

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

SUBMIT IN TRIPLICATE - Other instructions on page 2		5. Lease Serial No.
1. Type of Well ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator		7. If Unit of CA/Agreement, Name and/or No.
3a. Address	3b. Phone No. (include area code)	8. Well Name and No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)		9. API Well No.
		10. Field and Pool or Exploratory Area
		11. Country or Parish, State

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

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

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

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	Title	
Signature	Date	

THE SPACE FOR FEDERAL OR STATE OFFICE USE

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

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

(Instructions on page 2)

Additional Information

Location of Well

0. SHL: NENE / 210 FNL / 880 FEL / TWSP: 25S / RANGE: 29E / SECTION: 24 / LAT: 32.1222301 / LONG: -103.9322286 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 330 FNL / 440 FEL / TWSP: 25S / RANGE: 29E / SECTION: 24 / LAT: 32.1219067 / LONG: -103.930806 (TVD: 0 feet, MD: 0 feet)

BHL: SESE / 200 FSL / 440 FEL / TWSP: 25S / RANGE: 29E / SECTION: 25 / LAT: 32.0941422 / LONG: -103.9307149 (TVD: 0 feet, MD: 0 feet)

CONFIDENTIAL

District I

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

District II

811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III

1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

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

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-47665		2 Pool Code 98220		3 Pool Name Purple Sage; Wolfcamp (Gas)		
4 Property Code 329794		5 Property Name CABO WABO FEDERAL COM			6 Well Number 701H	
7 OGRID No. 217955		8 Operator Name COG PRODUCTION LLC			9 Elevation 3147'	

10 Surface Location

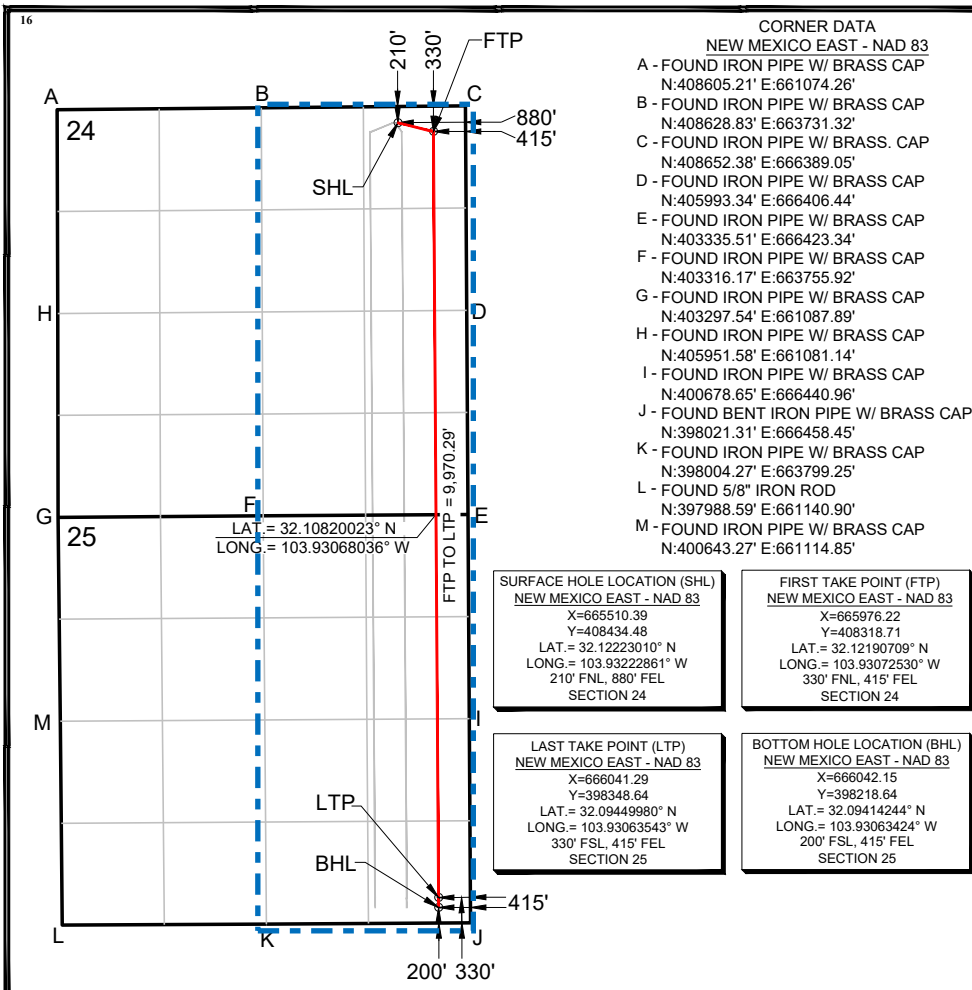
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	24	25-S	29-E		210'	NORTH	880'	EAST	EDDY

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	25	25-S	29-E		200'	SOUTH	415'	EAST	EDDY

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

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



17 OPERATOR CERTIFICATION

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

Stan Wagner 10/11/2021
Signature Date

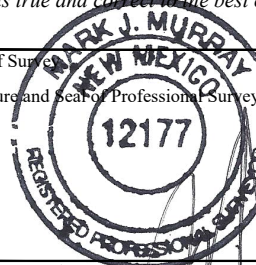
Stan Wagner
Printed Name

E-mail Address

18 SURVEYOR CERTIFICATION

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

Date of Survey
Signature and Seal of Professional Surveyor:



8/16/2021

Certificate Number

ConocoPhillips - Cabo Wabo Fed Com #701H

1. Geologic Formations

TVD of target	10,634' EOL	Pilot hole depth	NA
MD at TD:	20,809'	Deepest expected fresh water:	53'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	517	Water	
Top of Salt	904	Salt	
Base of Salt	3174	Salt	
Lamar	3387	Salt Water	
Bell Canyon	3432	Salt Water	
Cherry Canyon	4325	Oil/Gas	
Brushy Canyon	5554	Oil/Gas	
Bone Spring Lime	7216	Oil/Gas	
1st Bone Spring Sand	8185	Oil/Gas	
2nd Bone Spring Sand	8798	Oil/Gas	
3rd Bone Spring Sand	10130	Oil/Gas	
Wolfcamp A	10604	Target	
Wolfcamp B	0	Not Penetrated	
Wolfcamp D	0	Not Penetrated	

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	1350	10.75"	45.5	N80	BTC	4.00	1.67	16.93	17.86
9.875"	0	8500	7.625"	29.7	HCL80	BTC	1.56	1.25	2.88	2.90
8.750"	8500	10100	7.625"	29.7	P110 RY	W 513	1.56	1.67	3.13	1.88
6.75"	0	9600	5.5"	20	P110	BTC	2.33	2.75	3.80	3.77
6.75"	9600	20,809	5.5"	20	P110	W441	1.61	2.16	3.01	2.45
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. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and
All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

The 5 1/2" talon casing will be run back 200' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

ConocoPhillips - Cabo Wabo Fed Com #701H

	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.	Y
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?	

ConocoPhillips - Cabo Wabo Fed Com #701H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	644	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	770	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	446	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	1057	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

If losses are encountered in the intermediate section a DV/ECP tool will be run ~50' above the Lamar Lime top, cement will be adjusted accordingly if this contingency is necessary.

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	9,600'	35% OH in Lateral (KOP to EOL)

ConocoPhillips - Cabo Wabo Fed Com #701H

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:
9-7/8"	13-5/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	10M	5M Annular	x	5000psi
			Blind Ram	x	10000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		

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 valve (inside BOP) 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.

ConocoPhillips - Cabo Wabo Fed Com #701H

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	7-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 9	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 12.5	35-45	<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
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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.
Y	No 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	

ConocoPhillips - Cabo Wabo Fed Com #701H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	6915 psi at 10634' TVD
Abnormal Temperature	NO 165 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

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

CABO WABO FEDERAL PROJECT (ATLAS 2529)

CABO WABO FED COM #701H

OWB

PWP1

Anticollision Report

19 May, 2020

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #701H	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 1,000.0 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	5/19/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	20,895.9	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						
ATLAS						
CABO WABO 25 FEDERAL #3H - LATERAL 01 - AWP-L						Out of range
CABO WABO 25 FEDERAL #3H - OWB-PILOT HOLE -						Out of range
CABO WABO FEDERAL PROJECT (ATLAS 2529)						
CABO WABO FED COM #501H - OWB - PWP0	8,560.3	8,581.7	209.2	148.0	3.420	CC, ES
CABO WABO FED COM #501H - OWB - PWP0	8,600.0	8,613.1	210.0	148.6	3.420	SF
CABO WABO FED COM #502H - OWB - PWP0	2,414.5	2,420.5	377.6	359.7	21.100	CC
CABO WABO FED COM #502H - OWB - PWP0	2,500.0	2,505.6	377.6	359.2	20.442	ES
CABO WABO FED COM #502H - OWB - PWP0	7,500.0	7,440.6	991.7	938.7	18.708	SF
CABO WABO FED COM #702H - OWB - PWP1	2,500.0	2,499.0	30.0	11.5	1.622	Advise and Monitor, CC,
CABO WABO FED COM #703H - OWB - PWP1	2,500.0	2,499.0	59.9	47.2	4.722	CC, ES, SF
CABO WABO FED COM #801H - OWB - PWP0	2,500.0	2,501.0	260.0	247.3	20.499	CC, ES
CABO WABO FED COM #801H - OWB - PWP0	20,896.1	21,621.4	660.0	492.5	3.941	SF
CABO WABO FED COM #802H - OWB - PWP0	2,416.3	2,417.3	289.9	272.0	16.195	CC
CABO WABO FED COM #802H - OWB - PWP0	2,500.0	2,500.0	289.9	271.5	15.702	ES
CABO WABO FED COM #802H - OWB - PWP0	10,450.0	10,436.3	864.1	789.9	11.642	SF
CABO WABO FED COM #803H - OWB - PWP0	2,416.3	2,417.3	319.9	302.0	17.872	CC
CABO WABO FED COM #803H - OWB - PWP0	2,500.0	2,500.0	319.9	301.5	17.327	ES
CABO WABO FED COM #803H - OWB - PWP0	2,663.5	2,647.8	328.5	309.0	16.867	SF

Offset Design	CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #501H - OWB - PWP0										Offset Site Error:	3.0 usft
Survey Program:	0-MWD+IFR1+FDIR										Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-125.04	-202.4	-288.5	352.4			
100.0	100.0	100.0	100.0	3.0	3.0	-125.04	-202.4	-288.5	352.4	346.4	6.01	58.686
200.0	200.0	200.0	200.0	3.0	3.0	-125.04	-202.4	-288.5	352.4	346.4	6.08	57.981
300.0	300.0	300.0	300.0	3.1	3.1	-125.04	-202.4	-288.5	352.4	346.2	6.23	56.539
400.0	400.0	400.0	400.0	3.2	3.2	-125.04	-202.4	-288.5	352.4	346.0	6.46	54.516
500.0	500.0	500.0	500.0	3.4	3.4	-125.04	-202.4	-288.5	352.4	345.7	6.76	52.100
600.0	600.0	600.0	600.0	3.6	3.6	-125.04	-202.4	-288.5	352.4	345.3	7.12	49.471
700.0	700.0	700.0	700.0	3.8	3.8	-125.04	-202.4	-288.5	352.4	344.9	7.53	46.774

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:	CABO WABO FED COM #701H	Survey Calculation Method:	Minimum Curvature
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Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #501H - OWB - PWP0													Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	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
800.0	800.0	800.0	800.0	4.0	4.0	-125.04	-125.04	-202.4	-288.5	352.4	344.4	7.99	44.115	
900.0	900.0	900.0	900.0	4.2	4.2	-125.04	-125.04	-202.4	-288.5	352.4	344.0	8.48	41.563	
1,000.0	1,000.0	1,000.0	1,000.0	4.5	4.5	-125.04	-125.04	-202.4	-288.5	352.4	343.4	9.00	39.158	
1,100.0	1,100.0	1,100.0	1,100.0	4.8	4.8	-125.04	-125.04	-202.4	-288.5	352.4	342.9	9.55	36.917	
1,200.0	1,200.0	1,200.0	1,200.0	5.1	5.1	-125.04	-125.04	-202.4	-288.5	352.4	342.3	10.11	34.845	
1,300.0	1,300.0	1,300.0	1,300.0	5.4	5.3	-125.04	-125.04	-202.4	-288.5	352.4	341.7	10.70	32.937	
1,400.0	1,400.0	1,400.0	1,400.0	5.7	5.6	-125.04	-125.04	-202.4	-288.5	352.4	341.1	11.30	31.186	
1,500.0	1,500.0	1,500.0	1,500.0	6.0	6.0	-125.04	-125.04	-202.4	-288.5	352.4	340.5	11.91	29.580	
1,600.0	1,600.0	1,600.0	1,600.0	6.3	6.3	-125.04	-125.04	-202.4	-288.5	352.4	339.9	12.54	28.107	
1,700.0	1,700.0	1,700.0	1,700.0	6.6	6.6	-125.04	-125.04	-202.4	-288.5	352.4	339.3	13.17	26.754	
1,800.0	1,800.0	1,800.0	1,800.0	6.9	6.9	-125.04	-125.04	-202.4	-288.5	352.4	338.6	13.82	25.511	
1,900.0	1,900.0	1,900.0	1,900.0	7.2	7.2	-125.04	-125.04	-202.4	-288.5	352.4	338.0	14.46	24.366	
2,000.0	2,000.0	2,000.0	2,000.0	7.6	7.6	-125.04	-125.04	-202.4	-288.5	352.4	337.3	15.12	23.310	
2,100.0	2,100.0	2,100.0	2,100.0	7.9	7.9	-125.04	-125.04	-202.4	-288.5	352.4	336.7	15.78	22.334	
2,200.0	2,200.0	2,200.0	2,200.0	8.2	8.2	-125.04	-125.04	-202.4	-288.5	352.4	336.0	16.45	21.430	
2,300.0	2,300.0	2,300.0	2,300.0	8.6	8.6	-125.04	-125.04	-202.4	-288.5	352.4	335.3	17.12	20.592	
2,400.0	2,400.0	2,400.0	2,400.0	8.9	8.9	-125.04	-125.04	-202.4	-288.5	352.4	334.6	17.79	19.813	
2,500.0	2,500.0	2,500.0	2,500.0	9.2	9.2	-125.04	-125.04	-202.4	-288.5	352.4	334.0	18.46	19.087	
2,600.0	2,600.0	2,613.5	2,613.4	9.6	9.6	164.95	164.95	-201.6	-286.4	352.2	333.0	19.17	18.377	
2,663.5	2,663.4	2,685.5	2,685.4	9.8	9.8	164.93	164.93	-200.3	-282.9	351.8	332.2	19.59	17.957	
2,700.0	2,699.9	2,726.9	2,726.7	9.9	10.0	164.90	164.90	-199.3	-280.1	351.3	331.5	19.83	17.712	
2,800.0	2,799.7	2,828.1	2,827.6	10.2	10.3	164.79	164.79	-196.4	-272.3	348.8	328.3	20.50	17.018	
2,900.0	2,899.5	2,928.1	2,927.2	10.6	10.7	164.68	164.68	-193.6	-264.5	346.3	325.2	21.17	16.362	
3,000.0	2,999.4	3,028.1	3,026.8	10.9	11.0	164.57	164.57	-190.8	-256.7	343.8	322.0	21.84	15.744	
3,100.0	3,099.2	3,128.0	3,126.4	11.2	11.3	164.45	164.45	-187.9	-248.9	341.4	318.8	22.52	15.161	
3,200.0	3,199.0	3,228.0	3,226.1	11.6	11.7	164.34	164.34	-185.1	-241.1	338.9	315.7	23.19	14.610	
3,300.0	3,298.9	3,328.0	3,325.7	11.9	12.0	164.22	164.22	-182.3	-233.4	336.4	312.5	23.88	14.089	
3,400.0	3,398.7	3,427.9	3,425.3	12.3	12.4	164.10	164.10	-179.4	-225.6	333.9	309.3	24.56	13.596	
3,500.0	3,498.5	3,527.9	3,524.9	12.6	12.7	163.97	163.97	-176.6	-217.8	331.4	306.2	25.25	13.128	
3,600.0	3,598.4	3,627.9	3,624.6	13.0	13.0	163.85	163.85	-173.8	-210.0	328.9	303.0	25.93	12.684	
3,700.0	3,698.2	3,727.8	3,724.2	13.3	13.4	163.72	163.72	-170.9	-202.2	326.5	299.8	26.62	12.262	
3,800.0	3,798.1	3,827.8	3,823.8	13.6	13.7	163.60	163.60	-168.1	-194.5	324.0	296.7	27.32	11.860	
3,900.0	3,897.9	3,927.8	3,923.4	14.0	14.1	163.47	163.47	-165.3	-186.7	321.5	293.5	28.01	11.478	
4,000.0	3,997.7	4,027.7	4,023.0	14.3	14.4	163.33	163.33	-162.5	-178.9	319.0	290.3	28.70	11.114	
4,100.0	4,097.6	4,127.7	4,122.7	14.7	14.8	163.20	163.20	-159.6	-171.1	316.5	287.1	29.40	10.766	
4,200.0	4,197.4	4,227.7	4,222.3	15.0	15.1	163.06	163.06	-156.8	-163.3	314.1	284.0	30.10	10.435	
4,300.0	4,297.2	4,327.6	4,321.9	15.4	15.5	162.93	162.93	-154.0	-155.6	311.6	280.8	30.80	10.117	
4,400.0	4,397.1	4,427.6	4,421.5	15.7	15.8	162.78	162.78	-151.1	-147.8	309.1	277.6	31.50	9.814	
4,500.0	4,496.9	4,527.6	4,521.2	16.1	16.2	162.64	162.64	-148.3	-140.0	306.7	274.5	32.20	9.524	
4,600.0	4,596.8	4,627.5	4,620.8	16.4	16.5	162.50	162.50	-145.5	-132.2	304.2	271.3	32.90	9.245	
4,700.0	4,696.6	4,727.5	4,720.4	16.8	16.9	162.35	162.35	-142.6	-124.5	301.7	268.1	33.61	8.979	
4,800.0	4,796.4	4,827.5	4,820.0	17.1	17.2	162.20	162.20	-139.8	-116.7	299.3	265.0	34.31	8.722	
4,900.0	4,896.3	4,927.4	4,919.7	17.5	17.6	162.05	162.05	-137.0	-108.9	296.8	261.8	35.02	8.477	
5,000.0	4,996.1	5,027.4	5,019.3	17.8	18.0	161.89	161.89	-134.1	-101.1	294.4	258.6	35.72	8.240	
5,100.0	5,095.9	5,127.4	5,118.9	18.2	18.3	161.73	161.73	-131.3	-93.3	291.9	255.5	36.43	8.013	
5,200.0	5,195.8	5,227.3	5,218.5	18.5	18.7	161.57	161.57	-128.5	-85.6	289.5	252.3	37.14	7.794	
5,300.0	5,295.6	5,327.3	5,318.1	18.9	19.0	161.41	161.41	-125.6	-77.8	287.0	249.2	37.85	7.584	
5,400.0	5,395.5	5,427.3	5,417.8	19.2	19.4	161.25	161.25	-122.8	-70.0	284.6	246.0	38.56	7.381	
5,500.0	5,495.3	5,527.2	5,517.4	19.6	19.7	161.08	161.08	-120.0	-62.2	282.1	242.9	39.27	7.185	
5,600.0	5,595.1	5,627.2	5,617.0	20.0	20.1	160.91	160.91	-117.2	-54.4	279.7	239.7	39.98	6.996	
5,700.0	5,695.0	5,727.2	5,716.6	20.3	20.4	160.73	160.73	-114.3	-46.7	277.2	236.6	40.69	6.814	

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 CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #701H	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 CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #501H - OWB - PWP0												Offset Site Error:	3.0 usft	
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	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
5,800.0	5,794.8	5,827.1	5,816.3	20.7	20.8	160.55		-111.5	-38.9	274.8	233.4	41.40	6.638	
5,900.0	5,894.6	5,927.1	5,915.9	21.0	21.1	160.37		-108.7	-31.1	272.4	230.3	42.11	6.468	
6,000.0	5,994.5	6,027.1	6,015.5	21.4	21.5	160.19		-105.8	-23.3	269.9	227.1	42.82	6.304	
6,100.0	6,094.3	6,127.0	6,115.1	21.7	21.9	160.00		-103.0	-15.5	267.5	224.0	43.53	6.145	
6,200.0	6,194.2	6,227.0	6,214.8	22.1	22.2	159.81		-100.2	-7.8	265.1	220.8	44.25	5.991	
6,300.0	6,294.0	6,327.0	6,314.4	22.4	22.6	159.61		-97.3	0.0	262.7	217.7	44.96	5.842	
6,400.0	6,393.8	6,426.9	6,414.0	22.8	22.9	159.42		-94.5	7.8	260.2	214.6	45.67	5.698	
6,500.0	6,493.7	6,526.9	6,513.6	23.1	23.3	159.22		-91.7	15.6	257.8	211.4	46.39	5.558	
6,600.0	6,593.5	6,626.9	6,613.2	23.5	23.6	159.01		-88.8	23.3	255.4	208.3	47.10	5.422	
6,700.0	6,693.3	6,726.8	6,712.9	23.9	24.0	158.80		-86.0	31.1	253.0	205.2	47.82	5.291	
6,800.0	6,793.2	6,826.8	6,812.5	24.2	24.4	158.59		-83.2	38.9	250.6	202.1	48.53	5.163	
6,900.0	6,893.0	6,926.8	6,912.1	24.6	24.7	158.37		-80.3	46.7	248.2	198.9	49.25	5.040	
7,000.0	6,992.9	7,026.7	7,011.7	24.9	25.1	158.15		-77.5	54.5	245.8	195.8	49.97	4.919	
7,100.0	7,092.7	7,126.7	7,111.4	25.3	25.4	157.92		-74.7	62.2	243.4	192.7	50.68	4.802	
7,200.0	7,192.5	7,226.7	7,211.0	25.6	25.8	157.69		-71.9	70.0	241.0	189.6	51.40	4.689	
7,300.0	7,292.4	7,326.6	7,310.6	26.0	26.2	157.45		-69.0	77.8	238.6	186.5	52.12	4.579	
7,400.0	7,392.2	7,426.6	7,410.2	26.4	26.5	157.21		-66.2	85.6	236.2	183.4	52.83	4.471	
7,500.0	7,492.0	7,526.6	7,509.9	26.7	26.9	156.97		-63.4	93.4	233.9	180.3	53.55	4.367	
7,600.0	7,591.9	7,626.5	7,609.5	27.1	27.2	156.72		-60.5	101.1	231.5	177.2	54.27	4.266	
7,700.0	7,691.7	7,726.5	7,709.1	27.4	27.6	156.46		-57.7	108.9	229.1	174.1	54.99	4.167	
7,800.0	7,791.5	7,826.5	7,808.7	27.8	28.0	156.20		-54.9	116.7	226.7	171.0	55.70	4.071	
7,900.0	7,891.4	7,926.4	7,908.4	28.1	28.3	155.94		-52.0	124.5	224.4	168.0	56.42	3.977	
8,000.0	7,991.2	8,026.4	8,008.0	28.5	28.7	155.67		-49.2	132.2	222.0	164.9	57.14	3.886	
8,100.0	8,091.1	8,126.4	8,107.6	28.9	29.0	155.39		-46.4	140.0	219.7	161.8	57.86	3.797	
8,200.0	8,190.9	8,226.3	8,207.2	29.2	29.4	155.10		-43.5	147.8	217.3	158.8	58.58	3.710	
8,300.0	8,290.7	8,326.3	8,306.8	29.6	29.8	154.81		-40.7	155.6	215.0	155.7	59.30	3.626	
8,400.0	8,390.6	8,426.3	8,406.5	29.9	30.1	154.52		-37.9	163.4	212.7	152.6	60.02	3.543	
8,500.0	8,490.4	8,526.2	8,506.1	30.3	30.5	154.22		-35.0	171.1	210.3	149.6	60.74	3.463	
8,560.3	8,550.6	8,581.7	8,561.4	30.5	30.7	153.99		-33.8	175.5	209.2	148.0	61.17	3.420 CC, ES	
8,600.0	8,590.2	8,613.1	8,592.6	30.6	30.8	153.53		-34.8	177.9	210.0	148.6	61.41	3.420 SF	
8,700.0	8,690.1	8,690.5	8,669.2	31.0	31.0	151.11		-44.5	183.9	219.2	157.6	61.61	3.557	
8,800.0	8,789.9	8,763.7	8,739.7	31.4	31.3	147.50		-63.2	189.5	239.2	178.1	61.17	3.911	
8,900.0	8,889.8	8,830.9	8,801.8	31.7	31.5	143.58		-88.1	194.5	270.6	210.5	60.03	4.507	
9,000.0	8,989.6	8,891.1	8,854.6	32.1	31.6	139.95		-116.5	198.8	312.6	254.3	58.36	5.357	
9,100.0	9,089.4	8,950.0	8,903.2	32.4	31.8	136.54		-149.6	202.7	364.3	307.5	56.81	6.413	
9,200.0	9,189.3	9,000.0	8,941.7	32.8	31.9	133.87		-181.4	205.9	424.1	369.1	55.02	7.709	
9,300.0	9,289.1	9,031.3	8,964.2	33.2	32.0	132.33		-203.0	207.8	490.3	437.7	52.53	9.334	
9,400.0	9,388.9	9,066.6	8,988.2	33.5	32.1	130.71		-228.8	209.8	561.9	511.1	50.81	11.059	
9,500.0	9,488.8	9,100.0	9,009.4	33.9	32.1	129.31		-254.5	211.6	637.8	588.4	49.42	12.906	
9,600.0	9,588.6	9,124.4	9,024.0	34.2	32.2	128.36		-274.1	212.8	717.2	669.3	47.99	14.946	
9,700.0	9,688.5	9,150.0	9,038.3	34.6	32.2	127.43		-295.3	214.0	799.5	752.6	46.96	17.026	
9,800.0	9,788.3	9,169.1	9,048.4	34.9	32.3	126.77		-311.4	214.9	884.1	838.1	45.95	19.241	
9,900.0	9,888.1	9,200.0	9,063.5	35.3	32.3	125.78		-338.3	216.2	970.8	925.2	45.58	21.297	

