is: 0.18°

Separation Factor Plot



LEGEND

ADMIRAL FEDERAL #501H, OWB, AWP V0	ADMIRAL FEDERAL #706H, OWB, PWP1 V0	ADMIRAL FEDERAL #706H, OWB, PWP1 V0
ADMIRAL FEDERAL #808H, OWB, PWP1 V0	ADMIRAL FEDERAL #808H, OWB, PWP1 V0	
ADMIRAL FEDERAL #808H, OWB, PWP1 V0	ADMIRAL FEDERAL #502H, OWB, AWP V0	

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

ADMIRAL FEDERAL PROJECT (ATLAS 2529)

ADMIRAL FEDERAL #706H

OWB

Plan: PWP1

Standard Survey Report

10 December, 2020

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Well:	ADMIRAL FEDERAL #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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

Well	ADMIRAL FEDERAL #706H			
Well Position	+N/-S	0.0 usft	Northing:	398,096.10 usft
	+E/-W	0.0 usft	Easting:	605,507.40 usft
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft
			Latitude:	32° 5' 38.486 N
			Longitude:	103° 59' 33.482 W
			Ground Level:	2,984.4 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	12/2/2020	6.79	59.74	47,431.80414261

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	353.17	

Survey Tool Program	Date	12/10/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	20,198.3	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 ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Well:	ADMIRAL FEDERAL #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,600.0	2.00	275.00	2,600.0	0.2	-1.7	0.4	2.00	2.00	0.00
2,700.0	4.00	275.00	2,699.8	0.6	-7.0	1.4	2.00	2.00	0.00
2,800.0	6.00	275.00	2,799.5	1.4	-15.6	3.2	2.00	2.00	0.00
Start 6944.7 hold at 2800.0 MD									
2,900.0	6.00	275.00	2,898.9	2.3	-26.0	5.4	0.00	0.00	0.00
3,000.0	6.00	275.00	2,998.4	3.2	-36.5	7.5	0.00	0.00	0.00
3,100.0	6.00	275.00	3,097.8	4.1	-46.9	9.6	0.00	0.00	0.00
3,200.0	6.00	275.00	3,197.3	5.0	-57.3	11.8	0.00	0.00	0.00
3,300.0	6.00	275.00	3,296.7	5.9	-67.7	13.9	0.00	0.00	0.00
3,400.0	6.00	275.00	3,396.2	6.8	-78.1	16.1	0.00	0.00	0.00
3,500.0	6.00	275.00	3,495.6	7.7	-88.5	18.2	0.00	0.00	0.00
3,600.0	6.00	275.00	3,595.1	8.7	-98.9	20.4	0.00	0.00	0.00
3,700.0	6.00	275.00	3,694.5	9.6	-109.4	22.5	0.00	0.00	0.00
3,800.0	6.00	275.00	3,794.0	10.5	-119.8	24.6	0.00	0.00	0.00
3,900.0	6.00	275.00	3,893.4	11.4	-130.2	26.8	0.00	0.00	0.00
4,000.0	6.00	275.00	3,992.9	12.3	-140.6	28.9	0.00	0.00	0.00
4,100.0	6.00	275.00	4,092.3	13.2	-151.0	31.1	0.00	0.00	0.00
4,200.0	6.00	275.00	4,191.8	14.1	-161.4	33.2	0.00	0.00	0.00
4,300.0	6.00	275.00	4,291.2	15.0	-171.8	35.4	0.00	0.00	0.00
4,400.0	6.00	275.00	4,390.7	15.9	-182.2	37.5	0.00	0.00	0.00
4,500.0	6.00	275.00	4,490.1	16.9	-192.7	39.6	0.00	0.00	0.00
4,600.0	6.00	275.00	4,589.6	17.8	-203.1	41.8	0.00	0.00	0.00
4,700.0	6.00	275.00	4,689.0	18.7	-213.5	43.9	0.00	0.00	0.00
4,800.0	6.00	275.00	4,788.5	19.6	-223.9	46.1	0.00	0.00	0.00
4,900.0	6.00	275.00	4,887.9	20.5	-234.3	48.2	0.00	0.00	0.00
5,000.0	6.00	275.00	4,987.4	21.4	-244.7	50.3	0.00	0.00	0.00
5,100.0	6.00	275.00	5,086.9	22.3	-255.1	52.5	0.00	0.00	0.00
5,200.0	6.00	275.00	5,186.3	23.2	-265.5	54.6	0.00	0.00	0.00
5,300.0	6.00	275.00	5,285.8	24.1	-276.0	56.8	0.00	0.00	0.00
5,400.0	6.00	275.00	5,385.2	25.1	-286.4	58.9	0.00	0.00	0.00
5,500.0	6.00	275.00	5,484.7	26.0	-296.8	61.1	0.00	0.00	0.00
5,600.0	6.00	275.00	5,584.1	26.9	-307.2	63.2	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Well:	ADMIRAL FEDERAL #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,700.0	6.00	275.00	5,683.6	27.8	-317.6	65.3	0.00	0.00	0.00	
5,800.0	6.00	275.00	5,783.0	28.7	-328.0	67.5	0.00	0.00	0.00	
5,900.0	6.00	275.00	5,882.5	29.6	-338.4	69.6	0.00	0.00	0.00	
6,000.0	6.00	275.00	5,981.9	30.5	-348.9	71.8	0.00	0.00	0.00	
6,100.0	6.00	275.00	6,081.4	31.4	-359.3	73.9	0.00	0.00	0.00	
6,200.0	6.00	275.00	6,180.8	32.3	-369.7	76.1	0.00	0.00	0.00	
6,300.0	6.00	275.00	6,280.3	33.3	-380.1	78.2	0.00	0.00	0.00	
6,400.0	6.00	275.00	6,379.7	34.2	-390.5	80.3	0.00	0.00	0.00	
6,500.0	6.00	275.00	6,479.2	35.1	-400.9	82.5	0.00	0.00	0.00	
6,600.0	6.00	275.00	6,578.6	36.0	-411.3	84.6	0.00	0.00	0.00	
6,700.0	6.00	275.00	6,678.1	36.9	-421.7	86.8	0.00	0.00	0.00	
6,800.0	6.00	275.00	6,777.5	37.8	-432.2	88.9	0.00	0.00	0.00	
6,900.0	6.00	275.00	6,877.0	38.7	-442.6	91.1	0.00	0.00	0.00	
7,000.0	6.00	275.00	6,976.4	39.6	-453.0	93.2	0.00	0.00	0.00	
7,100.0	6.00	275.00	7,075.9	40.5	-463.4	95.3	0.00	0.00	0.00	
7,200.0	6.00	275.00	7,175.3	41.5	-473.8	97.5	0.00	0.00	0.00	
7,300.0	6.00	275.00	7,274.8	42.4	-484.2	99.6	0.00	0.00	0.00	
7,400.0	6.00	275.00	7,374.3	43.3	-494.6	101.8	0.00	0.00	0.00	
7,500.0	6.00	275.00	7,473.7	44.2	-505.0	103.9	0.00	0.00	0.00	
7,600.0	6.00	275.00	7,573.2	45.1	-515.5	106.0	0.00	0.00	0.00	
7,700.0	6.00	275.00	7,672.6	46.0	-525.9	108.2	0.00	0.00	0.00	
7,800.0	6.00	275.00	7,772.1	46.9	-536.3	110.3	0.00	0.00	0.00	
7,900.0	6.00	275.00	7,871.5	47.8	-546.7	112.5	0.00	0.00	0.00	
