

District I

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

District II

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

District III

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

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101

August 1, 2011

Permit 287257

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

1. Operator Name and Address COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701		2. OGRID Number 229137
		3. API Number 30-015-47522
4. Property Code 329730	5. Property Name MERCURY STATE COM	6. Well No. 703H

7. Surface Location

UL - Lot O	Section 18	Township 26S	Range 28E	Lot Idn O	Feet From 220	N/S Line S	Feet From 1460	E/W Line E	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot B	Section 7	Township 26S	Range 28E	Lot Idn B	Feet From 50	N/S Line N	Feet From 2310	E/W Line E	County Eddy
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9. Pool Information

PURPLE SAGE;WOLFCAMP (GAS)	98220
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Additional Well Information

11. Work Type New Well	12. Well Type GAS	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3067
16. Multiple N	17. Proposed Depth 19453	18. Formation Wolfcamp	19. Contractor	20. Spud Date 10/14/2020
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	14.75	10.75	45.5	675	450	0
Int1	9.875	7.625	29.7	8600	800	0
Prod	6.75	5.5	20	19453	1350	8100

Casing/Cement Program: Additional Comments

Drill 14-3/4" hole to ~675' w/ fresh water. Run 10-3/4" 45.5# J-55 BTC casing to TD and cement to surface in one stage. Drill 9-7/8" hole to ~8,600' with cut brine emulsion. Run 7-5/8 29.7# L-80 BTC to TD and cement to surface in single stage. Drill 6-3/4" vertical hole, curve & lateral to 19449' with OBM. Run 5-1/2" 20# P110 BTC casing from TD to surface and cement to 8100' in one stage.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.

Signature:

Printed Name: Electronically filed by Diane Kuykendall

Title: Production Accounting Director

Email Address: dkuykendall@concho.com

Date: 10/6/2020

Phone: 432-685-4372

OIL CONSERVATION DIVISION

Approved By: Scott Cox

Title: Petroleum Engineer Supervisor

Approved Date: 10/14/2020 Expiration Date: 10/14/2022

Conditions of Approval Attached

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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-	2 Pool Code 98220	3 Pool Name Purple Sage; Wolfcamp, Gas
4 Property Code	5 Property Name MERCURY STATE COM	6 Well Number 703H
7 OGRID No. 229137	8 Operator Name COG OPERATING LLC	9 Elevation 3067'

" Surface Location

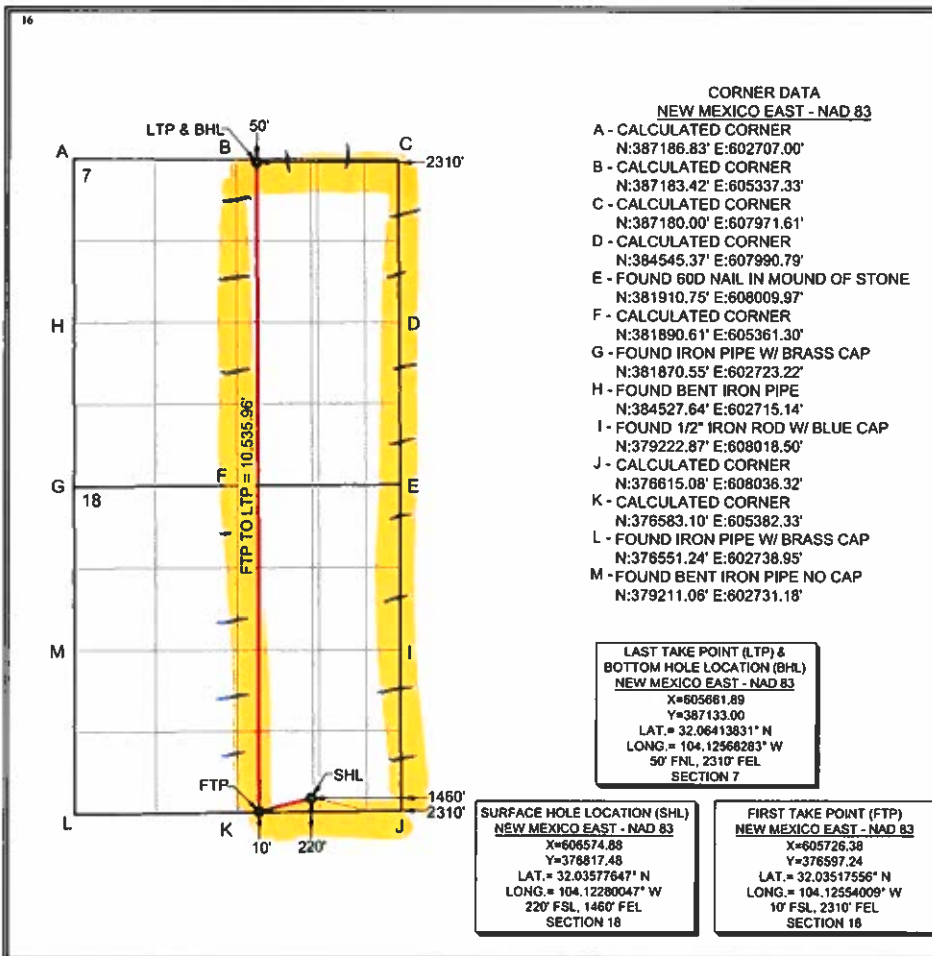
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	18	26-S	28-E		220'	SOUTH	1460'	EAST	EDDY

" Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	7	26-S	28-E		50'	NORTH	2310'	EAST	EDDY

12 Dedicated Acres 640	13 Joint or Infill	14 Consolidation Code	15 Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



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.

Signature M. R. R. 10-1-2020 Date

Mayte Reyes

Printed Name

mreyes1@concho.com

E-mail Address

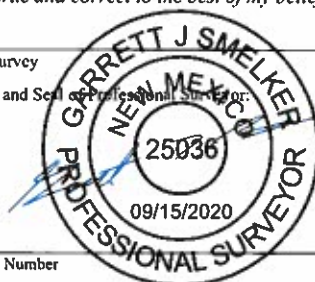
"SURVEYOR CERTIFICATION

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

Date of Survey

Signature and Seal of Professional Surveyor

Certificate Number



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GAS CAPTURE PLAN

Date: 10/14/2020

☒ Original

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

☐ Amended - Reason for
Amendment:

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

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

Well(s)/Production Facility – Name of facility

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

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
MERCURY STATE COM #703H	30-015-47522	O-18-26S-28E	0220S 1460E	5429	None	It will require additional line to connect to the facility but the amount is unknown currently. Processing Plant Location: Sec 35, Blk 57, T2S, Culberson County, TX

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to ETC Texas Pipeline, Ltd. and will be connected to ETC Texas Pipeline, Ltd. Low Pressure gathering system located in Eddy County, New Mexico. It will require 0' of pipeline to connect the facility to Low Pressure gathering system. COG OPERATING LLC provides (periodically) to ETC Texas Pipeline, Ltd. a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, COG OPERATING LLC and ETC Texas Pipeline, Ltd. have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at ETC Texas Pipeline, Ltd. Processing Plant located in Sec. 02, Twn. 26S, Rng. 28E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

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

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

Alternatives to Reduce Flaring

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

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

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Form APD Comments

Permit 287257

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701		API Number: 30-015-47522
		Well: MERCURY STATE COM #703H

Created By	Comment	Comment Date
mreyes4	COG Operating has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore we do not believe that an H2S Contingency Plan would be necessary.	10/6/2020

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Form APD Conditions

Permit 287257

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701	API Number: 30-015-47522
	Well: MERCURY STATE COM #703H

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

DELAWARE BASIN WEST

**ATLAS PROSPECT (NM-E)
MERCURY STATE COM PROJECT
MERCURY ST COM #703H**

**OWB
PWP1**

Anticollision Report

28 September, 2020

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MERCURY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3097.0usft (TBD)
Reference Site:	MERCURY STATE COM PROJECT	MD Reference:	*KB=30' @ 3097.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MERCURY ST COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	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	9/28/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	19,453.4	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						
MERCURY STATE COM PROJECT						
MERCURY ST COM #701H - OWB - PWP1	2,415.6	2,418.6	60.5	42.6	3.379	CC
MERCURY ST COM #701H - OWB - PWP1	2,500.0	2,502.9	60.5	42.0	3.275	ES, SF
MERCURY ST COM #702H - OWB - PWP1	2,500.0	2,501.0	30.0	11.5	1.623	Advise and Monitor, CC, I
MYOX 30 & 31 STATE PROJECT (ATLAS 2528)						
MYOX 31 STATE COM #603H - OWB - AWP	19,453.6	19,218.0	326.0	223.3	3.173	CC, ES, SF
SRO STATE PROJECT (ATLAS 2628)						
SRO STATE UNIT #48H - LATERAL 01 - AWP-LAT 01	7,700.0	17,660.0	268.1	195.3	3.683	SF
SRO STATE UNIT #48H - LATERAL 01 - AWP-LAT 01	7,827.9	17,660.0	235.6	175.3	3.903	CC, ES
SRO STATE UNIT #48H - OWB-PILOT HOLE - AWP-PH	19,273.0	8,743.0	541.5	438.4	5.252	CC, ES
SRO STATE UNIT #48H - OWB-PILOT HOLE - AWP-PH	19,300.0	8,743.0	542.2	438.9	5.249	SF
WAY SOUTH PROJECT (ATLAS 2628)						
WAY SOUTH ST COM #705H - OWB - AWP	8,925.0	21,313.0	512.4	414.2	5.218	SF
WAY SOUTH ST COM #705H - OWB - AWP	9,000.0	21,313.0	491.5	400.5	5.402	ES
WAY SOUTH ST COM #705H - OWB - AWP	9,035.2	21,313.0	489.1	402.1	5.625	CC

Offset Design MERCURY STATE COM PROJECT - MERCURY ST COM #701H - 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		
0.0	0.0	3.0	3.0	3.0	3.0	89.22	0.8	60.5	60.5					
100.0	100.0	103.0	103.0	3.0	3.0	89.22	0.8	60.5	60.5	54.5	6.01	10.072		
200.0	200.0	203.0	203.0	3.0	3.0	89.22	0.8	60.5	60.5	54.4	6.08	9.950		
300.0	300.0	303.0	303.0	3.1	3.1	89.22	0.8	60.5	60.5	54.3	6.23	9.702		
400.0	400.0	403.0	403.0	3.2	3.2	89.22	0.8	60.5	60.5	54.0	6.47	9.354		
500.0	500.0	503.0	503.0	3.4	3.4	89.22	0.8	60.5	60.5	53.7	6.77	8.939		
600.0	600.0	603.0	603.0	3.6	3.6	89.22	0.8	60.5	60.5	53.4	7.13	8.487		
700.0	700.0	703.0	703.0	3.8	3.8	89.22	0.8	60.5	60.5	53.0	7.54	8.024		
800.0	800.0	803.0	803.0	4.0	4.0	89.22	0.8	60.5	60.5	52.5	7.99	7.568		
900.0	900.0	903.0	903.0	4.2	4.2	89.22	0.8	60.5	60.5	52.0	8.48	7.130		
1,000.0	1,000.0	1,003.0	1,003.0	4.5	4.5	89.22	0.8	60.5	60.5	51.5	9.00	6.718		
1,100.0	1,100.0	1,103.0	1,103.0	4.8	4.8	89.22	0.8	60.5	60.5	50.9	9.55	6.333		

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 MERCURY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3097.0usft (TBD)
Reference Site:	MERCURY STATE COM PROJECT	MD Reference:	*KB=30' @ 3097.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MERCURY ST COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MERCURY STATE COM PROJECT - MERCURY ST COM #701H - 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	
1,200.0	1,200.0	1,203.0	1,203.0	5.1	5.1	89.22	0.8	60.5	60.5	50.4	10.12	5.978	
1,300.0	1,300.0	1,303.0	1,303.0	5.3	5.4	89.22	0.8	60.5	60.5	49.8	10.70	5.651	
1,400.0	1,400.0	1,403.0	1,403.0	5.6	5.7	89.22	0.8	60.5	60.5	49.2	11.31	5.350	
1,500.0	1,500.0	1,503.0	1,503.0	6.0	6.0	89.22	0.8	60.5	60.5	48.6	11.92	5.075	
1,600.0	1,600.0	1,603.0	1,603.0	6.3	6.3	89.22	0.8	60.5	60.5	47.9	12.54	4.822	
1,700.0	1,700.0	1,703.0	1,703.0	6.6	6.6	89.22	0.8	60.5	60.5	47.3	13.18	4.590	
1,800.0	1,800.0	1,803.0	1,803.0	6.9	6.9	89.22	0.8	60.5	60.5	46.7	13.82	4.377	
1,900.0	1,900.0	1,903.0	1,903.0	7.2	7.2	89.22	0.8	60.5	60.5	46.0	14.47	4.181	
2,000.0	2,000.0	2,003.0	2,003.0	7.6	7.6	89.22	0.8	60.5	60.5	45.4	15.12	3.999	
2,100.0	2,100.0	2,103.0	2,103.0	7.9	7.9	89.22	0.8	60.5	60.5	44.7	15.79	3.832	
2,200.0	2,200.0	2,203.0	2,203.0	8.2	8.2	89.22	0.8	60.5	60.5	44.0	16.45	3.677	
2,300.0	2,300.0	2,303.0	2,303.0	8.6	8.6	89.22	0.8	60.5	60.5	43.4	17.12	3.533	
2,400.0	2,400.0	2,403.0	2,403.0	8.9	8.9	89.22	0.8	60.5	60.5	42.7	17.79	3.400	
2,415.6	2,415.6	2,418.6	2,418.6	8.9	9.0	89.22	0.8	60.5	60.5	42.6	17.90	3.379 CC	
2,500.0	2,500.0	2,502.9	2,502.9	9.2	9.2	89.22	0.8	60.5	60.5	42.0	18.47	3.275 ES, SF	
2,600.0	2,600.0	2,600.0	2,600.0	9.6	9.6	-170.48	0.6	62.2	64.0	44.9	19.10	3.351	
2,700.0	2,699.8	2,697.9	2,697.8	9.9	9.9	-170.49	-0.1	67.3	74.3	54.6	19.72	3.768	
2,750.5	2,750.2	2,746.5	2,746.2	10.0	10.0	-170.50	-0.7	71.0	82.1	62.0	20.02	4.099	
2,800.0	2,799.5	2,795.2	2,794.7	10.2	10.2	-170.53	-1.3	75.2	90.5	70.2	20.33	4.453	
2,900.0	2,899.1	2,893.7	2,892.9	10.5	10.5	-170.57	-2.5	83.6	107.7	86.7	20.98	5.133	
3,000.0	2,998.7	2,992.3	2,991.0	10.9	10.8	-170.60	-3.7	92.1	124.8	103.2	21.62	5.772	
3,100.0	3,098.3	3,090.8	3,089.2	11.2	11.2	-170.62	-4.9	100.6	141.9	119.7	22.28	6.372	
3,200.0	3,198.0	3,189.3	3,187.3	11.5	11.5	-170.64	-6.1	109.1	159.1	136.1	22.93	6.937	
3,300.0	3,297.6	3,287.8	3,285.5	11.9	11.8	-170.65	-7.3	117.5	176.2	152.6	23.59	7.469	
3,400.0	3,397.2	3,386.3	3,383.6	12.2	12.2	-170.67	-8.5	126.0	193.4	169.1	24.26	7.971	
3,500.0	3,496.8	3,484.9	3,481.8	12.5	12.5	-170.68	-9.7	134.5	210.5	185.6	24.92	8.446	
3,600.0	3,596.4	3,583.4	3,579.9	12.9	12.8	-170.69	-10.9	143.0	227.6	202.0	25.59	8.895	
3,700.0	3,696.1	3,681.9	3,678.1	13.2	13.2	-170.69	-12.1	151.5	244.8	218.5	26.26	9.320	
3,800.0	3,795.7	3,780.4	3,776.2	13.6	13.5	-170.70	-13.3	159.9	261.9	235.0	26.94	9.723	
3,900.0	3,895.3	3,878.9	3,874.4	13.9	13.9	-170.71	-14.5	168.4	279.0	251.4	27.61	10.105	
4,000.0	3,994.9	3,977.5	3,972.5	14.3	14.2	-170.71	-15.7	176.9	296.2	267.9	28.29	10.468	
4,100.0	4,094.5	4,076.0	4,070.6	14.6	14.5	-170.71	-17.0	185.4	313.3	284.3	28.97	10.814	
4,200.0	4,194.1	4,174.5	4,168.8	15.0	14.9	-170.72	-18.2	193.8	330.4	300.8	29.65	11.143	
4,300.0	4,293.8	4,273.0	4,266.9	15.3	15.2	-170.72	-19.4	202.3	347.6	317.2	30.34	11.457	
4,400.0	4,393.4	4,371.5	4,365.1	15.7	15.6	-170.73	-20.6	210.8	364.7	333.7	31.02	11.756	
4,500.0	4,493.0	4,470.1	4,463.2	16.0	15.9	-170.73	-21.8	219.3	381.8	350.1	31.71	12.041	
4,600.0	4,592.6	4,568.6	4,561.4	16.4	16.2	-170.73	-23.0	227.7	399.0	366.6	32.40	12.314	
4,700.0	4,692.2	4,667.1	4,659.5	16.7	16.6	-170.73	-24.2	236.2	416.1	383.0	33.09	12.576	
4,800.0	4,791.8	4,765.6	4,757.7	17.1	16.9	-170.74	-25.4	244.7	433.3	399.5	33.78	12.826	
4,900.0	4,891.5	4,864.1	4,855.8	17.4	17.3	-170.74	-26.6	253.2	450.4	415.9	34.47	13.065	
5,000.0	4,991.1	4,962.7	4,954.0	17.8	17.6	-170.74	-27.8	261.6	467.5	432.4	35.17	13.295	
5,100.0	5,090.7	5,061.2	5,052.1	18.1	18.0	-170.74	-29.0	270.1	484.7	448.8	35.86	13.515	
5,200.0	5,190.3	5,159.7	5,150.3	18.5	18.3	-170.74	-30.2	278.6	501.8	465.2	36.56	13.727	
5,300.0	5,289.9	5,258.2	5,248.4	18.8	18.7	-170.74	-31.4	287.1	518.9	481.7	37.25	13.931	
5,400.0	5,389.6	5,356.8	5,346.6	19.2	19.0	-170.75	-32.6	295.5	536.1	498.1	37.95	14.126	
5,500.0	5,489.2	5,455.3	5,444.7	19.5	19.4	-170.75	-33.8	304.0	553.2	514.6	38.65	14.315	
5,600.0	5,588.8	5,553.8	5,542.9	19.9	19.7	-170.75	-35.0	312.5	570.3	531.0	39.35	14.496	
5,700.0	5,688.4	5,652.3	5,641.0	20.2	20.1	-170.75	-36.3	321.0	587.5	547.4	40.05	14.671	
5,800.0	5,788.0	5,750.8	5,739.2	20.6	20.4	-170.75	-37.5	329.5	604.6	563.9	40.75	14.839	
5,900.0	5,887.6	5,849.4	5,837.3	21.0	20.8	-170.75	-38.7	337.9	621.8	580.3	41.45	15.002	
6,000.0	5,987.3	5,947.9	5,935.5	21.3	21.1	-170.75	-39.9	346.4	638.9	596.7	42.15	15.158	
6,100.0	6,086.9	6,046.4	6,033.6	21.7	21.5	-170.75	-41.1	354.9	656.0	613.2	42.85	15.310	