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 CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #701H	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 CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #502H - OWB - PWP0												Offset Site Error:	3.0 usft	
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	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	6.0	6.0	3.0	3.0	-122.48		-202.8	-318.5	377.6				
100.0	100.0	106.0	106.0	3.0	3.0	-122.48		-202.8	-318.5	377.6	371.6	6.01	62.875	
200.0	200.0	206.0	206.0	3.0	3.0	-122.48		-202.8	-318.5	377.6	371.5	6.08	62.107	
300.0	300.0	306.0	306.0	3.1	3.1	-122.48		-202.8	-318.5	377.6	371.4	6.24	60.551	
400.0	400.0	406.0	406.0	3.2	3.2	-122.48		-202.8	-318.5	377.6	371.2	6.47	58.375	
500.0	500.0	506.0	506.0	3.4	3.4	-122.48		-202.8	-318.5	377.6	370.9	6.77	55.782	
600.0	600.0	606.0	606.0	3.6	3.6	-122.48		-202.8	-318.5	377.6	370.5	7.13	52.963	
700.0	700.0	706.0	706.0	3.8	3.8	-122.48		-202.8	-318.5	377.6	370.1	7.54	50.073	
800.0	800.0	806.0	806.0	4.0	4.0	-122.48		-202.8	-318.5	377.6	369.6	8.00	47.225	
900.0	900.0	906.0	906.0	4.2	4.2	-122.48		-202.8	-318.5	377.6	369.1	8.49	44.493	
1,000.0	1,000.0	1,006.0	1,006.0	4.5	4.5	-122.48		-202.8	-318.5	377.6	368.6	9.01	41.919	
1,100.0	1,100.0	1,106.0	1,106.0	4.8	4.8	-122.48		-202.8	-318.5	377.6	368.1	9.56	39.520	
1,200.0	1,200.0	1,206.0	1,206.0	5.1	5.1	-122.48		-202.8	-318.5	377.6	367.5	10.12	37.303	
1,300.0	1,300.0	1,306.0	1,306.0	5.4	5.4	-122.48		-202.8	-318.5	377.6	366.9	10.71	35.262	
1,400.0	1,400.0	1,406.0	1,406.0	5.7	5.7	-122.48		-202.8	-318.5	377.6	366.3	11.31	33.388	
1,500.0	1,500.0	1,506.0	1,506.0	6.0	6.0	-122.48		-202.8	-318.5	377.6	365.7	11.92	31.669	
1,600.0	1,600.0	1,606.0	1,606.0	6.3	6.3	-122.48		-202.8	-318.5	377.6	365.1	12.55	30.093	
1,700.0	1,700.0	1,706.0	1,706.0	6.6	6.6	-122.48		-202.8	-318.5	377.6	364.4	13.18	28.645	
1,800.0	1,800.0	1,806.0	1,806.0	6.9	6.9	-122.48		-202.8	-318.5	377.6	363.8	13.82	27.314	
1,900.0	1,900.0	1,906.0	1,906.0	7.2	7.2	-122.48		-202.8	-318.5	377.6	363.1	14.47	26.089	
2,000.0	2,000.0	2,006.0	2,006.0	7.6	7.6	-122.48		-202.8	-318.5	377.6	362.5	15.13	24.959	
2,100.0	2,100.0	2,106.0	2,106.0	7.9	7.9	-122.48		-202.8	-318.5	377.6	361.8	15.79	23.915	
2,200.0	2,200.0	2,206.0	2,206.0	8.2	8.2	-122.48		-202.8	-318.5	377.6	361.2	16.46	22.948	
2,300.0	2,300.0	2,306.0	2,306.0	8.6	8.6	-122.48		-202.8	-318.5	377.6	360.5	17.13	22.051	
2,400.0	2,400.0	2,406.0	2,406.0	8.9	8.9	-122.48		-202.8	-318.5	377.6	359.8	17.80	21.216	
2,414.5	2,414.5	2,420.5	2,420.5	8.9	9.0	-122.48		-202.8	-318.5	377.6	359.7	17.90	21.100 CC	
2,500.0	2,500.0	2,505.6	2,505.6	9.2	9.2	-122.48		-202.8	-318.6	377.6	359.2	18.47	20.442 ES	
2,600.0	2,600.0	2,600.0	2,600.0	9.6	9.6	167.77		-202.2	-320.2	380.4	361.3	19.12	19.896	
2,663.5	2,663.4	2,656.5	2,656.4	9.8	9.7	168.13		-201.3	-322.6	385.0	365.5	19.51	19.734	
2,700.0	2,699.9	2,690.0	2,689.8	9.9	9.9	168.43		-200.6	-324.5	388.4	368.7	19.74	19.680	
2,800.0	2,799.7	2,784.0	2,783.5	10.2	10.2	169.44		-198.0	-331.6	399.1	378.7	20.37	19.594	
2,900.0	2,899.5	2,883.0	2,882.2	10.6	10.5	170.52		-195.1	-339.7	410.3	389.3	21.03	19.511	
3,000.0	2,999.4	2,982.1	2,980.9	10.9	10.8	171.54		-192.1	-347.8	421.6	400.0	21.69	19.437	
3,100.0	3,099.2	3,081.2	3,079.6	11.2	11.2	172.51		-189.2	-355.9	433.1	410.8	22.36	19.371	
3,200.0	3,199.0	3,180.3	3,178.3	11.6	11.5	173.44		-186.2	-364.0	444.7	421.7	23.03	19.310	
3,300.0	3,298.9	3,279.3	3,277.0	11.9	11.8	174.31		-183.3	-372.1	456.4	432.7	23.70	19.256	
3,400.0	3,398.7	3,378.4	3,375.7	12.3	12.2	175.14		-180.3	-380.3	468.2	443.9	24.38	19.207	
3,500.0	3,498.5	3,477.5	3,474.4	12.6	12.5	175.93		-177.4	-388.4	480.1	455.1	25.06	19.163	
3,600.0	3,598.4	3,576.6	3,573.1	13.0	12.9	176.68		-174.4	-396.5	492.1	466.4	25.74	19.122	
3,700.0	3,698.2	3,675.7	3,671.8	13.3	13.2	177.40		-171.5	-404.6	504.2	477.8	26.42	19.086	
3,800.0	3,798.1	3,774.7	3,770.5	13.6	13.6	178.08		-168.5	-412.7	516.3	489.2	27.10	19.053	
3,900.0	3,897.9	3,873.8	3,869.2	14.0	13.9	178.73		-165.6	-420.8	528.5	500.8	27.79	19.022	
4,000.0	3,997.7	3,972.9	3,967.9	14.3	14.2	179.35		-162.6	-428.9	540.8	512.3	28.47	18.995	
4,100.0	4,097.6	4,072.0	4,066.6	14.7	14.6	179.94		-159.7	-437.1	553.1	524.0	29.16	18.970	
4,200.0	4,197.4	4,171.0	4,165.3	15.0	14.9	-179.49		-156.7	-445.2	565.5	535.7	29.85	18.947	
4,300.0	4,297.2	4,270.1	4,264.0	15.4	15.3	-178.95		-153.7	-453.3	578.0	547.4	30.54	18.926	
4,400.0	4,397.1	4,369.2	4,362.7	15.7	15.6	-178.42		-150.8	-461.4	590.5	559.2	31.23	18.907	
4,500.0	4,496.9	4,468.3	4,461.4	16.1	16.0	-177.93		-147.8	-469.5	603.0	571.1	31.92	18.889	
4,600.0	4,496.8	4,567.3	4,560.1	16.4	16.3	-177.45		-144.9	-477.6	615.6	583.0	32.62	18.873	
4,700.0	4,496.6	4,666.4	4,658.8	16.8	16.7	-176.99		-141.9	-485.7	628.2	594.9	33.31	18.858	
4,800.0	4,796.4	4,765.5	4,757.5	17.1	17.0	-176.54		-139.0	-493.9	640.9	606.9	34.01	18.845	

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 CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #701H	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		CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #502H - OWB - PWP0										Offset Site Error:		3.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:		3.0 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.0	4,896.3	4,864.6	4,856.2	17.5	17.4	-176.12	-136.0	-502.0	653.6	618.9	34.70	18.833		
5,000.0	4,996.1	4,963.6	4,954.9	17.8	17.7	-175.71	-133.1	-510.1	666.3	630.9	35.40	18.821		
5,100.0	5,095.9	5,062.7	5,053.6	18.2	18.1	-175.32	-130.1	-518.2	679.1	643.0	36.10	18.811		
5,200.0	5,195.8	5,161.8	5,152.3	18.5	18.4	-174.94	-127.2	-526.3	691.9	655.1	36.80	18.801		
5,300.0	5,295.6	5,260.9	5,251.0	18.9	18.8	-174.58	-124.2	-534.4	704.7	667.2	37.50	18.792		
5,400.0	5,395.5	5,360.0	5,349.7	19.2	19.1	-174.22	-121.3	-542.5	717.5	679.3	38.20	18.784		
5,500.0	5,495.3	5,459.0	5,448.4	19.6	19.5	-173.88	-118.3	-550.7	730.4	691.5	38.90	18.777		
5,600.0	5,595.1	5,558.1	5,547.1	20.0	19.8	-173.56	-115.4	-558.8	743.3	703.7	39.60	18.770		
5,700.0	5,695.0	5,657.2	5,645.8	20.3	20.2	-173.24	-112.4	-566.9	756.2	715.9	40.30	18.764		
5,800.0	5,794.8	5,756.3	5,744.5	20.7	20.5	-172.93	-109.4	-575.0	769.2	728.2	41.00	18.758		
5,900.0	5,894.6	5,855.3	5,843.2	21.0	20.9	-172.64	-106.5	-583.1	782.1	740.4	41.71	18.753		
6,000.0	5,994.5	5,954.4	5,941.9	21.4	21.3	-172.35	-103.5	-591.2	795.1	752.7	42.41	18.748		
6,100.0	6,094.3	6,053.5	6,040.6	21.7	21.6	-172.08	-100.6	-599.3	808.1	765.0	43.11	18.743		
6,200.0	6,194.2	6,152.6	6,139.3	22.1	22.0	-171.81	-97.6	-607.5	821.1	777.3	43.82	18.739		
6,300.0	6,294.0	6,251.6	6,238.0	22.4	22.3	-171.55	-94.7	-615.6	834.2	789.6	44.52	18.735		
6,400.0	6,393.8	6,350.7	6,336.7	22.8	22.7	-171.30	-91.7	-623.7	847.2	802.0	45.23	18.732		
6,500.0	6,493.7	6,449.8	6,435.4	23.1	23.0	-171.05	-88.8	-631.8	860.3	814.4	45.94	18.728		
6,600.0	6,593.5	6,548.9	6,534.1	23.5	23.4	-170.81	-85.8	-639.9	873.4	826.7	46.64	18.726		
6,700.0	6,693.3	6,647.9	6,632.8	23.9	23.7	-170.58	-82.9	-648.0	886.5	839.1	47.35	18.723		
6,800.0	6,793.2	6,747.0	6,731.5	24.2	24.1	-170.36	-79.9	-656.1	899.6	851.5	48.05	18.720		
6,900.0	6,893.0	6,846.1	6,830.2	24.6	24.5	-170.14	-77.0	-664.3	912.7	864.0	48.76	18.718		
7,000.0	6,992.9	6,945.2	6,928.9	24.9	24.8	-169.93	-74.0	-672.4	925.9	876.4	49.47	18.716		
7,100.0	7,092.7	7,044.3	7,027.6	25.3	25.2	-169.73	-71.1	-680.5	939.0	888.8	50.18	18.714		
7,200.0	7,192.5	7,143.3	7,126.3	25.6	25.5	-169.53	-68.1	-688.6	952.2	901.3	50.88	18.712		
7,300.0	7,292.4	7,242.4	7,225.0	26.0	25.9	-169.34	-65.1	-696.7	965.3	913.7	51.59	18.711		
7,400.0	7,392.2	7,341.5	7,323.7	26.4	26.2	-169.15	-62.2	-704.8	978.5	926.2	52.30	18.709		
7,500.0	7,492.0	7,440.6	7,422.4	26.7	26.6	-168.96	-59.2	-712.9	991.7	938.7	53.01	18.708 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 CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #701H	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 CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #702H - OWB - PWP1												Offset Site Error:	3.0 usft	
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	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	0.0	0.0	3.0	3.0	-90.44		-0.2	-30.0	30.0				
100.0	100.0	99.0	99.0	3.0	3.0	-90.44		-0.2	-30.0	30.0	24.0	6.01	4.989	
200.0	200.0	199.0	199.0	3.0	3.0	-90.44		-0.2	-30.0	30.0	23.9	6.08	4.929	
300.0	300.0	299.0	299.0	3.1	3.1	-90.44		-0.2	-30.0	30.0	23.7	6.23	4.806	
400.0	400.0	399.0	399.0	3.2	3.2	-90.44		-0.2	-30.0	30.0	23.5	6.47	4.634	
500.0	500.0	499.0	499.0	3.4	3.4	-90.44		-0.2	-30.0	30.0	23.2	6.77	4.429	
600.0	600.0	599.0	599.0	3.6	3.6	-90.44		-0.2	-30.0	30.0	22.8	7.13	4.205	
700.0	700.0	699.0	699.0	3.8	3.8	-90.44		-0.2	-30.0	30.0	22.4	7.54	3.976	
800.0	800.0	799.0	799.0	4.0	4.0	-90.44		-0.2	-30.0	30.0	22.0	7.99	3.750	
900.0	900.0	899.0	899.0	4.2	4.2	-90.44		-0.2	-30.0	30.0	21.5	8.48	3.533	
1,000.0	1,000.0	999.0	999.0	4.5	4.5	-90.44		-0.2	-30.0	30.0	21.0	9.00	3.328	
1,100.0	1,100.0	1,099.0	1,099.0	4.8	4.8	-90.44		-0.2	-30.0	30.0	20.4	9.55	3.138	
1,200.0	1,200.0	1,199.0	1,199.0	5.1	5.1	-90.44		-0.2	-30.0	30.0	19.8	10.12	2.962	
1,300.0	1,300.0	1,299.0	1,299.0	5.4	5.3	-90.44		-0.2	-30.0	30.0	19.3	10.70	2.800	
1,400.0	1,400.0	1,399.0	1,399.0	5.7	5.6	-90.44		-0.2	-30.0	30.0	18.7	11.30	2.651	
1,500.0	1,500.0	1,499.0	1,499.0	6.0	6.0	-90.44		-0.2	-30.0	30.0	18.0	11.92	2.514	
1,600.0	1,600.0	1,599.0	1,599.0	6.3	6.3	-90.44		-0.2	-30.0	30.0	17.4	12.54	2.389	
1,700.0	1,700.0	1,699.0	1,699.0	6.6	6.6	-90.44		-0.2	-30.0	30.0	16.8	13.17	2.274	
1,800.0	1,800.0	1,799.0	1,799.0	6.9	6.9	-90.44		-0.2	-30.0	30.0	16.1	13.82	2.168	
1,900.0	1,900.0	1,899.0	1,899.0	7.2	7.2	-90.44		-0.2	-30.0	30.0	15.5	14.47	2.071	
2,000.0	2,000.0	1,999.0	1,999.0	7.6	7.6	-90.44		-0.2	-30.0	30.0	14.8	15.12	1.981 Advise and Monitor	
2,100.0	2,100.0	2,099.0	2,099.0	7.9	7.9	-90.44		-0.2	-30.0	30.0	14.2	15.78	1.898 Advise and Monitor	
2,200.0	2,200.0	2,199.0	2,199.0	8.2	8.2	-90.44		-0.2	-30.0	30.0	13.5	16.45	1.822 Advise and Monitor	
2,300.0	2,300.0	2,299.0	2,299.0	8.6	8.6	-90.44		-0.2	-30.0	30.0	12.8	17.12	1.750 Advise and Monitor	
2,400.0	2,400.0	2,399.0	2,399.0	8.9	8.9	-90.44		-0.2	-30.0	30.0	12.2	17.79	1.684 Advise and Monitor	
2,500.0	2,500.0	2,499.0	2,499.0	9.2	9.2	-90.44		-0.2	-30.0	30.0	11.5	18.47	1.622 Advise and Monitor, CC, ES, SF	
2,600.0	2,600.0	2,599.0	2,599.0	9.6	9.6	-161.49		-0.2	-30.0	31.6	12.5	19.14	1.652 Advise and Monitor	
2,663.5	2,663.4	2,662.4	2,662.4	9.8	9.8	-163.02		-0.2	-30.0	34.4	14.8	19.57	1.758 Advise and Monitor	
2,700.0	2,699.9	2,698.9	2,698.9	9.9	9.9	-163.97		-0.2	-30.0	36.4	16.6	19.81	1.837 Advise and Monitor	
2,800.0	2,799.7	2,798.7	2,798.7	10.2	10.3	-166.13		-0.2	-30.0	41.9	21.4	20.48	2.046	
2,900.0	2,899.5	2,898.5	2,898.5	10.6	10.6	-167.78		-0.2	-30.0	47.5	26.3	21.16	2.243	
3,000.0	2,999.4	2,998.4	2,998.4	10.9	10.9	-169.08		-0.2	-30.0	53.0	31.2	21.84	2.429	
3,100.0	3,099.2	3,098.2	3,098.2	11.2	11.3	-170.14		-0.2	-30.0	58.7	36.1	22.52	2.605	
3,200.0	3,199.0	3,198.0	3,198.0	11.6	11.6	-171.01		-0.2	-30.0	64.3	41.1	23.20	2.771	
3,300.0	3,298.9	3,297.9	3,297.9	11.9	12.0	-171.74		-0.2	-30.0	69.9	46.0	23.89	2.927	
3,400.0	3,398.7	3,397.7	3,397.7	12.3	12.3	-172.36		-0.2	-30.0	75.6	51.0	24.58	3.075	
3,500.0	3,498.5	3,497.5	3,497.5	12.6	12.7	-172.90		-0.2	-30.0	81.2	56.0	25.26	3.215	
3,600.0	3,598.4	3,597.4	3,597.4	13.0	13.0	-173.36		-0.2	-30.0	86.9	60.9	25.95	3.348	
3,700.0	3,698.2	3,697.2	3,697.2	13.3	13.4	-173.77		-0.2	-30.0	92.6	65.9	26.65	3.474	
3,800.0	3,798.1	3,797.1	3,797.1	13.6	13.7	-174.13		-0.2	-30.0	98.2	70.9	27.34	3.593	
3,900.0	3,897.9	3,896.9	3,896.9	14.0	14.1	-174.45		-0.2	-30.0	103.9	75.9	28.03	3.707	
4,000.0	3,997.7	3,996.7	3,996.7	14.3	14.4	-174.74		-0.2	-30.0	109.6	80.9	28.73	3.815	
4,100.0	4,097.6	4,096.6	4,096.6	14.7	14.8	-175.00		-0.2	-30.0	115.3	85.8	29.43	3.917	
4,200.0	4,197.4	4,196.4	4,196.4	15.0	15.1	-175.24		-0.2	-30.0	121.0	90.8	30.12	4.015	
4,300.0	4,297.2	4,296.2	4,296.2	15.4	15.5	-175.45		-0.2	-30.0	126.6	95.8	30.82	4.109	
4,400.0	4,397.1	4,396.1	4,396.1	15.7	15.8	-175.65		-0.2	-30.0	132.3	100.8	31.52	4.198	
4,500.0	4,496.9	4,495.9	4,495.9	16.1	16.2	-175.83		-0.2	-30.0	138.0	105.8	32.22	4.283	
4,600.0	4,596.8	4,595.8	4,595.8	16.4	16.5	-175.99		-0.2	-30.0	143.7	110.8	32.93	4.365	
4,700.0	4,696.6	4,695.6	4,695.6	16.8	16.9	-176.14		-0.2	-30.0	149.4	115.8	33.63	4.443	
4,800.0	4,796.4	4,795.4	4,795.4	17.1	17.2	-176.29		-0.2	-30.0	155.1	120.8	34.33	4.518	
4,900.0	4,896.3	4,895.3	4,895.3	17.5	17.6	-176.42		-0.2	-30.0	160.8	125.7	35.03	4.589	

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 CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #701H	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 CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #702H - OWB - PWP1													Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	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	4,996.1	4,995.1	4,995.1	17.8	17.9	-176.54		-0.2	-30.0	166.5	130.7	35.74	4.658	
5,100.0	5,095.9	5,094.9	5,094.9	18.2	18.3	-176.65		-0.2	-30.0	172.2	135.7	36.44	4.725	
5,200.0	5,195.8	5,194.8	5,194.8	18.5	18.6	-176.76		-0.2	-30.0	177.9	140.7	37.15	4.788	
5,300.0	5,295.6	5,294.6	5,294.6	18.9	19.0	-176.86		-0.2	-30.0	183.6	145.7	37.85	4.849	
5,400.0	5,395.5	5,394.5	5,394.5	19.2	19.3	-176.96		-0.2	-30.0	189.3	150.7	38.56	4.908	
5,500.0	5,495.3	5,494.3	5,494.3	19.6	19.7	-177.05		-0.2	-30.0	195.0	155.7	39.26	4.965	
5,600.0	5,595.1	5,587.9	5,587.9	20.0	20.0	-177.11		-0.6	-31.3	202.1	162.2	39.91	5.064	
5,700.0	5,695.0	5,680.7	5,680.6	20.3	20.3	-177.14		-1.7	-35.5	212.5	172.0	40.50	5.246	
5,800.0	5,794.8	5,775.6	5,775.2	20.7	20.6	-177.14		-3.6	-42.5	225.8	184.7	41.11	5.492	
5,900.0	5,894.6	5,874.7	5,873.9	21.0	21.0	-177.13		-5.7	-50.4	239.7	197.9	41.79	5.734	
6,000.0	5,994.5	5,973.7	5,972.6	21.4	21.3	-177.13		-7.8	-58.2	253.6	211.1	42.48	5.969	
6,100.0	6,094.3	6,072.7	6,071.3	21.7	21.6	-177.12		-9.9	-66.1	267.4	224.3	43.16	6.196	
6,200.0	6,194.2	6,171.8	6,170.0	22.1	22.0	-177.12		-12.0	-74.0	281.3	237.5	43.84	6.416	
6,300.0	6,294.0	6,270.8	6,268.7	22.4	22.3	-177.12		-14.1	-81.9	295.2	250.7	44.53	6.629	
6,400.0	6,393.8	6,369.8	6,367.4	22.8	22.7	-177.11		-16.2	-89.7	309.1	263.9	45.22	6.836	
6,500.0	6,493.7	6,468.9	6,466.1	23.1	23.0	-177.11		-18.4	-97.6	323.0	277.1	45.91	7.036	
6,600.0	6,593.5	6,567.9	6,564.8	23.5	23.3	-177.11		-20.5	-105.5	336.9	290.3	46.59	7.230	
6,700.0	6,693.3	6,666.9	6,663.5	23.9	23.7	-177.10		-22.6	-113.3	350.8	303.5	47.28	7.418	
6,800.0	6,793.2	6,766.0	6,762.2	24.2	24.0	-177.10		-24.7	-121.2	364.6	316.7	47.97	7.601	
6,900.0	6,893.0	6,865.0	6,860.9	24.6	24.3	-177.10		-26.8	-129.1	378.5	329.9	48.66	7.778	
7,000.0	6,992.9	6,964.0	6,959.6	24.9	24.7	-177.10		-28.9	-136.9	392.4	343.1	49.36	7.951	
7,100.0	7,092.7	7,063.0	7,058.3	25.3	25.0	-177.09		-31.0	-144.8	406.3	356.3	50.05	8.118	
7,200.0	7,192.5	7,162.1	7,157.0	25.6	25.4	-177.09		-33.1	-152.7	420.2	369.5	50.74	8.281	
7,300.0	7,292.4	7,261.1	7,255.7	26.0	25.7	-177.09		-35.2	-160.6	434.1	382.6	51.44	8.439	
7,400.0	7,392.2	7,360.1	7,354.4	26.4	26.0	-177.09		-37.3	-168.4	448.0	395.8	52.13	8.593	
7,500.0	7,492.0	7,459.2	7,453.1	26.7	26.4	-177.09		-39.4	-176.3	461.9	409.0	52.83	8.743	
7,600.0	7,591.9	7,558.2	7,551.8	27.1	26.7	-177.09		-41.6	-184.2	475.7	422.2	53.52	8.889	
7,700.0	7,691.7	7,657.2	7,650.4	27.4	27.1	-177.09		-43.7	-192.0	489.6	435.4	54.22	9.030	
7,800.0	7,791.5	7,756.3	7,749.1	27.8	27.4	-177.08		-45.8	-199.9	503.5	448.6	54.92	9.169	
7,900.0	7,891.4	7,855.3	7,847.8	28.1	27.8	-177.08		-47.9	-207.8	517.4	461.8	55.62	9.303	
8,000.0	7,991.2	7,954.3	7,946.5	28.5	28.1	-177.08		-50.0	-215.7	531.3	475.0	56.31	9.435	
8,100.0	8,091.1	8,053.4	8,045.2	28.9	28.5	-177.08		-52.1	-223.5	545.2	488.2	57.01	9.562	
8,200.0	8,190.9	8,152.4	8,143.9	29.2	28.8	-177.08		-54.2	-231.4	559.1	501.4	57.71	9.687	
8,300.0	8,290.7	8,251.4	8,242.6	29.6	29.1	-177.08		-56.3	-239.3	573.0	514.5	58.41	9.809	
8,400.0	8,390.6	8,350.4	8,341.3	29.9	29.5	-177.08		-58.4	-247.1	586.8	527.7	59.11	9.928	
8,500.0	8,490.4	8,449.5	8,440.0	30.3	29.8	-177.08		-60.5	-255.0	600.7	540.9	59.81	10.043	
8,600.0	8,590.2	8,548.5	8,538.7	30.6	30.2	-177.08		-62.6	-262.9	614.6	554.1	60.51	10.156	
8,700.0	8,690.1	8,647.5	8,637.4	31.0	30.5	-177.08		-64.8	-270.8	628.5	567.3	61.22	10.267	
8,800.0	8,789.9	8,746.6	8,736.1	31.4	30.9	-177.07		-66.9	-278.6	642.4	580.5	61.92	10.375	
8,900.0	8,889.8	8,845.6	8,834.8	31.7	31.2	-177.07		-69.0	-286.5	656.3	593.7	62.62	10.480	
9,000.0	8,989.6	8,944.6	8,933.5	32.1	31.6	-177.07		-71.1	-294.4	670.2	606.8	63.32	10.583	
9,100.0	9,089.4	9,043.7	9,032.2	32.4	31.9	-177.07		-73.2	-302.2	684.1	620.0	64.03	10.684	
9,200.0	9,189.3	9,142.7	9,130.9	32.8	32.3	-177.07		-75.3	-310.1	697.9	633.2	64.73	10.782	
9,300.0	9,289.1	9,241.7	9,229.6	33.2	32.6	-177.07		-77.4	-318.0	711.8	646.4	65.44	10.878	
9,400.0	9,388.9	9,340.8	9,328.3	33.5	33.0	-177.07		-79.5	-325.9	725.7	659.6	66.14	10.972	
9,500.0	9,488.8	9,439.8	9,427.0	33.9	33.3	-177.07		-81.6	-333.7	739.6	672.8	66.84	11.065	
9,600.0	9,588.6	9,538.8	9,525.7	34.2	33.7	-177.07		-83.7	-341.6	753.5	685.9	67.55	11.155	
9,700.0	9,688.5	9,637.9	9,624.4	34.6	34.0	-177.07		-85.8	-349.5	767.4	699.1	68.26	11.243	
9,800.0	9,788.3	9,736.9	9,723.0	34.9	34.4	-177.07		-88.0	-357.3	781.3	712.3	68.96	11.329	
9,900.0	9,888.1	9,835.9	9,821.7	35.3	34.7	-177.07		-90.1	-365.2	795.2	725.5	69.67	11.414	
10,000.0	9,988.0	9,934.9	9,920.4	35.7	35.1	-177.07		-92.2	-373.1	809.0	738.7	70.37	11.496	