8,000.0	6.00	275.00	7,971.0	48.7	-557.1	114.6	0.00	0.00	0.00	
8,100.0	6.00	275.00	8,070.4	49.7	-567.5	116.8	0.00	0.00	0.00	
8,200.0	6.00	275.00	8,169.9	50.6	-577.9	118.9	0.00	0.00	0.00	
8,300.0	6.00	275.00	8,269.3	51.5	-588.4	121.0	0.00	0.00	0.00	
8,400.0	6.00	275.00	8,368.8	52.4	-598.8	123.2	0.00	0.00	0.00	
8,500.0	6.00	275.00	8,468.2	53.3	-609.2	125.3	0.00	0.00	0.00	
8,600.0	6.00	275.00	8,567.7	54.2	-619.6	127.5	0.00	0.00	0.00	
8,700.0	6.00	275.00	8,667.1	55.1	-630.0	129.6	0.00	0.00	0.00	
8,800.0	6.00	275.00	8,766.6	56.0	-640.4	131.8	0.00	0.00	0.00	
8,900.0	6.00	275.00	8,866.0	56.9	-650.8	133.9	0.00	0.00	0.00	
9,000.0	6.00	275.00	8,965.5	57.9	-661.2	136.0	0.00	0.00	0.00	
9,100.0	6.00	275.00	9,064.9	58.8	-671.7	138.2	0.00	0.00	0.00	
9,200.0	6.00	275.00	9,164.4	59.7	-682.1	140.3	0.00	0.00	0.00	
9,300.0	6.00	275.00	9,263.8	60.6	-692.5	142.5	0.00	0.00	0.00	
9,400.0	6.00	275.00	9,363.3	61.5	-702.9	144.6	0.00	0.00	0.00	
9,500.0	6.00	275.00	9,462.7	62.4	-713.3	146.8	0.00	0.00	0.00	
9,600.0	6.00	275.00	9,562.2	63.3	-723.7	148.9	0.00	0.00	0.00	
9,700.0	6.00	275.00	9,661.7	64.2	-734.1	151.0	0.00	0.00	0.00	
9,744.7	6.00	275.00	9,706.1	64.6	-738.8	152.0	0.00	0.00	0.00	
Start DLS 12.00 TFO 63.24										
9,800.0	10.76	308.55	9,760.8	68.1	-745.7	156.3	12.00	8.61	60.67	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Well:	ADMIRAL FEDERAL #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,900.0	21.98	324.68	9,856.7	89.3	-763.9	179.4	12.00	11.22	16.12
10,000.0	33.72	330.04	9,944.9	128.7	-788.7	221.6	12.00	11.75	5.36
10,100.0	45.59	332.84	10,021.8	184.8	-819.0	280.8	12.00	11.87	2.80
10,200.0	57.51	334.69	10,083.9	254.9	-853.4	354.6	12.00	11.91	1.85
10,300.0	69.44	336.09	10,128.5	336.2	-890.6	439.6	12.00	11.93	1.41
10,400.0	81.38	337.30	10,153.6	424.9	-928.8	532.3	12.00	11.94	1.20
10,470.4	89.80	338.09	10,159.0	489.8	-955.4	599.9	12.00	11.95	1.13
Start DLS 2.00 TFO 90.05									
10,500.0	89.80	338.68	10,159.1	517.3	-966.3	628.5	2.00	0.00	2.00
10,600.0	89.80	340.68	10,159.5	611.1	-1,001.0	725.7	2.00	0.00	2.00
10,700.0	89.80	342.68	10,159.8	706.0	-1,032.4	823.7	2.00	0.00	2.00
10,800.0	89.80	344.68	10,160.2	801.9	-1,060.5	922.3	2.00	0.00	2.00
10,900.0	89.79	346.68	10,160.5	898.8	-1,085.2	1,021.5	2.00	0.00	2.00
11,000.0	89.79	348.68	10,160.9	996.5	-1,106.6	1,121.0	2.00	0.00	2.00
11,100.0	89.79	350.68	10,161.2	1,094.9	-1,124.5	1,220.8	2.00	0.00	2.00
11,200.0	89.79	352.68	10,161.6	1,193.8	-1,139.0	1,320.8	2.00	0.00	2.00
11,300.0	89.79	354.68	10,162.0	1,293.2	-1,150.0	1,420.8	2.00	0.00	2.00
11,400.0	89.79	356.68	10,162.3	1,392.9	-1,157.5	1,520.7	2.00	0.00	2.00
11,500.0	89.79	358.68	10,162.7	1,492.9	-1,161.5	1,620.3	2.00	0.00	2.00
11,524.2	89.79	359.17	10,162.8	1,517.1	-1,162.0	1,644.4	2.00	0.00	2.00
Start 3572.4 hold at 11524.2 MD									
11,600.0	89.79	359.17	10,163.0	1,592.8	-1,163.1	1,719.8	0.00	0.00	0.00
11,700.0	89.79	359.17	10,163.4	1,692.8	-1,164.6	1,819.3	0.00	0.00	0.00
11,800.0	89.79	359.17	10,163.8	1,792.8	-1,166.0	1,918.7	0.00	0.00	0.00
11,900.0	89.79	359.17	10,164.1	1,892.8	-1,167.5	2,018.2	0.00	0.00	0.00
12,000.0	89.79	359.17	10,164.5	1,992.8	-1,168.9	2,117.6	0.00	0.00	0.00
12,100.0	89.79	359.17	10,164.8	2,092.8	-1,170.4	2,217.1	0.00	0.00	0.00
12,200.0	89.79	359.17	10,165.2	2,192.8	-1,171.8	2,316.5	0.00	0.00	0.00
12,300.0	89.79	359.17	10,165.6	2,292.8	-1,173.3	2,416.0	0.00	0.00	0.00
12,400.0	89.79	359.17	10,165.9	2,392.8	-1,174.7	2,515.4	0.00	0.00	0.00
12,500.0	89.79	359.17	10,166.3	2,492.7	-1,176.2	2,614.9	0.00	0.00	0.00
12,600.0	89.79	359.17	10,166.6	2,592.7	-1,177.7	2,714.3	0.00	0.00	0.00
12,700.0	89.79	359.17	10,167.0	2,692.7	-1,179.1	2,813.8	0.00	0.00	0.00
12,800.0	89.79	359.17	10,167.4	2,792.7	-1,180.6	2,913.2	0.00	0.00	0.00
12,900.0	89.79	359.17	10,167.7	2,892.7	-1,182.0	3,012.7	0.00	0.00	0.00
13,000.0	89.79	359.17	10,168.1	2,992.7	-1,183.5	3,112.1	0.00	0.00	0.00
13,100.0	89.79	359.17	10,168.4	3,092.7	-1,184.9	3,211.6	0.00	0.00	0.00
13,200.0	89.79	359.17	10,168.8	3,192.7	-1,186.4	3,311.0	0.00	0.00	0.00
13,300.0	89.79	359.17	10,169.2	3,292.6	-1,187.8	3,410.5	0.00	0.00	0.00
13,400.0	89.79	359.17	10,169.5	3,392.6	-1,189.3	3,510.0	0.00	0.00	0.00
13,500.0	89.79	359.17	10,169.9	3,492.6	-1,190.8	3,609.4	0.00	0.00	0.00
13,600.0	89.79	359.17	10,170.2	3,592.6	-1,192.2	3,708.9	0.00	0.00	0.00
13,700.0	89.79	359.17	10,170.6	3,692.6	-1,193.7	3,808.3	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Well:	ADMIRAL FEDERAL #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,800.0	89.79	359.17	10,170.9	3,792.6	-1,195.1	3,907.8	0.00	0.00	0.00
13,900.0	89.79	359.17	10,171.3	3,892.6	-1,196.6	4,007.2	0.00	0.00	0.00
14,000.0	89.79	359.17	10,171.7	3,992.6	-1,198.0	4,106.7	0.00	0.00	0.00
14,100.0	89.79	359.17	10,172.0	4,092.6	-1,199.5	4,206.1	0.00	0.00	0.00