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 MERCURY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3097.0usft (TBD)
Reference Site:	MERCURY STATE COM PROJECT	MD Reference:	*KB=30' @ 3097.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MERCURY ST COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	3.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,200.0	6,186.5	6,144.9	6,131.8	22.0	21.8	-170.76	-42.3	363.4	673.2	629.6	43.55	15.456	
6,300.0	6,286.1	6,243.4	6,229.9	22.4	22.2	-170.76	-43.5	371.8	690.3	646.0	44.26	15.598	
6,400.0	6,385.7	6,342.0	6,328.1	22.7	22.5	-170.76	-44.7	380.3	707.4	662.5	44.96	15.735	
6,500.0	6,485.4	6,440.5	6,426.2	23.1	22.9	-170.76	-45.9	388.8	724.6	678.9	45.66	15.868	
6,600.0	6,585.0	6,539.0	6,524.3	23.5	23.2	-170.76	-47.1	397.3	741.7	695.3	46.37	15.996	
6,700.0	6,684.6	6,637.5	6,622.5	23.8	23.6	-170.76	-48.3	405.7	758.8	711.8	47.07	16.120	
6,800.0	6,784.2	6,736.0	6,720.6	24.2	23.9	-170.76	-49.5	414.2	776.0	728.2	47.78	16.241	
6,900.0	6,883.8	6,834.6	6,818.8	24.5	24.3	-170.76	-50.7	422.7	793.1	744.6	48.49	16.358	
7,000.0	6,983.4	6,933.1	6,916.9	24.9	24.6	-170.76	-51.9	431.2	810.3	761.1	49.19	16.471	
7,100.0	7,083.1	7,031.6	7,015.1	25.2	25.0	-170.76	-53.1	439.6	827.4	777.5	49.90	16.581	
7,200.0	7,182.7	7,130.1	7,113.2	25.6	25.4	-170.76	-54.3	448.1	844.5	793.9	50.61	16.688	
7,300.0	7,282.3	7,228.6	7,211.4	26.0	25.7	-170.76	-55.6	456.6	861.7	810.3	51.31	16.792	
7,400.0	7,381.9	7,327.2	7,309.5	26.3	26.1	-170.76	-56.8	465.1	878.8	826.8	52.02	16.892	
7,500.0	7,481.5	7,425.7	7,407.7	26.7	26.4	-170.76	-58.0	473.5	895.9	843.2	52.73	16.990	
7,600.0	7,581.1	7,524.2	7,505.8	27.0	26.8	-170.77	-59.2	482.0	913.1	859.6	53.44	17.086	
7,700.0	7,680.8	7,622.7	7,604.0	27.4	27.1	-170.77	-60.4	490.5	930.2	876.1	54.15	17.178	
7,800.0	7,780.4	7,721.2	7,702.1	27.8	27.5	-170.77	-61.6	499.0	947.3	892.5	54.86	17.269	
7,900.0	7,880.0	7,819.8	7,800.3	28.1	27.8	-170.77	-62.8	507.5	964.5	908.9	55.57	17.356	
8,000.0	7,979.6	7,918.3	7,898.4	28.5	28.2	-170.77	-64.0	515.9	981.6	925.3	56.28	17.442	
8,100.0	8,079.2	8,016.8	7,996.6	28.8	28.5	-170.77	-65.2	524.4	998.8	941.8	56.99	17.525	

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MERCURY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3097.0usft (TBD)
Reference Site:	MERCURY STATE COM PROJECT	MD Reference:	*KB=30' @ 3097.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MERCURY ST COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MERCURY STATE COM PROJECT - MERCURY ST 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		Minimum		Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toelface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	1.0	1.0	3.0	3.0	89.89	0.1	30.0	30.0				
100.0	100.0	101.0	101.0	3.0	3.0	89.89	0.1	30.0	30.0	24.0	6.01	4.989	
200.0	200.0	201.0	201.0	3.0	3.0	89.89	0.1	30.0	30.0	23.9	6.08	4.929	
300.0	300.0	301.0	301.0	3.1	3.1	89.89	0.1	30.0	30.0	23.7	6.23	4.807	
400.0	400.0	401.0	401.0	3.2	3.2	89.89	0.1	30.0	30.0	23.5	6.46	4.635	
500.0	500.0	501.0	501.0	3.4	3.4	89.89	0.1	30.0	30.0	23.2	6.76	4.429	
600.0	600.0	601.0	601.0	3.6	3.6	89.89	0.1	30.0	30.0	22.8	7.12	4.206	
700.0	700.0	701.0	701.0	3.8	3.8	89.89	0.1	30.0	30.0	22.4	7.53	3.977	
800.0	800.0	801.0	801.0	4.0	4.0	89.89	0.1	30.0	30.0	22.0	7.99	3.751	
900.0	900.0	901.0	901.0	4.2	4.2	89.89	0.1	30.0	30.0	21.5	8.48	3.534	
1,000.0	1,000.0	1,001.0	1,001.0	4.5	4.5	89.89	0.1	30.0	30.0	21.0	9.00	3.329	
1,100.0	1,100.0	1,101.0	1,101.0	4.8	4.8	89.89	0.1	30.0	30.0	20.4	9.55	3.139	
1,200.0	1,200.0	1,201.0	1,201.0	5.1	5.1	89.89	0.1	30.0	30.0	19.8	10.11	2.963	
1,300.0	1,300.0	1,301.0	1,301.0	5.3	5.4	89.89	0.1	30.0	30.0	19.3	10.70	2.800	
1,400.0	1,400.0	1,401.0	1,401.0	5.6	5.7	89.89	0.1	30.0	30.0	18.7	11.30	2.651	
1,500.0	1,500.0	1,501.0	1,501.0	6.0	6.0	89.89	0.1	30.0	30.0	18.0	11.91	2.515	
1,600.0	1,600.0	1,601.0	1,601.0	6.3	6.3	89.89	0.1	30.0	30.0	17.4	12.54	2.390	
1,700.0	1,700.0	1,701.0	1,701.0	6.6	6.6	89.89	0.1	30.0	30.0	16.8	13.17	2.275	
1,800.0	1,800.0	1,801.0	1,801.0	6.9	6.9	89.89	0.1	30.0	30.0	16.1	13.81	2.169	
1,900.0	1,900.0	1,901.0	1,901.0	7.2	7.2	89.89	0.1	30.0	30.0	15.5	14.46	2.072	
2,000.0	2,000.0	2,001.0	2,001.0	7.6	7.6	89.89	0.1	30.0	30.0	14.8	15.12	1.982 Advise and Monitor	
2,100.0	2,100.0	2,101.0	2,101.0	7.9	7.9	89.89	0.1	30.0	30.0	14.2	15.78	1.899 Advise and Monitor	
2,200.0	2,200.0	2,201.0	2,201.0	8.2	8.2	89.89	0.1	30.0	30.0	13.5	16.44	1.822 Advise and Monitor	
2,300.0	2,300.0	2,301.0	2,301.0	8.6	8.6	89.89	0.1	30.0	30.0	12.8	17.11	1.751 Advise and Monitor	
2,400.0	2,400.0	2,401.0	2,401.0	8.9	8.9	89.89	0.1	30.0	30.0	12.2	17.79	1.684 Advise and Monitor	
2,500.0	2,500.0	2,501.0	2,501.0	9.2	9.2	89.89	0.1	30.0	30.0	11.5	18.46	1.623 Advise and Monitor	
2,500.0	2,500.0	2,501.0	2,501.0	9.2	9.2	89.89	0.1	30.0	30.0	11.5	18.46	1.623 Advise and Monitor, CC, ES, SF	
2,600.0	2,600.0	2,601.0	2,600.9	9.6	9.6	-167.15	-1.7	29.9	31.7	12.6	19.11	1.657 Advise and Monitor	
2,700.0	2,699.8	2,700.6	2,700.5	9.9	9.9	-160.80	-7.0	29.8	37.1	17.4	19.74	1.882 Advise and Monitor	
2,750.5	2,750.2	2,750.9	2,750.7	10.0	10.0	-157.74	-10.5	29.8	41.4	21.4	20.06	2.066	
2,800.0	2,799.5	2,800.2	2,799.8	10.2	10.2	-155.56	-13.9	29.7	46.1	25.7	20.37	2.264	
2,900.0	2,899.1	2,899.7	2,899.0	10.5	10.5	-152.29	-20.8	29.6	55.7	34.7	21.01	2.653	
3,000.0	2,998.7	2,999.2	2,998.3	10.9	10.8	-149.98	-27.8	29.5	65.5	43.8	21.65	3.025	
3,100.0	3,098.3	3,098.7	3,097.5	11.2	11.1	-148.27	-34.7	29.4	75.3	53.0	22.29	3.378	
3,200.0	3,198.0	3,198.1	3,196.8	11.5	11.4	-146.96	-41.7	29.2	85.2	62.2	22.95	3.712	
3,300.0	3,297.6	3,297.6	3,296.0	11.9	11.8	-145.92	-48.6	29.1	95.1	71.5	23.60	4.029	
3,400.0	3,397.2	3,397.1	3,395.3	12.2	12.1	-145.08	-55.5	29.0	105.0	80.8	24.26	4.329	
3,500.0	3,496.8	3,496.6	3,494.5	12.5	12.4	-144.38	-62.5	28.9	115.0	90.0	24.93	4.613	
3,600.0	3,596.4	3,596.1	3,593.8	12.9	12.7	-143.79	-69.4	28.7	124.9	99.3	25.59	4.882	
3,700.0	3,696.1	3,695.6	3,693.0	13.2	13.1	-143.29	-76.4	28.6	134.9	108.7	26.26	5.137	
3,800.0	3,795.7	3,795.1	3,792.3	13.6	13.4	-142.86	-83.3	28.5	144.9	118.0	26.94	5.380	
3,900.0	3,895.3	3,894.6	3,891.5	13.9	13.7	-142.49	-90.2	28.4	154.9	127.3	27.61	5.610	
4,000.0	3,994.9	3,994.1	3,990.8	14.3	14.1	-142.16	-97.2	28.3	164.9	136.6	28.29	5.829	
4,100.0	4,094.5	4,093.6	4,090.0	14.6	14.4	-141.86	-104.1	28.1	174.9	145.9	28.97	6.037	
4,200.0	4,194.1	4,193.1	4,189.3	15.0	14.7	-141.60	-111.1	28.0	184.9	155.3	29.65	6.236	
4,300.0	4,293.8	4,292.6	4,288.5	15.3	15.1	-141.37	-118.0	27.9	194.9	164.6	30.34	6.425	
4,400.0	4,393.4	4,392.1	4,387.8	15.7	15.4	-141.16	-124.9	27.8	204.9	173.9	31.03	6.605	
4,500.0	4,493.0	4,491.6	4,487.1	16.0	15.8	-140.97	-131.9	27.7	215.0	183.2	31.71	6.778	
4,600.0	4,592.6	4,591.1	4,586.3	16.4	16.1	-140.79	-138.8	27.5	225.0	192.6	32.40	6.943	
4,700.0	4,692.2	4,690.6	4,685.6	16.7	16.4	-140.63	-145.8	27.4	235.0	201.9	33.10	7.100	
4,800.0	4,791.8	4,790.1	4,784.8	17.1	16.8	-140.49	-152.7	27.3	245.0	211.2	33.79	7.251	
4,900.0	4,891.5	4,893.7	4,888.3	17.4	17.1	-140.69	-158.2	27.2	254.3	219.7	34.51	7.367	