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 CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #701H	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 CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #702H - OWB - PWP1													Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.0	10,087.8	10,034.0	10,019.1	36.0	35.4	-177.07	-94.3	-381.0	822.9	751.8	71.08	11.578		
10,193.2	10,180.9	10,126.3	10,111.2	36.4	35.8	-177.07	-96.2	-388.3	835.9	764.1	71.74	11.652		
10,200.0	10,187.6	10,133.0	10,117.8	36.4	35.8	171.06	-96.4	-388.8	836.8	765.0	71.79	11.657		
10,250.0	10,237.5	10,182.5	10,167.2	36.6	36.0	106.83	-97.4	-392.8	843.0	770.8	72.13	11.686		
10,300.0	10,287.1	10,222.3	10,206.8	36.7	36.1	90.60	-98.8	-395.9	848.0	775.6	72.39	11.715		
10,350.0	10,335.9	10,257.4	10,241.6	36.9	36.2	84.66	-102.0	-398.7	852.7	780.1	72.58	11.747		
10,400.0	10,383.6	10,292.6	10,276.3	37.0	36.3	81.72	-107.4	-401.4	856.9	784.1	72.77	11.775		
10,450.0	10,429.8	10,328.0	10,310.8	37.2	36.5	80.08	-115.0	-404.1	860.7	787.7	72.95	11.799		
10,500.0	10,474.3	10,363.7	10,345.0	37.3	36.6	79.13	-124.7	-406.8	864.1	790.9	73.12	11.817		
10,550.0	10,516.6	10,400.0	10,379.1	37.5	36.7	78.62	-136.8	-409.4	867.0	793.7	73.31	11.828		
10,600.0	10,556.4	10,436.1	10,412.3	37.6	36.8	78.41	-151.0	-412.0	869.6	796.1	73.49	11.833		
10,650.0	10,593.4	10,472.9	10,445.0	37.7	36.9	78.44	-167.6	-414.5	871.8	798.1	73.68	11.831		
10,700.0	10,627.4	10,510.2	10,477.1	37.8	37.0	78.66	-186.5	-416.9	873.6	799.7	73.89	11.822		
10,750.0	10,658.1	10,550.0	10,509.8	37.9	37.1	79.09	-208.9	-419.4	875.1	800.9	74.14	11.803		
10,800.0	10,685.2	10,586.5	10,538.5	38.0	37.2	79.58	-231.5	-421.6	876.2	801.9	74.36	11.784		
10,850.0	10,708.6	10,625.7	10,567.5	38.1	37.3	80.23	-257.7	-423.7	877.1	802.5	74.61	11.755		
10,900.0	10,728.0	10,665.7	10,595.3	38.2	37.4	81.01	-286.3	-425.7	877.7	802.9	74.88	11.722		
10,950.0	10,743.4	10,706.6	10,621.5	38.3	37.5	81.89	-317.6	-427.6	878.2	803.0	75.15	11.685		
11,000.0	10,754.6	10,750.0	10,646.9	38.3	37.6	82.93	-352.8	-429.4	878.4	803.0	75.44	11.644		
11,050.0	10,761.4	10,791.5	10,668.6	38.4	37.7	83.98	-388.2	-430.9	878.5	802.8	75.69	11.607		
11,103.6	10,764.0	10,839.2	10,690.3	38.5	37.8	85.25	-430.5	-432.4	878.5	802.5	75.95	11.566		
11,110.8	10,764.0	10,845.7	10,693.0	38.5	37.8	85.43	-436.4	-432.6	878.5	802.5	75.99	11.561		
11,200.0	10,764.1	10,932.0	10,722.1	38.6	38.0	87.33	-517.6	-434.4	879.0	802.6	76.35	11.512		
11,300.0	10,764.2	11,037.7	10,740.8	38.7	38.2	88.54	-621.5	-435.2	879.8	803.1	76.68	11.473		
11,400.0	10,764.3	11,141.9	10,743.0	38.8	38.3	88.68	-725.6	-434.7	879.9	802.9	76.95	11.434		
11,500.0	10,764.4	11,241.9	10,743.1	39.0	38.5	88.68	-825.6	-434.0	879.9	802.6	77.24	11.391		
11,600.0	10,764.5	11,341.9	10,743.2	39.2	38.6	88.68	-925.6	-433.4	879.9	802.3	77.57	11.344		
11,700.0	10,764.6	11,441.9	10,743.3	39.4	38.8	88.68	-1,025.6	-432.7	879.9	802.0	77.93	11.291		
11,800.0	10,764.7	11,541.9	10,743.4	39.6	39.0	88.68	-1,125.6	-432.1	879.9	801.6	78.33	11.233		
11,900.0	10,764.8	11,641.9	10,743.6	39.8	39.2	88.68	-1,225.6	-431.5	879.9	801.1	78.77	11.171		
12,000.0	10,764.9	11,741.9	10,743.7	40.0	39.5	88.68	-1,325.6	-430.8	879.9	800.7	79.24	11.105		
12,100.0	10,765.0	11,841.9	10,743.8	40.3	39.7	88.68	-1,425.6	-430.2	879.9	800.2	79.74	11.034		
12,200.0	10,765.1	11,941.9	10,743.9	40.6	40.0	88.68	-1,525.6	-429.5	879.9	799.6	80.28	10.960		
12,300.0	10,765.2	12,041.9	10,744.0	40.9	40.3	88.68	-1,625.6	-428.9	879.9	799.1	80.85	10.883		
12,400.0	10,765.3	12,141.9	10,744.1	41.2	40.6	88.68	-1,725.6	-428.2	879.9	798.5	81.46	10.802		
12,500.0	10,765.4	12,241.9	10,744.2	41.5	40.9	88.68	-1,825.6	-427.6	879.9	797.8	82.09	10.719		
12,600.0	10,765.5	12,341.9	10,744.3	41.8	41.2	88.68	-1,925.6	-426.9	879.9	797.2	82.76	10.632		
12,700.0	10,765.6	12,441.9	10,744.4	42.2	41.5	88.68	-2,025.6	-426.3	879.9	796.5	83.46	10.543		
12,800.0	10,765.7	12,541.9	10,744.5	42.5	41.9	88.68	-2,125.6	-425.7	879.9	795.8	84.18	10.452		
12,900.0	10,765.8	12,641.9	10,744.6	42.9	42.3	88.68	-2,225.6	-425.0	879.9	795.0	84.94	10.360		
13,000.0	10,765.9	12,741.9	10,744.7	43.3	42.7	88.68	-2,325.6	-424.4	879.9	794.2	85.72	10.265		
13,100.0	10,766.0	12,841.9	10,744.8	43.7	43.1	88.68	-2,425.6	-423.7	879.9	793.4	86.53	10.169		
13,200.0	10,766.1	12,941.9	10,744.9	44.1	43.5	88.68	-2,525.6	-423.1	879.9	792.6	87.37	10.071		
13,300.0	10,766.2	13,041.9	10,745.0	44.6	43.9	88.68	-2,625.6	-422.4	880.0	791.7	88.23	9.973		
13,400.0	10,766.3	13,141.9	10,745.1	45.0	44.4	88.68	-2,725.6	-421.8	880.0	790.8	89.12	9.874		
13,500.0	10,766.4	13,241.9	10,745.2	45.5	44.8	88.68	-2,825.6	-421.1	880.0	789.9	90.03	9.774		
13,600.0	10,766.5	13,341.9	10,745.3	45.9	45.3	88.68	-2,925.6	-420.5	880.0	789.0	90.97	9.673		
13,700.0	10,766.6	13,441.9	10,745.4	46.4	45.8	88.68	-3,025.6	-419.9	880.0	788.0	91.93	9.572		
13,800.0	10,766.7	13,541.9	10,745.5	46.9	46.2	88.68	-3,125.6	-419.2	880.0	787.1	92.91	9.471		
13,900.0	10,766.8	13,641.9	10,745.6	47.4	46.7	88.68	-3,225.6	-418.6	880.0	786.1	93.91	9.370		
14,000.0	10,767.0	13,741.9	10,745.8	47.9	47.2	88.68	-3,325.6	-417.9	880.0	785.0	94.93	9.269		

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #701H	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 CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #702H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,100.0	10,767.1	13,841.9	10,745.9	48.5	47.8	88.69	-3,425.5	-417.3	880.0	784.0	95.98	9.169	
14,200.0	10,767.2	13,941.9	10,746.0	49.0	48.3	88.69	-3,525.5	-416.6	880.0	782.9	97.04	9.068	
14,300.0	10,767.3	14,041.9	10,746.1	49.5	48.8	88.69	-3,625.5	-416.0	880.0	781.9	98.12	8.969	
14,400.0	10,767.4	14,141.9	10,746.2	50.1	49.4	88.69	-3,725.5	-415.4	880.0	780.8	99.22	8.869	
14,500.0	10,767.5	14,241.9	10,746.3	50.6	49.9	88.69	-3,825.5	-414.7	880.0	779.7	100.33	8.771	
14,600.0	10,767.6	14,341.9	10,746.4	51.2	50.5	88.69	-3,925.5	-414.1	880.0	778.5	101.47	8.673	
14,700.0	10,767.7	14,441.9	10,746.5	51.8	51.1	88.69	-4,025.5	-413.4	880.0	777.4	102.62	8.576	
14,800.0	10,767.8	14,541.9	10,746.6	52.4	51.7	88.69	-4,125.5	-412.8	880.0	776.2	103.78	8.479	
14,900.0	10,767.9	14,641.9	10,746.7	52.9	52.2	88.69	-4,225.5	-412.1	880.0	775.0	104.96	8.384	
15,000.0	10,768.0	14,741.9	10,746.8	53.5	52.8	88.69	-4,325.5	-411.5	880.0	773.9	106.16	8.290	
15,100.0	10,768.1	14,841.9	10,746.9	54.1	53.4	88.69	-4,425.5	-410.8	880.0	772.6	107.37	8.196	
15,200.0	10,768.2	14,941.9	10,747.0	54.8	54.1	88.69	-4,525.5	-410.2	880.0	771.4	108.59	8.104	
15,300.0	10,768.3	15,041.9	10,747.1	55.4	54.7	88.69	-4,625.5	-409.6	880.0	770.2	109.83	8.012	
15,400.0	10,768.4	15,141.9	10,747.2	56.0	55.3	88.69	-4,725.5	-408.9	880.0	768.9	111.08	7.922	
15,500.0	10,768.5	15,241.9	10,747.3	56.6	55.9	88.69	-4,825.5	-408.3	880.0	767.7	112.35	7.833	
15,600.0	10,768.6	15,341.9	10,747.4	57.3	56.6	88.69	-4,925.5	-407.6	880.0	766.4	113.62	7.745	
15,700.0	10,768.7	15,441.9	10,747.5	57.9	57.2	88.69	-5,025.5	-407.0	880.0	765.1	114.91	7.659	
15,800.0	10,768.8	15,541.9	10,747.6	58.6	57.9	88.69	-5,125.5	-406.3	880.0	763.8	116.20	7.573	
15,900.0	10,768.9	15,641.9	10,747.7	59.2	58.5	88.69	-5,225.5	-405.7	880.0	762.5	117.51	7.489	
16,000.0	10,769.0	15,741.9	10,747.9	59.9	59.2	88.69	-5,325.5	-405.0	880.0	761.2	118.83	7.406	
16,100.0	10,769.1	15,841.9	10,748.0	60.5	59.8	88.69	-5,425.5	-404.4	880.1	759.9	120.16	7.324	
16,200.0	10,769.2	15,941.9	10,748.1	61.2	60.5	88.69	-5,525.5	-403.8	880.1	758.6	121.50	7.243	
16,300.0	10,769.3	16,041.9	10,748.2	61.9	61.2	88.69	-5,625.5	-403.1	880.1	757.2	122.85	7.164	
16,400.0	10,769.4	16,141.9	10,748.3	62.6	61.8	88.69	-5,725.5	-402.5	880.1	755.9	124.21	7.085	
16,500.0	10,769.5	16,241.9	10,748.4	63.2	62.5	88.69	-5,825.5	-401.8	880.1	754.5	125.58	7.008	
16,600.0	10,769.6	16,341.9	10,748.5	63.9	63.2	88.69	-5,925.5	-401.2	880.1	753.1	126.95	6.932	
16,700.0	10,769.7	16,441.9	10,748.6	64.6	63.9	88.69	-6,025.5	-400.5	880.1	751.7	128.34	6.857	
16,800.0	10,769.8	16,541.9	10,748.7	65.3	64.6	88.69	-6,125.5	-399.9	880.1	750.3	129.73	6.784	
16,900.0	10,769.9	16,641.9	10,748.8	66.0	65.3	88.69	-6,225.5	-399.2	880.1	749.0	131.13	6.711	
17,000.0	10,770.0	16,741.9	10,748.9	66.7	66.0	88.69	-6,325.5	-398.6	880.1	747.5	132.54	6.640	
17,100.0	10,770.1	16,841.9	10,749.0	67.4	66.7	88.69	-6,425.5	-398.0	880.1	746.1	133.95	6.570	
17,200.0	10,770.2	16,941.9	10,749.1	68.1	67.4	88.69	-6,525.5	-397.3	880.1	744.7	135.38	6.501	
17,300.0	10,770.3	17,041.9	10,749.2	68.8	68.1	88.69	-6,625.5	-396.7	880.1	743.3	136.81	6.433	
17,400.0	10,770.4	17,141.9	10,749.3	69.6	68.9	88.69	-6,725.5	-396.0	880.1	741.9	138.24	6.366	
17,500.0	10,770.5	17,241.9	10,749.4	70.3	69.6	88.69	-6,825.5	-395.4	880.1	740.4	139.68	6.301	
17,600.0	10,770.6	17,341.9	10,749.5	71.0	70.3	88.69	-6,925.5	-394.7	880.1	739.0	141.13	6.236	
17,700.0	10,770.7	17,441.9	10,749.6	71.7	71.0	88.69	-7,025.5	-394.1	880.1	737.5	142.59	6.172	
17,800.0	10,770.8	17,541.9	10,749.7	72.5	71.8	88.69	-7,125.5	-393.5	880.1	736.1	144.05	6.110	
17,900.0	10,770.9	17,641.9	10,749.8	73.2	72.5	88.69	-7,225.5	-392.8	880.1	734.6	145.52	6.048	
18,000.0	10,771.0	17,741.9	10,750.0	73.9	73.2	88.69	-7,325.5	-392.2	880.1	733.1	146.99	5.988	
18,100.0	10,771.1	17,841.9	10,750.1	74.7	74.0	88.69	-7,425.5	-391.5	880.1	731.7	148.47	5.928	
18,200.0	10,771.2	17,941.9	10,750.2	75.4	74.7	88.69	-7,525.5	-390.9	880.1	730.2	149.95	5.870	
18,300.0	10,771.3	18,041.9	10,750.3	76.2	75.5	88.69	-7,625.5	-390.2	880.1	728.7	151.44	5.812	
18,400.0	10,771.4	18,141.9	10,750.4	76.9	76.2	88.69	-7,725.5	-389.6	880.1	727.2	152.93	5.755	
18,500.0	10,771.5	18,241.9	10,750.5	77.6	76.9	88.69	-7,825.5	-388.9	880.1	725.7	154.43	5.699	
18,600.0	10,771.6	18,341.9	10,750.6	78.4	77.7	88.69	-7,925.5	-388.3	880.1	724.2	155.93	5.644	
18,700.0	10,771.7	18,441.9	10,750.7	79.2	78.4	88.69	-8,025.5	-387.7	880.1	722.7	157.44	5.590	
18,800.0	10,771.8	18,541.9	10,750.8	79.9	79.2	88.69	-8,125.5	-387.0	880.2	721.2	158.95	5.537	
18,900.0	10,771.9	18,641.9	10,750.9	80.7	80.0	88.69	-8,225.5	-386.4	880.2	719.7	160.46	5.485	
19,000.0	10,772.0	18,741.9	10,751.0	81.4	80.7	88.69	-8,325.5	-385.7	880.2	718.2	161.98	5.434	
19,100.0	10,772.1	18,841.9	10,751.1	82.2	81.5	88.69	-8,425.5	-385.1	880.2	716.7	163.51	5.383	

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 CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #701H	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 CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #702H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,200.0	10,772.3	18,941.9	10,751.2	82.9	82.2	88.69	-8,525.4	-384.4	880.2	715.1	165.03	5.333	
19,300.0	10,772.4	19,041.9	10,751.3	83.7	83.0	88.70	-8,625.4	-383.8	880.2	713.6	166.57	5.284	
19,400.0	10,772.5	19,141.9	10,751.4	84.5	83.8	88.70	-8,725.4	-383.1	880.2	712.1	168.10	5.236	
19,500.0	10,772.6	19,241.9	10,751.5	85.2	84.5	88.70	-8,825.4	-382.5	880.2	710.5	169.64	5.189	
19,600.0	10,772.7	19,341.9	10,751.6	86.0	85.3	88.70	-8,925.4	-381.9	880.2	709.0	171.18	5.142	
19,700.0	10,772.8	19,441.9	10,751.7	86.8	86.1	88.70	-9,025.4	-381.2	880.2	707.5	172.73	5.096	
19,800.0	10,772.9	19,541.9	10,751.8	87.6	86.9	88.70	-9,125.4	-380.6	880.2	705.9	174.28	5.051	
19,900.0	10,773.0	19,641.9	10,752.0	88.3	87.6	88.70	-9,225.4	-379.9	880.2	704.4	175.83	5.006	
20,000.0	10,773.1	19,741.9	10,752.1	89.1	88.4	88.70	-9,325.4	-379.3	880.2	702.8	177.38	4.962	
20,100.0	10,773.2	19,841.9	10,752.2	89.9	89.2	88.70	-9,425.4	-378.6	880.2	701.3	178.94	4.919	
20,200.0	10,773.3	19,941.9	10,752.3	90.7	90.0	88.70	-9,525.4	-378.0	880.2	699.7	180.50	4.876	
20,300.0	10,773.4	20,041.9	10,752.4	91.5	90.8	88.70	-9,625.4	-377.3	880.2	698.1	182.07	4.834	
20,400.0	10,773.5	20,141.9	10,752.5	92.2	91.5	88.70	-9,725.4	-376.7	880.2	696.6	183.64	4.793	
20,500.0	10,773.6	20,241.9	10,752.6	93.0	92.3	88.70	-9,825.4	-376.1	880.2	695.0	185.21	4.753	
20,600.0	10,773.7	20,341.9	10,752.7	93.8	93.1	88.70	-9,925.4	-375.4	880.2	693.4	186.78	4.713	
20,700.0	10,773.8	20,441.9	10,752.8	94.6	93.9	88.70	-10,025.4	-374.8	880.2	691.9	188.35	4.673	
20,800.0	10,773.9	20,541.9	10,752.9	95.4	94.7	88.70	-10,125.4	-374.1	880.2	690.3	189.93	4.634	
20,896.1	10,774.0	20,638.0	10,753.0	96.1	95.5	88.70	-10,221.5	-373.5	880.2	688.8	191.45	4.598	

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 CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #701H	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 CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #703H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10239-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	-90.45	-0.5	-59.9	59.9				
100.0	100.0	99.0	99.0	3.0	3.0	-90.45	-0.5	-59.9	59.9	53.9	6.00	9.977	
200.0	200.0	199.0	199.0	3.0	3.0	-90.45	-0.5	-59.9	59.9	53.9	6.04	9.914	
300.0	300.0	299.0	299.0	3.1	3.0	-90.45	-0.5	-59.9	59.9	53.8	6.12	9.783	
400.0	400.0	399.0	399.0	3.2	3.0	-90.45	-0.5	-59.9	59.9	53.6	6.24	9.594	
500.0	500.0	499.0	499.0	3.4	3.1	-90.45	-0.5	-59.9	59.9	53.5	6.40	9.360	
600.0	600.0	599.0	599.0	3.6	3.1	-90.45	-0.5	-59.9	59.9	53.3	6.59	9.093	
700.0	700.0	699.0	699.0	3.8	3.1	-90.45	-0.5	-59.9	59.9	53.1	6.80	8.805	
800.0	800.0	799.0	799.0	4.0	3.2	-90.45	-0.5	-59.9	59.9	52.9	7.04	8.507	
900.0	900.0	899.0	899.0	4.2	3.2	-90.45	-0.5	-59.9	59.9	52.6	7.30	8.207	
1,000.0	1,000.0	999.0	999.0	4.5	3.2	-90.45	-0.5	-59.9	59.9	52.3	7.57	7.909	
1,100.0	1,100.0	1,099.0	1,099.0	4.8	3.3	-90.45	-0.5	-59.9	59.9	52.0	7.86	7.618	
1,200.0	1,200.0	1,199.0	1,199.0	5.1	3.4	-90.45	-0.5	-59.9	59.9	51.7	8.16	7.338	
1,300.0	1,300.0	1,299.0	1,299.0	5.4	3.4	-90.45	-0.5	-59.9	59.9	51.4	8.47	7.068	
1,400.0	1,400.0	1,399.0	1,399.0	5.7	3.5	-90.45	-0.5	-59.9	59.9	51.1	8.79	6.810	
1,500.0	1,500.0	1,499.0	1,499.0	6.0	3.5	-90.45	-0.5	-59.9	59.9	50.8	9.12	6.565	
1,600.0	1,600.0	1,599.0	1,599.0	6.3	3.6	-90.45	-0.5	-59.9	59.9	50.4	9.46	6.333	
1,700.0	1,700.0	1,699.0	1,699.0	6.6	3.7	-90.45	-0.5	-59.9	59.9	50.1	9.80	6.112	
1,800.0	1,800.0	1,799.0	1,799.0	6.9	3.8	-90.45	-0.5	-59.9	59.9	49.7	10.15	5.903	
1,900.0	1,900.0	1,899.0	1,899.0	7.2	3.9	-90.45	-0.5	-59.9	59.9	49.4	10.50	5.706	
2,000.0	2,000.0	1,999.0	1,999.0	7.6	3.9	-90.45	-0.5	-59.9	59.9	49.0	10.85	5.519	
2,100.0	2,100.0	2,099.0	2,099.0	7.9	4.0	-90.45	-0.5	-59.9	59.9	48.7	11.21	5.342	
2,200.0	2,200.0	2,199.0	2,199.0	8.2	4.1	-90.45	-0.5	-59.9	59.9	48.3	11.58	5.174	
2,300.0	2,300.0	2,299.0	2,299.0	8.6	4.2	-90.45	-0.5	-59.9	59.9	47.9	11.94	5.015	
2,400.0	2,400.0	2,399.0	2,399.0	8.9	4.3	-90.45	-0.5	-59.9	59.9	47.6	12.31	4.865	
2,500.0	2,500.0	2,499.0	2,499.0	9.2	4.4	-90.45	-0.5	-59.9	59.9	47.2	12.68	4.722 CC, ES, SF	
2,600.0	2,600.0	2,597.0	2,597.0	9.6	4.4	-161.45	-1.0	-61.4	63.1	50.1	13.05	4.838	
2,663.5	2,663.4	2,658.9	2,658.8	9.8	4.5	-162.91	-2.0	-64.0	68.6	55.3	13.27	5.169	
2,700.0	2,699.9	2,694.3	2,694.1	9.9	4.5	-163.89	-2.7	-66.1	72.7	59.3	13.40	5.429	
2,800.0	2,799.7	2,790.7	2,790.2	10.2	4.5	-166.42	-5.5	-73.7	86.4	72.7	13.74	6.290	
2,900.0	2,899.5	2,889.1	2,888.1	10.6	4.5	-168.54	-9.0	-83.4	102.1	88.0	14.10	7.243	
3,000.0	2,999.4	2,987.8	2,986.2	10.9	4.5	-170.09	-12.6	-93.1	118.0	103.5	14.47	8.152	
3,100.0	3,099.2	3,086.5	3,084.4	11.2	4.5	-171.28	-16.1	-102.8	133.9	119.0	14.84	9.019	
3,200.0	3,199.0	3,185.2	3,182.5	11.6	4.6	-172.21	-19.6	-112.5	149.8	134.6	15.22	9.845	
3,300.0	3,298.9	3,283.9	3,280.7	11.9	4.6	-172.97	-23.1	-122.2	165.8	150.2	15.60	10.630	
3,400.0	3,398.7	3,382.6	3,378.8	12.3	4.6	-173.59	-26.7	-131.9	181.8	165.8	15.98	11.376	
3,500.0	3,498.5	3,481.3	3,477.0	12.6	4.7	-174.11	-30.2	-141.6	197.8	181.5	16.37	12.086	
3,600.0	3,598.4	3,580.0	3,575.1	13.0	4.7	-174.55	-33.7	-151.2	213.9	197.1	16.76	12.761	
3,700.0	3,698.2	3,678.6	3,673.3	13.3	4.7	-174.93	-37.2	-160.9	229.9	212.7	17.15	13.403	
3,800.0	3,798.1	3,777.3	3,771.4	13.6	4.8	-175.26	-40.8	-170.6	245.9	228.4	17.55	14.014	
3,900.0	3,897.9	3,876.0	3,869.6	14.0	4.8	-175.56	-44.3	-180.3	262.0	244.1	17.95	14.595	
4,000.0	3,997.7	3,974.7	3,967.7	14.3	4.9	-175.81	-47.8	-190.0	278.1	259.7	18.36	15.148	
4,100.0	4,097.6	4,073.4	4,065.9	14.7	5.0	-176.04	-51.4	-199.7	294.1	275.4	18.76	15.675	
4,200.0	4,197.4	4,172.1	4,164.1	15.0	5.0	-176.25	-54.9	-209.4	310.2	291.0	19.18	16.177	
4,300.0	4,297.2	4,270.8	4,262.2	15.4	5.1	-176.43	-58.4	-219.1	326.3	306.7	19.59	16.656	
4,400.0	4,397.1	4,369.5	4,360.4	15.7	5.2	-176.60	-61.9	-228.8	342.4	322.4	20.01	17.112	
4,500.0	4,496.9	4,468.2	4,458.5	16.1	5.2	-176.75	-65.5	-238.5	358.4	338.0	20.43	17.547	
4,600.0	4,596.8	4,566.9	4,556.7	16.4	5.3	-176.89	-69.0	-248.2	374.5	353.7	20.85	17.963	
4,700.0	4,696.6	4,665.6	4,654.8	16.8	5.4	-177.02	-72.5	-257.9	390.6	369.3	21.28	18.359	
4,800.0	4,796.4	4,764.3	4,753.0	17.1	5.5	-177.14	-76.1	-267.6	406.7	385.0	21.70	18.739	
4,900.0	4,896.3	4,863.0	4,851.1	17.5	5.5	-177.25	-79.6	-277.3	422.8	400.7	22.13	19.101	