14,200.0	89.79	359.17	10,172.4	4,192.5	-1,200.9	4,305.6	0.00	0.00	0.00
14,300.0	89.79	359.17	10,172.7	4,292.5	-1,202.4	4,405.0	0.00	0.00	0.00
14,400.0	89.79	359.17	10,173.1	4,392.5	-1,203.9	4,504.5	0.00	0.00	0.00
14,500.0	89.79	359.17	10,173.5	4,492.5	-1,205.3	4,603.9	0.00	0.00	0.00
14,600.0	89.79	359.17	10,173.8	4,592.5	-1,206.8	4,703.4	0.00	0.00	0.00
14,700.0	89.79	359.17	10,174.2	4,692.5	-1,208.2	4,802.8	0.00	0.00	0.00
14,800.0	89.79	359.17	10,174.5	4,792.5	-1,209.7	4,902.3	0.00	0.00	0.00
14,900.0	89.79	359.17	10,174.9	4,892.5	-1,211.1	5,001.7	0.00	0.00	0.00
15,000.0	89.79	359.17	10,175.3	4,992.5	-1,212.6	5,101.2	0.00	0.00	0.00
15,096.7	89.79	359.17	10,175.6	5,089.1	-1,214.0	5,197.3	0.00	0.00	0.00
Start DLS 2.00 TFO 90.07									
15,100.0	89.79	359.23	10,175.6	5,092.4	-1,214.0	5,200.7	2.00	0.00	2.00
15,135.1	89.79	359.94	10,175.7	5,127.6	-1,214.3	5,235.6	2.00	0.00	2.00
Start 5063.3 hold at 15135.1 MD									
15,200.0	89.79	359.94	10,176.0	5,192.4	-1,214.4	5,300.0	0.00	0.00	0.00
15,300.0	89.79	359.94	10,176.3	5,292.4	-1,214.5	5,399.3	0.00	0.00	0.00
15,400.0	89.79	359.94	10,176.7	5,392.4	-1,214.6	5,498.6	0.00	0.00	0.00
15,500.0	89.79	359.94	10,177.1	5,492.4	-1,214.7	5,597.9	0.00	0.00	0.00
15,600.0	89.79	359.94	10,177.4	5,592.4	-1,214.8	5,697.2	0.00	0.00	0.00
15,700.0	89.79	359.94	10,177.8	5,692.4	-1,214.9	5,796.5	0.00	0.00	0.00
15,800.0	89.79	359.94	10,178.1	5,792.4	-1,215.0	5,895.8	0.00	0.00	0.00
15,900.0	89.79	359.94	10,178.5	5,892.4	-1,215.2	5,995.1	0.00	0.00	0.00
16,000.0	89.79	359.94	10,178.9	5,992.4	-1,215.3	6,094.4	0.00	0.00	0.00
16,100.0	89.79	359.94	10,179.2	6,092.4	-1,215.4	6,193.7	0.00	0.00	0.00
16,200.0	89.79	359.94	10,179.6	6,192.4	-1,215.5	6,293.0	0.00	0.00	0.00
16,300.0	89.79	359.94	10,179.9	6,292.4	-1,215.6	6,392.3	0.00	0.00	0.00
16,400.0	89.79	359.94	10,180.3	6,392.4	-1,215.7	6,491.6	0.00	0.00	0.00
16,500.0	89.79	359.94	10,180.7	6,492.4	-1,215.8	6,590.9	0.00	0.00	0.00
16,600.0	89.79	359.94	10,181.0	6,592.4	-1,216.0	6,690.2	0.00	0.00	0.00
16,700.0	89.79	359.94	10,181.4	6,692.4	-1,216.1	6,789.5	0.00	0.00	0.00
16,800.0	89.79	359.94	10,181.7	6,792.4	-1,216.2	6,888.8	0.00	0.00	0.00
16,900.0	89.79	359.94	10,182.1	6,892.4	-1,216.3	6,988.1	0.00	0.00	0.00
17,000.0	89.79	359.94	10,182.5	6,992.4	-1,216.4	7,087.4	0.00	0.00	0.00
17,100.0	89.79	359.94	10,182.8	7,092.4	-1,216.5	7,186.8	0.00	0.00	0.00
17,200.0	89.79	359.94	10,183.2	7,192.4	-1,216.6	7,286.1	0.00	0.00	0.00
17,300.0	89.79	359.94	10,183.5	7,292.4	-1,216.7	7,385.4	0.00	0.00	0.00
17,400.0	89.79	359.94	10,183.9	7,392.4	-1,216.9	7,484.7	0.00	0.00	0.00
17,500.0	89.79	359.94	10,184.3	7,492.4	-1,217.0	7,584.0	0.00	0.00	0.00
17,600.0	89.79	359.94	10,184.6	7,592.4	-1,217.1	7,683.3	0.00	0.00	0.00
17,700.0	89.79	359.94	10,185.0	7,692.4	-1,217.2	7,782.6	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Well:	ADMIRAL FEDERAL #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,800.0	89.79	359.94	10,185.3	7,792.4	-1,217.3	7,881.9	0.00	0.00	0.00
17,900.0	89.79	359.94	10,185.7	7,892.4	-1,217.4	7,981.2	0.00	0.00	0.00
18,000.0	89.79	359.94	10,186.1	7,992.4	-1,217.5	8,080.5	0.00	0.00	0.00
18,100.0	89.79	359.94	10,186.4	8,092.4	-1,217.6	8,179.8	0.00	0.00	0.00
18,200.0	89.79	359.94	10,186.8	8,192.4	-1,217.8	8,279.1	0.00	0.00	0.00
18,300.0	89.79	359.94	10,187.2	8,292.4	-1,217.9	8,378.4	0.00	0.00	0.00
18,400.0	89.79	359.94	10,187.5	8,392.4	-1,218.0	8,477.7	0.00	0.00	0.00
18,500.0	89.79	359.94	10,187.9	8,492.4	-1,218.1	8,577.0	0.00	0.00	0.00
18,600.0	89.79	359.94	10,188.2	8,592.4	-1,218.2	8,676.3	0.00	0.00	0.00
18,700.0	89.79	359.94	10,188.6	8,692.4	-1,218.3	8,775.6	0.00	0.00	0.00
18,800.0	89.79	359.94	10,189.0	8,792.4	-1,218.4	8,874.9	0.00	0.00	0.00
18,900.0	89.79	359.94	10,189.3	8,892.4	-1,218.5	8,974.2	0.00	0.00	0.00
19,000.0	89.79	359.94	10,189.7	8,992.4	-1,218.7	9,073.5	0.00	0.00	0.00
19,100.0	89.79	359.94	10,190.0	9,092.4	-1,218.8	9,172.8	0.00	0.00	0.00
19,200.0	89.79	359.94	10,190.4	9,192.4	-1,218.9	9,272.1	0.00	0.00	0.00
19,300.0	89.79	359.94	10,190.8	9,292.4	-1,219.0	9,371.4	0.00	0.00	0.00
19,400.0	89.79	359.94	10,191.1	9,392.4	-1,219.1	9,470.7	0.00	0.00	0.00
19,500.0	89.79	359.94	10,191.5	9,492.4	-1,219.2	9,570.0	0.00	0.00	0.00
19,600.0	89.79	359.94	10,191.8	9,592.4	-1,219.3	9,669.3	0.00	0.00	0.00
19,700.0	89.79	359.94	10,192.2	9,692.4	-1,219.4	9,768.6	0.00	0.00	0.00
19,800.0	89.79	359.94	10,192.6	9,792.4	-1,219.6	9,868.0	0.00	0.00	0.00
19,900.0	89.79	359.94	10,192.9	9,892.4	-1,219.7	9,967.3	0.00	0.00	0.00
20,000.0	89.79	359.94	10,193.3	9,992.4	-1,219.8	10,066.6	0.00	0.00	0.00
20,100.0	89.79	359.94	10,193.6	10,092.4	-1,219.9	10,165.9	0.00	0.00	0.00
20,198.4	89.79	359.94	10,194.0	10,190.8	-1,220.0	10,263.6	0.00	0.00	0.00
TD at 20198.4									