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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Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MERCURY ST COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MERCURY STATE COM PROJECT - MERCURY ST 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						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,991.1	4,997.5	4,992.1	17.8	17.5	-141.61	-159.9	27.2	261.9	226.6	35.23	7.433	
5,100.0	5,090.7	5,097.1	5,091.7	18.1	17.8	-142.77	-159.9	27.2	268.8	232.8	35.92	7.482	
5,200.0	5,190.3	5,196.7	5,191.3	18.5	18.2	-143.86	-159.9	27.2	275.8	239.2	36.61	7.532	
5,300.0	5,289.9	5,296.4	5,290.9	18.8	18.5	-144.91	-159.9	27.2	282.9	245.6	37.31	7.582	
5,400.0	5,389.6	5,396.0	5,390.6	19.2	18.9	-145.90	-159.9	27.2	290.1	252.1	38.00	7.633	
5,500.0	5,489.2	5,495.6	5,490.2	19.5	19.2	-146.84	-159.9	27.2	297.4	258.7	38.70	7.684	
5,600.0	5,588.8	5,595.2	5,589.8	19.9	19.6	-147.74	-159.9	27.2	304.7	265.3	39.40	7.734	
5,700.0	5,688.4	5,694.8	5,689.4	20.2	19.9	-148.59	-159.9	27.2	312.1	272.1	40.10	7.785	
5,800.0	5,788.0	5,794.5	5,789.0	20.6	20.3	-149.41	-159.9	27.2	319.6	278.8	40.79	7.835	
5,900.0	5,887.6	5,894.1	5,888.6	21.0	20.6	-150.18	-159.9	27.2	327.2	285.7	41.49	7.885	
6,000.0	5,987.3	5,993.7	5,988.3	21.3	20.9	-150.93	-159.9	27.2	334.8	292.6	42.19	7.935	
6,100.0	6,086.9	6,093.3	6,087.9	21.7	21.3	-151.64	-159.9	27.2	342.5	299.6	42.89	7.984	
6,200.0	6,186.5	6,192.9	6,187.5	22.0	21.6	-152.31	-159.9	27.2	350.2	306.6	43.60	8.033	
6,300.0	6,286.1	6,292.5	6,287.1	22.4	22.0	-152.96	-159.9	27.2	358.0	313.7	44.30	8.081	
6,400.0	6,385.7	6,392.2	6,386.7	22.7	22.3	-153.58	-159.9	27.2	365.8	320.8	45.00	8.128	
6,500.0	6,485.4	6,491.8	6,486.4	23.1	22.7	-154.18	-159.9	27.2	373.6	327.9	45.70	8.175	
6,600.0	6,585.0	6,591.4	6,586.0	23.5	23.0	-154.75	-159.9	27.2	381.5	335.1	46.41	8.221	
6,700.0	6,684.6	6,691.0	6,685.6	23.8	23.4	-155.30	-159.9	27.2	389.4	342.3	47.11	8.266	
6,800.0	6,784.2	6,790.6	6,785.2	24.2	23.7	-155.82	-159.9	27.2	397.4	349.6	47.82	8.311	
6,900.0	6,883.8	6,890.3	6,884.8	24.5	24.1	-156.33	-159.9	27.2	405.4	356.8	48.52	8.354	
7,000.0	6,983.4	6,989.9	6,984.4	24.9	24.4	-156.82	-159.9	27.2	413.4	364.2	49.23	8.398	
7,100.0	7,083.1	7,089.5	7,084.1	25.2	24.8	-157.28	-159.9	27.2	421.4	371.5	49.93	8.440	
7,200.0	7,182.7	7,189.1	7,183.7	25.6	25.1	-157.73	-159.9	27.2	429.5	378.9	50.64	8.482	
7,300.0	7,282.3	7,288.7	7,283.3	26.0	25.5	-158.17	-159.9	27.2	437.6	386.3	51.35	8.523	
7,400.0	7,381.9	7,388.3	7,382.9	26.3	25.8	-158.58	-159.9	27.2	445.7	393.7	52.05	8.563	
7,500.0	7,481.5	7,488.0	7,482.5	26.7	26.2	-158.99	-159.9	27.2	453.9	401.1	52.76	8.603	
7,600.0	7,581.1	7,587.6	7,582.1	27.0	26.5	-159.37	-159.9	27.2	462.0	408.6	53.47	8.641	
7,700.0	7,680.8	7,687.2	7,681.8	27.4	26.9	-159.75	-159.9	27.2	470.2	416.1	54.18	8.680	
7,800.0	7,780.4	7,786.8	7,781.4	27.8	27.2	-160.11	-159.9	27.2	478.4	423.6	54.88	8.717	
7,900.0	7,880.0	7,886.4	7,881.0	28.1	27.6	-160.46	-159.9	27.2	486.7	431.1	55.59	8.754	
8,000.0	7,979.6	7,986.0	7,980.6	28.5	27.9	-160.80	-159.9	27.2	494.9	438.6	56.30	8.790	
8,100.0	8,079.2	8,085.7	8,080.2	28.8	28.3	-161.12	-159.9	27.2	503.2	446.2	57.01	8.826	
8,200.0	8,178.9	8,185.3	8,179.9	29.2	28.6	-161.44	-159.9	27.2	511.4	453.7	57.72	8.861	
8,300.0	8,278.5	8,284.9	8,279.5	29.6	29.0	-161.75	-159.9	27.2	519.7	461.3	58.43	8.895	
8,400.0	8,378.1	8,384.5	8,379.1	29.9	29.3	-162.04	-159.9	27.2	528.0	468.9	59.14	8.928	
8,500.0	8,477.7	8,484.1	8,478.7	30.3	29.7	-162.33	-159.9	27.2	536.4	476.5	59.85	8.961	
8,600.0	8,577.3	8,583.8	8,578.3	30.6	30.0	-162.61	-159.9	27.2	544.7	484.1	60.56	8.994	
8,700.0	8,676.9	8,683.4	8,677.9	31.0	30.4	-162.88	-159.9	27.2	553.0	491.8	61.27	9.026	
8,711.4	8,688.3	8,694.7	8,689.3	31.1	30.4	-162.91	-159.9	27.2	554.0	492.6	61.35	9.029	
8,725.0	8,701.8	8,709.3	8,703.9	31.1	30.5	-179.56	-159.9	27.2	555.2	493.7	61.46	9.034	
8,750.0	8,726.7	8,738.2	8,732.8	31.2	30.6	159.76	-158.6	27.2	557.8	496.2	61.66	9.047	
8,775.0	8,751.4	8,767.0	8,761.4	31.3	30.7	148.12	-155.5	27.1	560.9	499.0	61.85	9.069	
8,800.0	8,775.9	8,795.7	8,789.7	31.4	30.8	141.00	-150.8	27.1	564.4	502.4	62.04	9.098	
8,825.0	8,800.1	8,824.2	8,817.5	31.5	30.9	136.16	-144.4	27.1	568.4	506.2	62.22	9.135	
8,850.0	8,824.1	8,852.6	8,844.7	31.5	31.0	132.56	-136.4	27.1	572.8	510.4	62.40	9.179	
8,875.0	8,847.6	8,880.7	8,871.1	31.6	31.1	129.69	-126.9	27.0	577.6	515.0	62.57	9.231	
8,900.0	8,870.6	8,908.6	8,896.8	31.7	31.1	127.25	-115.9	27.0	582.9	520.1	62.74	9.290	
8,925.0	8,893.2	8,936.2	8,921.5	31.8	31.2	125.11	-103.6	26.9	588.5	525.6	62.91	9.356	
8,950.0	8,915.1	8,963.6	8,945.3	31.9	31.3	123.14	-90.0	26.9	594.6	531.5	63.06	9.428	
8,975.0	8,936.4	8,990.7	8,968.0	31.9	31.4	121.30	-75.2	26.8	601.0	537.8	63.21	9.507	
9,000.0	8,957.0	9,017.6	8,989.6	32.0	31.5	119.54	-59.4	26.7	607.8	544.5	63.36	9.593	
9,025.0	8,976.8	9,044.1	9,010.1	32.1	31.5	117.83	-42.5	26.7	615.0	551.5	63.50	9.684	

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 MERCURY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3097.0usft (TBD)
Reference Site:	MERCURY STATE COM PROJECT	MD Reference:	*KB=30' @ 3097.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MERCURY ST COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MERCURY STATE COM PROJECT - MERCURY ST 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 Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,050.0	8,995.9	9,070.4	9,029.5	32.1	31.6	116.16	-24.7	26.6	622.5	558.9	63.64	9.781	
9,075.0	9,014.0	9,096.5	9,047.7	32.2	31.7	114.51	-6.0	26.5	630.3	566.5	63.77	9.884	
9,100.0	9,031.2	9,122.3	9,064.6	32.3	31.7	112.88	13.4	26.4	638.4	574.5	63.90	9.992	
9,125.0	9,047.5	9,147.8	9,080.3	32.3	31.8	111.26	33.6	26.3	646.8	582.8	64.01	10.105	
9,150.0	9,062.8	9,173.1	9,094.9	32.3	31.8	109.65	54.3	26.3	655.5	591.4	64.13	10.222	
9,175.0	9,077.0	9,198.2	9,108.1	32.4	31.9	108.04	75.6	26.2	664.4	600.1	64.23	10.343	
9,200.0	9,090.1	9,223.1	9,120.2	32.4	31.9	106.45	97.4	26.1	673.5	609.1	64.33	10.468	
9,225.0	9,102.1	9,247.9	9,131.0	32.5	32.0	104.87	119.6	26.0	682.7	618.3	64.43	10.597	
9,250.0	9,112.9	9,272.4	9,140.6	32.5	32.0	103.30	142.2	25.9	692.2	627.6	64.51	10.729	
9,275.0	9,122.5	9,296.8	9,149.0	32.5	32.0	101.74	165.1	25.8	701.7	637.1	64.59	10.863	
9,300.0	9,131.0	9,321.1	9,156.2	32.6	32.1	100.20	188.4	25.7	711.3	646.7	64.67	11.000	
9,325.0	9,138.2	9,345.3	9,162.1	32.6	32.1	98.68	211.8	25.6	721.1	656.3	64.74	11.138	
9,350.0	9,144.1	9,369.4	9,166.9	32.7	32.1	97.19	235.4	25.5	730.8	666.0	64.80	11.278	
9,375.0	9,148.8	9,393.4	9,170.4	32.7	32.2	95.73	259.2	25.4	740.6	675.7	64.86	11.419	
9,400.0	9,152.1	9,417.4	9,172.7	32.7	32.2	94.30	283.1	25.3	750.4	685.5	64.91	11.561	
9,425.0	9,154.2	9,441.4	9,173.8	32.8	32.2	92.90	307.0	25.2	760.1	695.1	64.95	11.702	
9,449.4	9,155.0	9,464.2	9,174.0	32.8	32.2	91.60	329.8	25.1	769.5	704.5	64.99	11.840	
9,500.0	9,155.3	9,511.2	9,174.3	32.9	32.3	91.53	376.8	24.9	788.2	723.1	65.08	12.111	
9,600.0	9,155.9	9,606.0	9,174.9	33.0	32.4	91.42	471.5	24.5	820.1	754.8	65.28	12.563	
9,700.0	9,156.5	9,702.7	9,175.5	33.2	32.5	91.33	568.3	24.1	845.4	779.8	65.53	12.900	
9,800.0	9,157.2	9,800.9	9,176.0	33.4	32.6	91.25	666.5	23.7	863.8	798.0	65.82	13.123	
9,900.0	9,157.8	9,900.3	9,176.6	33.5	32.8	91.20	765.8	23.3	875.3	809.2	66.16	13.231	
10,000.0	9,158.4	10,000.1	9,177.2	33.7	33.0	91.16	865.7	22.8	879.9	813.4	66.53	13.226	
10,015.8	9,158.5	10,015.9	9,177.3	33.8	33.0	91.16	881.5	22.8	880.0	813.4	66.60	13.214	
10,100.0	9,159.0	10,100.1	9,177.8	33.9	33.2	91.16	965.7	22.4	880.0	813.1	66.94	13.145	
10,200.0	9,159.6	10,200.1	9,178.4	34.2	33.4	91.16	1,065.7	22.0	880.0	812.6	67.40	13.057	
10,300.0	9,160.3	10,300.1	9,179.0	34.4	33.7	91.15	1,165.7	21.6	880.0	812.1	67.90	12.962	
10,400.0	9,160.9	10,400.1	9,179.6	34.7	33.9	91.15	1,265.7	21.2	880.0	811.6	68.43	12.860	
10,500.0	9,161.5	10,500.1	9,180.2	34.9	34.2	91.15	1,365.7	20.7	880.0	811.0	69.00	12.753	
10,600.0	9,162.1	10,600.1	9,180.8	35.2	34.5	91.15	1,465.7	20.3	880.0	810.4	69.62	12.641	
10,700.0	9,162.7	10,700.1	9,181.4	35.6	34.8	91.15	1,565.7	19.9	880.0	809.8	70.26	12.525	
10,800.0	9,163.4	10,800.1	9,181.9	35.9	35.2	91.14	1,665.7	19.5	880.0	809.1	70.95	12.404	
10,900.0	9,164.0	10,900.1	9,182.5	36.2	35.5	91.14	1,765.7	19.0	880.1	808.4	71.67	12.280	
11,000.0	9,164.6	11,000.1	9,183.1	36.6	35.9	91.14	1,865.7	18.6	880.1	807.6	72.42	12.152	
11,100.0	9,165.2	11,100.1	9,183.7	37.0	36.3	91.14	1,965.7	18.2	880.1	806.9	73.20	12.022	
11,200.0	9,165.8	11,200.1	9,184.3	37.4	36.7	91.14	2,065.7	17.8	880.1	806.0	74.02	11.890	
11,300.0	9,166.5	11,300.1	9,184.9	37.8	37.2	91.14	2,165.7	17.4	880.1	805.2	74.87	11.755	
11,400.0	9,167.1	11,400.1	9,185.5	38.3	37.6	91.13	2,265.7	16.9	880.1	804.3	75.74	11.619	
11,500.0	9,167.7	11,500.1	9,186.1	38.7	38.1	91.13	2,365.7	16.5	880.1	803.4	76.65	11.482	
11,600.0	9,168.3	11,600.1	9,186.7	39.2	38.5	91.13	2,465.7	16.1	880.1	802.5	77.58	11.344	
11,700.0	9,168.9	11,700.1	9,187.3	39.6	39.0	91.13	2,565.7	15.7	880.1	801.5	78.54	11.206	
11,800.0	9,169.6	11,800.1	9,187.9	40.1	39.5	91.13	2,665.7	15.3	880.1	800.6	79.52	11.067	
11,900.0	9,170.2	11,900.1	9,188.5	40.6	40.0	91.12	2,765.7	14.8	880.1	799.6	80.53	10.928	
12,000.0	9,170.8	12,000.1	9,189.0	41.1	40.5	91.12	2,865.7	14.4	880.1	798.5	81.57	10.790	
12,100.0	9,171.4	12,100.1	9,189.6	41.7	41.1	91.12	2,965.7	14.0	880.1	797.5	82.62	10.652	
12,200.0	9,172.0	12,200.1	9,190.2	42.2	41.6	91.12	3,065.7	13.6	880.1	796.4	83.70	10.515	
12,300.0	9,172.7	12,300.1	9,190.8	42.7	42.2	91.12	3,165.7	13.1	880.1	795.3	84.80	10.379	
12,400.0	9,173.3	12,400.1	9,191.4	43.3	42.7	91.12	3,265.7	12.7	880.1	794.2	85.92	10.243	
12,500.0	9,173.9	12,500.1	9,192.0	43.8	43.3	91.11	3,365.6	12.3	880.1	793.1	87.06	10.110	
12,600.0	9,174.5	12,600.1	9,192.6	44.4	43.9	91.11	3,465.6	11.9	880.1	791.9	88.21	9.977	
12,700.0	9,175.1	12,700.1	9,193.2	45.0	44.5	91.11	3,565.6	11.5	880.1	790.7	89.39	9.846	
12,800.0	9,175.8	12,800.1	9,193.8	45.6	45.1	91.11	3,665.6	11.0	880.1	789.5	90.58	9.716	