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 CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #701H	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 CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #703H - OWB - PWP1													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10239-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,000.0	4,996.1	4,961.7	4,949.3	17.8	5.6	-177.35	-83.1	-287.0	438.9	416.3	22.57	19.448		
5,100.0	5,095.9	5,060.4	5,047.4	18.2	5.7	-177.44	-86.6	-296.7	455.0	432.0	23.00	19.781		
5,200.0	5,195.8	5,159.1	5,145.6	18.5	5.8	-177.53	-90.2	-306.4	471.1	447.6	23.44	20.099		
5,300.0	5,295.6	5,257.8	5,243.7	18.9	5.9	-177.61	-93.7	-316.0	487.2	463.3	23.88	20.404		
5,400.0	5,395.5	5,356.4	5,341.9	19.2	6.0	-177.69	-97.2	-325.7	503.3	478.9	24.32	20.696		
5,500.0	5,495.3	5,455.1	5,440.0	19.6	6.0	-177.76	-100.8	-335.4	519.4	494.6	24.76	20.977		
5,600.0	5,595.1	5,553.8	5,538.2	20.0	6.1	-177.83	-104.3	-345.1	535.5	510.3	25.20	21.246		
5,700.0	5,695.0	5,652.5	5,636.4	20.3	6.2	-177.89	-107.8	-354.8	551.6	525.9	25.65	21.505		
5,800.0	5,794.8	5,751.2	5,734.5	20.7	6.3	-177.95	-111.3	-364.5	567.7	541.6	26.09	21.754		
5,900.0	5,894.6	5,849.9	5,832.7	21.0	6.4	-178.01	-114.9	-374.2	583.8	557.2	26.54	21.993		
6,000.0	5,994.5	5,948.6	5,930.8	21.4	6.5	-178.06	-118.4	-383.9	599.9	572.9	26.99	22.223		
6,100.0	6,094.3	6,047.3	6,029.0	21.7	6.6	-178.11	-121.9	-393.6	616.0	588.5	27.44	22.445		
6,200.0	6,194.2	6,146.0	6,127.1	22.1	6.7	-178.16	-125.5	-403.3	632.1	604.2	27.89	22.659		
6,300.0	6,294.0	6,244.7	6,225.3	22.4	6.8	-178.20	-129.0	-413.0	648.2	619.8	28.35	22.864		
6,400.0	6,393.8	6,343.4	6,323.4	22.8	6.9	-178.25	-132.5	-422.7	664.3	635.5	28.80	23.063		
6,500.0	6,493.7	6,442.1	6,421.6	23.1	7.0	-178.29	-136.0	-432.4	680.4	651.1	29.26	23.254		
6,600.0	6,593.5	6,540.8	6,519.7	23.5	7.1	-178.33	-139.6	-442.1	696.5	666.7	29.71	23.439		
6,700.0	6,693.3	6,639.5	6,617.9	23.9	7.2	-178.37	-143.1	-451.8	712.6	682.4	30.17	23.617		
6,800.0	6,793.2	6,738.2	6,716.0	24.2	7.3	-178.40	-146.6	-461.5	728.7	698.0	30.63	23.790		
6,900.0	6,893.0	6,836.9	6,814.2	24.6	7.4	-178.44	-150.2	-471.2	744.8	713.7	31.09	23.956		
7,000.0	6,992.9	6,935.5	6,912.3	24.9	7.6	-178.47	-153.7	-480.8	760.9	729.3	31.55	24.117		
7,100.0	7,092.7	7,034.2	7,010.5	25.3	7.7	-178.50	-157.2	-490.5	777.0	745.0	32.01	24.273		
7,200.0	7,192.5	7,132.9	7,108.7	25.6	7.8	-178.53	-160.7	-500.2	793.1	760.6	32.47	24.424		
7,300.0	7,292.4	7,231.6	7,206.8	26.0	7.9	-178.56	-164.3	-509.9	809.2	776.2	32.93	24.570		
7,400.0	7,392.2	7,330.3	7,305.0	26.4	8.0	-178.59	-167.8	-519.6	825.3	791.9	33.40	24.711		
7,500.0	7,492.0	7,429.0	7,403.1	26.7	8.1	-178.62	-171.3	-529.3	841.4	807.5	33.86	24.849		
7,600.0	7,591.9	7,527.7	7,501.3	27.1	8.2	-178.64	-174.9	-539.0	857.5	823.2	34.33	24.981		
7,700.0	7,691.7	7,626.4	7,599.4	27.4	8.3	-178.67	-178.4	-548.7	873.6	838.8	34.79	25.110		
7,800.0	7,791.5	7,725.1	7,697.6	27.8	8.4	-178.69	-181.9	-558.4	889.7	854.4	35.26	25.235		
7,900.0	7,891.4	7,823.8	7,795.7	28.1	8.6	-178.72	-185.4	-568.1	905.8	870.1	35.72	25.357		
8,000.0	7,991.2	7,922.5	7,893.9	28.5	8.7	-178.74	-189.0	-577.8	921.9	885.7	36.19	25.475		
8,100.0	8,091.1	8,021.2	7,992.0	28.9	8.8	-178.76	-192.5	-587.5	938.0	901.4	36.66	25.589		
8,200.0	8,190.9	8,119.9	8,090.2	29.2	8.9	-178.78	-196.0	-597.2	954.1	917.0	37.12	25.701		
8,300.0	8,290.7	8,218.6	8,188.3	29.6	9.0	-178.80	-199.6	-606.9	970.2	932.6	37.59	25.809		
8,400.0	8,390.6	8,317.3	8,286.5	29.9	9.1	-178.82	-203.1	-616.6	986.3	948.3	38.06	25.914		

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 CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #701H	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 CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #801H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10877-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	1.0	1.0	3.0	3.0	-90.47	-2.1	-260.0	260.0				
100.0	100.0	101.0	101.0	3.0	3.0	-90.47	-2.1	-260.0	260.0	254.0	6.00	43.312	
200.0	200.0	201.0	201.0	3.0	3.0	-90.47	-2.1	-260.0	260.0	254.0	6.04	43.038	
300.0	300.0	301.0	301.0	3.1	3.0	-90.47	-2.1	-260.0	260.0	253.9	6.12	42.470	
400.0	400.0	401.0	401.0	3.2	3.0	-90.47	-2.1	-260.0	260.0	253.8	6.24	41.649	
500.0	500.0	501.0	501.0	3.4	3.1	-90.47	-2.1	-260.0	260.0	253.6	6.40	40.631	
600.0	600.0	601.0	601.0	3.6	3.1	-90.47	-2.1	-260.0	260.0	253.4	6.59	39.473	
700.0	700.0	701.0	701.0	3.8	3.1	-90.47	-2.1	-260.0	260.0	253.2	6.80	38.225	
800.0	800.0	801.0	801.0	4.0	3.2	-90.47	-2.1	-260.0	260.0	253.0	7.04	36.932	
900.0	900.0	901.0	901.0	4.2	3.2	-90.47	-2.1	-260.0	260.0	252.7	7.30	35.626	
1,000.0	1,000.0	1,001.0	1,001.0	4.5	3.2	-90.47	-2.1	-260.0	260.0	252.4	7.57	34.334	
1,100.0	1,100.0	1,101.0	1,101.0	4.8	3.3	-90.47	-2.1	-260.0	260.0	252.1	7.86	33.073	
1,200.0	1,200.0	1,201.0	1,201.0	5.1	3.4	-90.47	-2.1	-260.0	260.0	251.8	8.16	31.853	
1,300.0	1,300.0	1,301.0	1,301.0	5.4	3.4	-90.47	-2.1	-260.0	260.0	251.5	8.47	30.682	
1,400.0	1,400.0	1,401.0	1,401.0	5.7	3.5	-90.47	-2.1	-260.0	260.0	251.2	8.79	29.564	
1,500.0	1,500.0	1,501.0	1,501.0	6.0	3.5	-90.47	-2.1	-260.0	260.0	250.9	9.12	28.500	
1,600.0	1,600.0	1,601.0	1,601.0	6.3	3.6	-90.47	-2.1	-260.0	260.0	250.5	9.46	27.490	
1,700.0	1,700.0	1,701.0	1,701.0	6.6	3.7	-90.47	-2.1	-260.0	260.0	250.2	9.80	26.533	
1,800.0	1,800.0	1,801.0	1,801.0	6.9	3.8	-90.47	-2.1	-260.0	260.0	249.9	10.15	25.627	
1,900.0	1,900.0	1,901.0	1,901.0	7.2	3.9	-90.47	-2.1	-260.0	260.0	249.5	10.50	24.769	
2,000.0	2,000.0	2,001.0	2,001.0	7.6	3.9	-90.47	-2.1	-260.0	260.0	249.1	10.85	23.957	
2,100.0	2,100.0	2,101.0	2,101.0	7.9	4.0	-90.47	-2.1	-260.0	260.0	248.8	11.21	23.189	
2,200.0	2,200.0	2,201.0	2,201.0	8.2	4.1	-90.47	-2.1	-260.0	260.0	248.4	11.58	22.461	
2,300.0	2,300.0	2,301.0	2,301.0	8.6	4.2	-90.47	-2.1	-260.0	260.0	248.1	11.94	21.772	
2,400.0	2,400.0	2,401.0	2,401.0	8.9	4.3	-90.47	-2.1	-260.0	260.0	247.7	12.31	21.118	
2,500.0	2,500.0	2,501.0	2,501.0	9.2	4.4	-90.47	-2.1	-260.0	260.0	247.3	12.68	20.499 CC, ES	
2,600.0	2,600.0	2,601.0	2,601.0	9.6	4.5	-160.59	-2.1	-260.0	261.6	248.6	13.05	20.045	
2,663.5	2,663.4	2,664.4	2,664.4	9.8	4.6	-160.78	-2.1	-260.0	264.4	251.1	13.28	19.902	
2,700.0	2,699.9	2,700.9	2,700.9	9.9	4.6	-160.93	-2.1	-260.0	266.4	252.9	13.42	19.850	
2,800.0	2,799.7	2,800.7	2,800.7	10.2	4.7	-161.32	-2.1	-260.0	271.8	258.0	13.79	19.711	
2,900.0	2,899.5	2,900.5	2,900.5	10.6	4.8	-161.70	-2.1	-260.0	277.2	263.0	14.16	19.576	
3,000.0	2,999.4	3,000.4	3,000.4	10.9	4.9	-162.06	-2.1	-260.0	282.6	268.1	14.53	19.445	
3,100.0	3,099.2	3,100.2	3,100.2	11.2	5.0	-162.41	-2.1	-260.0	288.0	273.1	14.91	19.318	
3,200.0	3,199.0	3,200.0	3,200.0	11.6	5.1	-162.75	-2.1	-260.0	293.5	278.2	15.29	19.195	
3,300.0	3,298.9	3,299.9	3,299.9	11.9	5.2	-163.07	-2.1	-260.0	298.9	283.3	15.67	19.075	
3,400.0	3,398.7	3,399.7	3,399.7	12.3	5.3	-163.39	-2.1	-260.0	304.4	288.3	16.06	18.959	
3,500.0	3,498.5	3,499.5	3,499.5	12.6	5.4	-163.69	-2.1	-260.0	309.9	293.4	16.44	18.847	
3,600.0	3,598.4	3,599.4	3,599.4	13.0	5.5	-163.98	-2.1	-260.0	315.3	298.5	16.83	18.738	
3,700.0	3,698.2	3,699.2	3,699.2	13.3	5.7	-164.26	-2.1	-260.0	320.8	303.6	17.22	18.632	
3,800.0	3,798.1	3,799.1	3,799.1	13.6	5.8	-164.53	-2.1	-260.0	326.3	308.7	17.61	18.530	
3,900.0	3,897.9	3,898.9	3,898.9	14.0	5.9	-164.79	-2.1	-260.0	331.8	313.8	18.00	18.431	
4,000.0	3,997.7	3,998.7	3,998.7	14.3	6.0	-165.05	-2.1	-260.0	337.3	318.9	18.40	18.335	
4,100.0	4,097.6	4,098.6	4,098.6	14.7	6.1	-165.29	-2.1	-260.0	342.8	324.1	18.79	18.242	
4,200.0	4,197.4	4,198.4	4,198.4	15.0	6.2	-165.53	-2.1	-260.0	348.4	329.2	19.19	18.151	
4,300.0	4,297.2	4,298.2	4,298.2	15.4	6.3	-165.76	-2.1	-260.0	353.9	334.3	19.59	18.063	
4,400.0	4,397.1	4,398.1	4,398.1	15.7	6.5	-165.99	-2.1	-260.0	359.4	339.4	19.99	17.978	
4,500.0	4,496.9	4,497.9	4,497.9	16.1	6.6	-166.20	-2.1	-260.0	365.0	344.6	20.39	17.896	
4,600.0	4,596.8	4,597.8	4,597.8	16.4	6.7	-166.41	-2.1	-260.0	370.5	349.7	20.80	17.815	
4,700.0	4,696.6	4,697.6	4,697.6	16.8	6.8	-166.62	-2.1	-260.0	376.1	354.9	21.20	17.737	
4,800.0	4,796.4	4,797.4	4,797.4	17.1	6.9	-166.82	-2.1	-260.0	381.6	360.0	21.61	17.662	
4,900.0	4,896.3	4,897.3	4,897.3	17.5	7.0	-167.01	-2.1	-260.0	387.2	365.1	22.01	17.588	

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 CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #701H	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 CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #801H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10877-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,996.1	4,997.1	4,997.1	17.8	7.2	-167.20	-2.1	-260.0	392.7	370.3	22.42	17.517	
5,100.0	5,095.9	5,096.9	5,096.9	18.2	7.3	-167.38	-2.1	-260.0	398.3	375.5	22.83	17.447	
5,200.0	5,195.8	5,196.8	5,196.8	18.5	7.4	-167.55	-2.1	-260.0	403.9	380.6	23.24	17.380	
5,300.0	5,295.6	5,296.6	5,296.6	18.9	7.5	-167.73	-2.1	-260.0	409.4	385.8	23.65	17.314	
5,400.0	5,395.5	5,396.5	5,396.5	19.2	7.6	-167.89	-2.1	-260.0	415.0	390.9	24.06	17.250	
5,500.0	5,495.3	5,496.3	5,496.3	19.6	7.8	-168.06	-2.1	-260.0	420.6	396.1	24.47	17.188	
5,600.0	5,595.1	5,612.4	5,612.4	20.0	7.9	-168.18	-1.4	-257.9	424.3	399.4	24.91	17.033	
5,700.0	5,695.0	5,729.3	5,729.0	20.3	7.9	-168.15	1.1	-251.4	424.1	398.7	25.35	16.730	
5,800.0	5,794.8	5,830.4	5,829.8	20.7	8.0	-168.06	4.1	-243.6	421.6	395.9	25.78	16.357	
5,900.0	5,894.6	5,930.3	5,929.4	21.0	8.1	-167.97	7.1	-235.9	419.2	392.9	26.21	15.994	
6,000.0	5,994.5	6,030.3	6,029.0	21.4	8.2	-167.87	10.0	-228.2	416.7	390.0	26.64	15.642	
6,100.0	6,094.3	6,130.3	6,128.6	21.7	8.2	-167.78	13.0	-220.5	414.2	387.1	27.07	15.300	
6,200.0	6,194.2	6,230.2	6,228.3	22.1	8.3	-167.69	16.0	-212.8	411.7	384.2	27.51	14.969	
6,300.0	6,294.0	6,330.2	6,327.9	22.4	8.4	-167.59	18.9	-205.1	409.2	381.3	27.94	14.647	
6,400.0	6,393.8	6,430.2	6,427.5	22.8	8.5	-167.49	21.9	-197.4	406.8	378.4	28.38	14.334	
6,500.0	6,493.7	6,530.1	6,527.1	23.1	8.5	-167.39	24.8	-189.7	404.3	375.5	28.82	14.030	
6,600.0	6,593.5	6,630.1	6,626.8	23.5	8.6	-167.29	27.8	-181.9	401.8	372.6	29.26	13.735	
6,700.0	6,693.3	6,730.1	6,726.4	23.9	8.7	-167.19	30.8	-174.2	399.4	369.7	29.70	13.447	
6,800.0	6,793.2	6,830.0	6,826.0	24.2	8.8	-167.09	33.7	-166.5	396.9	366.8	30.14	13.168	
6,900.0	6,893.0	6,930.0	6,925.6	24.6	8.9	-166.99	36.7	-158.8	394.4	363.8	30.58	12.897	
7,000.0	6,992.9	7,030.0	7,025.3	24.9	8.9	-166.88	39.7	-151.1	392.0	360.9	31.03	12.633	
7,100.0	7,092.7	7,129.9	7,124.9	25.3	9.0	-166.78	42.6	-143.4	389.5	358.0	31.47	12.376	
7,200.0	7,192.5	7,229.9	7,224.5	25.6	9.1	-166.67	45.6	-135.7	387.0	355.1	31.92	12.125	
7,300.0	7,292.4	7,329.9	7,324.1	26.0	9.2	-166.56	48.5	-128.0	384.6	352.2	32.37	11.882	
7,400.0	7,392.2	7,429.8	7,423.8	26.4	9.3	-166.45	51.5	-120.2	382.1	349.3	32.81	11.645	
7,500.0	7,492.0	7,529.8	7,523.4	26.7	9.4	-166.34	54.5	-112.5	379.7	346.4	33.26	11.414	
7,600.0	7,591.9	7,629.8	7,623.0	27.1	9.5	-166.22	57.4	-104.8	377.2	343.5	33.71	11.189	
7,700.0	7,691.7	7,729.7	7,722.6	27.4	9.6	-166.11	60.4	-97.1	374.7	340.6	34.16	10.969	
7,800.0	7,791.5	7,829.7	7,822.3	27.8	9.7	-165.99	63.3	-89.4	372.3	337.7	34.61	10.756	
7,900.0	7,891.4	7,929.7	7,921.9	28.1	9.7	-165.87	66.3	-81.7	369.8	334.8	35.07	10.547	
8,000.0	7,991.2	8,029.6	8,021.5	28.5	9.8	-165.75	69.3	-74.0	367.4	331.9	35.52	10.344	
8,100.0	8,091.1	8,129.6	8,121.1	28.9	9.9	-165.63	72.2	-66.3	364.9	329.0	35.97	10.146	
8,200.0	8,190.9	8,229.6	8,220.8	29.2	10.0	-165.51	75.2	-58.6	362.5	326.1	36.42	9.952	
8,300.0	8,290.7	8,329.5	8,320.4	29.6	10.1	-165.39	78.1	-50.8	360.0	323.2	36.88	9.764	
8,400.0	8,390.6	8,429.5	8,420.0	29.9	10.2	-165.26	81.1	-43.1	357.6	320.3	37.33	9.579	
8,500.0	8,490.4	8,529.5	8,519.6	30.3	10.3	-165.13	84.1	-35.4	355.2	317.4	37.78	9.400	
8,600.0	8,590.2	8,629.4	8,619.3	30.6	10.4	-165.00	87.0	-27.7	352.7	314.5	38.24	9.224	
8,700.0	8,690.1	8,729.4	8,718.9	31.0	10.5	-164.87	90.0	-20.0	350.3	311.6	38.69	9.052	
8,800.0	8,789.9	8,829.4	8,818.5	31.4	10.6	-164.74	92.9	-12.3	347.8	308.7	39.15	8.885	
8,900.0	8,889.8	8,929.3	8,918.1	31.7	10.7	-164.60	95.9	-4.6	345.4	305.8	39.61	8.721	
9,000.0	8,989.6	9,029.3	9,017.8	32.1	10.8	-164.47	98.9	3.1	343.0	302.9	40.06	8.561	
9,100.0	9,089.4	9,129.3	9,117.4	32.4	10.9	-164.33	101.8	10.9	340.5	300.0	40.52	8.405	
9,200.0	9,189.3	9,229.2	9,217.0	32.8	11.1	-164.19	104.8	18.6	338.1	297.1	40.98	8.252	
9,300.0	9,289.1	9,329.2	9,316.6	33.2	11.2	-164.04	107.7	26.3	335.7	294.3	41.43	8.102	
9,400.0	9,388.9	9,429.2	9,416.3	33.5	11.3	-163.90	110.7	34.0	333.3	291.4	41.89	7.956	
9,500.0	9,488.8	9,529.1	9,515.9	33.9	11.4	-163.75	113.7	41.7	330.8	288.5	42.35	7.813	
9,600.0	9,588.6	9,629.1	9,615.5	34.2	11.5	-163.60	116.6	49.4	328.4	285.6	42.80	7.673	
9,700.0	9,688.5	9,729.1	9,715.1	34.6	11.6	-163.45	119.6	57.1	326.0	282.7	43.26	7.536	
9,800.0	9,788.3	9,829.0	9,814.8	34.9	11.7	-163.30	122.5	64.8	323.6	279.9	43.72	7.402	
9,900.0	9,888.1	9,929.0	9,914.4	35.3	11.8	-163.14	125.5	72.6	321.2	277.0	44.18	7.270	
10,000.0	9,988.0	10,029.0	10,014.0	35.7	11.9	-162.98	128.5	80.3	318.8	274.1	44.63	7.142	