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
FTP (ADMIRAL FED # - plan misses target center by 332.3usft at 10218.8usft MD (10093.6 TVD, 269.4 N, -860.2 E) - Circle (radius 50.0)	0.00	0.00	10,159.0	105.0	-1,141.5	398,201.10	604,365.90	32° 5' 39.561 N	103° 59' 46.748 W
POI 1 (ADMIRAL FED # - plan hits target center - Rectangle (sides W100.0 H4,990.0 D20.0)	-0.21	179.17	10,175.6	5,089.1	-1,214.0	403,185.20	604,293.40	32° 6' 28.888 N	103° 59' 47.409 W
LTP (ADMIRAL FED # - plan misses target center by 1.0usft at 20068.4usft MD (10193.5 TVD, 10060.8 N, -1219.9 E) - Point	0.00	0.00	10,194.0	10,060.8	-1,219.0	408,156.90	604,288.40	32° 7' 18.090 N	103° 59' 47.287 W
PBHL (ADMIRAL FED # - plan hits target center - Rectangle (sides W100.0 H5,099.0 D20.0)	-0.21	179.94	10,194.0	10,190.8	-1,220.0	408,286.90	604,287.40	32° 7' 19.376 N	103° 59' 47.294 W

Concho Resources LLC

Survey Report

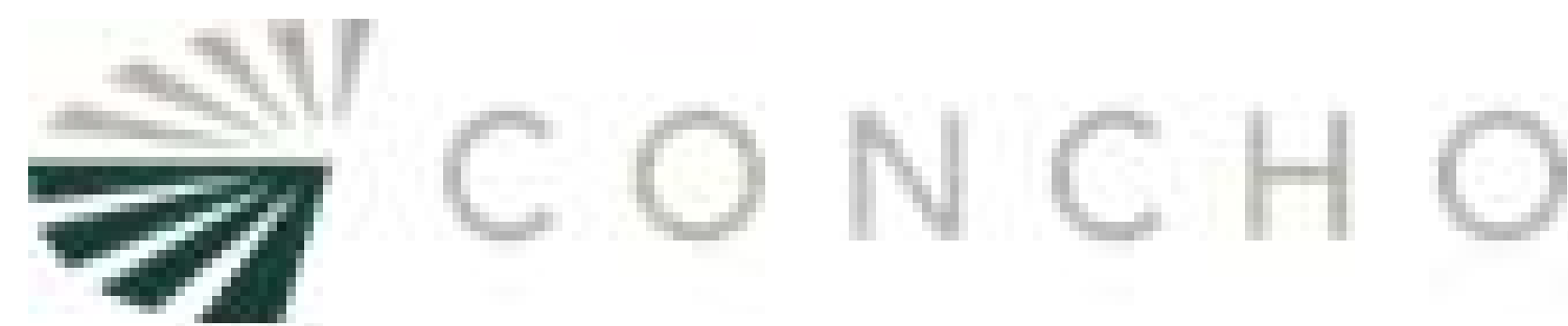
Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL #706H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3009.4usft
Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3009.4usft
Well:	ADMIRAL FEDERAL #706H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2500	2500	0	0	Start Build 2.00
2800	2799	1	-16	Start 6944.7 hold at 2800.0 MD
9745	9706	65	-739	Start DLS 12.00 TFO 63.24
10,470	10,159	490	-955	Start DLS 2.00 TFO 90.05
11,524	10,163	1517	-1162	Start 3572.4 hold at 11524.2 MD
15,097	10,176	5089	-1214	Start DLS 2.00 TFO 90.07
15,135	10,176	5128	-1214	Start 5063.3 hold at 15135.1 MD
20,198	10,194	10,191	-1220	TD at 20198.4