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 MERCURY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3097.0usft (TBD)
Reference Site:	MERCURY STATE COM PROJECT	MD Reference:	*KB=30' @ 3097.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MERCURY ST COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MERCURY STATE COM PROJECT - MERCURY ST 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 Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,900.0	9,176.4	12,900.1	9,194.4	46.2	45.7	91.11	3,765.6	10.6	880.1	788.3	91.79	9.588	
13,000.0	9,177.0	13,000.1	9,195.0	46.8	46.3	91.10	3,865.6	10.2	880.1	787.1	93.02	9.462	
13,100.0	9,177.6	13,100.1	9,195.6	47.4	46.9	91.10	3,965.6	9.8	880.1	785.9	94.26	9.337	
13,200.0	9,178.2	13,200.1	9,196.1	48.0	47.5	91.10	4,065.6	9.4	880.1	784.6	95.52	9.215	
13,300.0	9,178.9	13,300.1	9,196.7	48.7	48.2	91.10	4,165.6	8.9	880.1	783.4	96.79	9.094	
13,400.0	9,179.5	13,400.1	9,197.3	49.3	48.8	91.10	4,265.6	8.5	880.1	782.1	98.07	8.975	
13,500.0	9,180.1	13,500.1	9,197.9	49.9	49.5	91.10	4,365.6	8.1	880.1	780.8	99.37	8.858	
13,600.0	9,180.7	13,600.1	9,198.5	50.6	50.1	91.09	4,465.6	7.7	880.2	779.5	100.68	8.742	
13,700.0	9,181.3	13,700.1	9,199.1	51.3	50.8	91.09	4,565.6	7.3	880.2	778.2	102.00	8.629	
13,800.0	9,182.0	13,800.1	9,199.7	51.9	51.5	91.09	4,665.6	6.8	880.2	776.8	103.33	8.518	
13,900.0	9,182.6	13,900.1	9,200.3	52.6	52.1	91.09	4,765.6	6.4	880.2	775.5	104.67	8.409	
14,000.0	9,183.2	14,000.1	9,200.9	53.3	52.8	91.09	4,865.6	6.0	880.2	774.1	106.03	8.301	
14,100.0	9,183.8	14,100.1	9,201.5	53.9	53.5	91.08	4,965.6	5.6	880.2	772.8	107.40	8.196	
14,200.0	9,184.4	14,200.1	9,202.1	54.6	54.2	91.08	5,065.6	5.1	880.2	771.4	108.77	8.092	
14,211.0	9,184.5	14,212.8	9,202.1	54.7	54.3	91.08	5,078.2	5.1	880.2	771.2	108.94	8.079	
14,219.6	9,184.6	14,222.3	9,202.2	54.8	54.3	91.08	5,087.8	5.0	880.2	771.1	109.07	8.070	
14,300.0	9,185.1	14,302.8	9,202.7	55.3	54.9	91.08	5,168.3	4.4	880.2	770.0	110.18	7.988	
14,400.0	9,185.7	14,402.8	9,203.3	56.0	55.6	91.08	5,268.2	3.7	880.2	768.6	111.58	7.888	
14,500.0	9,186.3	14,502.8	9,203.8	56.7	56.3	91.08	5,368.2	3.0	880.2	767.2	112.98	7.790	
14,600.0	9,186.9	14,602.8	9,204.4	57.4	57.0	91.08	5,468.2	2.3	880.2	765.8	114.40	7.694	
14,700.0	9,187.5	14,702.8	9,205.0	58.1	57.7	91.07	5,568.2	1.5	880.2	764.3	115.82	7.600	
14,800.0	9,188.2	14,802.8	9,205.6	58.8	58.4	91.07	5,668.2	0.8	880.2	762.9	117.25	7.507	
14,900.0	9,188.8	14,902.8	9,206.2	59.5	59.2	91.07	5,768.2	0.1	880.2	761.5	118.68	7.416	
15,000.0	9,189.4	15,002.8	9,206.8	60.3	59.9	91.07	5,868.2	-0.6	880.1	760.0	120.13	7.327	
15,100.0	9,190.0	15,102.8	9,207.4	61.0	60.6	91.07	5,968.2	-1.3	880.1	758.6	121.58	7.239	
15,200.0	9,190.6	15,202.8	9,208.0	61.7	61.4	91.06	6,068.2	-2.1	880.1	757.1	123.04	7.154	
15,300.0	9,191.3	15,302.8	9,208.6	62.4	62.1	91.06	6,168.2	-2.8	880.1	755.6	124.50	7.069	
15,400.0	9,191.9	15,402.8	9,209.1	63.2	62.8	91.06	6,268.2	-3.5	880.1	754.2	125.97	6.987	
15,500.0	9,192.5	15,502.8	9,209.7	63.9	63.6	91.06	6,368.2	-4.2	880.1	752.7	127.45	6.906	
15,600.0	9,193.1	15,602.8	9,210.3	64.6	64.3	91.06	6,468.2	-5.0	880.1	751.2	128.93	6.826	
15,700.0	9,193.7	15,702.8	9,210.9	65.4	65.1	91.05	6,568.2	-5.7	880.1	749.7	130.42	6.748	
15,800.0	9,194.4	15,802.8	9,211.5	66.1	65.8	91.05	6,668.2	-6.4	880.1	748.2	131.92	6.672	
15,900.0	9,195.0	15,902.8	9,212.1	66.9	66.6	91.05	6,768.2	-7.1	880.1	746.7	133.42	6.597	
16,000.0	9,195.6	16,002.8	9,212.7	67.6	67.3	91.05	6,868.2	-7.9	880.1	745.2	134.92	6.523	
16,100.0	9,196.2	16,102.8	9,213.3	68.4	68.1	91.05	6,968.2	-8.6	880.1	743.7	136.43	6.451	
16,200.0	9,196.8	16,202.8	9,213.9	69.1	68.8	91.04	7,068.2	-9.3	880.1	742.2	137.95	6.380	
16,300.0	9,197.4	16,302.8	9,214.5	69.9	69.6	91.04	7,168.2	-10.0	880.1	740.7	139.47	6.311	
16,400.0	9,198.1	16,402.8	9,215.0	70.7	70.4	91.04	7,268.2	-10.7	880.1	739.1	141.00	6.242	
16,500.0	9,198.7	16,502.8	9,215.6	71.4	71.1	91.04	7,368.2	-11.5	880.1	737.6	142.52	6.175	
16,600.0	9,199.3	16,602.8	9,216.2	72.2	71.9	91.04	7,468.2	-12.2	880.1	736.1	144.06	6.110	
16,700.0	9,199.9	16,702.8	9,216.8	72.9	72.7	91.03	7,568.1	-12.9	880.1	734.5	145.60	6.045	
16,800.0	9,200.5	16,802.8	9,217.4	73.7	73.4	91.03	7,668.1	-13.6	880.1	733.0	147.14	5.982	
16,900.0	9,201.2	16,902.8	9,218.0	74.5	74.2	91.03	7,768.1	-14.4	880.1	731.4	148.68	5.920	
17,000.0	9,201.8	17,002.8	9,218.6	75.3	75.0	91.03	7,868.1	-15.1	880.1	729.9	150.23	5.858	
17,100.0	9,202.4	17,102.8	9,219.2	76.0	75.8	91.03	7,968.1	-15.8	880.1	728.3	151.78	5.799	
17,200.0	9,203.0	17,202.8	9,219.8	76.8	76.5	91.02	8,068.1	-16.5	880.1	726.8	153.34	5.740	
17,300.0	9,203.6	17,302.8	9,220.3	77.6	77.3	91.02	8,168.1	-17.2	880.1	725.2	154.90	5.682	
17,400.0	9,204.3	17,402.8	9,220.9	78.4	78.1	91.02	8,268.1	-18.0	880.1	723.7	156.46	5.625	
17,500.0	9,204.9	17,502.8	9,221.5	79.1	78.9	91.02	8,368.1	-18.7	880.1	722.1	158.03	5.569	
17,600.0	9,205.5	17,602.8	9,222.1	79.9	79.7	91.02	8,468.1	-19.4	880.1	720.5	159.60	5.515	
17,700.0	9,206.1	17,702.8	9,222.7	80.7	80.5	91.01	8,568.1	-20.1	880.1	719.0	161.17	5.461	
17,800.0	9,206.7	17,802.8	9,223.3	81.5	81.2	91.01	8,668.1	-20.9	880.1	717.4	162.75	5.408	

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 MERCURY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3097.0usft (TBD)
Reference Site:	MERCURY STATE COM PROJECT	MD Reference:	*KB=30' @ 3097.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MERCURY ST COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MERCURY STATE COM PROJECT - MERCURY ST 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									
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
17,900.0	9,207.4	17,902.8	9,223.9	82.3	82.0	91.01	8,768.1	-21.6	880.1	715.8	164.33	5.356	
18,000.0	9,208.0	18,002.8	9,224.5	83.1	82.8	91.01	8,868.1	-22.3	880.1	714.2	165.91	5.305	
18,100.0	9,208.6	18,102.8	9,225.1	83.9	83.6	91.01	8,968.1	-23.0	880.1	712.6	167.49	5.255	
18,200.0	9,209.2	18,202.8	9,225.7	84.7	84.4	91.00	9,068.1	-23.8	880.1	711.0	169.08	5.205	
18,300.0	9,209.8	18,302.8	9,226.2	85.4	85.2	91.00	9,168.1	-24.5	880.1	709.4	170.67	5.157	
18,400.0	9,210.5	18,402.8	9,226.8	86.2	86.0	91.00	9,268.1	-25.2	880.1	707.9	172.26	5.109	
18,500.0	9,211.1	18,502.8	9,227.4	87.0	86.8	91.00	9,368.1	-25.9	880.1	706.3	173.85	5.062	
18,600.0	9,211.7	18,602.8	9,228.0	87.8	87.6	91.00	9,468.1	-26.6	880.1	704.7	175.45	5.016	
18,700.0	9,212.3	18,702.8	9,228.6	88.6	88.4	90.99	9,568.1	-27.4	880.1	703.1	177.05	4.971	
18,800.0	9,212.9	18,802.8	9,229.2	89.4	89.2	90.99	9,668.1	-28.1	880.1	701.5	178.65	4.926	
18,900.0	9,213.6	18,902.8	9,229.8	90.2	90.0	90.99	9,768.1	-28.8	880.1	699.9	180.25	4.883	
19,000.0	9,214.2	19,002.8	9,230.4	91.0	90.8	90.99	9,868.0	-29.5	880.1	698.3	181.86	4.840	
19,100.0	9,214.8	19,102.8	9,231.0	91.8	91.6	90.99	9,968.0	-30.3	880.1	696.6	183.47	4.797	
19,200.0	9,215.4	19,202.8	9,231.5	92.6	92.4	90.98	10,068.0	-31.0	880.1	695.0	185.08	4.755	
19,300.0	9,216.0	19,302.8	9,232.1	93.4	93.2	90.98	10,168.0	-31.7	880.1	693.4	186.69	4.714	
19,400.0	9,216.7	19,402.8	9,232.7	94.2	94.0	90.98	10,268.0	-32.4	880.1	691.8	188.30	4.674	
19,445.7	9,217.0	19,448.5	9,233.0	94.6	94.4	90.98	10,313.8	-32.8	880.1	691.1	189.04	4.656	
19,453.6	9,217.0	19,448.9	9,233.0	94.7	94.4	90.98	10,314.2	-32.8	880.1	691.1	189.07	4.655	

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MERCURY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3097.0usft (TBD)
Reference Site:	MERCURY STATE COM PROJECT	MD Reference:	*KB=30' @ 3097.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MERCURY ST COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design MYOX 30 & 31 STATE PROJECT (ATLAS 2528) - MYOX 31 STATE COM #603H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8380-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
18,800.0	9,212.9	19,218.0	9,185.8	89.5	88.2	98.20	10,599.6	-755.0	950.6	887.5	63.18	15.046	
18,900.0	9,213.6	19,218.0	9,185.8	90.3	88.2	98.20	10,599.6	-755.0	852.3	787.4	64.82	13.149	
19,000.0	9,214.2	19,218.0	9,185.8	91.1	88.2	98.20	10,599.6	-755.0	754.3	687.2	67.06	11.248	
19,100.0	9,214.8	19,218.0	9,185.8	91.9	88.2	98.20	10,599.6	-755.0	657.0	586.7	70.25	9.352	
19,200.0	9,215.4	19,218.0	9,185.8	92.7	88.2	98.20	10,599.6	-755.0	560.6	485.6	74.94	7.481	
19,300.0	9,216.0	19,218.0	9,185.8	93.5	88.2	98.20	10,599.6	-755.0	465.7	383.6	82.12	5.671	
19,400.0	9,216.7	19,218.0	9,185.8	94.3	88.2	98.20	10,599.6	-755.0	373.5	279.8	93.67	3.987	
19,453.6	9,217.0	19,218.0	9,185.8	94.7	88.2	98.20	10,599.6	-755.0	326.0	223.3	102.76	3.173 CC, ES, 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 MERCURY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3097.0usft (TBD)
Reference Site:	MERCURY STATE COM PROJECT	MD Reference:	*KB=30' @ 3097.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MERCURY ST COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design		SRO STATE PROJECT (ATLAS 2628) - SRO STATE UNIT #48H - LATERAL 01 - AWP-LAT 01											Offset Site Error:		0.0 usft
Survey Program:		100-GYRO-NS, 7443-MWD											Offset Well Error:		3.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
6,900.0	6,883.8	17,660.0	7,806.2	24.7	167.6	98.48	154.3	-454.7	957.3	867.0	90.33	10.598			
7,000.0	6,983.4	17,660.0	7,806.2	25.1	167.6	98.48	154.3	-454.7	860.8	770.4	90.36	9.526			
7,100.0	7,083.1	17,660.0	7,806.2	25.4	167.6	98.48	154.3	-454.7	765.1	674.8	90.29	8.473			
7,200.0	7,182.7	17,660.0	7,806.2	25.8	167.6	98.48	154.3	-454.7	670.6	580.5	90.08	7.445			
7,300.0	7,282.3	17,660.0	7,806.2	26.1	167.6	98.48	154.3	-454.7	578.1	488.5	89.60	6.452			
7,400.0	7,381.9	17,660.0	7,806.2	26.5	167.6	98.48	154.3	-454.7	488.5	399.9	88.58	5.515			
7,500.0	7,481.5	17,660.0	7,806.2	26.9	167.6	98.48	154.3	-454.7	403.8	317.3	86.45	4.670			
7,600.0	7,581.1	17,660.0	7,806.2	27.2	167.6	98.48	154.3	-454.7	327.8	245.9	81.92	4.001			
7,700.0	7,680.8	17,660.0	7,806.2	27.6	167.6	98.48	154.3	-454.7	268.1	195.3	72.79	3.683 SF			
7,800.0	7,780.4	17,660.0	7,806.2	27.9	167.6	98.48	154.3	-454.7	237.3	176.0	61.31	3.870			
7,827.9	7,808.1	17,660.0	7,806.2	28.0	167.6	98.48	154.3	-454.7	235.6	175.3	60.36	3.903 CC, ES			
7,900.0	7,880.0	17,660.0	7,806.2	28.3	167.6	98.48	154.3	-454.7	246.4	180.4	66.01	3.733			
8,000.0	7,979.6	17,660.0	7,806.2	28.6	167.6	98.48	154.3	-454.7	291.8	213.4	78.35	3.724			
8,100.0	8,079.2	17,660.0	7,806.2	29.0	167.6	98.48	154.3	-454.7	360.0	274.2	85.76	4.198			
8,200.0	8,178.9	17,660.0	7,806.2	29.4	167.6	98.48	154.3	-454.7	440.5	350.9	89.52	4.920			
8,300.0	8,278.5	17,660.0	7,806.2	29.7	167.6	98.48	154.3	-454.7	527.7	436.1	91.55	5.764			
8,400.0	8,378.1	17,660.0	7,806.2	30.1	167.6	98.48	154.3	-454.7	618.7	526.0	92.77	6.670			
8,500.0	8,477.7	17,660.0	7,806.2	30.4	167.6	98.48	154.3	-454.7	712.2	618.6	93.60	7.610			
8,600.0	8,577.3	17,660.0	7,806.2	30.8	167.6	98.48	154.3	-454.7	807.3	713.1	94.22	8.568			
8,700.0	8,676.9	17,660.0	7,806.2	31.2	167.6	98.48	154.3	-454.7	903.4	808.7	94.72	9.538			
8,711.4	8,688.3	17,660.0	7,806.2	31.2	167.6	98.48	154.3	-454.7	914.4	819.6	94.77	9.649			
8,725.0	8,701.8	17,660.0	7,806.2	31.2	167.6	79.98	154.3	-454.7	927.5	832.7	94.83	9.780			
8,750.0	8,726.7	17,660.0	7,806.2	31.3	167.6	56.77	154.3	-454.7	951.4	856.4	94.96	10.018			
8,775.0	8,751.4	17,660.0	7,806.2	31.4	167.6	43.41	154.3	-454.7	974.9	879.8	95.10	10.251			
8,800.0	8,775.9	17,660.0	7,806.2	31.5	167.6	35.14	154.3	-454.7	998.0	902.8	95.25	10.477			