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 CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #701H	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 CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #801H - OWB - PWP0													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10877-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,100.0	10,087.8	10,128.9	10,113.6	36.0	12.0	-162.82	131.4	88.0	316.4	271.3	45.09	7.016		
10,193.2	10,180.9	10,222.2	10,206.5	36.4	12.1	-162.67	134.2	95.2	314.1	268.6	45.52	6.901		
10,200.0	10,187.6	10,228.9	10,213.3	36.4	12.1	-174.43	134.4	95.7	314.0	268.4	45.55	6.892		
10,250.0	10,237.5	10,278.8	10,263.0	36.6	12.2	122.47	135.9	99.5	312.7	266.9	45.74	6.836		
10,300.0	10,287.1	10,328.2	10,312.2	36.7	12.2	107.91	137.3	103.3	311.4	265.5	45.86	6.789		
10,350.0	10,335.9	10,376.7	10,360.6	36.9	12.3	104.28	138.8	107.1	310.4	264.4	45.93	6.758		
10,383.4	10,367.9	10,408.5	10,392.2	37.0	12.3	103.96	139.7	109.5	310.1	264.2	45.94	6.751		
10,400.0	10,383.6	10,424.0	10,407.7	37.0	12.3	104.16	140.2	110.7	310.2	264.3	45.94	6.752		
10,450.0	10,429.8	10,469.7	10,453.3	37.2	12.4	105.68	141.5	114.3	311.5	265.6	45.92	6.784		
10,500.0	10,474.3	10,513.6	10,497.0	37.3	12.4	108.02	142.8	117.6	315.0	269.1	45.87	6.867		
10,550.0	10,516.6	10,555.1	10,538.4	37.5	12.5	110.70	144.0	120.9	321.4	275.6	45.84	7.012		
10,600.0	10,556.4	10,594.1	10,577.2	37.6	12.5	113.36	145.2	123.9	331.4	285.6	45.84	7.230		
10,650.0	10,593.4	10,630.2	10,613.2	37.7	12.6	115.71	146.3	126.6	345.7	299.8	45.91	7.529		
10,700.0	10,627.4	10,663.1	10,646.0	37.8	12.6	117.54	147.2	129.2	364.4	318.3	46.05	7.913		
10,750.0	10,658.1	10,692.7	10,675.5	37.9	12.7	118.67	148.1	131.5	387.6	341.3	46.25	8.381		
10,800.0	10,685.2	10,718.6	10,701.3	38.0	12.7	118.95	148.9	133.5	415.2	368.7	46.49	8.931		
10,850.0	10,708.6	10,740.7	10,723.3	38.1	12.7	118.21	149.5	135.2	446.8	400.0	46.75	9.557		
10,900.0	10,728.0	10,758.8	10,741.4	38.2	12.7	116.27	150.1	136.6	481.9	434.9	47.00	10.254		
10,950.0	10,743.4	10,772.8	10,755.3	38.3	12.7	112.91	150.5	137.6	520.0	472.8	47.23	11.010		
11,000.0	10,754.6	10,782.6	10,765.0	38.3	12.8	107.87	150.8	138.4	560.6	513.2	47.44	11.818		
11,050.0	10,761.4	10,788.0	10,770.5	38.4	12.8	100.93	150.9	138.8	603.1	555.5	47.62	12.665		
11,103.6	10,764.0	10,789.0	10,771.5	38.5	12.8	91.35	151.0	138.9	650.1	602.3	47.78	13.606		
11,200.0	10,764.1	11,934.3	11,435.0	38.6	14.2	174.68	-533.7	381.4	673.0	627.0	45.95	14.647		
11,300.0	10,764.2	12,030.6	11,435.0	38.7	14.5	176.26	-628.0	400.6	671.3	625.1	46.20	14.530		
11,400.0	10,764.3	12,128.0	11,435.0	38.8	14.8	177.59	-724.2	416.8	670.3	623.8	46.53	14.406		
11,500.0	10,764.4	12,226.5	11,435.0	39.0	15.2	178.64	-821.7	429.8	669.8	622.9	46.94	14.271		
11,600.0	10,764.5	12,325.7	11,435.0	39.2	15.7	179.42	-920.5	439.5	669.6	622.2	47.40	14.125		
11,700.0	10,764.6	12,425.4	11,435.0	39.4	16.1	179.90	-1,020.0	445.8	669.4	621.5	47.93	13.968		
11,800.0	10,764.7	12,525.4	11,435.0	39.6	16.6	-179.91	-1,119.9	448.6	669.3	620.8	48.50	13.800		
11,900.0	10,764.8	12,625.4	11,435.0	39.8	17.1	-179.91	-1,219.9	449.3	669.2	620.1	49.13	13.623		
12,000.0	10,764.9	12,725.4	11,435.0	40.0	17.7	-179.91	-1,319.9	449.9	669.1	619.3	49.79	13.438		
12,100.0	10,765.0	12,825.4	11,435.0	40.3	18.3	-179.91	-1,419.9	450.6	669.0	618.5	50.50	13.249		
12,200.0	10,765.1	12,925.4	11,435.0	40.6	18.9	-179.91	-1,519.9	451.2	668.9	617.7	51.24	13.054		
12,300.0	10,765.2	13,025.4	11,435.0	40.9	19.5	-179.91	-1,619.9	451.8	668.8	616.8	52.02	12.856		
12,400.0	10,765.3	13,125.4	11,435.0	41.2	20.2	-179.91	-1,719.9	452.5	668.7	615.9	52.84	12.656		
12,500.0	10,765.4	13,225.4	11,435.0	41.5	20.8	-179.91	-1,819.9	453.1	668.6	614.9	53.69	12.454		
12,600.0	10,765.5	13,325.4	11,435.0	41.8	21.5	-179.91	-1,919.9	453.7	668.5	613.9	54.57	12.251		
12,700.0	10,765.6	13,425.4	11,435.0	42.2	22.3	-179.92	-2,019.9	454.4	668.4	612.9	55.48	12.048		
12,800.0	10,765.7	13,525.4	11,435.0	42.5	23.0	-179.92	-2,119.9	455.0	668.3	611.9	56.42	11.845		
12,900.0	10,765.8	13,625.4	11,435.0	42.9	23.7	-179.92	-2,219.9	455.6	668.2	610.8	57.39	11.643		
13,000.0	10,765.9	13,725.4	11,435.0	43.3	24.5	-179.92	-2,319.9	456.3	668.1	609.7	58.38	11.443		
13,100.0	10,766.0	13,825.4	11,435.0	43.7	25.2	-179.92	-2,419.9	456.9	668.0	608.6	59.40	11.245		
13,200.0	10,766.1	13,925.4	11,435.0	44.1	26.0	-179.92	-2,519.9	457.5	667.9	607.5	60.44	11.050		
13,300.0	10,766.2	14,025.4	11,435.0	44.6	26.8	-179.92	-2,619.9	458.2	667.8	606.3	61.51	10.857		
13,400.0	10,766.3	14,125.4	11,435.0	45.0	27.5	-179.92	-2,719.9	458.8	667.7	605.1	62.60	10.667		
13,500.0	10,766.4	14,225.4	11,435.0	45.5	28.3	-179.92	-2,819.9	459.5	667.6	603.9	63.70	10.480		
13,600.0	10,766.5	14,325.4	11,435.0	45.9	29.1	-179.92	-2,919.9	460.1	667.5	602.7	64.83	10.296		
13,700.0	10,766.6	14,425.4	11,435.0	46.4	29.9	-179.93	-3,019.9	460.7	667.4	601.4	65.97	10.116		
13,800.0	10,766.7	14,525.4	11,435.0	46.9	30.7	-179.93	-3,119.9	461.4	667.3	600.1	67.13	9.940		
13,900.0	10,766.9	14,625.4	11,435.0	47.4	31.5	-179.93	-3,219.9	462.0	667.2	598.9	68.31	9.767		
14,000.0	10,767.0	14,725.4	11,435.0	47.9	32.3	-179.93	-3,319.8	462.6	667.1	597.6	69.50	9.598		

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 CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #701H	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 CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #801H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10877-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,100.0	10,767.1	14,825.4	11,435.0	48.5	33.1	-179.93	-3,419.8	463.3	667.0	596.3	70.71	9.433	
14,200.0	10,767.2	14,925.4	11,435.0	49.0	33.9	-179.93	-3,519.8	463.9	666.9	594.9	71.93	9.271	
14,300.0	10,767.3	15,025.4	11,435.0	49.5	34.7	-179.93	-3,619.8	464.5	666.8	593.6	73.16	9.113	
14,400.0	10,767.4	15,125.4	11,435.0	50.1	35.5	-179.93	-3,719.8	465.2	666.7	592.3	74.41	8.959	
14,500.0	10,767.5	15,225.4	11,435.0	50.6	36.4	-179.93	-3,819.8	465.8	666.6	590.9	75.67	8.809	
14,600.0	10,767.6	15,325.4	11,435.0	51.2	37.2	-179.93	-3,919.8	466.4	666.5	589.5	76.94	8.662	
14,700.0	10,767.7	15,425.4	11,435.0	51.8	38.0	-179.94	-4,019.8	467.1	666.4	588.1	78.22	8.519	
14,800.0	10,767.8	15,525.4	11,435.0	52.4	38.8	-179.94	-4,119.8	467.7	666.3	586.7	79.51	8.379	
14,900.0	10,767.9	15,625.4	11,435.0	52.9	39.6	-179.94	-4,219.8	468.4	666.2	585.3	80.82	8.243	
15,000.0	10,768.0	15,725.4	11,435.0	53.5	40.5	-179.94	-4,319.8	469.0	666.0	583.9	82.13	8.110	
15,100.0	10,768.1	15,825.4	11,435.0	54.1	41.3	-179.94	-4,419.8	469.6	665.9	582.5	83.45	7.980	
15,200.0	10,768.2	15,925.4	11,435.0	54.8	42.1	-179.94	-4,519.8	470.3	665.8	581.1	84.78	7.854	
15,300.0	10,768.3	16,025.4	11,435.0	55.4	43.0	-179.94	-4,619.8	470.9	665.7	579.6	86.11	7.731	
15,400.0	10,768.4	16,125.4	11,435.0	56.0	43.8	-179.94	-4,719.8	471.5	665.6	578.2	87.46	7.611	
15,500.0	10,768.5	16,225.4	11,435.0	56.6	44.6	-179.94	-4,819.8	472.2	665.5	576.7	88.81	7.494	
15,600.0	10,768.6	16,325.4	11,435.0	57.3	45.5	-179.94	-4,919.8	472.8	665.4	575.3	90.17	7.380	
15,700.0	10,768.7	16,425.4	11,435.0	57.9	46.3	-179.95	-5,019.8	473.4	665.3	573.8	91.53	7.269	
15,800.0	10,768.8	16,525.4	11,435.0	58.6	47.1	-179.95	-5,119.8	474.1	665.2	572.3	92.90	7.160	
15,900.0	10,768.9	16,625.4	11,435.0	59.2	48.0	-179.95	-5,219.8	474.7	665.1	570.8	94.28	7.055	
16,000.0	10,769.0	16,725.4	11,435.0	59.9	48.8	-179.95	-5,319.8	475.3	665.0	569.4	95.67	6.952	
16,100.0	10,769.1	16,825.4	11,435.0	60.5	49.7	-179.95	-5,419.8	476.0	664.9	567.9	97.06	6.851	
16,200.0	10,769.2	16,925.4	11,435.0	61.2	50.5	-179.95	-5,519.8	476.6	664.8	566.4	98.45	6.753	
16,300.0	10,769.3	17,025.4	11,435.0	61.9	51.3	-179.95	-5,619.8	477.3	664.7	564.9	99.85	6.657	
16,400.0	10,769.4	17,125.4	11,435.0	62.6	52.2	-179.95	-5,719.8	477.9	664.6	563.4	101.26	6.564	
16,500.0	10,769.5	17,225.4	11,435.0	63.2	53.0	-179.95	-5,819.8	478.5	664.5	561.8	102.67	6.473	
16,600.0	10,769.6	17,325.4	11,435.0	63.9	53.9	-179.96	-5,919.8	479.2	664.4	560.3	104.08	6.384	
16,700.0	10,769.7	17,425.4	11,435.0	64.6	54.7	-179.96	-6,019.8	479.8	664.3	558.8	105.50	6.297	
16,800.0	10,769.8	17,525.4	11,435.0	65.3	55.6	-179.96	-6,119.8	480.4	664.2	557.3	106.92	6.212	
16,900.0	10,769.9	17,625.4	11,435.0	66.0	56.4	-179.96	-6,219.8	481.1	664.1	555.8	108.35	6.129	
17,000.0	10,770.0	17,725.4	11,435.0	66.7	57.3	-179.96	-6,319.8	481.7	664.0	554.2	109.78	6.048	
17,100.0	10,770.1	17,825.4	11,435.0	67.4	58.1	-179.96	-6,419.8	482.3	663.9	552.7	111.21	5.969	
17,200.0	10,770.2	17,925.4	11,435.0	68.1	58.9	-179.96	-6,519.8	483.0	663.8	551.1	112.65	5.892	
17,300.0	10,770.3	18,025.4	11,435.0	68.8	59.8	-179.96	-6,619.8	483.6	663.7	549.6	114.09	5.817	
17,400.0	10,770.4	18,125.4	11,435.0	69.6	60.6	-179.96	-6,719.8	484.2	663.6	548.0	115.54	5.743	
17,500.0	10,770.5	18,225.4	11,435.0	70.3	61.5	-179.96	-6,819.8	484.9	663.5	546.5	116.99	5.671	
17,600.0	10,770.6	18,325.4	11,435.0	71.0	62.3	-179.97	-6,919.8	485.5	663.4	544.9	118.44	5.601	
17,700.0	10,770.7	18,425.4	11,435.0	71.7	63.2	-179.97	-7,019.8	486.2	663.3	543.4	119.89	5.532	
17,800.0	10,770.8	18,525.4	11,435.0	72.5	64.0	-179.97	-7,119.8	486.8	663.2	541.8	121.35	5.465	
17,900.0	10,770.9	18,625.4	11,435.0	73.2	64.9	-179.97	-7,219.8	487.4	663.1	540.3	122.81	5.399	
18,000.0	10,771.0	18,725.4	11,435.0	73.9	65.7	-179.97	-7,319.8	488.1	663.0	538.7	124.27	5.335	
18,100.0	10,771.1	18,825.4	11,435.0	74.7	66.6	-179.97	-7,419.8	488.7	662.9	537.1	125.74	5.272	
18,200.0	10,771.2	18,925.4	11,435.0	75.4	67.4	-179.97	-7,519.8	489.3	662.8	535.6	127.21	5.210	
18,300.0	10,771.3	19,025.4	11,435.0	76.2	68.3	-179.97	-7,619.8	490.0	662.7	534.0	128.68	5.150	
18,400.0	10,771.4	19,125.4	11,435.0	76.9	69.1	-179.97	-7,719.8	490.6	662.6	532.4	130.15	5.091	
18,500.0	10,771.5	19,225.4	11,435.0	77.6	70.0	-179.97	-7,819.8	491.2	662.5	530.8	131.62	5.033	
18,600.0	10,771.6	19,325.4	11,435.0	78.4	70.8	-179.98	-7,919.8	491.9	662.4	529.3	133.10	4.976	
18,700.0	10,771.7	19,425.4	11,435.0	79.2	71.7	-179.98	-8,019.8	492.5	662.3	527.7	134.58	4.921	
18,800.0	10,771.8	19,525.4	11,435.0	79.9	72.6	-179.98	-8,119.7	493.1	662.2	526.1	136.06	4.867	
18,900.0	10,771.9	19,625.4	11,435.0	80.7	73.4	-179.98	-8,219.7	493.8	662.0	524.5	137.54	4.813	
19,000.0	10,772.0	19,725.4	11,435.0	81.4	74.3	-179.98	-8,319.7	494.4	661.9	522.9	139.03	4.761	
19,100.0	10,772.1	19,825.4	11,435.0	82.2	75.1	-179.98	-8,419.7	495.1	661.8	521.3	140.52	4.710	

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 CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #701H	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 CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #801H - OWB - PWP0													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 10877-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,200.0	10,772.3	19,925.4	11,435.0	82.9	76.0	-179.98	-8,519.7	495.7	661.7	519.7	142.00	4.660		
19,300.0	10,772.4	20,025.4	11,435.0	83.7	76.8	-179.98	-8,619.7	496.3	661.6	518.1	143.49	4.611		
19,400.0	10,772.5	20,125.4	11,435.0	84.5	77.7	-179.98	-8,719.7	497.0	661.5	516.5	144.99	4.563		
19,500.0	10,772.6	20,225.4	11,435.0	85.2	78.5	-179.99	-8,819.7	497.6	661.4	515.0	146.48	4.516		
19,600.0	10,772.7	20,325.4	11,435.0	86.0	79.4	-179.99	-8,919.7	498.2	661.3	513.4	147.97	4.469		
19,700.0	10,772.8	20,425.4	11,435.0	86.8	80.2	-179.99	-9,019.7	498.9	661.2	511.8	149.47	4.424		
19,800.0	10,772.9	20,525.4	11,435.0	87.6	81.1	-179.99	-9,119.7	499.5	661.1	510.2	150.97	4.379		
19,900.0	10,773.0	20,625.4	11,435.0	88.3	81.9	-179.99	-9,219.7	500.1	661.0	508.6	152.47	4.335		
20,000.0	10,773.1	20,725.4	11,435.0	89.1	82.8	-179.99	-9,319.7	500.8	660.9	506.9	153.97	4.293		
20,100.0	10,773.2	20,825.4	11,435.0	89.9	83.7	-179.99	-9,419.7	501.4	660.8	505.3	155.47	4.250		
20,200.0	10,773.3	20,925.4	11,435.0	90.7	84.5	-179.99	-9,519.7	502.0	660.7	503.7	156.98	4.209		
20,300.0	10,773.4	21,025.4	11,435.0	91.5	85.4	-179.99	-9,619.7	502.7	660.6	502.1	158.48	4.168		
20,400.0	10,773.5	21,125.4	11,435.0	92.2	86.2	-179.99	-9,719.7	503.3	660.5	500.5	159.99	4.129		
20,500.0	10,773.6	21,225.4	11,435.0	93.0	87.1	-180.00	-9,819.7	504.0	660.4	498.9	161.49	4.089		
20,600.0	10,773.7	21,325.4	11,435.0	93.8	87.9	-180.00	-9,919.7	504.6	660.3	497.3	163.00	4.051		
20,700.0	10,773.8	21,425.4	11,435.0	94.6	88.8	-180.00	-10,019.7	505.2	660.2	495.7	164.51	4.013		
20,800.0	10,773.9	21,525.4	11,435.0	95.4	89.6	-180.00	-10,119.7	505.9	660.1	494.1	166.02	3.976		
20,896.1	10,774.0	21,621.4	11,435.0	96.1	90.5	180.00	-10,215.8	506.5	660.0	492.5	167.48	3.941 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 CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #701H	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 CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #802H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	1.0	1.0	3.0	3.0	-90.49	-2.5	-289.9	289.9				
100.0	100.0	101.0	101.0	3.0	3.0	-90.49	-2.5	-289.9	289.9	283.9	6.01	48.276	
200.0	200.0	201.0	201.0	3.0	3.0	-90.49	-2.5	-289.9	289.9	283.9	6.08	47.694	
300.0	300.0	301.0	301.0	3.1	3.1	-90.49	-2.5	-289.9	289.9	283.7	6.23	46.504	
400.0	400.0	401.0	401.0	3.2	3.2	-90.49	-2.5	-289.9	289.9	283.5	6.47	44.838	
500.0	500.0	501.0	501.0	3.4	3.4	-90.49	-2.5	-289.9	289.9	283.2	6.77	42.849	
600.0	600.0	601.0	601.0	3.6	3.6	-90.49	-2.5	-289.9	289.9	282.8	7.13	40.686	
700.0	700.0	701.0	701.0	3.8	3.8	-90.49	-2.5	-289.9	289.9	282.4	7.54	38.467	
800.0	800.0	801.0	801.0	4.0	4.0	-90.49	-2.5	-289.9	289.9	281.9	7.99	36.280	
900.0	900.0	901.0	901.0	4.2	4.2	-90.49	-2.5	-289.9	289.9	281.4	8.48	34.182	
1,000.0	1,000.0	1,001.0	1,001.0	4.5	4.5	-90.49	-2.5	-289.9	289.9	280.9	9.00	32.203	
1,100.0	1,100.0	1,101.0	1,101.0	4.8	4.8	-90.49	-2.5	-289.9	289.9	280.4	9.55	30.360	
1,200.0	1,200.0	1,201.0	1,201.0	5.1	5.1	-90.49	-2.5	-289.9	289.9	279.8	10.12	28.657	
1,300.0	1,300.0	1,301.0	1,301.0	5.4	5.4	-90.49	-2.5	-289.9	289.9	279.2	10.70	27.088	
1,400.0	1,400.0	1,401.0	1,401.0	5.7	5.7	-90.49	-2.5	-289.9	289.9	278.6	11.30	25.649	
1,500.0	1,500.0	1,501.0	1,501.0	6.0	6.0	-90.49	-2.5	-289.9	289.9	278.0	11.92	24.328	
1,600.0	1,600.0	1,601.0	1,601.0	6.3	6.3	-90.49	-2.5	-289.9	289.9	277.4	12.54	23.116	
1,700.0	1,700.0	1,701.0	1,701.0	6.6	6.6	-90.49	-2.5	-289.9	289.9	276.8	13.18	22.004	
1,800.0	1,800.0	1,801.0	1,801.0	6.9	6.9	-90.49	-2.5	-289.9	289.9	276.1	13.82	20.981	
1,900.0	1,900.0	1,901.0	1,901.0	7.2	7.2	-90.49	-2.5	-289.9	289.9	275.5	14.47	20.040	
2,000.0	2,000.0	2,001.0	2,001.0	7.6	7.6	-90.49	-2.5	-289.9	289.9	274.8	15.12	19.172	
2,100.0	2,100.0	2,101.0	2,101.0	7.9	7.9	-90.49	-2.5	-289.9	289.9	274.1	15.78	18.369	
2,200.0	2,200.0	2,201.0	2,201.0	8.2	8.2	-90.49	-2.5	-289.9	289.9	273.5	16.45	17.626	
2,300.0	2,300.0	2,301.0	2,301.0	8.6	8.6	-90.49	-2.5	-289.9	289.9	272.8	17.12	16.937	
2,400.0	2,400.0	2,401.0	2,401.0	8.9	8.9	-90.49	-2.5	-289.9	289.9	272.1	17.79	16.296	
2,416.3	2,416.3	2,417.3	2,417.3	9.0	9.0	-90.49	-2.5	-289.9	289.9	272.0	17.90	16.195 CC	
2,500.0	2,500.0	2,500.0	2,500.0	9.2	9.2	-90.49	-2.5	-289.9	289.9	271.5	18.46	15.702 ES	
2,600.0	2,600.0	2,594.2	2,594.2	9.6	9.5	-160.36	-1.4	-291.0	292.7	273.6	19.11	15.317	
2,663.5	2,663.4	2,653.5	2,653.4	9.8	9.7	-160.15	0.4	-292.8	297.4	277.9	19.51	15.242	
2,700.0	2,699.9	2,689.8	2,689.7	9.9	9.9	-160.03	1.8	-294.2	300.7	281.0	19.76	15.222	
2,800.0	2,799.7	2,789.4	2,789.1	10.2	10.2	-159.71	5.4	-297.9	309.8	289.4	20.42	15.170	
2,900.0	2,899.5	2,889.0	2,888.6	10.6	10.5	-159.40	9.1	-301.6	318.9	297.8	21.09	15.120	
3,000.0	2,999.4	2,988.5	2,988.0	10.9	10.9	-159.11	12.8	-305.3	328.0	306.2	21.76	15.070	
3,100.0	3,099.2	3,088.1	3,087.4	11.2	11.2	-158.84	16.5	-309.0	337.1	314.6	22.44	15.023	
3,200.0	3,199.0	3,187.7	3,186.9	11.6	11.6	-158.58	20.1	-312.7	346.2	323.0	23.11	14.976	
3,300.0	3,298.9	3,287.3	3,286.3	11.9	11.9	-158.34	23.8	-316.4	355.3	331.5	23.79	14.932	
3,400.0	3,398.7	3,386.8	3,385.8	12.3	12.3	-158.11	27.5	-320.1	364.4	339.9	24.47	14.888	
3,500.0	3,498.5	3,486.4	3,485.2	12.6	12.6	-157.89	31.2	-323.8	373.5	348.3	25.16	14.846	
3,600.0	3,598.4	3,586.0	3,584.6	13.0	12.9	-157.68	34.8	-327.5	382.6	356.8	25.84	14.806	
3,700.0	3,698.2	3,685.6	3,684.1	13.3	13.3	-157.48	38.5	-331.2	391.7	365.2	26.53	14.766	
3,800.0	3,798.1	3,785.1	3,783.5	13.6	13.6	-157.28	42.2	-334.9	400.9	373.7	27.22	14.728	
3,900.0	3,897.9	3,884.7	3,882.9	14.0	14.0	-157.10	45.8	-338.5	410.0	382.1	27.91	14.692	
4,000.0	3,997.7	3,984.3	3,982.4	14.3	14.3	-156.93	49.5	-342.2	419.2	390.6	28.60	14.656	
4,100.0	4,097.6	4,083.8	4,081.8	14.7	14.7	-156.76	53.2	-345.9	428.3	399.0	29.29	14.622	
4,200.0	4,197.4	4,183.4	4,181.3	15.0	15.0	-156.60	56.9	-349.6	437.5	407.5	29.98	14.589	
4,300.0	4,297.2	4,283.0	4,280.7	15.4	15.4	-156.44	60.5	-353.3	446.6	415.9	30.68	14.557	
4,400.0	4,397.1	4,382.6	4,380.1	15.7	15.7	-156.30	64.2	-357.0	455.8	424.4	31.37	14.526	
4,500.0	4,496.9	4,482.1	4,479.6	16.1	16.1	-156.15	67.9	-360.7	464.9	432.8	32.07	14.496	
4,600.0	4,496.8	4,581.7	4,579.0	16.4	16.4	-156.02	71.6	-364.4	474.1	441.3	32.77	14.468	
4,700.0	4,496.6	4,681.3	4,678.4	16.8	16.8	-155.89	75.2	-368.1	483.2	449.8	33.47	14.440	
4,800.0	4,796.4	4,780.9	4,777.9	17.1	17.1	-155.76	78.9	-371.8	492.4	458.2	34.17	14.412	