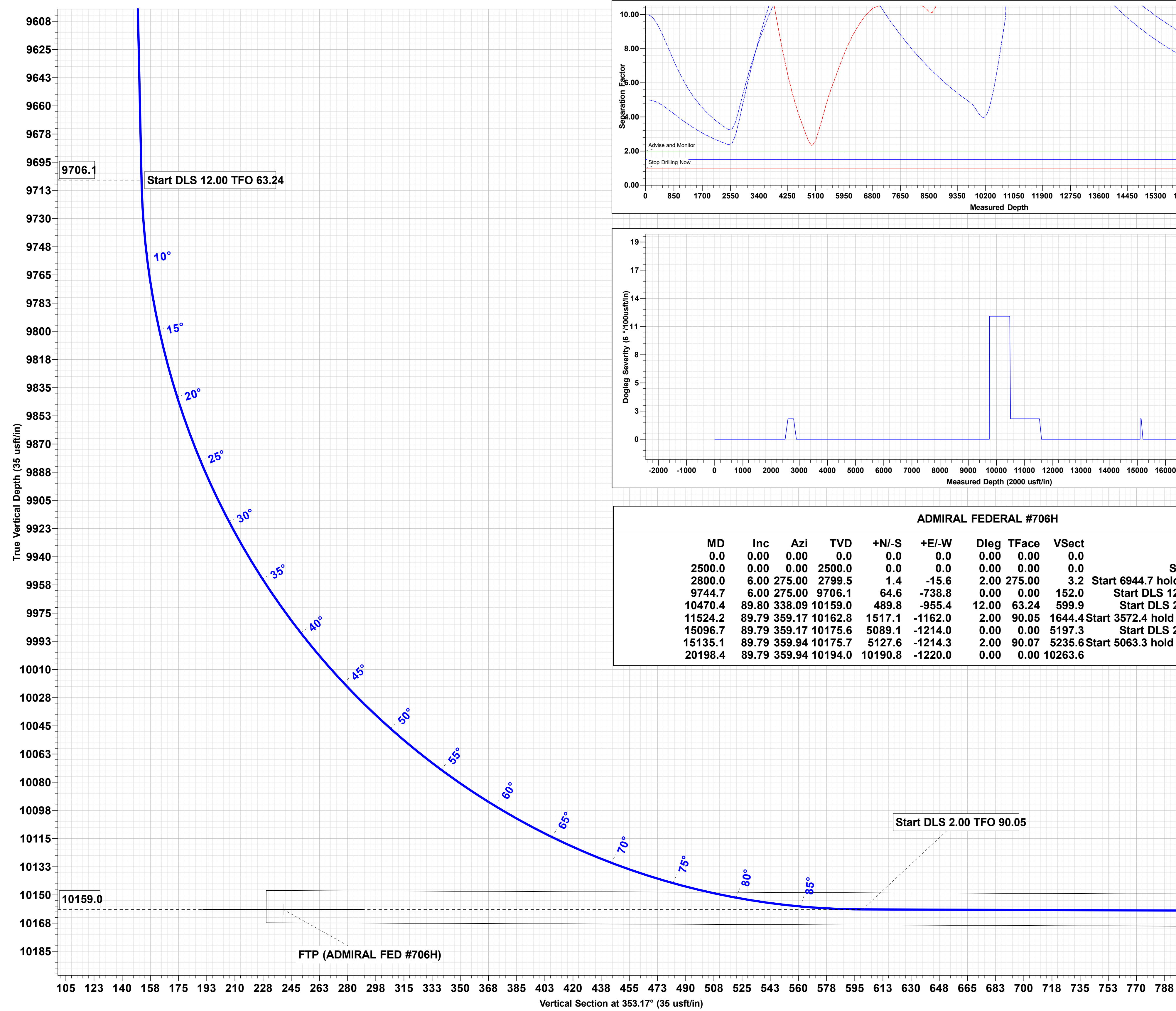
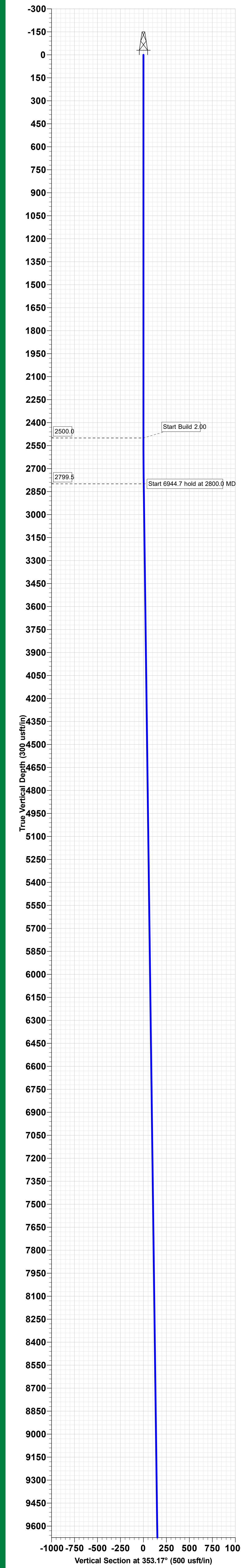
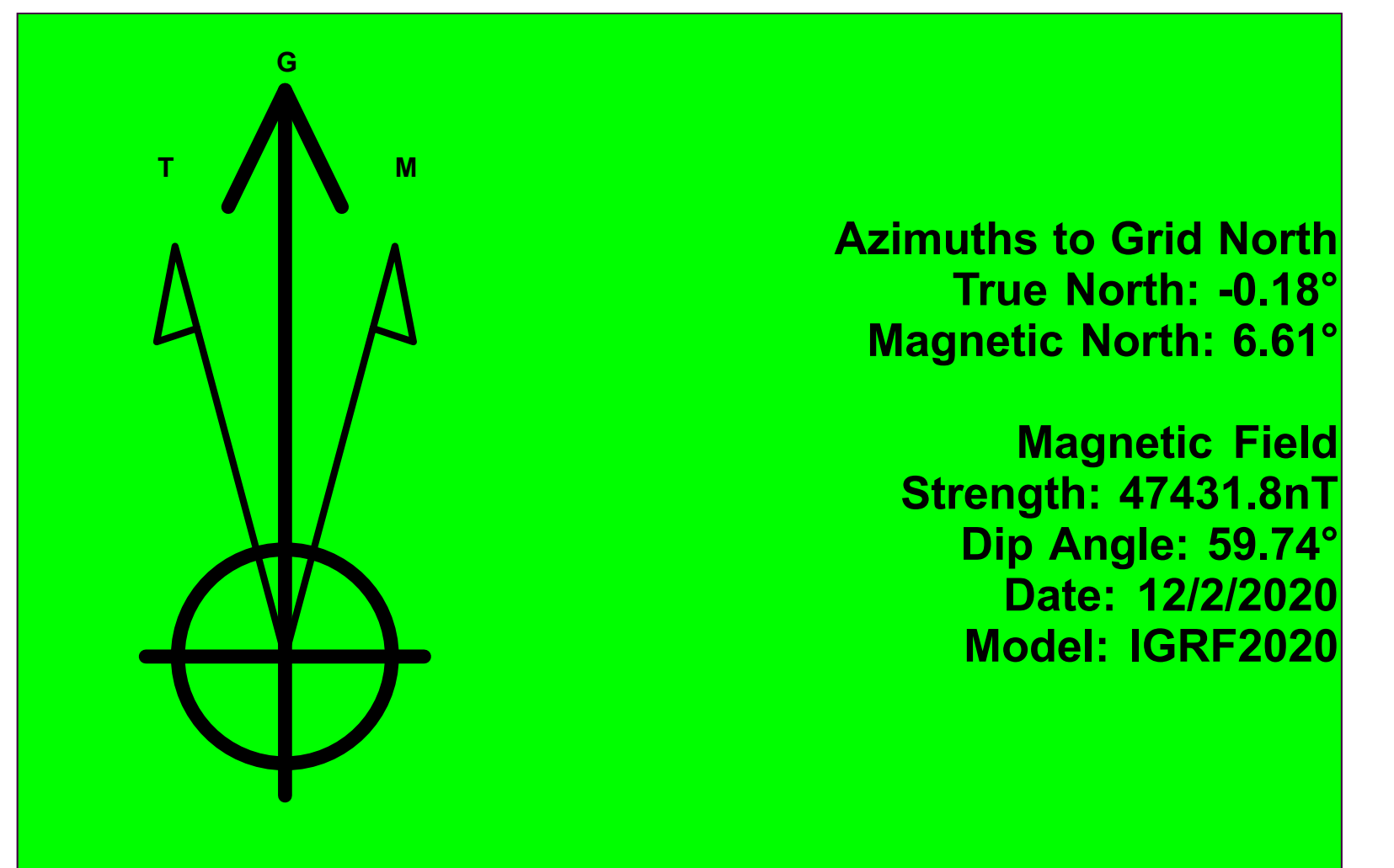
Checked By: _____ Approved By: _____ Date: _____