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 MERCURY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3097.0usft (TBD)
Reference Site:	MERCURY STATE COM PROJECT	MD Reference:	*KB=30' @ 3097.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MERCURY ST COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 100-GYRO-NS												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	
18,500.0	9,211.1	8,743.0	8,741.2	87.1	31.0	29.84	10,139.6	-642.1	943.8	862.5	81.23	11.618	
18,600.0	9,211.7	8,743.0	8,741.2	87.9	31.0	29.84	10,139.6	-642.1	863.8	780.1	83.68	10.322	
18,700.0	9,212.3	8,743.0	8,741.2	88.7	31.0	29.84	10,139.6	-642.1	788.3	701.8	86.53	9.110	
18,800.0	9,212.9	8,743.0	8,741.2	89.5	31.0	29.84	10,139.6	-642.1	719.0	629.2	89.76	8.010	
18,900.0	9,213.6	8,743.0	8,741.2	90.3	31.0	29.84	10,139.6	-642.1	657.5	564.3	93.25	7.051	
19,000.0	9,214.2	8,743.0	8,741.2	91.1	31.0	29.84	10,139.6	-642.1	606.4	509.7	96.75	6.268	
19,100.0	9,214.8	8,743.0	8,741.2	91.9	31.0	29.84	10,139.6	-642.1	568.4	468.6	99.87	5.692	
19,200.0	9,215.4	8,743.0	8,741.2	92.7	31.0	29.84	10,139.6	-642.1	546.4	444.2	102.17	5.348	
19,273.0	9,215.9	8,743.0	8,741.2	93.3	31.0	29.84	10,139.6	-642.1	541.5	438.4	103.11	5.252 CC, ES	
19,300.0	9,216.0	8,743.0	8,741.2	93.5	31.0	29.84	10,139.6	-642.1	542.2	438.9	103.28	5.249 SF	
19,400.0	9,216.7	8,743.0	8,741.2	94.3	31.0	29.84	10,139.6	-642.1	556.2	453.1	103.08	5.396	
19,453.6	9,217.0	8,743.0	8,741.2	94.7	31.0	29.84	10,139.6	-642.1	570.8	468.4	102.46	5.571	

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 MERCURY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3097.0usft (TBD)
Reference Site:	MERCURY STATE COM PROJECT	MD Reference:	*KB=30' @ 3097.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MERCURY ST COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design WAY SOUTH PROJECT (ATLAS 2628) - WAY SOUTH ST COM #705H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8395-MWD+IFR1+MS												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 Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,400.0	8,378.1	21,313.0	9,291.9	30.1	96.7	-62.57	-404.6	-664.9	944.3	834.5	109.83	8.598	
8,500.0	8,477.7	21,313.0	9,291.9	30.4	96.7	-62.57	-404.6	-664.9	850.7	741.3	109.43	7.774	
8,600.0	8,577.3	21,313.0	9,291.9	30.8	96.7	-62.57	-404.6	-664.9	758.7	649.9	108.74	6.977	
8,700.0	8,676.9	21,313.0	9,291.9	31.2	96.7	-62.57	-404.6	-664.9	669.0	561.4	107.60	6.217	
8,711.4	8,688.3	21,313.0	9,291.9	31.2	96.7	-62.57	-404.6	-664.9	658.9	551.5	107.43	6.134	
8,725.0	8,701.8	21,313.0	9,291.9	31.2	96.7	-80.90	-404.6	-664.9	647.1	539.9	107.20	6.036	
8,750.0	8,726.7	21,313.0	9,291.9	31.3	96.7	-104.08	-404.6	-664.9	625.9	519.2	106.69	5.867	
8,775.0	8,751.4	21,313.0	9,291.9	31.4	96.7	-117.61	-404.6	-664.9	605.7	499.6	106.05	5.711	
8,800.0	8,775.9	21,313.0	9,291.9	31.5	96.7	-126.11	-404.6	-664.9	586.5	481.2	105.26	5.572	
8,825.0	8,800.1	21,313.0	9,291.9	31.6	96.7	-131.91	-404.6	-664.9	568.5	464.2	104.29	5.451	
8,850.0	8,824.1	21,313.0	9,291.9	31.7	96.7	-136.10	-404.6	-664.9	552.0	448.8	103.12	5.353	
8,875.0	8,847.6	21,313.0	9,291.9	31.8	96.7	-139.25	-404.6	-664.9	537.0	435.2	101.73	5.279	
8,900.0	8,870.6	21,313.0	9,291.9	31.9	96.7	-141.68	-404.6	-664.9	523.7	423.6	100.09	5.232	
8,925.0	8,893.2	21,313.0	9,291.9	31.9	96.7	-143.58	-404.6	-664.9	512.4	414.2	98.20	5.218 SF	
8,950.0	8,915.1	21,313.0	9,291.9	32.0	96.7	-145.08	-404.6	-664.9	503.2	407.1	96.04	5.239	
8,975.0	8,936.4	21,313.0	9,291.9	32.1	96.7	-146.24	-404.6	-664.9	496.2	402.6	93.63	5.299	
9,000.0	8,957.0	21,313.0	9,291.9	32.2	96.7	-147.14	-404.6	-664.9	491.5	400.5	90.99	5.402 ES	
9,025.0	8,976.8	21,313.0	9,291.9	32.2	96.7	-147.80	-404.6	-664.9	489.3	401.1	88.15	5.551	
9,035.2	8,984.7	21,313.0	9,291.9	32.2	96.7	-148.01	-404.6	-664.9	489.1	402.1	86.95	5.625 CC	
9,050.0	8,995.9	21,313.0	9,291.9	32.3	96.7	-148.25	-404.6	-664.9	489.5	404.3	85.17	5.747	
9,075.0	9,014.0	21,313.0	9,291.9	32.3	96.7	-148.51	-404.6	-664.9	492.2	410.1	82.13	5.993	
9,100.0	9,031.2	21,313.0	9,291.9	32.4	96.7	-148.58	-404.6	-664.9	497.3	418.2	79.10	6.287	
9,125.0	9,047.5	21,313.0	9,291.9	32.4	96.7	-148.48	-404.6	-664.9	504.7	428.6	76.15	6.628	
9,150.0	9,062.8	21,313.0	9,291.9	32.5	96.7	-148.19	-404.6	-664.9	514.4	441.0	73.37	7.010	
9,175.0	9,077.0	21,313.0	9,291.9	32.5	96.7	-147.70	-404.6	-664.9	526.0	455.2	70.82	7.427	
9,200.0	9,090.1	21,313.0	9,291.9	32.6	96.7	-147.01	-404.6	-664.9	539.6	471.1	68.56	7.870	
9,225.0	9,102.1	21,313.0	9,291.9	32.6	96.7	-146.08	-404.6	-664.9	554.9	488.3	66.62	8.330	
9,250.0	9,112.9	21,313.0	9,291.9	32.6	96.7	-144.89	-404.6	-664.9	571.7	506.7	65.01	8.795	
9,275.0	9,122.5	21,313.0	9,291.9	32.7	96.7	-143.38	-404.6	-664.9	590.0	526.2	63.72	9.258	
9,300.0	9,131.0	21,313.0	9,291.9	32.7	96.7	-141.50	-404.6	-664.9	609.3	546.6	62.75	9.711	
9,325.0	9,138.2	21,313.0	9,291.9	32.8	96.7	-139.17	-404.6	-664.9	629.8	567.7	62.06	10.149	
9,350.0	9,144.1	21,313.0	9,291.9	32.8	96.7	-136.27	-404.6	-664.9	651.1	589.5	61.60	10.570	
9,375.0	9,148.8	21,313.0	9,291.9	32.8	96.7	-132.66	-404.6	-664.9	673.1	611.8	61.34	10.973	
9,400.0	9,152.1	21,313.0	9,291.9	32.9	96.7	-128.15	-404.6	-664.9	695.8	634.6	61.25	11.361	
9,425.0	9,154.2	21,313.0	9,291.9	32.9	96.7	-122.51	-404.6	-664.9	719.0	657.7	61.28	11.733	
9,449.4	9,155.0	21,313.0	9,291.9	32.9	96.7	-115.68	-404.6	-664.9	742.0	680.6	61.41	12.083	
9,500.0	9,155.3	21,313.0	9,291.9	33.0	96.7	-118.74	-404.6	-664.9	790.4	728.6	61.74	12.801	
9,600.0	9,155.9	21,313.0	9,291.9	33.2	96.7	-128.42	-404.6	-664.9	887.8	825.5	62.27	14.258	
9,700.0	9,156.5	21,313.0	9,291.9	33.3	96.7	-147.98	-404.6	-664.9	986.6	924.1	62.49	15.788	

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MERCURY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3097.0usft (TBD)
Reference Site:	MERCURY STATE COM PROJECT	MD Reference:	*KB=30' @ 3097.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MERCURY ST COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to *KB=30' @ 3097.0usft (TBD)

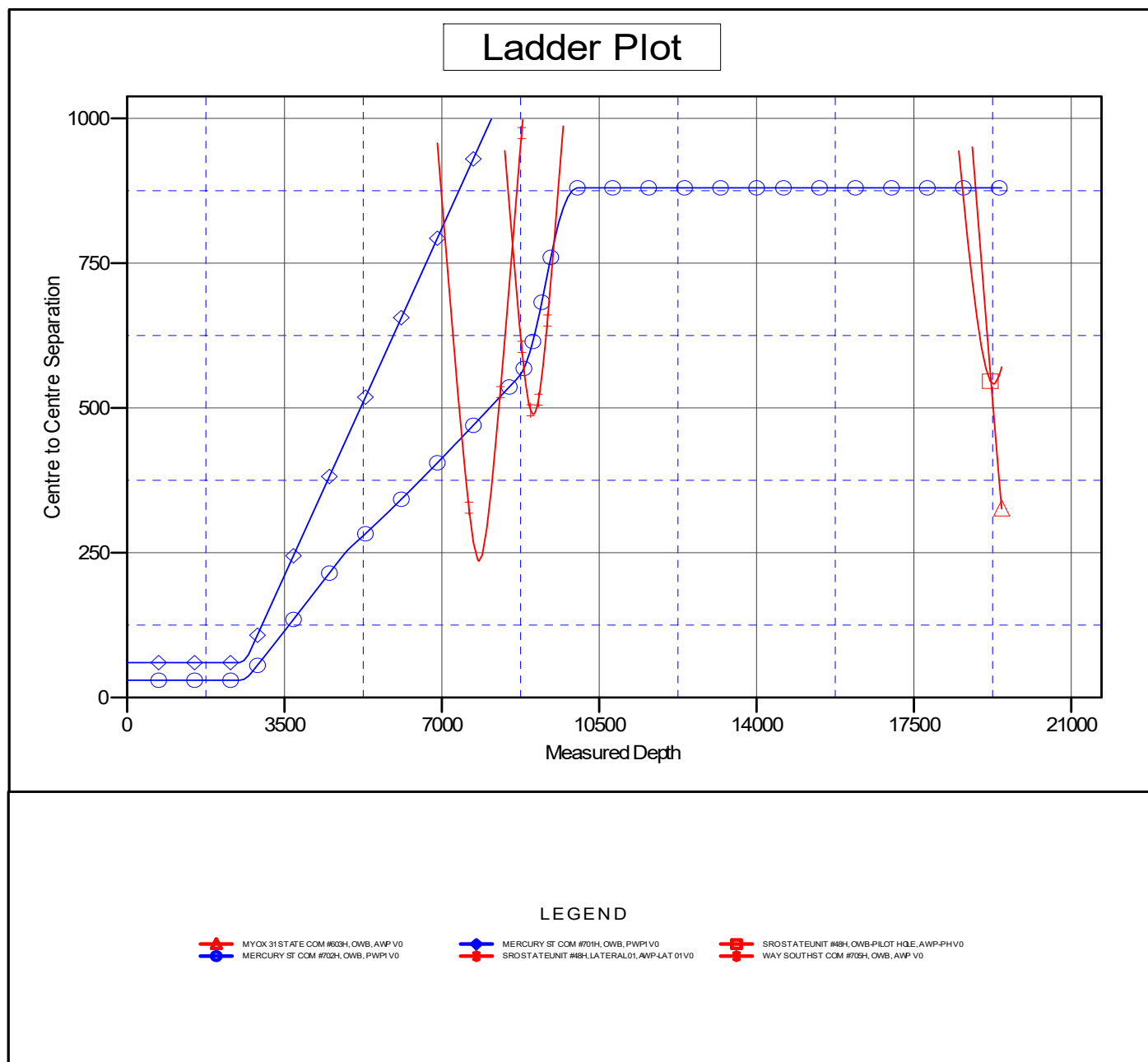
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: MERCURY ST COM #703H

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

Grid Convergence at Surface is: 0.11°



Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MERCURY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3097.0usft (TBD)
Reference Site:	MERCURY STATE COM PROJECT	MD Reference:	*KB=30' @ 3097.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	MERCURY ST COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to *KB=30' @ 3097.0usft (TBD)

Offset Depths are relative to Offset Datum

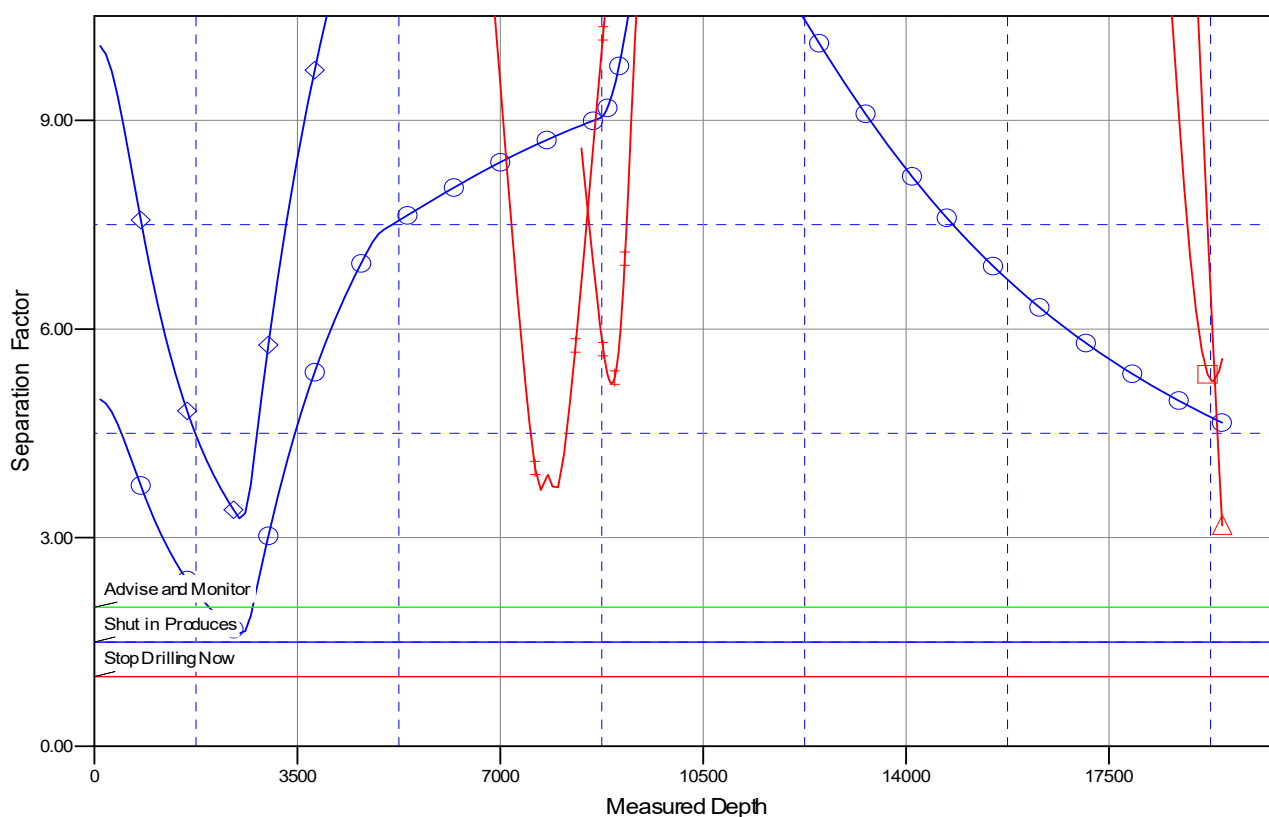
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: MERCURY ST COM #703H