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 CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #701H	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 CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #802H - OWB - PWP0													Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	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
4,900.0	4,896.3	4,880.4	4,877.3	17.5	17.5	-155.64		82.6	-375.5	501.6	466.7	34.87	14.386	
5,000.0	4,996.1	4,980.0	4,976.7	17.8	17.8	-155.52		86.2	-379.2	510.7	475.2	35.57	14.361	
5,100.0	5,095.9	5,079.6	5,076.2	18.2	18.2	-155.41		89.9	-382.9	519.9	483.7	36.27	14.336	
5,200.0	5,195.8	5,179.2	5,175.6	18.5	18.5	-155.30		93.6	-386.6	529.1	492.1	36.97	14.312	
5,300.0	5,295.6	5,278.7	5,275.1	18.9	18.9	-155.19		97.3	-390.3	538.3	500.6	37.67	14.289	
5,400.0	5,395.5	5,378.3	5,374.5	19.2	19.2	-155.09		100.9	-394.0	547.4	509.1	38.37	14.267	
5,500.0	5,495.3	5,477.9	5,473.9	19.6	19.6	-154.99		104.6	-397.7	556.6	517.5	39.08	14.245	
5,600.0	5,595.1	5,577.4	5,573.4	20.0	19.9	-154.90		108.3	-401.4	565.8	526.0	39.78	14.224	
5,700.0	5,695.0	5,677.0	5,672.8	20.3	20.3	-154.80		112.0	-405.1	575.0	534.5	40.48	14.203	
5,800.0	5,794.8	5,776.6	5,772.2	20.7	20.7	-154.71		115.6	-408.8	584.2	543.0	41.19	14.183	
5,900.0	5,894.6	5,876.2	5,871.7	21.0	21.0	-154.63		119.3	-412.5	593.4	551.5	41.89	14.164	
6,000.0	5,994.5	5,975.7	5,971.1	21.4	21.4	-154.54		123.0	-416.2	602.5	559.9	42.60	14.145	
6,100.0	6,094.3	6,075.3	6,070.6	21.7	21.7	-154.46		126.6	-419.9	611.7	568.4	43.30	14.126	
6,200.0	6,194.2	6,174.9	6,170.0	22.1	22.1	-154.38		130.3	-423.6	620.9	576.9	44.01	14.109	
6,300.0	6,294.0	6,274.5	6,269.4	22.4	22.4	-154.30		134.0	-427.3	630.1	585.4	44.72	14.091	
6,400.0	6,393.8	6,374.0	6,368.9	22.8	22.8	-154.23		137.7	-431.0	639.3	593.9	45.42	14.074	
6,500.0	6,493.7	6,473.6	6,468.3	23.1	23.1	-154.16		141.3	-434.7	648.5	602.4	46.13	14.058	
6,600.0	6,593.5	6,574.6	6,569.1	23.5	23.5	-154.09		145.1	-438.4	657.7	610.8	46.85	14.039	
6,700.0	6,693.3	6,696.1	6,690.6	23.9	23.9	-154.16		147.5	-440.9	665.0	617.4	47.66	13.952	
6,800.0	6,793.2	6,799.7	6,794.2	24.2	24.3	-154.38		147.5	-440.9	670.2	621.8	48.39	13.852	
6,900.0	6,893.0	6,899.5	6,894.0	24.6	24.6	-154.59		147.5	-440.9	675.4	626.3	49.09	13.757	
7,000.0	6,992.9	6,999.4	6,993.9	24.9	25.0	-154.79		147.5	-440.9	680.5	630.7	49.80	13.665	
7,100.0	7,092.7	7,099.2	7,093.7	25.3	25.3	-155.00		147.5	-440.9	685.7	635.2	50.51	13.576	
7,200.0	7,192.5	7,199.0	7,193.5	25.6	25.7	-155.20		147.5	-440.9	690.9	639.6	51.22	13.489	
7,300.0	7,292.4	7,298.9	7,293.4	26.0	26.1	-155.39		147.5	-440.9	696.0	644.1	51.92	13.405	
7,400.0	7,392.2	7,398.7	7,393.2	26.4	26.4	-155.59		147.5	-440.9	701.2	648.6	52.63	13.323	
7,500.0	7,492.0	7,498.5	7,493.0	26.7	26.8	-155.78		147.5	-440.9	706.4	653.1	53.34	13.243	
7,600.0	7,591.9	7,598.4	7,592.9	27.1	27.1	-155.97		147.5	-440.9	711.6	657.6	54.05	13.166	
7,700.0	7,691.7	7,698.2	7,692.7	27.4	27.5	-156.15		147.5	-440.9	716.9	662.1	54.76	13.090	
7,800.0	7,791.5	7,798.1	7,792.5	27.8	27.8	-156.33		147.5	-440.9	722.1	666.6	55.47	13.017	
7,900.0	7,891.4	7,897.9	7,892.4	28.1	28.2	-156.51		147.5	-440.9	727.3	671.1	56.18	12.946	
8,000.0	7,991.2	7,997.7	7,992.2	28.5	28.5	-156.69		147.5	-440.9	732.5	675.7	56.89	12.876	
8,100.0	8,091.1	8,097.6	8,092.1	28.9	28.9	-156.87		147.5	-440.9	737.8	680.2	57.60	12.808	
8,200.0	8,190.9	8,197.4	8,191.9	29.2	29.2	-157.04		147.5	-440.9	743.0	684.7	58.31	12.742	
8,300.0	8,290.7	8,297.2	8,291.7	29.6	29.6	-157.21		147.5	-440.9	748.3	689.3	59.02	12.678	
8,400.0	8,390.6	8,397.1	8,391.6	29.9	29.9	-157.38		147.5	-440.9	753.6	693.8	59.73	12.615	
8,500.0	8,490.4	8,496.9	8,491.4	30.3	30.3	-157.54		147.5	-440.9	758.8	698.4	60.45	12.554	
8,600.0	8,590.2	8,596.8	8,591.2	30.6	30.7	-157.71		147.5	-440.9	764.1	702.9	61.16	12.494	
8,700.0	8,690.1	8,696.6	8,691.1	31.0	31.0	-157.87		147.5	-440.9	769.4	707.5	61.87	12.436	
8,800.0	8,789.9	8,796.4	8,790.9	31.4	31.4	-158.03		147.5	-440.9	774.7	712.1	62.58	12.379	
8,900.0	8,889.8	8,896.3	8,890.8	31.7	31.7	-158.18		147.5	-440.9	780.0	716.7	63.29	12.323	
9,000.0	8,989.6	8,996.1	8,990.6	32.1	32.1	-158.34		147.5	-440.9	785.3	721.3	64.00	12.269	
9,100.0	9,089.4	9,095.9	9,090.4	32.4	32.4	-158.49		147.5	-440.9	790.6	725.9	64.72	12.216	
9,200.0	9,189.3	9,195.8	9,190.3	32.8	32.8	-158.64		147.5	-440.9	795.9	730.5	65.43	12.164	
9,300.0	9,289.1	9,295.6	9,290.1	33.2	33.1	-158.79		147.5	-440.9	801.2	735.1	66.14	12.114	
9,400.0	9,388.9	9,395.4	9,389.9	33.5	33.5	-158.94		147.5	-440.9	806.5	739.7	66.85	12.064	
9,500.0	9,488.8	9,495.3	9,489.8	33.9	33.8	-159.08		147.5	-440.9	811.8	744.3	67.56	12.016	
9,600.0	9,588.6	9,595.1	9,589.6	34.2	34.2	-159.22		147.5	-440.9	817.2	748.9	68.28	11.968	
9,700.0	9,688.5	9,695.0	9,689.5	34.6	34.6	-159.37		147.5	-440.9	822.5	753.5	68.99	11.922	
9,800.0	9,788.3	9,794.8	9,789.3	34.9	34.9	-159.50		147.5	-440.9	827.9	758.2	69.70	11.877	
9,900.0	9,888.1	9,894.6	9,889.1	35.3	35.3	-159.64		147.5	-440.9	833.2	762.8	70.42	11.833	

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 CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #701H	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 CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #802H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.0	9,988.0	9,994.5	9,989.0	35.7	35.6	-159.78	147.5	-440.9	838.6	767.4	71.13	11.789	
10,100.0	10,087.8	10,094.3	10,088.8	36.0	36.0	-159.91	147.5	-440.9	843.9	772.1	71.84	11.747	
10,193.2	10,180.9	10,187.4	10,181.9	36.4	36.3	-160.03	147.5	-440.9	848.9	776.4	72.51	11.708	
10,200.0	10,187.6	10,194.1	10,188.6	36.4	36.3	-171.87	147.5	-440.9	849.3	776.7	72.56	11.705	
10,250.0	10,237.5	10,244.0	10,238.5	36.6	36.5	124.17	147.5	-440.9	852.0	779.1	72.91	11.686	
10,300.0	10,287.1	10,293.6	10,288.1	36.7	36.7	108.23	147.5	-440.9	854.7	781.4	73.25	11.668	
10,350.0	10,335.9	10,342.4	10,336.9	36.9	36.9	102.77	147.5	-440.9	857.5	784.0	73.59	11.654	
10,400.0	10,383.6	10,390.1	10,384.6	37.0	37.0	100.45	147.5	-440.9	860.6	786.7	73.91	11.644	
10,450.0	10,429.8	10,436.3	10,430.8	37.2	37.2	99.50	147.5	-440.9	864.1	789.9	74.23	11.642 SF	
10,500.0	10,474.3	10,480.8	10,475.3	37.3	37.4	99.26	147.5	-440.9	868.3	793.8	74.53	11.651	
10,550.0	10,516.6	10,523.1	10,517.6	37.5	37.5	99.41	147.5	-440.9	873.4	798.6	74.81	11.674	
10,600.0	10,556.4	10,562.9	10,557.4	37.6	37.6	99.76	147.5	-440.9	879.6	804.6	75.08	11.716	
10,650.0	10,593.4	10,599.9	10,594.4	37.7	37.8	100.14	147.5	-440.9	887.4	812.0	75.33	11.779	
10,700.0	10,627.4	10,633.9	10,628.4	37.8	37.9	100.44	147.5	-440.9	896.9	821.3	75.56	11.869	
10,750.0	10,658.1	10,664.6	10,659.1	37.9	38.0	100.56	147.5	-440.9	908.3	832.5	75.77	11.988	
10,800.0	10,685.2	10,691.7	10,686.2	38.0	38.1	100.41	147.5	-440.9	921.9	846.0	75.95	12.139	
10,850.0	10,708.6	10,715.1	10,709.6	38.1	38.2	99.90	147.5	-440.9	937.8	861.7	76.10	12.322	
10,900.0	10,728.0	10,734.5	10,729.0	38.2	38.3	98.98	147.5	-440.9	956.0	879.8	76.23	12.541	
10,950.0	10,743.4	10,749.9	10,744.4	38.3	38.3	97.59	147.5	-440.9	976.5	900.2	76.33	12.793	
11,000.0	10,754.6	10,761.1	10,755.6	38.3	38.4	95.69	147.5	-440.9	999.2	922.8	76.40	13.079	

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 CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #701H	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 CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #803H - OWB - PWP0												Offset Site Error:	3.0 usft	
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	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	1.0	1.0	3.0	3.0	-90.47	-2.6	-319.9	319.9					
100.0	100.0	101.0	101.0	3.0	3.0	-90.47	-2.6	-319.9	319.9	313.9	6.01	53.274		
200.0	200.0	201.0	201.0	3.0	3.0	-90.47	-2.6	-319.9	319.9	313.9	6.08	52.631		
300.0	300.0	301.0	301.0	3.1	3.1	-90.47	-2.6	-319.9	319.9	313.7	6.23	51.318		
400.0	400.0	401.0	401.0	3.2	3.2	-90.47	-2.6	-319.9	319.9	313.5	6.47	49.479		
500.0	500.0	501.0	501.0	3.4	3.4	-90.47	-2.6	-319.9	319.9	313.2	6.77	47.285		
600.0	600.0	601.0	601.0	3.6	3.6	-90.47	-2.6	-319.9	319.9	312.8	7.13	44.897		
700.0	700.0	701.0	701.0	3.8	3.8	-90.47	-2.6	-319.9	319.9	312.4	7.54	42.449		
800.0	800.0	801.0	801.0	4.0	4.0	-90.47	-2.6	-319.9	319.9	311.9	7.99	40.036		
900.0	900.0	901.0	901.0	4.2	4.2	-90.47	-2.6	-319.9	319.9	311.5	8.48	37.720		
1,000.0	1,000.0	1,001.0	1,001.0	4.5	4.5	-90.47	-2.6	-319.9	319.9	310.9	9.00	35.537		
1,100.0	1,100.0	1,101.0	1,101.0	4.8	4.8	-90.47	-2.6	-319.9	319.9	310.4	9.55	33.503		
1,200.0	1,200.0	1,201.0	1,201.0	5.1	5.1	-90.47	-2.6	-319.9	319.9	309.8	10.12	31.623		
1,300.0	1,300.0	1,301.0	1,301.0	5.4	5.4	-90.47	-2.6	-319.9	319.9	309.2	10.70	29.892		
1,400.0	1,400.0	1,401.0	1,401.0	5.7	5.7	-90.47	-2.6	-319.9	319.9	308.6	11.30	28.303		
1,500.0	1,500.0	1,501.0	1,501.0	6.0	6.0	-90.47	-2.6	-319.9	319.9	308.0	11.92	26.846		
1,600.0	1,600.0	1,601.0	1,601.0	6.3	6.3	-90.47	-2.6	-319.9	319.9	307.4	12.54	25.509		
1,700.0	1,700.0	1,701.0	1,701.0	6.6	6.6	-90.47	-2.6	-319.9	319.9	306.8	13.18	24.281		
1,800.0	1,800.0	1,801.0	1,801.0	6.9	6.9	-90.47	-2.6	-319.9	319.9	306.1	13.82	23.153		
1,900.0	1,900.0	1,901.0	1,901.0	7.2	7.2	-90.47	-2.6	-319.9	319.9	305.5	14.47	22.114		
2,000.0	2,000.0	2,001.0	2,001.0	7.6	7.6	-90.47	-2.6	-319.9	319.9	304.8	15.12	21.156		
2,100.0	2,100.0	2,101.0	2,101.0	7.9	7.9	-90.47	-2.6	-319.9	319.9	304.2	15.78	20.270		
2,200.0	2,200.0	2,201.0	2,201.0	8.2	8.2	-90.47	-2.6	-319.9	319.9	303.5	16.45	19.450		
2,300.0	2,300.0	2,301.0	2,301.0	8.6	8.6	-90.47	-2.6	-319.9	319.9	302.8	17.12	18.690		
2,400.0	2,400.0	2,401.0	2,401.0	8.9	8.9	-90.47	-2.6	-319.9	319.9	302.1	17.79	17.982		
2,416.3	2,416.3	2,417.3	2,417.3	9.0	9.0	-90.47	-2.6	-319.9	319.9	302.0	17.90	17.872 CC		
2,500.0	2,500.0	2,500.0	2,500.0	9.2	9.2	-90.47	-2.6	-319.9	319.9	301.5	18.46	17.327 ES		
2,600.0	2,600.0	2,590.9	2,590.9	9.6	9.5	-160.50	-2.4	-321.4	323.2	304.1	19.09	16.925		
2,663.5	2,663.4	2,647.8	2,647.8	9.8	9.7	-160.54	-2.0	-323.7	328.5	309.0	19.48	16.867 SF		
2,700.0	2,699.9	2,680.4	2,680.3	9.9	9.8	-160.59	-1.7	-325.5	332.5	312.8	19.69	16.885		
2,800.0	2,799.7	2,771.5	2,771.1	10.2	10.1	-160.66	-0.4	-332.5	345.5	325.2	20.29	17.027		
2,900.0	2,899.5	2,870.5	2,869.8	10.6	10.5	-160.70	1.1	-341.0	359.4	338.5	20.95	17.157		
3,000.0	2,999.4	2,969.6	2,968.4	10.9	10.8	-160.74	2.6	-349.5	373.3	351.7	21.61	17.276		
3,100.0	3,099.2	3,068.6	3,067.1	11.2	11.1	-160.78	4.1	-358.0	387.3	365.0	22.28	17.385		
3,200.0	3,199.0	3,167.6	3,165.7	11.6	11.5	-160.81	5.6	-366.5	401.2	378.2	22.94	17.485		
3,300.0	3,298.9	3,266.6	3,264.4	11.9	11.8	-160.84	7.1	-375.0	415.1	391.5	23.61	17.578		
3,400.0	3,398.7	3,365.7	3,363.0	12.3	12.1	-160.87	8.6	-383.5	429.0	404.7	24.29	17.663		
3,500.0	3,498.5	3,464.7	3,461.7	12.6	12.5	-160.90	10.1	-392.0	442.9	418.0	24.96	17.742		
3,600.0	3,598.4	3,563.7	3,560.3	13.0	12.8	-160.93	11.6	-400.5	456.8	431.2	25.64	17.816		
3,700.0	3,698.2	3,662.7	3,659.0	13.3	13.2	-160.95	13.1	-409.0	470.8	444.4	26.32	17.884		
3,800.0	3,798.1	3,761.8	3,757.6	13.6	13.5	-160.97	14.6	-417.5	484.7	457.7	27.00	17.948		
3,900.0	3,897.9	3,860.8	3,856.3	14.0	13.8	-160.99	16.1	-426.0	498.6	470.9	27.69	18.007		
4,000.0	3,997.7	3,959.8	3,954.9	14.3	14.2	-161.02	17.6	-434.5	512.5	484.1	28.37	18.062		
4,100.0	4,097.6	4,058.8	4,053.6	14.7	14.5	-161.03	19.1	-443.0	526.4	497.4	29.06	18.114		
4,200.0	4,197.4	4,157.9	4,152.2	15.0	14.9	-161.05	20.6	-451.5	540.3	510.6	29.75	18.163		
4,300.0	4,297.2	4,256.9	4,250.9	15.4	15.2	-161.07	22.0	-460.0	554.3	523.8	30.44	18.208		
4,400.0	4,397.1	4,355.9	4,349.5	15.7	15.6	-161.09	23.5	-468.5	568.2	537.0	31.13	18.251		
4,500.0	4,496.9	4,455.0	4,448.2	16.1	15.9	-161.10	25.0	-477.0	582.1	550.3	31.82	18.291		
4,600.0	4,496.8	4,454.0	4,446.8	16.4	16.3	-161.12	26.5	-485.5	596.0	563.5	32.52	18.329		
4,700.0	4,496.6	4,453.0	4,445.5	16.8	16.6	-161.13	28.0	-494.0	609.9	576.7	33.21	18.365		
4,800.0	4,496.4	4,452.0	4,444.1	17.1	17.0	-161.15	29.5	-502.5	623.8	589.9	33.91	18.399		

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 CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #701H	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 CABO WABO FEDERAL PROJECT (ATLAS 2529) - CABO WABO FED COM #803H - OWB - PWP0											Offset Site Error:		3.0 usft
Survey Program: 0-MWD+IFR1+FDIR											Offset Well Error:		3.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.0	4,896.3	4,851.1	4,842.8	17.5	17.3	-161.16	31.0	-511.0	637.8	603.2	34.60	18.431	
5,000.0	4,996.1	4,950.1	4,941.4	17.8	17.7	-161.17	32.5	-519.5	651.7	616.4	35.30	18.461	
5,100.0	5,095.9	5,049.1	5,040.1	18.2	18.0	-161.19	34.0	-528.0	665.6	629.6	36.00	18.490	
5,200.0	5,195.8	5,148.1	5,138.7	18.5	18.4	-161.20	35.5	-536.5	679.5	642.8	36.70	18.517	
5,300.0	5,295.6	5,247.2	5,237.4	18.9	18.7	-161.21	37.0	-545.0	693.4	656.0	37.40	18.543	
5,400.0	5,395.5	5,346.2	5,336.0	19.2	19.1	-161.22	38.5	-553.5	707.3	669.2	38.10	18.568	
5,500.0	5,495.3	5,445.2	5,434.7	19.6	19.4	-161.23	40.0	-562.0	721.3	682.5	38.80	18.591	
5,600.0	5,595.1	5,544.3	5,533.3	20.0	19.8	-161.24	41.5	-570.5	735.2	695.7	39.50	18.613	
5,700.0	5,695.0	5,643.3	5,632.0	20.3	20.1	-161.25	43.0	-579.0	749.1	708.9	40.20	18.634	
5,800.0	5,794.8	5,742.3	5,730.6	20.7	20.5	-161.26	44.5	-587.5	763.0	722.1	40.90	18.655	
5,900.0	5,894.6	5,841.3	5,829.3	21.0	20.8	-161.27	46.0	-596.0	776.9	735.3	41.61	18.674	
6,000.0	5,994.5	5,940.4	5,927.9	21.4	21.2	-161.28	47.5	-604.5	790.8	748.5	42.31	18.692	
6,100.0	6,094.3	6,039.4	6,026.5	21.7	21.5	-161.28	49.0	-613.0	804.8	761.8	43.01	18.710	
6,200.0	6,194.2	6,138.4	6,125.2	22.1	21.9	-161.29	50.5	-621.5	818.7	775.0	43.72	18.727	
6,300.0	6,294.0	6,237.4	6,223.8	22.4	22.2	-161.30	52.0	-630.0	832.6	788.2	44.42	18.743	
6,400.0	6,393.8	6,336.5	6,322.5	22.8	22.6	-161.31	53.5	-638.5	846.5	801.4	45.13	18.758	
6,500.0	6,493.7	6,435.5	6,421.1	23.1	23.0	-161.31	55.0	-647.0	860.4	814.6	45.83	18.773	
6,600.0	6,593.5	6,534.5	6,519.8	23.5	23.3	-161.32	56.5	-655.5	874.4	827.8	46.54	18.788	
6,700.0	6,693.3	6,633.5	6,618.4	23.9	23.7	-161.33	58.0	-664.0	888.3	841.0	47.25	18.801	
6,800.0	6,793.2	6,732.6	6,717.1	24.2	24.0	-161.33	59.5	-672.5	902.2	854.2	47.95	18.814	
6,900.0	6,893.0	6,831.6	6,815.7	24.6	24.4	-161.34	61.0	-681.0	916.1	867.4	48.66	18.827	
7,000.0	6,992.9	6,930.6	6,914.4	24.9	24.7	-161.35	62.5	-689.5	930.0	880.7	49.37	18.839	
7,100.0	7,092.7	7,029.7	7,013.0	25.3	25.1	-161.35	64.0	-698.0	943.9	893.9	50.07	18.851	
7,200.0	7,192.5	7,128.7	7,111.7	25.6	25.4	-161.36	65.5	-706.5	957.9	907.1	50.78	18.862	
7,300.0	7,292.4	7,227.7	7,210.3	26.0	25.8	-161.36	67.0	-715.0	971.8	920.3	51.49	18.873	
7,400.0	7,392.2	7,326.7	7,309.0	26.4	26.2	-161.37	68.5	-723.5	985.7	933.5	52.20	18.883	
7,500.0	7,492.0	7,425.8	7,407.6	26.7	26.5	-161.37	70.0	-732.0	999.6	946.7	52.91	18.893	

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 CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #701H	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=26' @ 3174.0usft (Nabors 893)

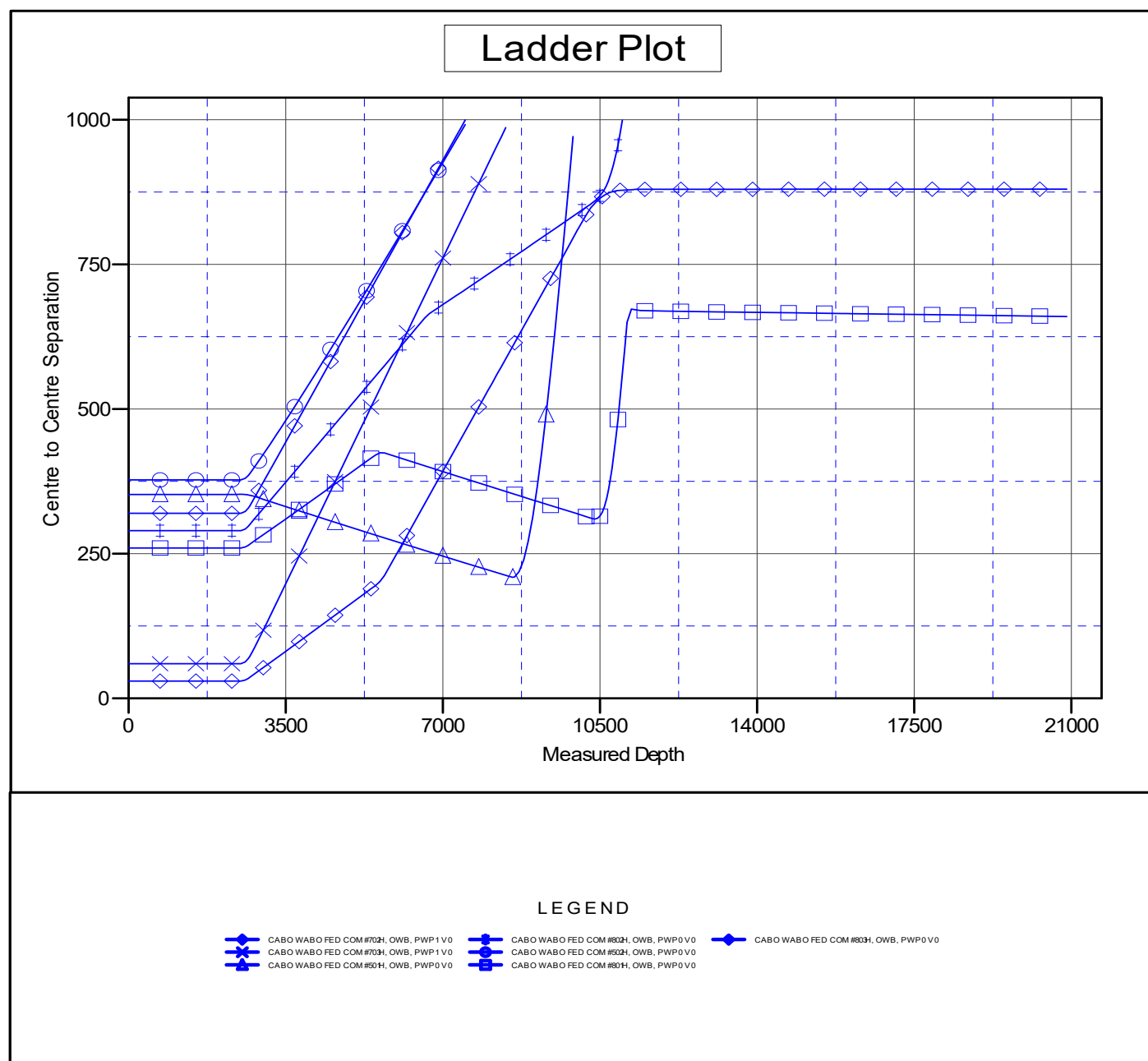
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: CABO WABO FED COM #701H

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

Grid Convergence at Surface is: 0.21°



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 CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Reference Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	CABO WABO FED COM #701H	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=26' @ 3174.0usft (Nabors 893)

Offset Depths are relative to Offset Datum

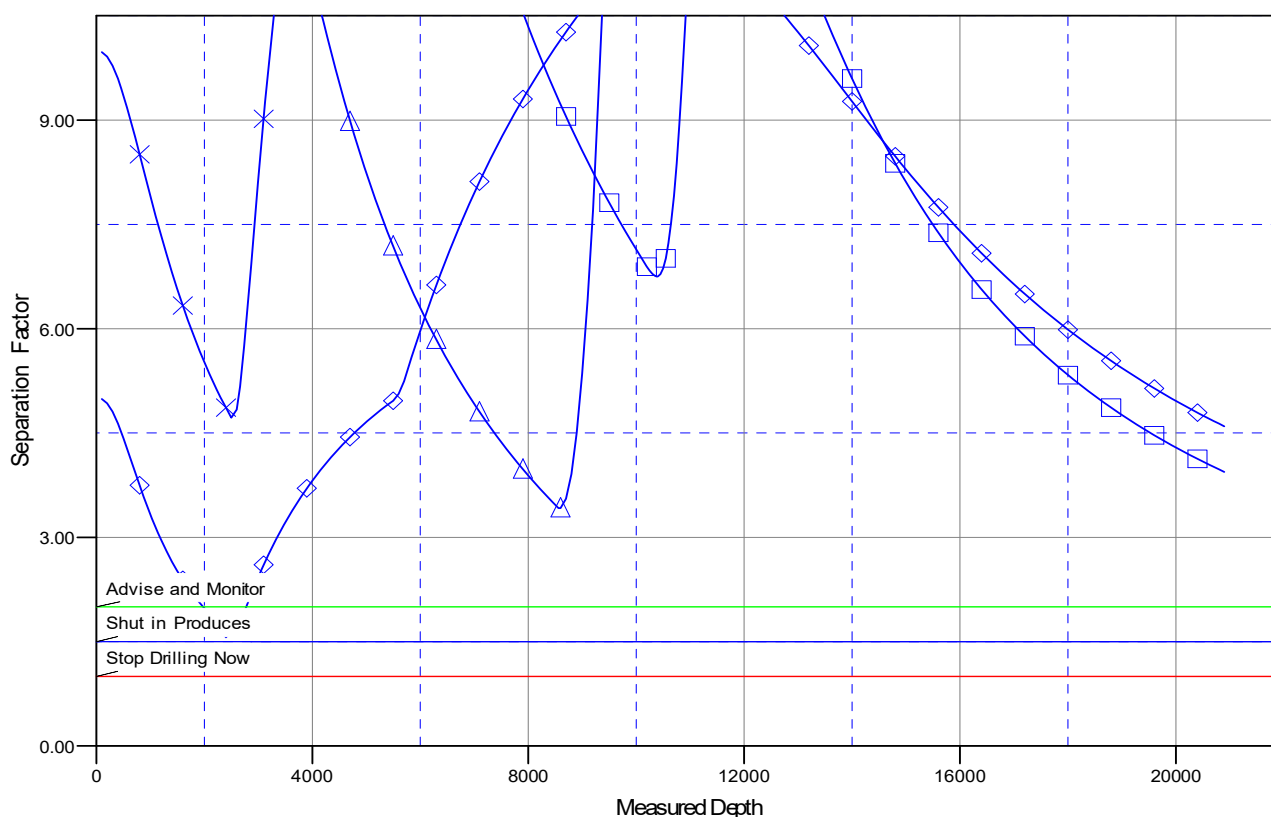
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: CABO WABO FED COM #701H