Project: ATLAS PROSPECT (NM-E)
Site: ADMIRAL FEDERAL PROJECT (ATLAS 2529)
Well: ADMIRAL FEDERAL #706H
Wellbore: OWS
Design: PWP1
GL: 2984.4
KB=25' @ 3009.4usft

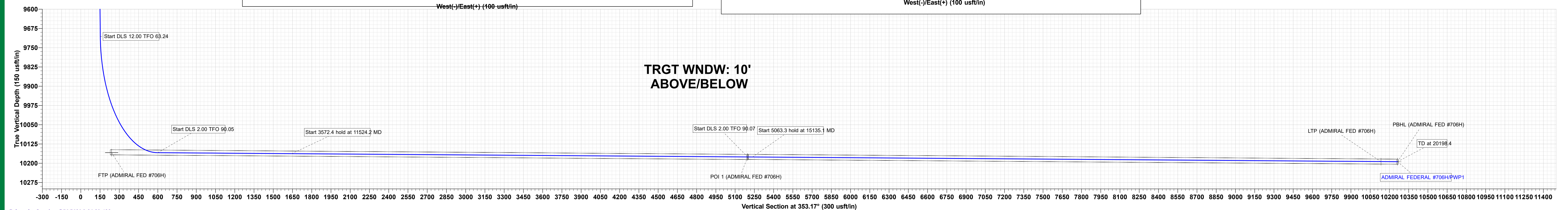
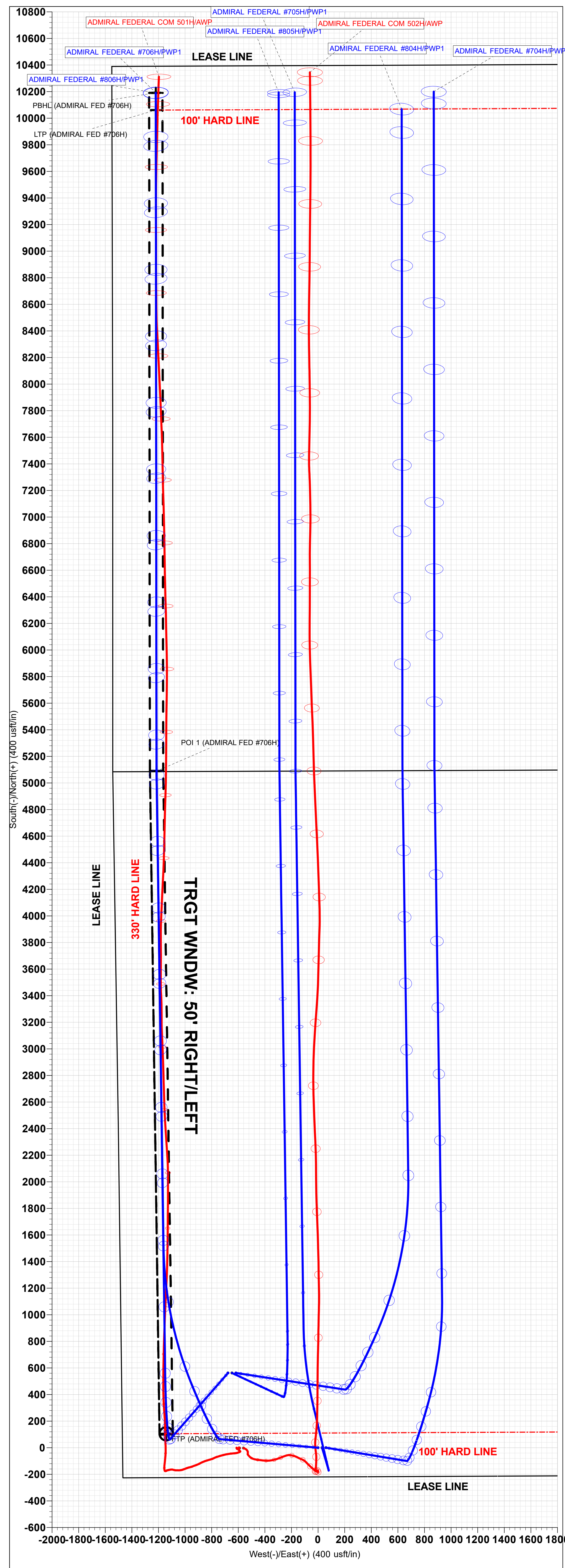