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

Grid Convergence at Surface is: 0.11°

Separation Factor Plot

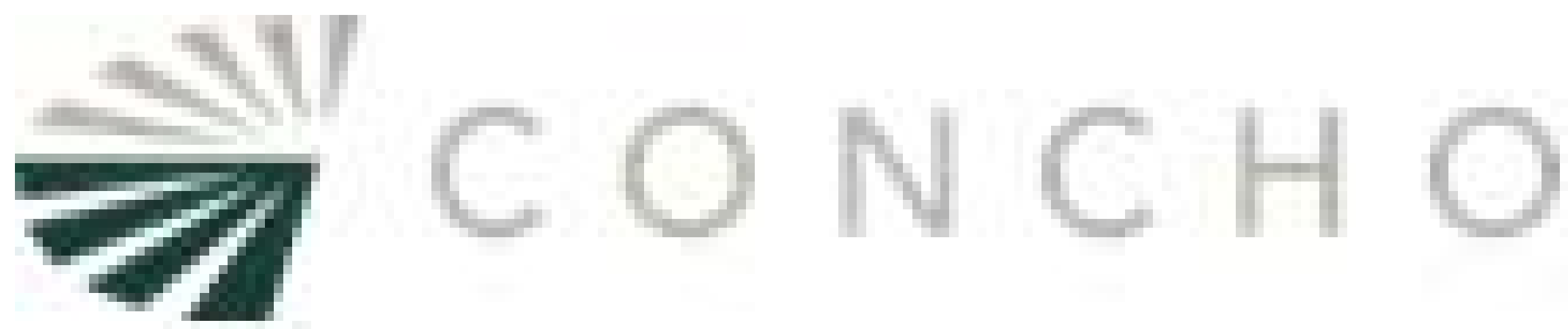


LEGEND

MY OX 31 STATE COM #603H, OWB, AWP V0
 MERCURY ST COM #703H, OWB, PWP1 V0
 SRO STATE UNIT #48H, OWB-PILOT HOLE, AWP-PHY V0

MY OX 31 STATE COM #603H, OWB, AWP V0
 MERCURY ST COM #703H, OWB, PWP1 V0

SRO STATE UNIT #48H, LATERAL 01, AWP-LAT 01 V0
 WAY SOUTH ST COM #703H, OWB, AWP V0



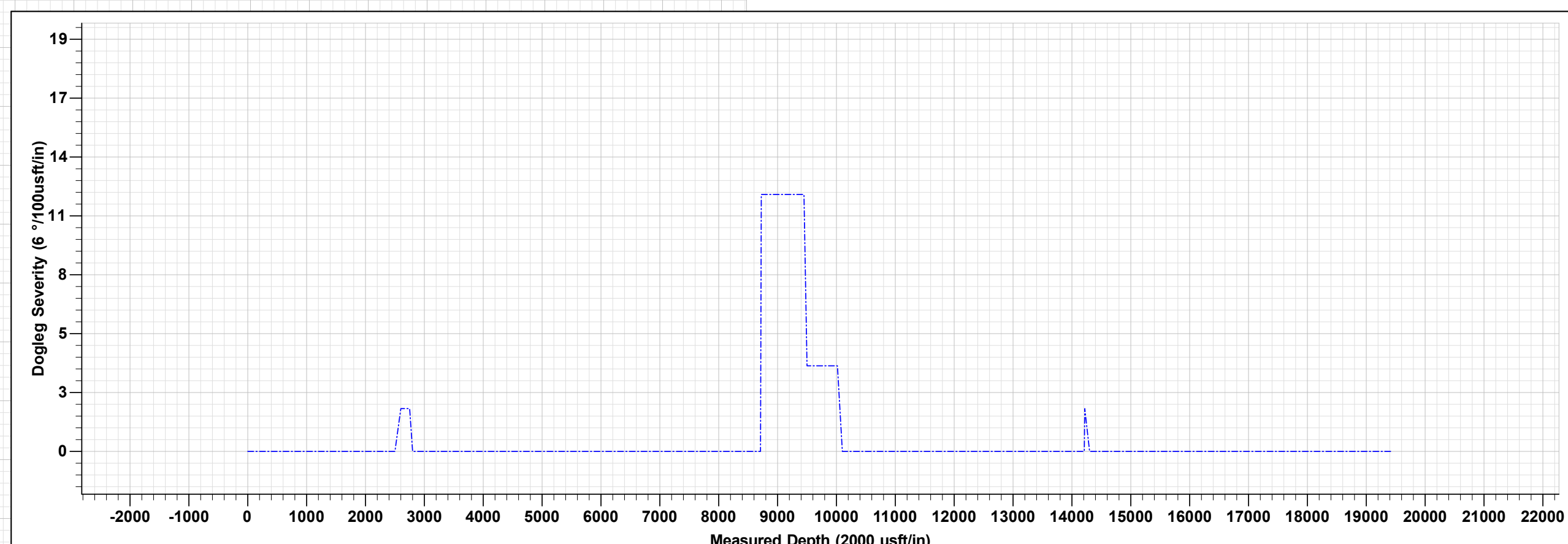
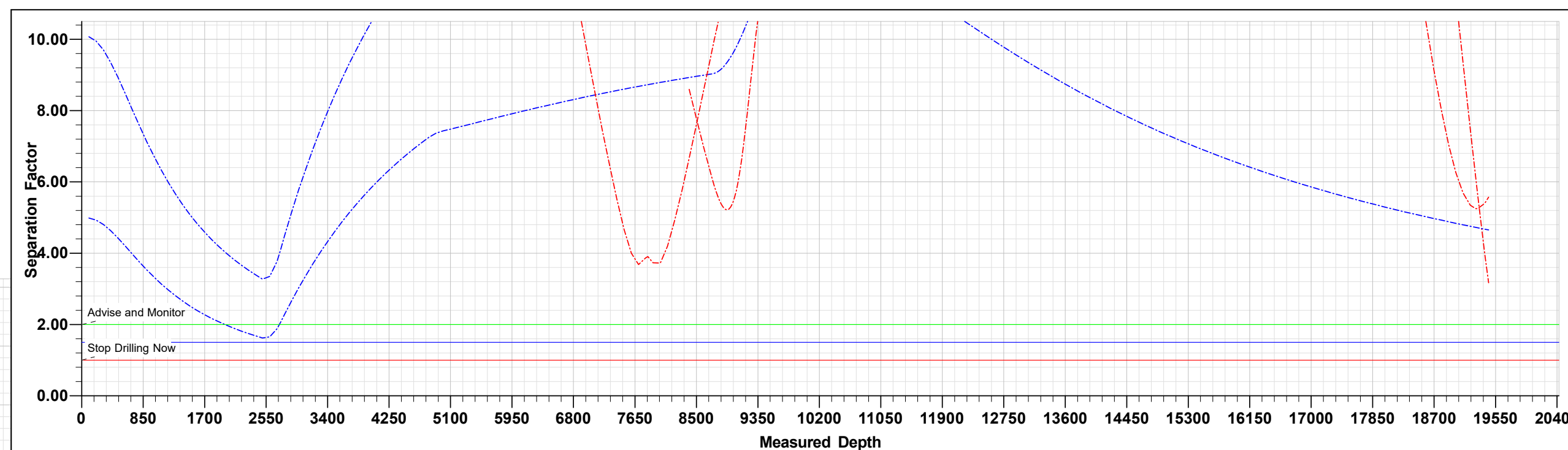
Project: ATLAS PROSPECT (NM-E)
Site: MERCURY STATE COM PROJECT
Well: MERCURY ST COM #703H
Wellbore: OWB
Design: PWP1
SL: 3067.0
*KB=30' @ 3097.0usft (TBD)

WELL DETAILS: MERCURY ST COM #703H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	376760.37	565390.38	32° 2' 8.352 N	104° 7' 20.321 W