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

Grid Convergence at Surface is: 0.21°

Separation Factor Plot



LEGEND

- ◆ CABO WABO FED COM #702H, OWB, PWP1 V0
- ◆ CABO WABO FED COM #703H, OWB, PWP1 V0
- ◆ CABO WABO FED COM #704H, OWB, PWP1 V0
- ◆ CABO WABO FED COM #705H, OWB, PWP0 V0
- ◆ CABO WABO FED COM #706H, OWB, PWP0 V0
- ◆ CABO WABO FED COM #803H, OWB, PWP0 V0

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

CABO WABO FEDERAL PROJECT (ATLAS 2529)

CABO WABO FED COM #701H

OWB

Plan: PWP1

Standard Survey Report

19 May, 2020

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Well:	CABO WABO FED COM #701H	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	CABO WABO FED COM #701H		
Well Position	+N/-S	0.0 usft	Northing: 408,376.32 usft
	+E/-W	0.0 usft	Easting: 624,325.41 usft
Position Uncertainty		3.0 usft	Wellhead Elevation: usft
			Latitude: 32° 7' 19.582 N
			Longitude: 103° 55' 54.282 W
			Ground Level: 3,147.0 usft

Wellbore	OWB		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	5/19/2020	6.83	59.79	47,509.70890601

Design	PWP1		
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Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	10,774.0	0.0	0.0	177.16

Survey Tool Program	Date	5/19/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	20,895.9	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 CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Well:	CABO WABO FED COM #701H	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	70.00	2,600.0	0.6	1.6	-0.5	2.00	2.00	0.00
2,663.5	3.27	70.00	2,663.4	1.6	4.4	-1.4	2.00	2.00	0.00
Start 7529.7 hold at 2663.5 MD									
2,700.0	3.27	70.00	2,699.9	2.3	6.3	-2.0	0.00	0.00	0.00
2,800.0	3.27	70.00	2,799.7	4.3	11.7	-3.7	0.00	0.00	0.00
2,900.0	3.27	70.00	2,899.5	6.2	17.1	-5.4	0.00	0.00	0.00
3,000.0	3.27	70.00	2,999.4	8.2	22.4	-7.0	0.00	0.00	0.00
3,100.0	3.27	70.00	3,099.2	10.1	27.8	-8.7	0.00	0.00	0.00
3,200.0	3.27	70.00	3,199.0	12.1	33.1	-10.4	0.00	0.00	0.00
3,300.0	3.27	70.00	3,298.9	14.0	38.5	-12.1	0.00	0.00	0.00
3,400.0	3.27	70.00	3,398.7	16.0	43.9	-13.8	0.00	0.00	0.00
3,500.0	3.27	70.00	3,498.5	17.9	49.2	-15.5	0.00	0.00	0.00
3,600.0	3.27	70.00	3,598.4	19.9	54.6	-17.1	0.00	0.00	0.00
3,700.0	3.27	70.00	3,698.2	21.8	59.9	-18.8	0.00	0.00	0.00
3,800.0	3.27	70.00	3,798.1	23.8	65.3	-20.5	0.00	0.00	0.00
3,900.0	3.27	70.00	3,897.9	25.7	70.7	-22.2	0.00	0.00	0.00
4,000.0	3.27	70.00	3,997.7	27.7	76.0	-23.9	0.00	0.00	0.00
4,100.0	3.27	70.00	4,097.6	29.6	81.4	-25.6	0.00	0.00	0.00
4,200.0	3.27	70.00	4,197.4	31.6	86.7	-27.2	0.00	0.00	0.00
4,300.0	3.27	70.00	4,297.2	33.5	92.1	-28.9	0.00	0.00	0.00
4,400.0	3.27	70.00	4,397.1	35.5	97.5	-30.6	0.00	0.00	0.00
4,500.0	3.27	70.00	4,496.9	37.4	102.8	-32.3	0.00	0.00	0.00
4,600.0	3.27	70.00	4,596.8	39.4	108.2	-34.0	0.00	0.00	0.00
4,700.0	3.27	70.00	4,696.6	41.3	113.5	-35.7	0.00	0.00	0.00
4,800.0	3.27	70.00	4,796.4	43.3	118.9	-37.3	0.00	0.00	0.00
4,900.0	3.27	70.00	4,896.3	45.2	124.3	-39.0	0.00	0.00	0.00
5,000.0	3.27	70.00	4,996.1	47.2	129.6	-40.7	0.00	0.00	0.00
5,100.0	3.27	70.00	5,095.9	49.1	135.0	-42.4	0.00	0.00	0.00
5,200.0	3.27	70.00	5,195.8	51.1	140.3	-44.1	0.00	0.00	0.00
5,300.0	3.27	70.00	5,295.6	53.0	145.7	-45.8	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Well:	CABO WABO FED COM #701H	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)
5,400.0	3.27	70.00	5,395.5	55.0	151.1	-47.4	0.00	0.00	0.00
5,500.0	3.27	70.00	5,495.3	56.9	156.4	-49.1	0.00	0.00	0.00
5,600.0	3.27	70.00	5,595.1	58.9	161.8	-50.8	0.00	0.00	0.00
5,700.0	3.27	70.00	5,695.0	60.8	167.1	-52.5	0.00	0.00	0.00
5,800.0	3.27	70.00	5,794.8	62.8	172.5	-54.2	0.00	0.00	0.00
5,900.0	3.27	70.00	5,894.6	64.7	177.9	-55.9	0.00	0.00	0.00
6,000.0	3.27	70.00	5,994.5	66.7	183.2	-57.5	0.00	0.00	0.00
6,100.0	3.27	70.00	6,094.3	68.6	188.6	-59.2	0.00	0.00	0.00
6,200.0	3.27	70.00	6,194.2	70.6	193.9	-60.9	0.00	0.00	0.00
6,300.0	3.27	70.00	6,294.0	72.5	199.3	-62.6	0.00	0.00	0.00
6,400.0	3.27	70.00	6,393.8	74.5	204.7	-64.3	0.00	0.00	0.00
6,500.0	3.27	70.00	6,493.7	76.4	210.0	-65.9	0.00	0.00	0.00
6,600.0	3.27	70.00	6,593.5	78.4	215.4	-67.6	0.00	0.00	0.00
6,700.0	3.27	70.00	6,693.3	80.3	220.7	-69.3	0.00	0.00	0.00
6,800.0	3.27	70.00	6,793.2	82.3	226.1	-71.0	0.00	0.00	0.00
6,900.0	3.27	70.00	6,893.0	84.2	231.5	-72.7	0.00	0.00	0.00
7,000.0	3.27	70.00	6,992.9	86.2	236.8	-74.4	0.00	0.00	0.00
7,100.0	3.27	70.00	7,092.7	88.1	242.2	-76.0	0.00	0.00	0.00
7,200.0	3.27	70.00	7,192.5	90.1	247.5	-77.7	0.00	0.00	0.00
7,300.0	3.27	70.00	7,292.4	92.1	252.9	-79.4	0.00	0.00	0.00
7,400.0	3.27	70.00	7,392.2	94.0	258.3	-81.1	0.00	0.00	0.00
7,500.0	3.27	70.00	7,492.0	96.0	263.6	-82.8	0.00	0.00	0.00
7,600.0	3.27	70.00	7,591.9	97.9	269.0	-84.5	0.00	0.00	0.00
7,700.0	3.27	70.00	7,691.7	99.9	274.3	-86.1	0.00	0.00	0.00
7,800.0	3.27	70.00	7,791.5	101.8	279.7	-87.8	0.00	0.00	0.00
7,900.0	3.27	70.00	7,891.4	103.8	285.1	-89.5	0.00	0.00	0.00
8,000.0	3.27	70.00	7,991.2	105.7	290.4	-91.2	0.00	0.00	0.00
8,100.0	3.27	70.00	8,091.1	107.7	295.8	-92.9	0.00	0.00	0.00
8,200.0	3.27	70.00	8,190.9	109.6	301.1	-94.6	0.00	0.00	0.00
8,300.0	3.27	70.00	8,290.7	111.6	306.5	-96.2	0.00	0.00	0.00
8,400.0	3.27	70.00	8,390.6	113.5	311.9	-97.9	0.00	0.00	0.00
8,500.0	3.27	70.00	8,490.4	115.5	317.2	-99.6	0.00	0.00	0.00
8,600.0	3.27	70.00	8,590.2	117.4	322.6	-101.3	0.00	0.00	0.00
8,700.0	3.27	70.00	8,690.1	119.4	327.9	-103.0	0.00	0.00	0.00
8,800.0	3.27	70.00	8,789.9	121.3	333.3	-104.7	0.00	0.00	0.00
8,900.0	3.27	70.00	8,889.8	123.3	338.7	-106.3	0.00	0.00	0.00
9,000.0	3.27	70.00	8,989.6	125.2	344.0	-108.0	0.00	0.00	0.00
9,100.0	3.27	70.00	9,089.4	127.2	349.4	-109.7	0.00	0.00	0.00
9,200.0	3.27	70.00	9,189.3	129.1	354.7	-111.4	0.00	0.00	0.00
9,300.0	3.27	70.00	9,289.1	131.1	360.1	-113.1	0.00	0.00	0.00
9,400.0	3.27	70.00	9,388.9	133.0	365.5	-114.8	0.00	0.00	0.00
9,500.0	3.27	70.00	9,488.8	135.0	370.8	-116.4	0.00	0.00	0.00
9,600.0	3.27	70.00	9,588.6	136.9	376.2	-118.1	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Well:	CABO WABO FED COM #701H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,700.0	3.27	70.00	9,688.5	138.9	381.5	-119.8	0.00	0.00	0.00
9,800.0	3.27	70.00	9,788.3	140.8	386.9	-121.5	0.00	0.00	0.00
9,900.0	3.27	70.00	9,888.1	142.8	392.3	-123.2	0.00	0.00	0.00
10,000.0	3.27	70.00	9,988.0	144.7	397.6	-124.9	0.00	0.00	0.00
10,100.0	3.27	70.00	10,087.8	146.7	403.0	-126.5	0.00	0.00	0.00
10,193.2	3.27	70.00	10,180.9	148.5	408.0	-128.1	0.00	0.00	0.00
Start DLS 10.00 TFO 109.60									
10,200.0	3.11	81.81	10,187.6	148.6	408.3	-128.2	10.00	-2.38	174.92
10,300.0	10.06	161.97	10,287.1	140.7	413.8	-120.0	10.00	6.95	80.16
10,400.0	19.81	171.04	10,383.6	115.5	419.1	-94.7	10.00	9.75	9.07
10,500.0	29.72	174.22	10,474.3	74.0	424.3	-52.9	10.00	9.91	3.18
10,600.0	39.68	175.91	10,556.4	17.4	429.0	3.9	10.00	9.95	1.69
10,700.0	49.65	177.01	10,627.4	-52.7	433.3	74.1	10.00	9.97	1.10
10,800.0	59.63	177.82	10,685.2	-134.0	436.9	155.5	10.00	9.98	0.81
10,900.0	69.61	178.49	10,728.0	-224.2	439.8	245.7	10.00	9.98	0.66
11,000.0	79.59	179.07	10,754.6	-320.5	441.9	342.0	10.00	9.98	0.58
11,100.0	89.58	179.61	10,764.0	-419.9	443.0	441.3	10.00	9.99	0.54
11,103.6	89.94	179.63	10,764.0	-423.6	443.0	445.0	10.00	9.99	0.54
Start 9792.4 hold at 11103.6 MD									
11,200.0	89.94	179.63	10,764.1	-519.9	443.7	541.2	0.00	0.00	0.00
11,300.0	89.94	179.63	10,764.2	-619.9	444.3	641.2	0.00	0.00	0.00
11,400.0	89.94	179.63	10,764.3	-719.9	445.0	741.1	0.00	0.00	0.00
11,500.0	89.94	179.63	10,764.4	-819.9	445.6	841.0	0.00	0.00	0.00
11,600.0	89.94	179.63	10,764.5	-919.9	446.3	940.9	0.00	0.00	0.00
11,700.0	89.94	179.63	10,764.6	-1,019.9	446.9	1,040.8	0.00	0.00	0.00
11,800.0	89.94	179.63	10,764.7	-1,119.9	447.6	1,140.7	0.00	0.00	0.00
11,900.0	89.94	179.63	10,764.8	-1,219.9	448.2	1,240.6	0.00	0.00	0.00
12,000.0	89.94	179.63	10,764.9	-1,319.9	448.8	1,340.5	0.00	0.00	0.00
12,100.0	89.94	179.63	10,765.0	-1,419.9	449.5	1,440.4	0.00	0.00	0.00
12,200.0	89.94	179.63	10,765.1	-1,519.9	450.1	1,540.3	0.00	0.00	0.00
12,300.0	89.94	179.63	10,765.2	-1,619.9	450.8	1,640.2	0.00	0.00	0.00
12,400.0	89.94	179.63	10,765.3	-1,719.9	451.4	1,740.1	0.00	0.00	0.00
12,500.0	89.94	179.63	10,765.4	-1,819.9	452.1	1,840.0	0.00	0.00	0.00
12,600.0	89.94	179.63	10,765.5	-1,919.9	452.7	1,939.9	0.00	0.00	0.00
12,700.0	89.94	179.63	10,765.6	-2,019.9	453.4	2,039.9	0.00	0.00	0.00
12,800.0	89.94	179.63	10,765.7	-2,119.9	454.0	2,139.8	0.00	0.00	0.00
12,900.0	89.94	179.63	10,765.8	-2,219.9	454.7	2,239.7	0.00	0.00	0.00
13,000.0	89.94	179.63	10,765.9	-2,319.9	455.3	2,339.6	0.00	0.00	0.00
13,100.0	89.94	179.63	10,766.0	-2,419.9	456.0	2,439.5	0.00	0.00	0.00
13,200.0	89.94	179.63	10,766.1	-2,519.9	456.6	2,539.4	0.00	0.00	0.00
13,300.0	89.94	179.63	10,766.2	-2,619.9	457.3	2,639.3	0.00	0.00	0.00
13,400.0	89.94	179.63	10,766.3	-2,719.9	457.9	2,739.2	0.00	0.00	0.00
13,500.0	89.94	179.63	10,766.4	-2,819.9	458.6	2,839.1	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Well:	CABO WABO FED COM #701H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,600.0	89.94	179.63	10,766.5	-2,919.9	459.2	2,939.0	0.00	0.00	0.00
13,700.0	89.94	179.63	10,766.6	-3,019.9	459.9	3,038.9	0.00	0.00	0.00
13,800.0	89.94	179.63	10,766.7	-3,119.9	460.5	3,138.8	0.00	0.00	0.00
13,900.0	89.94	179.63	10,766.9	-3,219.9	461.2	3,238.7	0.00	0.00	0.00
14,000.0	89.94	179.63	10,767.0	-3,319.9	461.8	3,338.6	0.00	0.00	0.00
14,100.0	89.94	179.63	10,767.1	-3,419.8	462.4	3,438.6	0.00	0.00	0.00
14,200.0	89.94	179.63	10,767.2	-3,519.8	463.1	3,538.5	0.00	0.00	0.00
14,300.0	89.94	179.63	10,767.3	-3,619.8	463.7	3,638.4	0.00	0.00	0.00
14,400.0	89.94	179.63	10,767.4	-3,719.8	464.4	3,738.3	0.00	0.00	0.00
14,500.0	89.94	179.63	10,767.5	-3,819.8	465.0	3,838.2	0.00	0.00	0.00
14,600.0	89.94	179.63	10,767.6	-3,919.8	465.7	3,938.1	0.00	0.00	0.00
14,700.0	89.94	179.63	10,767.7	-4,019.8	466.3	4,038.0	0.00	0.00	0.00
14,800.0	89.94	179.63	10,767.8	-4,119.8	467.0	4,137.9	0.00	0.00	0.00
14,900.0	89.94	179.63	10,767.9	-4,219.8	467.6	4,237.8	0.00	0.00	0.00
15,000.0	89.94	179.63	10,768.0	-4,319.8	468.3	4,337.7	0.00	0.00	0.00
15,100.0	89.94	179.63	10,768.1	-4,419.8	468.9	4,437.6	0.00	0.00	0.00
15,200.0	89.94	179.63	10,768.2	-4,519.8	469.6	4,537.5	0.00	0.00	0.00
15,300.0	89.94	179.63	10,768.3	-4,619.8	470.2	4,637.4	0.00	0.00	0.00
15,400.0	89.94	179.63	10,768.4	-4,719.8	470.9	4,737.3	0.00	0.00	0.00
15,500.0	89.94	179.63	10,768.5	-4,819.8	471.5	4,837.3	0.00	0.00	0.00
15,600.0	89.94	179.63	10,768.6	-4,919.8	472.2	4,937.2	0.00	0.00	0.00
15,700.0	89.94	179.63	10,768.7	-5,019.8	472.8	5,037.1	0.00	0.00	0.00
15,800.0	89.94	179.63	10,768.8	-5,119.8	473.5	5,137.0	0.00	0.00	0.00
15,900.0	89.94	179.63	10,768.9	-5,219.8	474.1	5,236.9	0.00	0.00	0.00
16,000.0	89.94	179.63	10,769.0	-5,319.8	474.8	5,336.8	0.00	0.00	0.00
16,100.0	89.94	179.63	10,769.1	-5,419.8	475.4	5,436.7	0.00	0.00	0.00
16,200.0	89.94	179.63	10,769.2	-5,519.8	476.1	5,536.6	0.00	0.00	0.00
16,300.0	89.94	179.63	10,769.3	-5,619.8	476.7	5,636.5	0.00	0.00	0.00
16,400.0	89.94	179.63	10,769.4	-5,719.8	477.3	5,736.4	0.00	0.00	0.00
16,500.0	89.94	179.63	10,769.5	-5,819.8	478.0	5,836.3	0.00	0.00	0.00
16,600.0	89.94	179.63	10,769.6	-5,919.8	478.6	5,936.2	0.00	0.00	0.00
16,700.0	89.94	179.63	10,769.7	-6,019.8	479.3	6,036.1	0.00	0.00	0.00
16,800.0	89.94	179.63	10,769.8	-6,119.8	479.9	6,136.0	0.00	0.00	0.00
16,900.0	89.94	179.63	10,769.9	-6,219.8	480.6	6,236.0	0.00	0.00	0.00
17,000.0	89.94	179.63	10,770.0	-6,319.8	481.2	6,335.9	0.00	0.00	0.00
17,100.0	89.94	179.63	10,770.1	-6,419.8	481.9	6,435.8	0.00	0.00	0.00
17,200.0	89.94	179.63	10,770.2	-6,519.8	482.5	6,535.7	0.00	0.00	0.00
17,300.0	89.94	179.63	10,770.3	-6,619.8	483.2	6,635.6	0.00	0.00	0.00
17,400.0	89.94	179.63	10,770.4	-6,719.8	483.8	6,735.5	0.00	0.00	0.00
17,500.0	89.94	179.63	10,770.5	-6,819.8	484.5	6,835.4	0.00	0.00	0.00
17,600.0	89.94	179.63	10,770.6	-6,919.8	485.1	6,935.3	0.00	0.00	0.00
17,700.0	89.94	179.63	10,770.7	-7,019.8	485.8	7,035.2	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Well:	CABO WABO FED COM #701H	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	89.94	179.63	10,770.8	-7,119.8	486.4	7,135.1	0.00	0.00	0.00
17,900.0	89.94	179.63	10,770.9	-7,219.8	487.1	7,235.0	0.00	0.00	0.00
18,000.0	89.94	179.63	10,771.0	-7,319.8	487.7	7,334.9	0.00	0.00	0.00
18,100.0	89.94	179.63	10,771.1	-7,419.8	488.4	7,434.8	0.00	0.00	0.00
18,200.0	89.94	179.63	10,771.2	-7,519.8	489.0	7,534.8	0.00	0.00	0.00
18,300.0	89.94	179.63	10,771.3	-7,619.8	489.7	7,634.7	0.00	0.00	0.00
18,400.0	89.94	179.63	10,771.4	-7,719.8	490.3	7,734.6	0.00	0.00	0.00
18,500.0	89.94	179.63	10,771.6	-7,819.8	490.9	7,834.5	0.00	0.00	0.00
18,600.0	89.94	179.63	10,771.7	-7,919.8	491.6	7,934.4	0.00	0.00	0.00
18,700.0	89.94	179.63	10,771.8	-8,019.8	492.2	8,034.3	0.00	0.00	0.00
18,800.0	89.94	179.63	10,771.9	-8,119.7	492.9	8,134.2	0.00	0.00	0.00
18,900.0	89.94	179.63	10,772.0	-8,219.7	493.5	8,234.1	0.00	0.00	0.00
19,000.0	89.94	179.63	10,772.1	-8,319.7	494.2	8,334.0	0.00	0.00	0.00
19,100.0	89.94	179.63	10,772.2	-8,419.7	494.8	8,433.9	0.00	0.00	0.00
19,200.0	89.94	179.63	10,772.3	-8,519.7	495.5	8,533.8	0.00	0.00	0.00
19,300.0	89.94	179.63	10,772.4	-8,619.7	496.1	8,633.7	0.00	0.00	0.00
19,400.0	89.94	179.63	10,772.5	-8,719.7	496.8	8,733.6	0.00	0.00	0.00
19,500.0	89.94	179.63	10,772.6	-8,819.7	497.4	8,833.5	0.00	0.00	0.00
19,600.0	89.94	179.63	10,772.7	-8,919.7	498.1	8,933.5	0.00	0.00	0.00
19,700.0	89.94	179.63	10,772.8	-9,019.7	498.7	9,033.4	0.00	0.00	0.00
19,800.0	89.94	179.63	10,772.9	-9,119.7	499.4	9,133.3	0.00	0.00	0.00
19,900.0	89.94	179.63	10,773.0	-9,219.7	500.0	9,233.2	0.00	0.00	0.00
20,000.0	89.94	179.63	10,773.1	-9,319.7	500.7	9,333.1	0.00	0.00	0.00
20,100.0	89.94	179.63	10,773.2	-9,419.7	501.3	9,433.0	0.00	0.00	0.00
20,200.0	89.94	179.63	10,773.3	-9,519.7	502.0	9,532.9	0.00	0.00	0.00
20,300.0	89.94	179.63	10,773.4	-9,619.7	502.6	9,632.8	0.00	0.00	0.00
20,400.0	89.94	179.63	10,773.5	-9,719.7	503.3	9,732.7	0.00	0.00	0.00
20,500.0	89.94	179.63	10,773.6	-9,819.7	503.9	9,832.6	0.00	0.00	0.00
20,600.0	89.94	179.63	10,773.7	-9,919.7	504.6	9,932.5	0.00	0.00	0.00
20,700.0	89.94	179.63	10,773.8	-10,019.7	505.2	10,032.4	0.00	0.00	0.00
20,800.0	89.94	179.63	10,773.9	-10,119.7	505.8	10,132.3	0.00	0.00	0.00
20,896.1	89.94	179.63	10,774.0	-10,215.8	506.5	10,228.3	0.00	0.00	0.00
TD at 20896.1									

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well CABO WABO FED COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Site:	CABO WABO FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=26' @ 3174.0usft (Nabors 893)
Well:	CABO WABO FED COM #701H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

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 (CABO WABO FI - plan misses target center by 77.7usft at 10817.6usft MD (10693.9 TVD, -149.4 N, 437.5 E) - Circle (radius 50.0)	0.00	0.00	10,764.0	-116.0	440.8	408,260.33	624,766.24	32° 7' 18.418 N	103° 55' 49.161 W
PBHL (CABO WABO - plan hits target center - Rectangle (sides W100.0 H10,070.0 D20.0)	-0.06	359.63	10,774.0	-10,215.8	506.5	398,160.54	624,831.88	32° 5' 38.464 N	103° 55' 48.837 W
LTP (CABO WABO FE - plan misses target center by 0.1usft at 20766.1usft MD (10773.9 TVD, -10085.8 N, 505.6 E) - Point	0.00	0.00	10,774.0	-10,085.8	505.6	398,290.53	624,831.02	32° 5' 39.751 N	103° 55' 48.842 W

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
2664	2663	2	4	Start 7529.7 hold at 2663.5 MD
10,193	10,181	148	408	Start DLS 10.00 TFO 109.60
11,104	10,764	-424	443	Start 9792.4 hold at 11103.6 MD
20,896	10,774	-10,216	506	TD at 20896.1