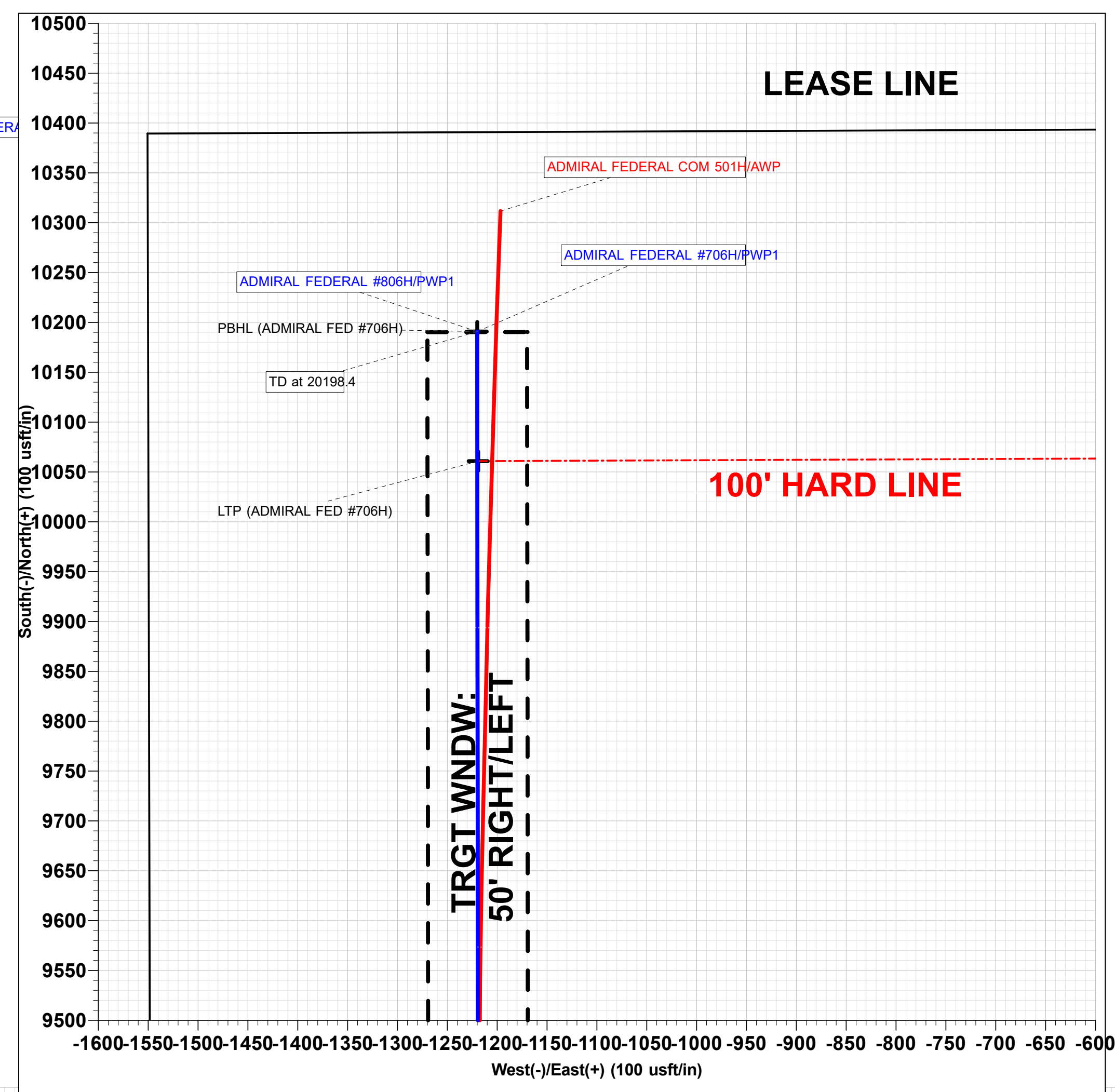
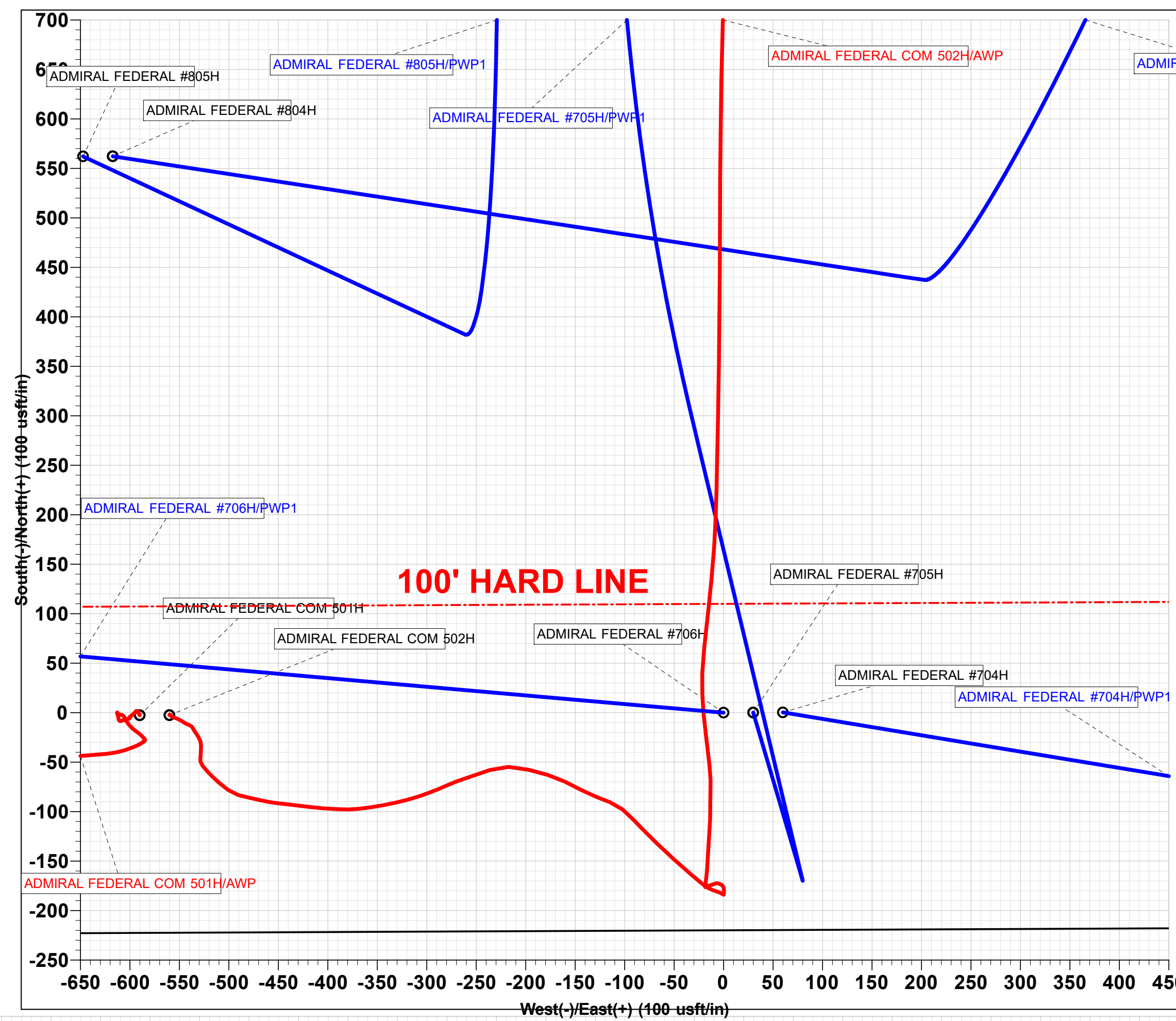


WELL DETAILS: ADMIRAL FEDERAL #706H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	398096.10	605507.40	32° 5' 38.486 N	103° 59' 33.482 W