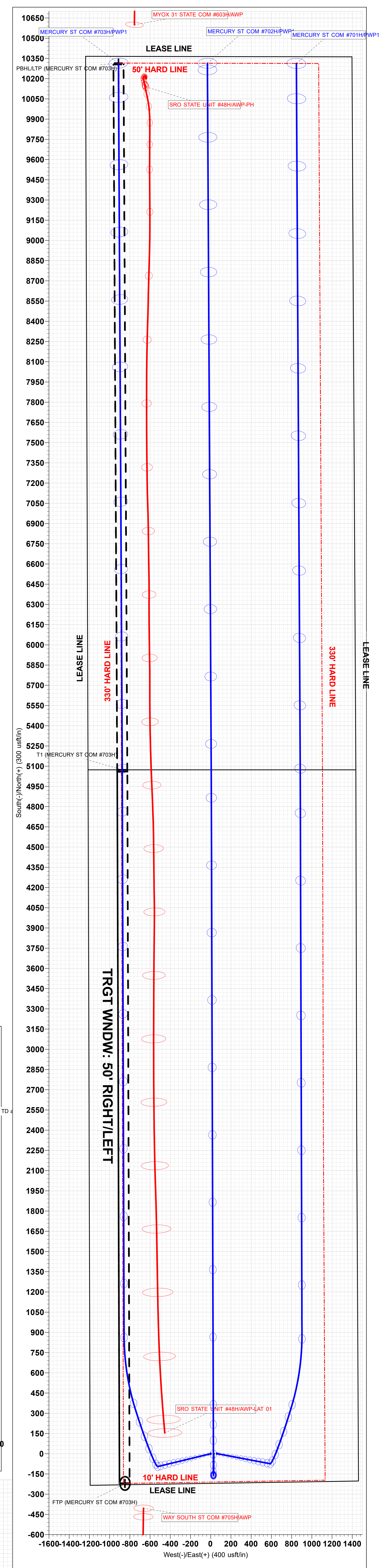
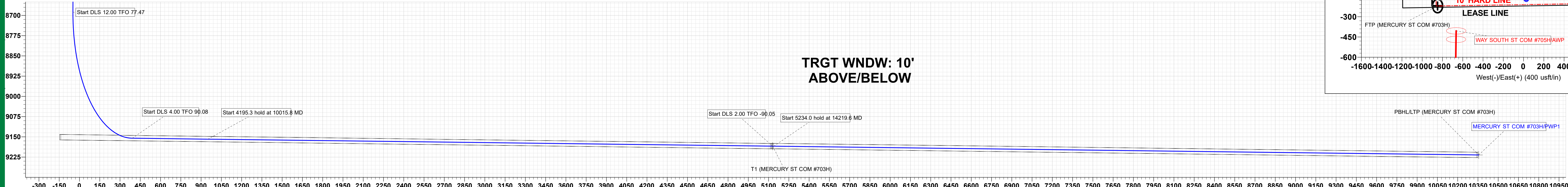
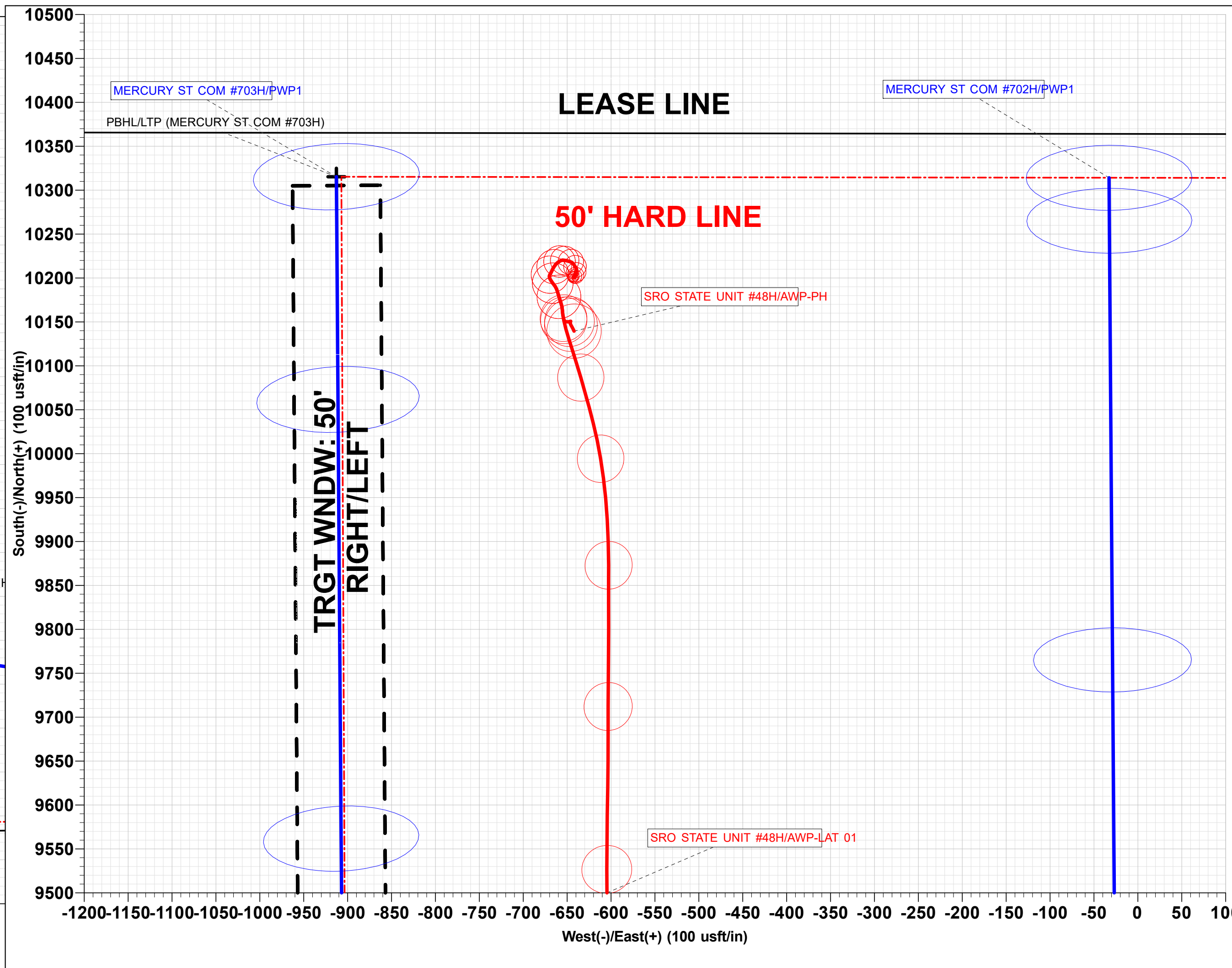
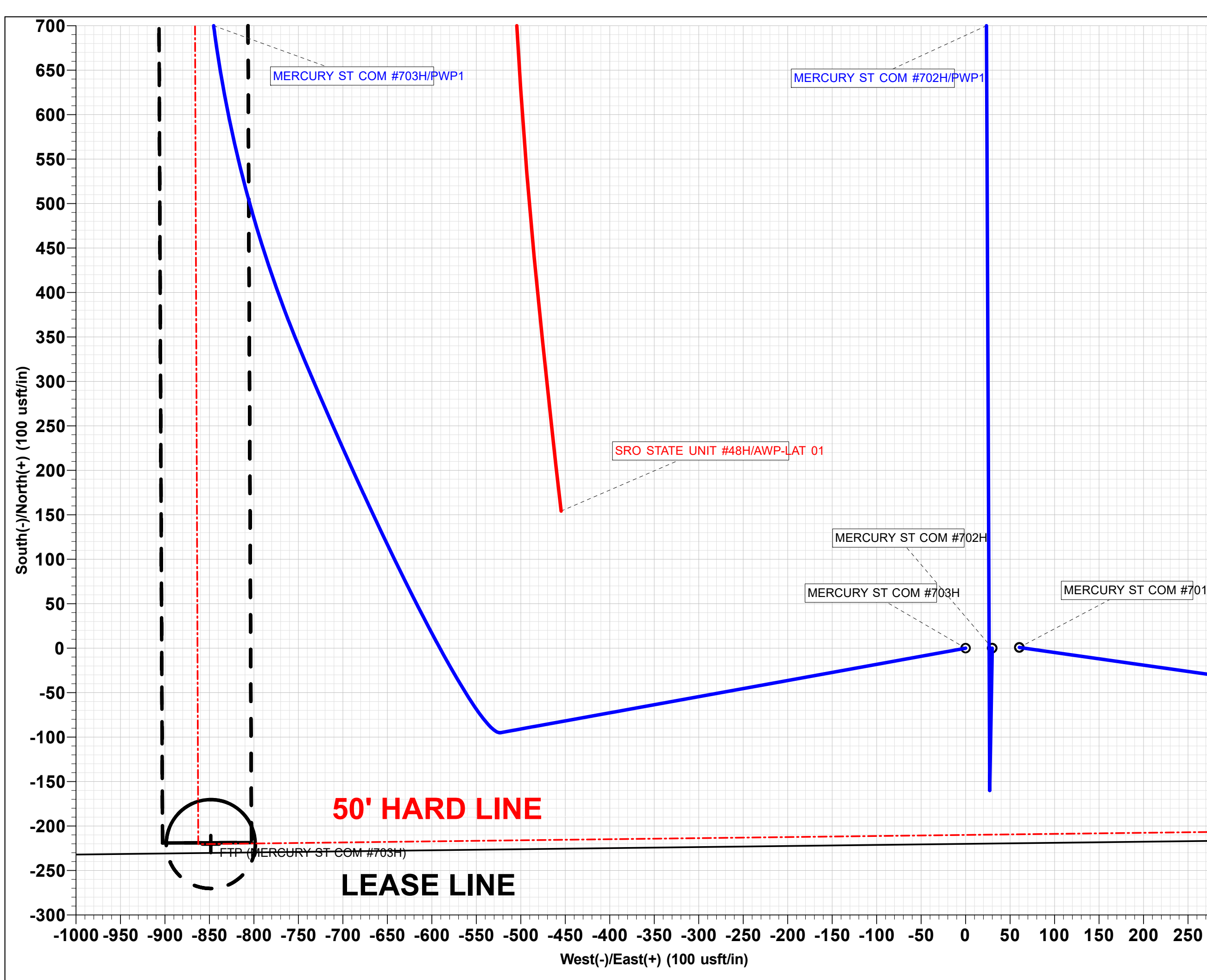
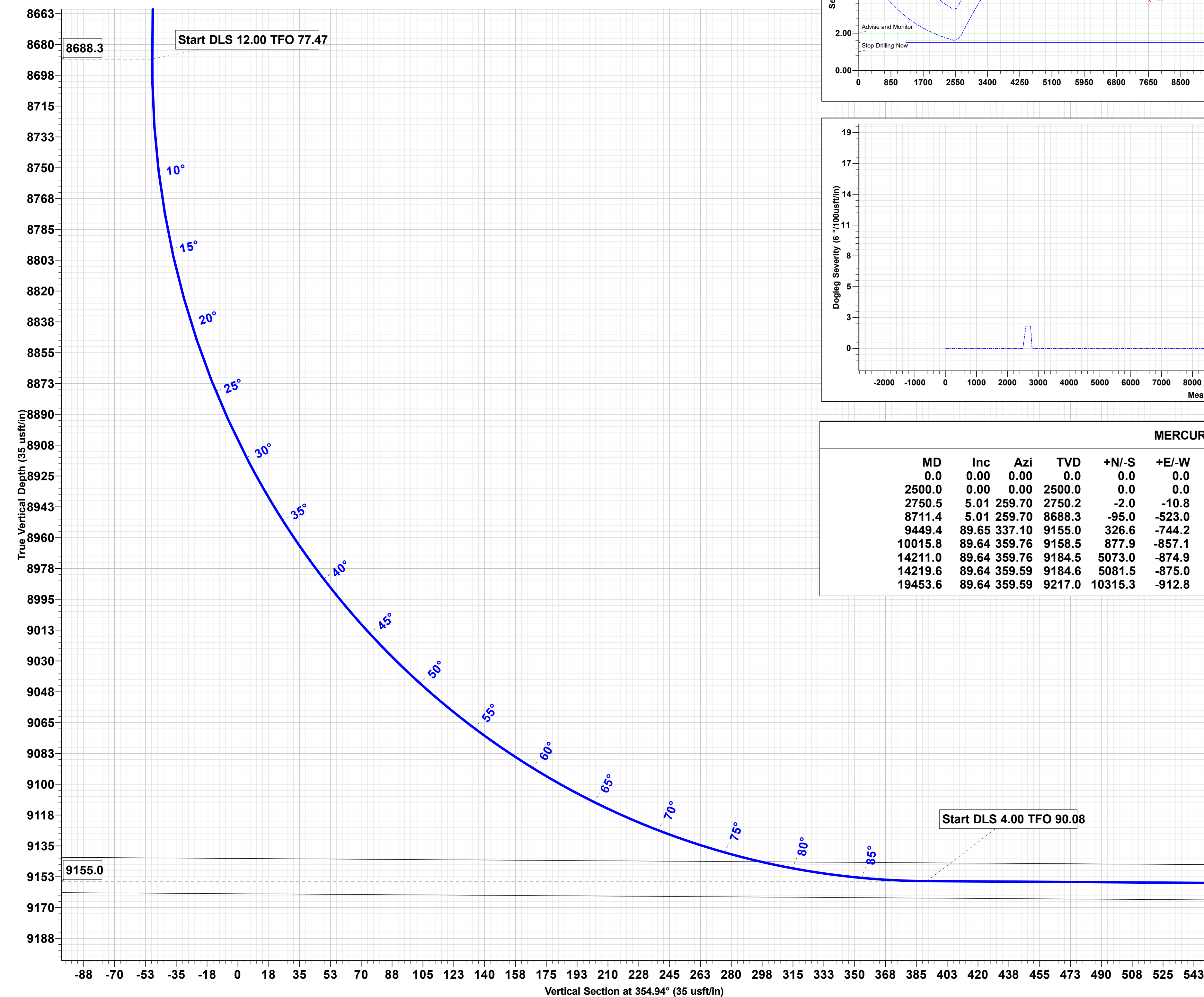
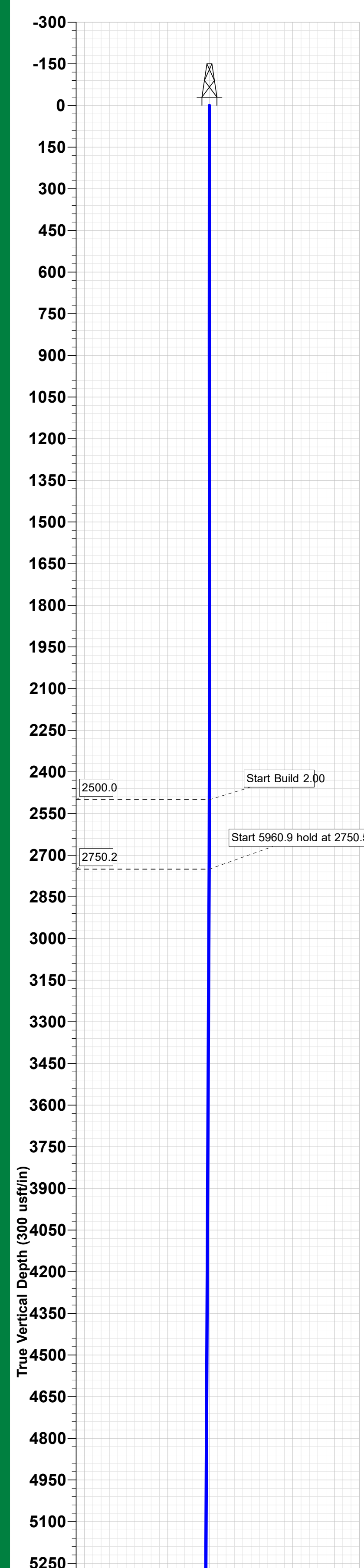
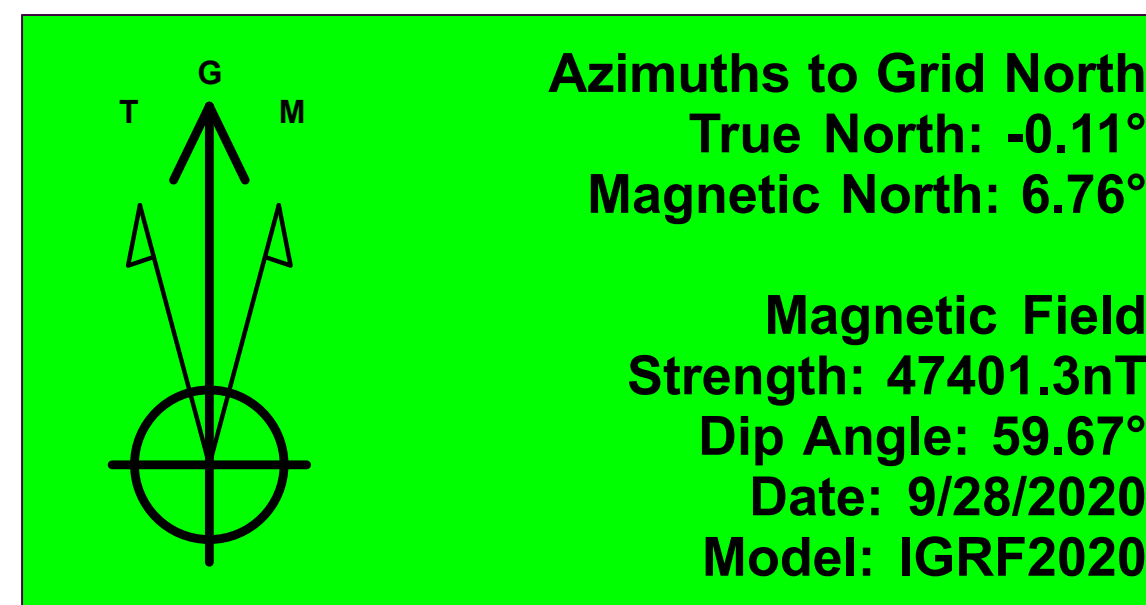
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
T1 (MERCURY ST COM #703H)	9184.5	5073.0	-874.9	381833.41	564515.47	32° 2' 58.574 N	104° 7' 30.372 W
PBHL/TP (MERCURY ST COM #703H)	9217.0	10315.3	-912.8	387075.59	564477.61	32° 3' 50.456 N	104° 7' 30.695 W
FTP (MERCURY ST COM #703H)	9302.0	-220.2	-848.5	376540.14	564541.89	32° 2' 6.188 N	104° 7' 30.184 W



MERCURY ST COM #703H

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	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	2500.2	-2.0	-10.8	2.00	259.70	-1.0	Start 5960.9 hold at 2750.5 MD
2750.5	5.01	259.70	2750.2	-2.0	-10.8	0.00	0.00	-48.5	Start DLS 12.00 TFO 77.47
8711.4	5.01	259.70	8688.3	-95.0	-523.0	0.00	0.00	-48.5	Start DLS 4.00 TFO 90.08
9449.4	89.65	337.10	9155.0	326.6	-744.2	12.00	77.47	391.0	Start DLS 2.00 TFO -90.05
10015.8	89.64	359.76	9184.5	5073.0	-874.9	0.00	0.00	5130.4	Start DLS 2.00 TFO -90.05
14211.0	89.64	359.76	9184.5	5073.0	-874.9	0.00	0.00	5130.4	Start DLS 2.00 TFO -90.05
14219.6	89.64	359.59	9184.6	5081.5	-875.0	2.00	-90.05	5138.9	Start 5234.0 hold at 14219.6 MD
19453.6	89.64	359.59	9217.0	10315.3	-912.8	0.00	0.00	10355.6	TD at 19453.6



TRGT WNDW: 10'
ABOVE/BELOW

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

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

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

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

MERCURY STATE COM PROJECT

MERCURY ST COM #703H

OWB

Plan: PWP1

Standard Survey Report

12 October, 2020

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MERCURY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3097.0usft (TBD)
Site:	MERCURY STATE COM PROJECT	MD Reference:	*KB=30' @ 3097.0usft (TBD)
Well:	MERCURY ST COM #703H	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		

Site	MERCURY STATE COM PROJECT		
Site Position:		Northing:	376,621.40 usft
From:	Map	Easting:	566,852.10 usft
Position Uncertainty:	3.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 6.948 N
		Longitude:	104° 7' 3.343 W
		Grid Convergence:	0.11 °

Well	MERCURY ST COM #703H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	3.0 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	OWB		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2020	9/28/2020	6.87
			Dip Angle (°)
			59.67
			Field Strength (nT)
			47,401.26020703

Design	PWP1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°)
			354.94

Survey Tool Program	Date	9/28/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	19,453.4	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