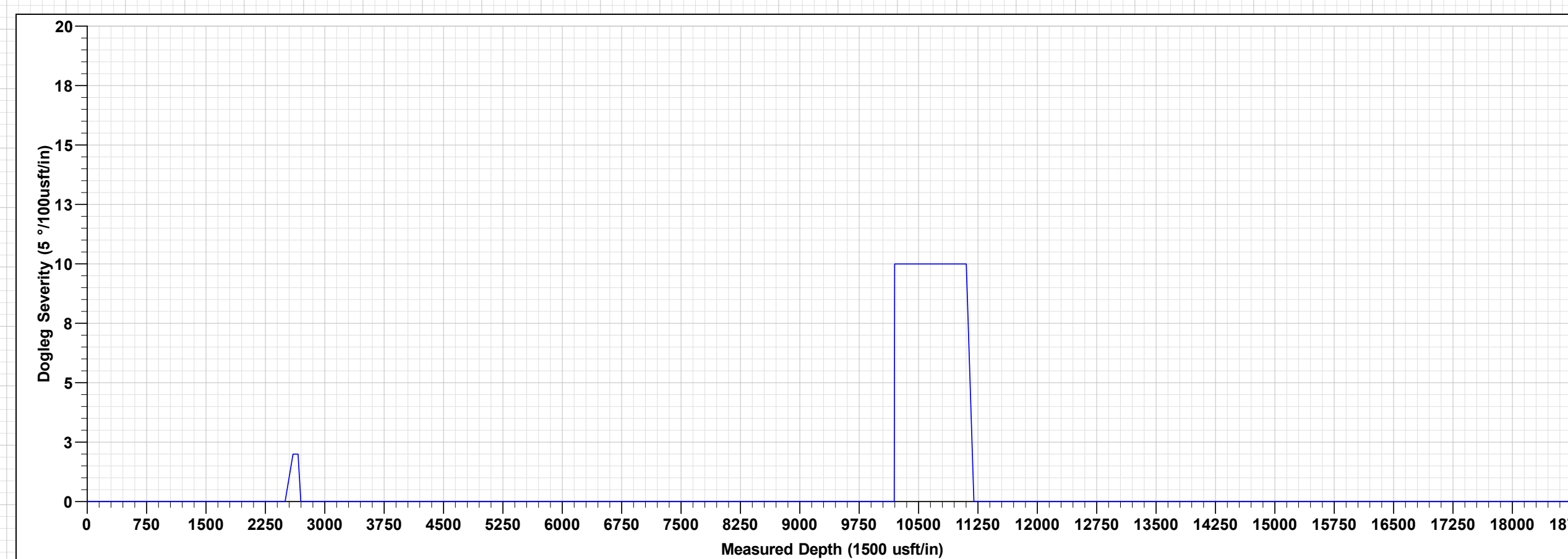
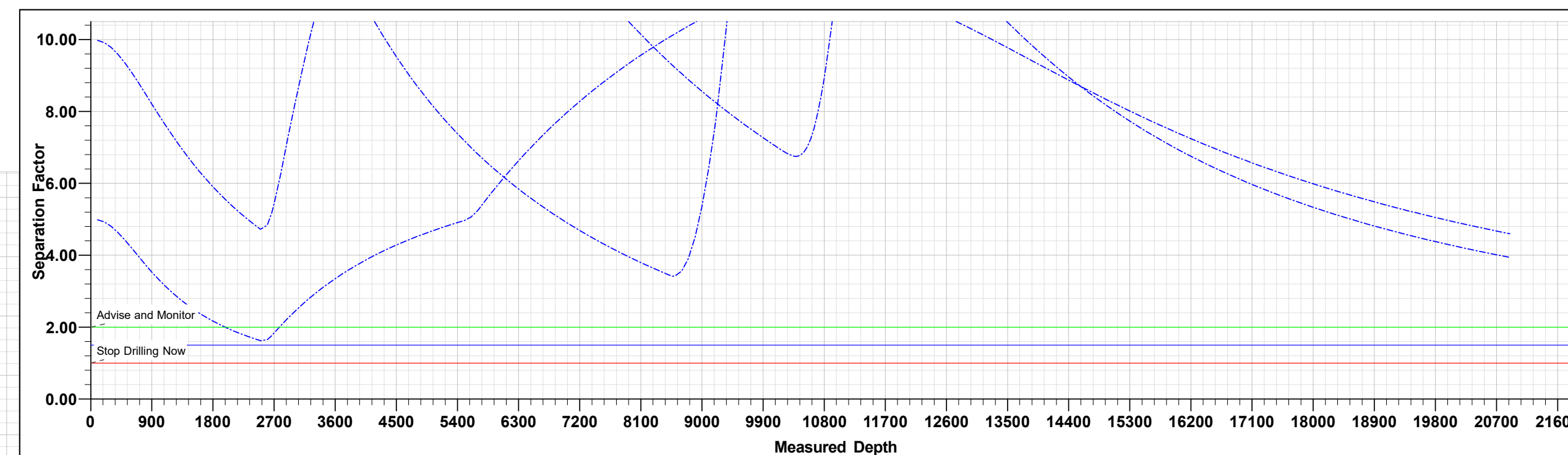
Checked By: _____ Approved By: _____ Date: _____



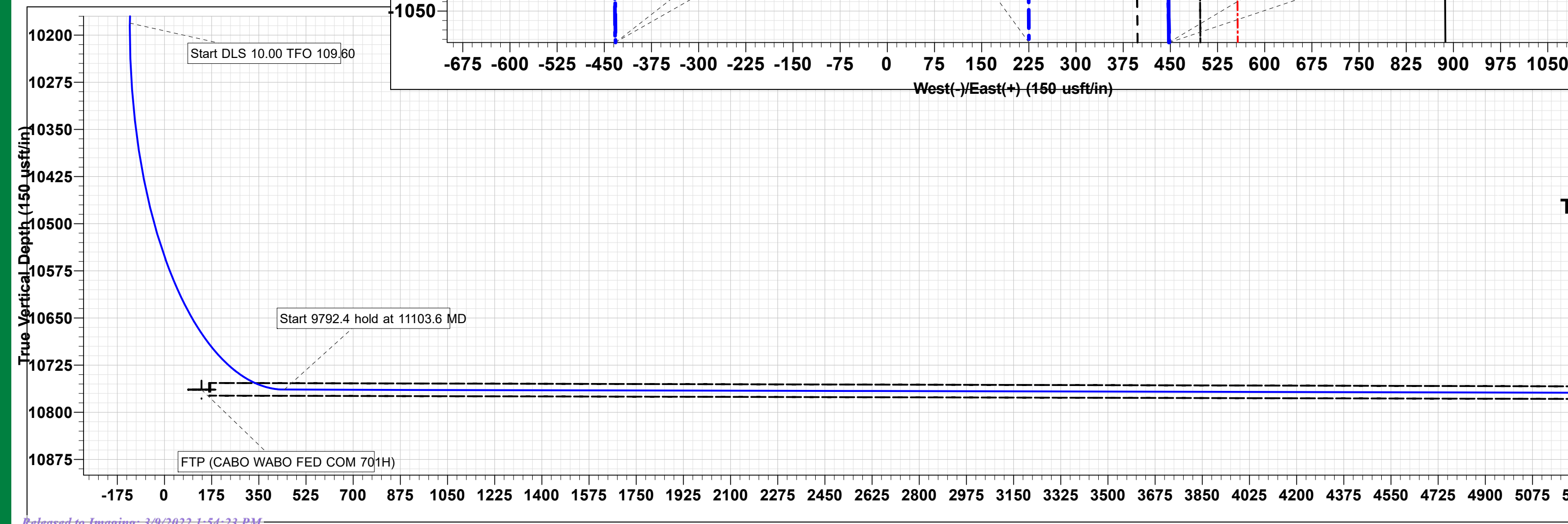
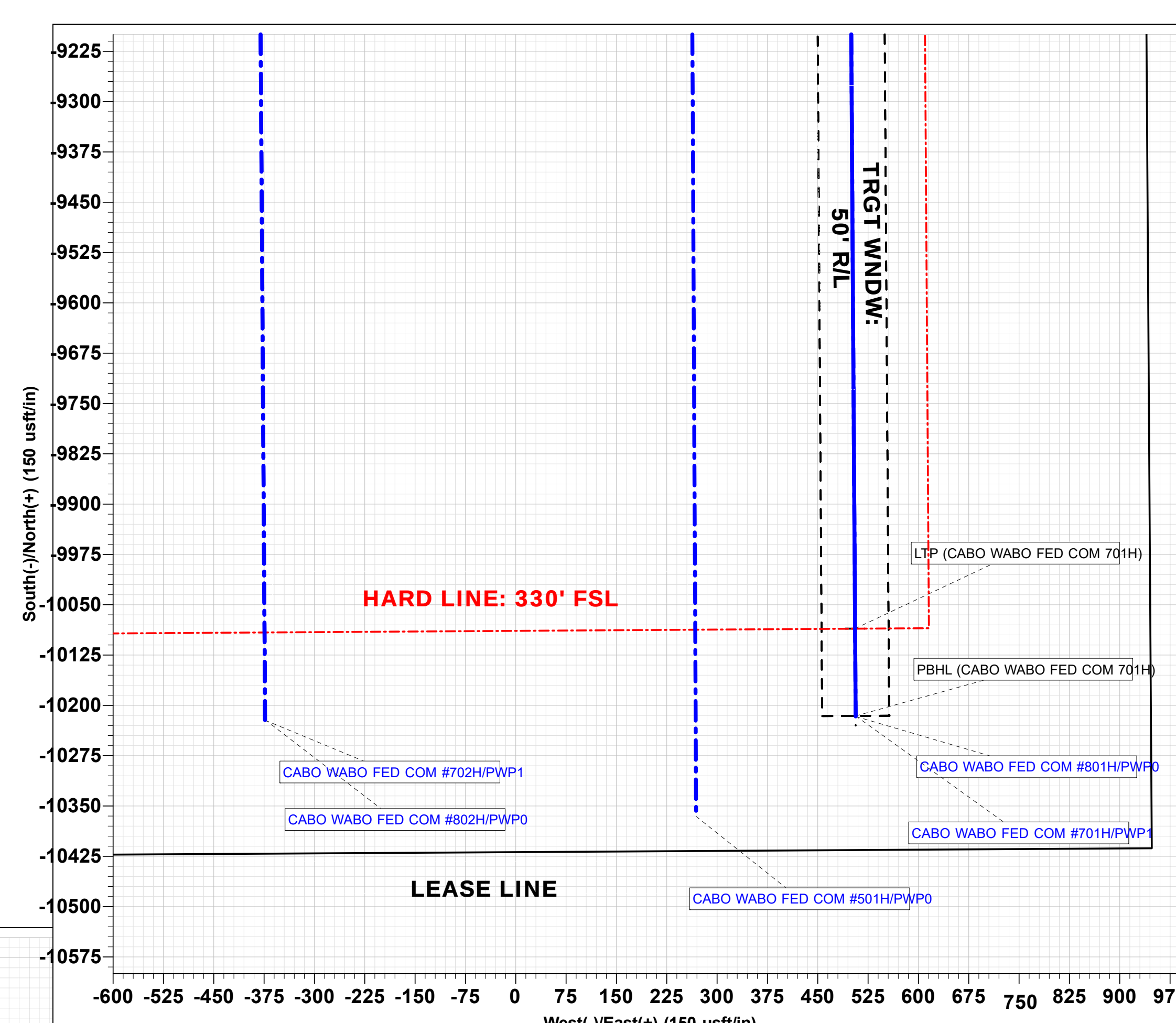
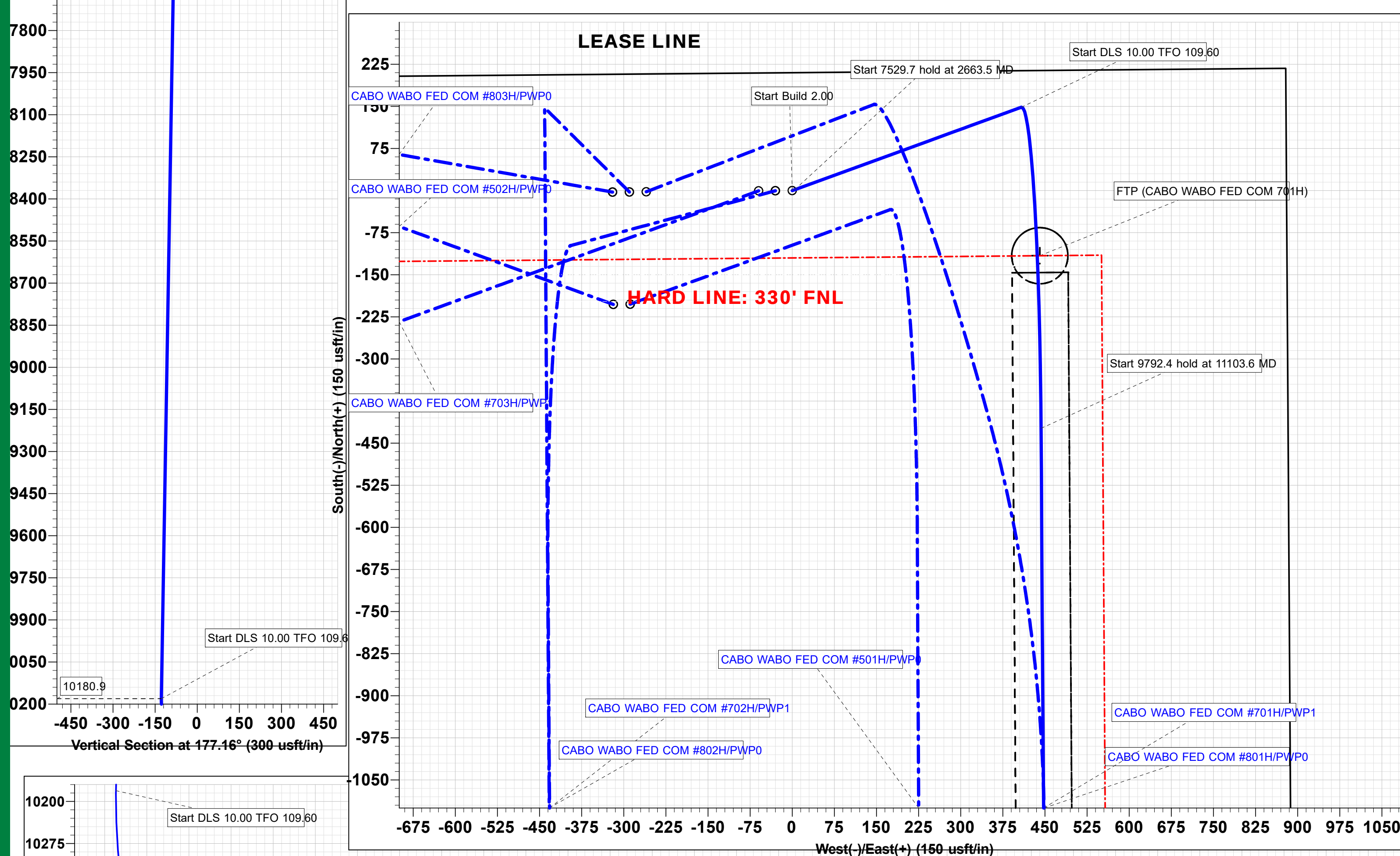
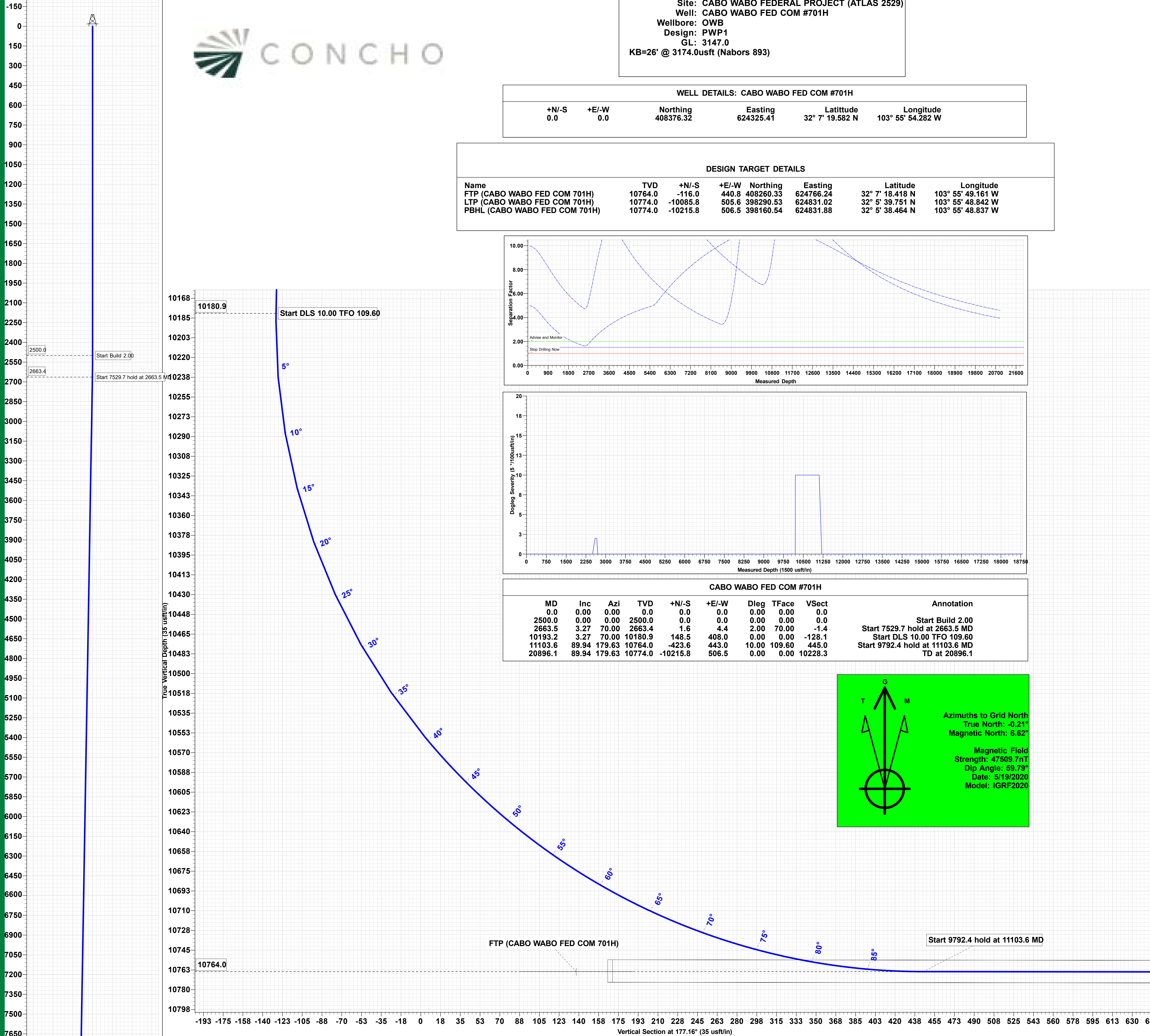
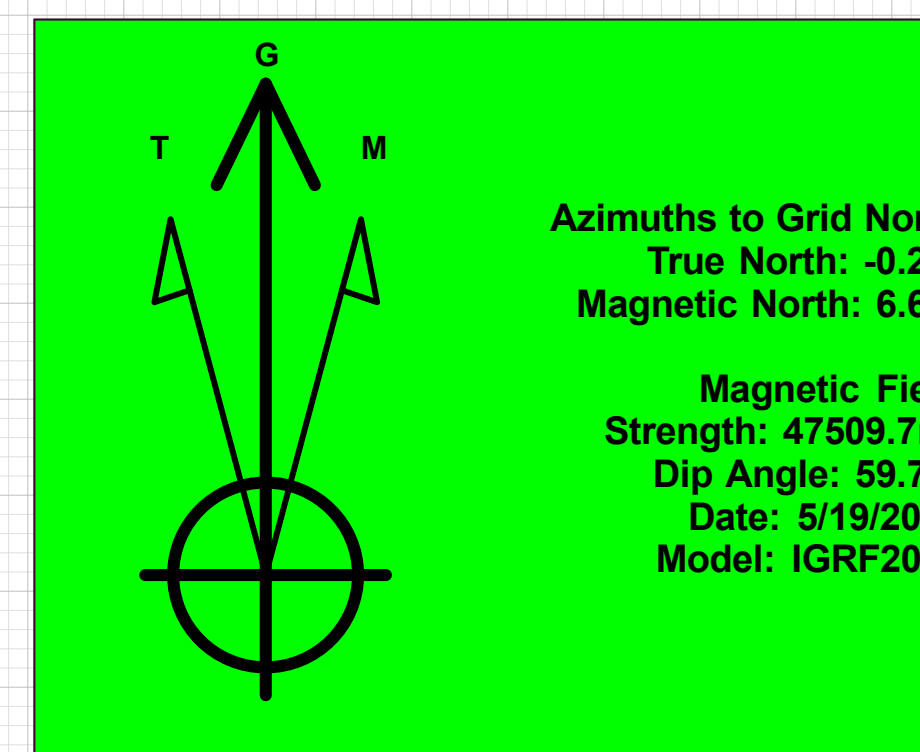
Project: ATLAS PROSPECT (NM-E)
Site: CABO WABO FEDERAL PROJECT (ATLAS 2529)
Well: CABO WABO FED COM #701H
Wellbore: OWB
Design: PWP1
GL: 3147.0
KB=26' @ 3174.0usft (Nabors 893)

WELL DETAILS: CABO WABO FED COM #701H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	408376.32	624325.41	32° 7' 19.582 N	103° 55' 54.282 W

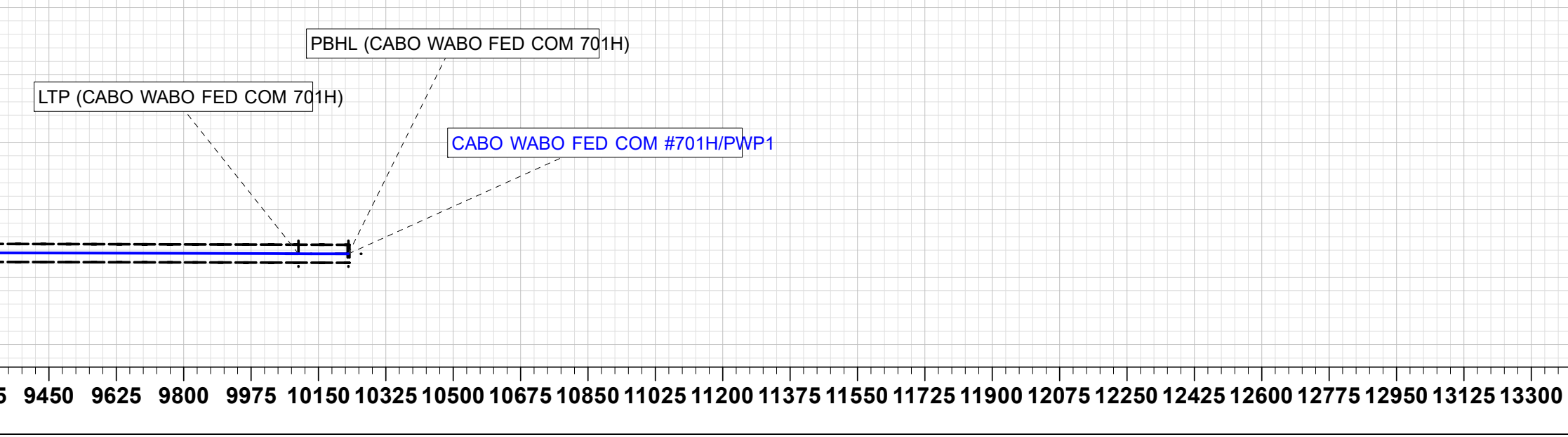
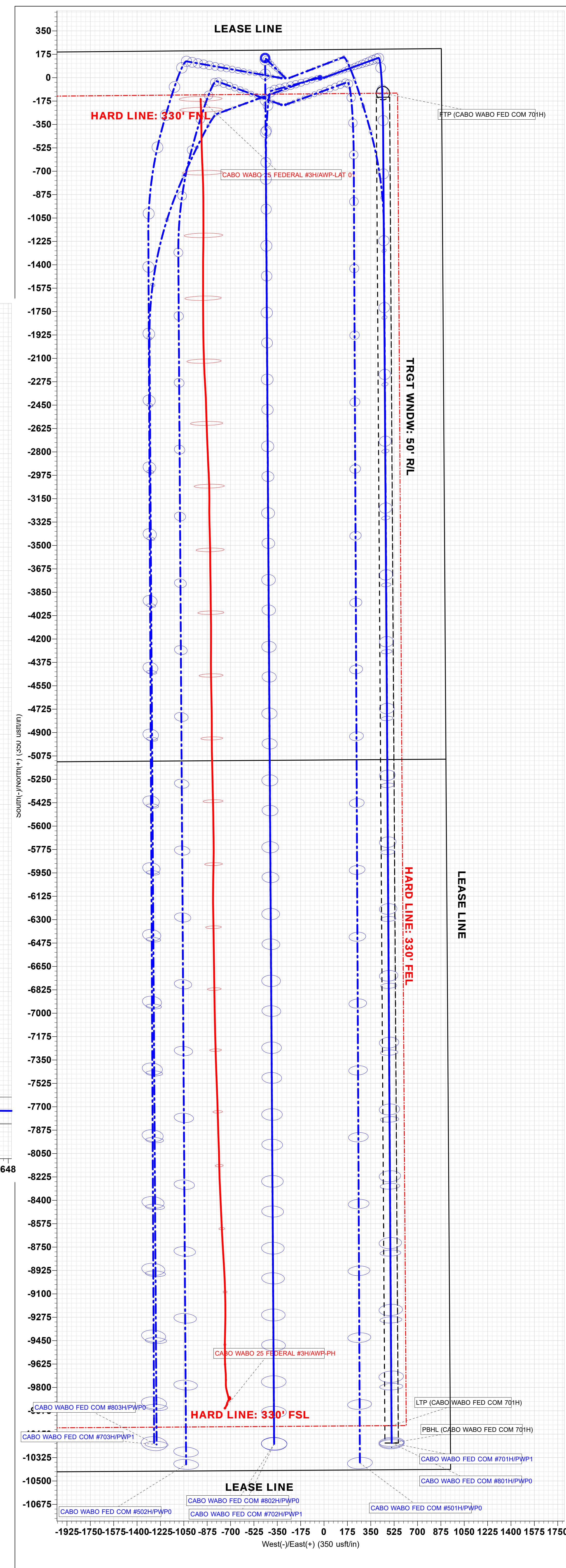
DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
FTP (CABO WABO FED COM 701H)	10764.0	-116.0	440.8	408260.33	624766.24	32° 7' 18.418 N
LTP (CABO WABO FED COM 701H)	10774.0	-10085.8	505.6	398290.53	624831.02	32° 5' 39.751 N
PBHL (CABO WABO FED COM 701H)	10774.0	-10215.8	506.5	398160.54	624831.88	32° 5' 38.464 N



CABO WABO FED COM #701H									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSet	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	
2663.5	3.27	70.00	2663.4	1.6	4.4	2.00	70.00	-1.4	Start 7529.7 hold at 2663.5 MD
10193.2	3.27	70.00	10180.9	148.5	408.0	0.00	0.00	-128.1	Start DLS 10.00 TFO 109.60
11103.6	89.94	179.63	10764.0	-423.6	443.0	10.00	109.60	445.0	Start 9792.4 hold at 11103.6 MD
20896.1	89.94	179.63	10774.0	-10215.8	506.5	0.00	0.00	10228.3	TD at 20896.1



TRGT WNDW:
10 A/B



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 82882

COMMENTS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 82882
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO review 2/23/2022	2/23/2022

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CONDITIONS

Action 82882

CONDITIONS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 82882
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	2/23/2022