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (ADMIRAL FED #706H)	10159.0	105.0	-1141.5	398201.10	604365.90	32° 5' 38.561 N	103° 59' 46.748 W
POI 1 (ADMIRAL FED #706H)	10175.6	5089.1	-1214.0	403185.21	604293.40	32° 6' 28.888 N	103° 59' 47.409 W
LTP (ADMIRAL FED #706H)	10194.0	10060.8	-1219.0	408156.90	604288.40	32° 7' 18.090 N	103° 59' 47.287 W
PBHL (ADMIRAL FED #706H)	10194.0	10190.8	-1220.0	408286.90	604287.40	32° 7' 19.376 N	103° 59' 47.294 W



ADMIRAL FEDERAL #706H									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start 6944.7 hold at 2800.0 MD
2800.0	6.00	275.00	2799.5	1.4	-15.6	2.00	275.00	3.2	Start DLS 12.00 TFO 63.24
9744.7	6.00	275.00	9706.1	64.6	-738.8	0.00	0.00	152.0	Start DLS 2.00 TFO 90.05
10470.4	89.80	338.09	10159.0	489.8	-955.4	12.00	63.24	599.9	Start DLS 2.00 TFO 90.05
11524.2	89.79	359.17	10162.8	1517.1	-1162.0	2.00	90.05	1644.4	Start 3572.4 hold at 11524.2 MD
15096.7	89.79	359.17	10175.6	5089.1	-1214.0	0.00	0.00	5197.3	Start DLS 2.00 TFO 90.07
15135.1	89.79	359.94	10175.7	5127.6	-1214.3	2.00	90.07	5235.6	Start 5063.3 hold at 15135.1 MD
20198.4	89.79	359.94	10194.0	10190.8	-1220.0	0.00	0.00	10263.6	TD at 20198.4



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG
LEASE NO.:	NMNM115414
LOCATION:	Section 28, T.25 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	Admiral Fed Com 706H
SURFACE HOLE FOOTAGE:	220'/S & 1470'/W
BOTTOM HOLE FOOTAGE:	200'/N & 330'/W

COA

H2S	☐ Yes	☒ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☐ Low	☒ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☒ COM	☐ Unit

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **10-3/4** inch surface casing shall be set at approximately **610** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8**

- hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above.
- Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. **Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).**
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)**Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.

- Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.

- c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
- a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - e. The results of the test shall be reported to the appropriate BLM office.

- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

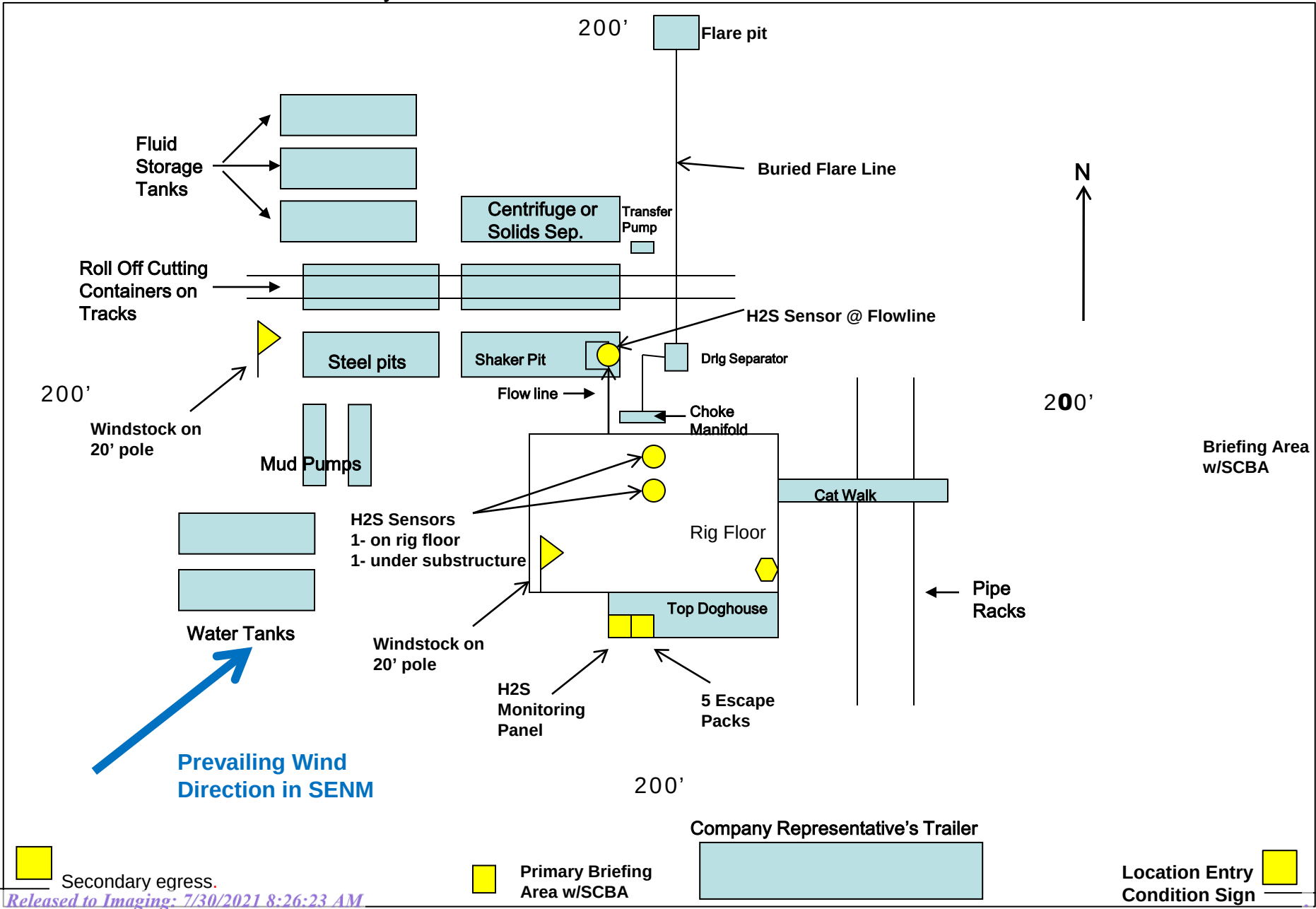
All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

ZS 062321

COG Operating LLC
H₂S Equipment Schematic
 Terrain: Shinnery sand hills.

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



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 (H₂S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H₂S 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 H₂S 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. H₂S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S 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 H₂S 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

	<u>OFFICE</u>	<u>MOBILE</u>
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

	<u>OFFICE</u>
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

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

COMMENTS

Action 38740

COMMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	38740
Action Type:	
[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)	

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 7/29/2021	7/29/2021

District I

1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II

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 Phone:(575) 748-1283 Fax:(575) 748-9720

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 Phone:(505) 334-6178 Fax:(505) 334-6170

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 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 38740

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 38740
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify OCD 24 hours prior to casing & cement	7/29/2021
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	7/29/2021
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	7/29/2021
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	7/29/2021
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	7/29/2021