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MERCURY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3097.0usft (TBD)
Site:	MERCURY STATE COM PROJECT	MD Reference:	*KB=30' @ 3097.0usft (TBD)
Well:	MERCURY ST COM #703H	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)	
1,000.0	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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
Start Build 2.00										
2,600.0	2.00	259.70	2,600.0	-0.3	-1.7	-0.2	2.00	2.00	0.00	
2,700.0	4.00	259.70	2,699.8	-1.2	-6.9	-0.6	2.00	2.00	0.00	
2,750.5	5.01	259.70	2,750.2	-2.0	-10.8	-1.0	2.00	2.00	0.00	
Start 5960.9 hold at 2750.5 MD										
2,800.0	5.01	259.70	2,799.5	-2.7	-15.0	-1.4	0.00	0.00	0.00	
2,900.0	5.01	259.70	2,899.1	-4.3	-23.6	-2.2	0.00	0.00	0.00	
3,000.0	5.01	259.70	2,998.7	-5.9	-32.2	-3.0	0.00	0.00	0.00	
3,100.0	5.01	259.70	3,098.3	-7.4	-40.8	-3.8	0.00	0.00	0.00	
3,200.0	5.01	259.70	3,198.0	-9.0	-49.4	-4.6	0.00	0.00	0.00	
3,300.0	5.01	259.70	3,297.6	-10.5	-58.0	-5.4	0.00	0.00	0.00	
3,400.0	5.01	259.70	3,397.2	-12.1	-66.6	-6.2	0.00	0.00	0.00	
3,500.0	5.01	259.70	3,496.8	-13.7	-75.2	-7.0	0.00	0.00	0.00	
3,600.0	5.01	259.70	3,596.4	-15.2	-83.8	-7.8	0.00	0.00	0.00	
3,700.0	5.01	259.70	3,696.1	-16.8	-92.4	-8.6	0.00	0.00	0.00	
3,800.0	5.01	259.70	3,795.7	-18.3	-101.0	-9.4	0.00	0.00	0.00	
3,900.0	5.01	259.70	3,895.3	-19.9	-109.5	-10.2	0.00	0.00	0.00	
4,000.0	5.01	259.70	3,994.9	-21.5	-118.1	-11.0	0.00	0.00	0.00	
4,100.0	5.01	259.70	4,094.5	-23.0	-126.7	-11.8	0.00	0.00	0.00	
4,200.0	5.01	259.70	4,194.1	-24.6	-135.3	-12.6	0.00	0.00	0.00	
4,300.0	5.01	259.70	4,293.8	-26.1	-143.9	-13.4	0.00	0.00	0.00	
4,400.0	5.01	259.70	4,393.4	-27.7	-152.5	-14.2	0.00	0.00	0.00	
4,500.0	5.01	259.70	4,493.0	-29.3	-161.1	-14.9	0.00	0.00	0.00	
4,600.0	5.01	259.70	4,592.6	-30.8	-169.7	-15.7	0.00	0.00	0.00	
4,700.0	5.01	259.70	4,692.2	-32.4	-178.3	-16.5	0.00	0.00	0.00	
4,800.0	5.01	259.70	4,791.8	-33.9	-186.9	-17.3	0.00	0.00	0.00	
4,900.0	5.01	259.70	4,891.5	-35.5	-195.5	-18.1	0.00	0.00	0.00	
5,000.0	5.01	259.70	4,991.1	-37.1	-204.1	-18.9	0.00	0.00	0.00	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MERCURY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3097.0usft (TBD)
Site:	MERCURY STATE COM PROJECT	MD Reference:	*KB=30' @ 3097.0usft (TBD)
Well:	MERCURY ST COM #703H	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)	
5,100.0	5.01	259.70	5,090.7	-38.6	-212.7	-19.7	0.00	0.00	0.00	
5,200.0	5.01	259.70	5,190.3	-40.2	-221.3	-20.5	0.00	0.00	0.00	
5,300.0	5.01	259.70	5,289.9	-41.8	-229.9	-21.3	0.00	0.00	0.00	
5,400.0	5.01	259.70	5,389.6	-43.3	-238.4	-22.1	0.00	0.00	0.00	
5,500.0	5.01	259.70	5,489.2	-44.9	-247.0	-22.9	0.00	0.00	0.00	
5,600.0	5.01	259.70	5,588.8	-46.4	-255.6	-23.7	0.00	0.00	0.00	
5,700.0	5.01	259.70	5,688.4	-48.0	-264.2	-24.5	0.00	0.00	0.00	
5,800.0	5.01	259.70	5,788.0	-49.6	-272.8	-25.3	0.00	0.00	0.00	
5,900.0	5.01	259.70	5,887.6	-51.1	-281.4	-26.1	0.00	0.00	0.00	
6,000.0	5.01	259.70	5,987.3	-52.7	-290.0	-26.9	0.00	0.00	0.00	
6,100.0	5.01	259.70	6,086.9	-54.2	-298.6	-27.7	0.00	0.00	0.00	
6,200.0	5.01	259.70	6,186.5	-55.8	-307.2	-28.5	0.00	0.00	0.00	
6,300.0	5.01	259.70	6,286.1	-57.4	-315.8	-29.3	0.00	0.00	0.00	
6,400.0	5.01	259.70	6,385.7	-58.9	-324.4	-30.1	0.00	0.00	0.00	
6,500.0	5.01	259.70	6,485.4	-60.5	-333.0	-30.9	0.00	0.00	0.00	
6,600.0	5.01	259.70	6,585.0	-62.0	-341.6	-31.7	0.00	0.00	0.00	
6,700.0	5.01	259.70	6,684.6	-63.6	-350.2	-32.5	0.00	0.00	0.00	
6,800.0	5.01	259.70	6,784.2	-65.2	-358.8	-33.3	0.00	0.00	0.00	
6,900.0	5.01	259.70	6,883.8	-66.7	-367.3	-34.1	0.00	0.00	0.00	
7,000.0	5.01	259.70	6,983.4	-68.3	-375.9	-34.9	0.00	0.00	0.00	
7,100.0	5.01	259.70	7,083.1	-69.8	-384.5	-35.7	0.00	0.00	0.00	
7,200.0	5.01	259.70	7,182.7	-71.4	-393.1	-36.5	0.00	0.00	0.00	
7,300.0	5.01	259.70	7,282.3	-73.0	-401.7	-37.3	0.00	0.00	0.00	
7,400.0	5.01	259.70	7,381.9	-74.5	-410.3	-38.1	0.00	0.00	0.00	
7,500.0	5.01	259.70	7,481.5	-76.1	-418.9	-38.9	0.00	0.00	0.00	
7,600.0	5.01	259.70	7,581.1	-77.7	-427.5	-39.7	0.00	0.00	0.00	
7,700.0	5.01	259.70	7,680.8	-79.2	-436.1	-40.5	0.00	0.00	0.00	
7,800.0	5.01	259.70	7,780.4	-80.8	-444.7	-41.3	0.00	0.00	0.00	
7,900.0	5.01	259.70	7,880.0	-82.3	-453.3	-42.1	0.00	0.00	0.00	
8,000.0	5.01	259.70	7,979.6	-83.9	-461.9	-42.9	0.00	0.00	0.00	
8,100.0	5.01	259.70	8,079.2	-85.5	-470.5	-43.7	0.00	0.00	0.00	
8,200.0	5.01	259.70	8,178.9	-87.0	-479.1	-44.5	0.00	0.00	0.00	
8,300.0	5.01	259.70	8,278.5	-88.6	-487.6	-45.3	0.00	0.00	0.00	
8,400.0	5.01	259.70	8,378.1	-90.1	-496.2	-46.0	0.00	0.00	0.00	
8,500.0	5.01	259.70	8,477.7	-91.7	-504.8	-46.8	0.00	0.00	0.00	
8,600.0	5.01	259.70	8,577.3	-93.3	-513.4	-47.6	0.00	0.00	0.00	
8,700.0	5.01	259.70	8,676.9	-94.8	-522.0	-48.4	0.00	0.00	0.00	
8,711.4	5.01	259.70	8,688.3	-95.0	-523.0	-48.5	0.00	0.00	0.00	
Start DLS 12.00 TFO 77.47										
8,800.0	12.69	314.79	8,775.9	-88.8	-533.7	-41.4	12.00	8.67	62.17	
8,900.0	24.19	326.15	8,870.6	-64.0	-553.0	-15.0	12.00	11.50	11.36	
9,000.0	36.01	330.37	8,957.0	-21.2	-579.1	29.9	12.00	11.82	4.22	
9,100.0	47.91	332.70	9,031.2	37.5	-610.7	91.2	12.00	11.90	2.33	
9,200.0	59.84	334.28	9,090.1	109.7	-646.6	166.2	12.00	11.93	1.58	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MERCURY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3097.0usft (TBD)
Site:	MERCURY STATE COM PROJECT	MD Reference:	*KB=30' @ 3097.0usft (TBD)
Well:	MERCURY ST COM #703H	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)
9,300.0	71.79	335.52	9,131.0	192.2	-685.2	251.8	12.00	11.95	1.24
9,400.0	83.74	336.59	9,152.1	281.3	-724.8	344.1	12.00	11.95	1.08
9,449.4	89.65	337.10	9,155.0	326.6	-744.2	391.0	12.00	11.96	1.03
Start DLS 4.00 TFO 90.08									
9,500.0	89.65	339.12	9,155.3	373.6	-763.1	439.4	4.00	-0.01	4.00
9,600.0	89.64	343.12	9,155.9	468.2	-795.4	536.5	4.00	0.00	4.00
9,700.0	89.64	347.12	9,156.5	564.8	-821.1	635.0	4.00	0.00	4.00
9,800.0	89.64	351.12	9,157.2	663.0	-839.9	734.5	4.00	0.00	4.00
9,900.0	89.64	355.12	9,157.8	762.3	-851.9	834.4	4.00	0.00	4.00
10,000.0	89.64	359.12	9,158.4	862.1	-856.9	934.3	4.00	0.00	4.00
10,015.8	89.64	359.76	9,158.5	877.9	-857.1	950.0	4.00	0.00	4.00
Start 4195.3 hold at 10015.8 MD									
10,100.0	89.64	359.76	9,159.0	962.1	-857.4	1,033.9	0.00	0.00	0.00
10,200.0	89.64	359.76	9,159.6	1,062.1	-857.8	1,133.6	0.00	0.00	0.00
10,300.0	89.64	359.76	9,160.3	1,162.1	-858.3	1,233.2	0.00	0.00	0.00
10,400.0	89.64	359.76	9,160.9	1,262.1	-858.7	1,332.9	0.00	0.00	0.00
10,500.0	89.64	359.76	9,161.5	1,362.1	-859.1	1,432.5	0.00	0.00	0.00
10,600.0	89.64	359.76	9,162.1	1,462.1	-859.5	1,532.2	0.00	0.00	0.00
10,700.0	89.64	359.76	9,162.7	1,562.1	-860.0	1,631.8	0.00	0.00	0.00
10,800.0	89.64	359.76	9,163.4	1,662.1	-860.4	1,731.5	0.00	0.00	0.00
10,900.0	89.64	359.76	9,164.0	1,762.1	-860.8	1,831.1	0.00	0.00	0.00
11,000.0	89.64	359.76	9,164.6	1,862.1	-861.2	1,930.7	0.00	0.00	0.00
11,100.0	89.64	359.76	9,165.2	1,962.1	-861.7	2,030.4	0.00	0.00	0.00
11,200.0	89.64	359.76	9,165.8	2,062.1	-862.1	2,130.0	0.00	0.00	0.00
11,300.0	89.64	359.76	9,166.5	2,162.1	-862.5	2,229.7	0.00	0.00	0.00
11,400.0	89.64	359.76	9,167.1	2,262.1	-863.0	2,329.3	0.00	0.00	0.00
11,500.0	89.64	359.76	9,167.7	2,362.1	-863.4	2,429.0	0.00	0.00	0.00
11,600.0	89.64	359.76	9,168.3	2,462.1	-863.8	2,528.6	0.00	0.00	0.00
11,700.0	89.64	359.76	9,168.9	2,562.1	-864.2	2,628.3	0.00	0.00	0.00
11,800.0	89.64	359.76	9,169.6	2,662.1	-864.7	2,727.9	0.00	0.00	0.00
11,900.0	89.64	359.76	9,170.2	2,762.1	-865.1	2,827.6	0.00	0.00	0.00
12,000.0	89.64	359.76	9,170.8	2,862.1	-865.5	2,927.2	0.00	0.00	0.00
12,100.0	89.64	359.76	9,171.4	2,962.1	-865.9	3,026.8	0.00	0.00	0.00
12,200.0	89.64	359.76	9,172.0	3,062.1	-866.4	3,126.5	0.00	0.00	0.00
12,300.0	89.64	359.76	9,172.7	3,162.0	-866.8	3,226.1	0.00	0.00	0.00
12,400.0	89.64	359.76	9,173.3	3,262.0	-867.2	3,325.8	0.00	0.00	0.00
12,500.0	89.64	359.76	9,173.9	3,362.0	-867.6	3,425.4	0.00	0.00	0.00
12,600.0	89.64	359.76	9,174.5	3,462.0	-868.1	3,525.1	0.00	0.00	0.00
12,700.0	89.64	359.76	9,175.1	3,562.0	-868.5	3,624.7	0.00	0.00	0.00
12,800.0	89.64	359.76	9,175.8	3,662.0	-868.9	3,724.4	0.00	0.00	0.00
12,900.0	89.64	359.76	9,176.4	3,762.0	-869.3	3,824.0	0.00	0.00	0.00
13,000.0	89.64	359.76	9,177.0	3,862.0	-869.8	3,923.7	0.00	0.00	0.00
13,100.0	89.64	359.76	9,177.6	3,962.0	-870.2	4,023.3	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MERCURY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3097.0usft (TBD)
Site:	MERCURY STATE COM PROJECT	MD Reference:	*KB=30' @ 3097.0usft (TBD)
Well:	MERCURY ST COM #703H	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)
13,200.0	89.64	359.76	9,178.2	4,062.0	-870.6	4,123.0	0.00	0.00	0.00
13,300.0	89.64	359.76	9,178.9	4,162.0	-871.0	4,222.6	0.00	0.00	0.00
13,400.0	89.64	359.76	9,179.5	4,262.0	-871.5	4,322.2	0.00	0.00	0.00
13,500.0	89.64	359.76	9,180.1	4,362.0	-871.9	4,421.9	0.00	0.00	0.00
13,600.0	89.64	359.76	9,180.7	4,462.0	-872.3	4,521.5	0.00	0.00	0.00
13,700.0	89.64	359.76	9,181.3	4,562.0	-872.7	4,621.2	0.00	0.00	0.00
13,800.0	89.64	359.76	9,182.0	4,662.0	-873.2	4,720.8	0.00	0.00	0.00
13,900.0	89.64	359.76	9,182.6	4,762.0	-873.6	4,820.5	0.00	0.00	0.00
14,000.0	89.64	359.76	9,183.2	4,862.0	-874.0	4,920.1	0.00	0.00	0.00
14,100.0	89.64	359.76	9,183.8	4,962.0	-874.4	5,019.8	0.00	0.00	0.00
14,200.0	89.64	359.76	9,184.4	5,062.0	-874.9	5,119.4	0.00	0.00	0.00
14,211.0	89.64	359.76	9,184.5	5,073.0	-874.9	5,130.4	0.00	0.00	0.00
Start DLS 2.00 TFO -90.05									
14,219.6	89.64	359.59	9,184.6	5,081.5	-875.0	5,138.9	2.00	0.00	-2.00
Start 5234.0 hold at 14219.6 MD									
14,300.0	89.64	359.59	9,185.1	5,162.0	-875.5	5,219.1	0.00	0.00	0.00
14,400.0	89.64	359.59	9,185.7	5,262.0	-876.3	5,318.7	0.00	0.00	0.00
14,500.0	89.64	359.59	9,186.3	5,362.0	-877.0	5,418.4	0.00	0.00	0.00
14,600.0	89.64	359.59	9,186.9	5,462.0	-877.7	5,518.1	0.00	0.00	0.00
14,700.0	89.64	359.59	9,187.5	5,562.0	-878.4	5,617.8	0.00	0.00	0.00
14,800.0	89.64	359.59	9,188.2	5,662.0	-879.2	5,717.4	0.00	0.00	0.00
14,900.0	89.64	359.59	9,188.8	5,762.0	-879.9	5,817.1	0.00	0.00	0.00
15,000.0	89.64	359.59	9,189.4	5,862.0	-880.6	5,916.8	0.00	0.00	0.00
15,100.0	89.64	359.59	9,190.0	5,962.0	-881.3	6,016.4	0.00	0.00	0.00
15,200.0	89.64	359.59	9,190.6	6,061.9	-882.0	6,116.1	0.00	0.00	0.00
15,300.0	89.64	359.59	9,191.3	6,161.9	-882.8	6,215.8	0.00	0.00	0.00
15,400.0	89.64	359.59	9,191.9	6,261.9	-883.5	6,315.4	0.00	0.00	0.00
15,500.0	89.64	359.59	9,192.5	6,361.9	-884.2	6,415.1	0.00	0.00	0.00
15,600.0	89.64	359.59	9,193.1	6,461.9	-884.9	6,514.8	0.00	0.00	0.00
15,700.0	89.64	359.59	9,193.7	6,561.9	-885.7	6,614.5	0.00	0.00	0.00
15,800.0	89.64	359.59	9,194.4	6,661.9	-886.4	6,714.1	0.00	0.00	0.00
15,900.0	89.64	359.59	9,195.0	6,761.9	-887.1	6,813.8	0.00	0.00	0.00
16,000.0	89.64	359.59	9,195.6	6,861.9	-887.8	6,913.5	0.00	0.00	0.00
16,100.0	89.64	359.59	9,196.2	6,961.9	-888.5	7,013.1	0.00	0.00	0.00
16,200.0	89.64	359.59	9,196.8	7,061.9	-889.3	7,112.8	0.00	0.00	0.00
16,300.0	89.64	359.59	9,197.4	7,161.9	-890.0	7,212.5	0.00	0.00	0.00
16,400.0	89.64	359.59	9,198.1	7,261.9	-890.7	7,312.1	0.00	0.00	0.00
16,500.0	89.64	359.59	9,198.7	7,361.9	-891.4	7,411.8	0.00	0.00	0.00
16,600.0	89.64	359.59	9,199.3	7,461.9	-892.2	7,511.5	0.00	0.00	0.00
16,700.0	89.64	359.59	9,199.9	7,561.9	-892.9	7,611.1	0.00	0.00	0.00
16,800.0	89.64	359.59	9,200.5	7,661.9	-893.6	7,710.8	0.00	0.00	0.00
16,900.0	89.64	359.59	9,201.2	7,761.9	-894.3	7,810.5	0.00	0.00	0.00
17,000.0	89.64	359.59	9,201.8	7,861.9	-895.0	7,910.2	0.00	0.00	0.00
17,100.0	89.64	359.59	9,202.4	7,961.9	-895.8	8,009.8	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MERCURY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3097.0usft (TBD)
Site:	MERCURY STATE COM PROJECT	MD Reference:	*KB=30' @ 3097.0usft (TBD)
Well:	MERCURY ST COM #703H	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)	
17,200.0	89.64	359.59	9,203.0	8,061.9	-896.5	8,109.5	0.00	0.00	0.00	
17,300.0	89.64	359.59	9,203.6	8,161.9	-897.2	8,209.2	0.00	0.00	0.00	
17,400.0	89.64	359.59	9,204.3	8,261.8	-897.9	8,308.8	0.00	0.00	0.00	
17,500.0	89.64	359.59	9,204.9	8,361.8	-898.7	8,408.5	0.00	0.00	0.00	
17,600.0	89.64	359.59	9,205.5	8,461.8	-899.4	8,508.2	0.00	0.00	0.00	
17,700.0	89.64	359.59	9,206.1	8,561.8	-900.1	8,607.8	0.00	0.00	0.00	
17,800.0	89.64	359.59	9,206.7	8,661.8	-900.8	8,707.5	0.00	0.00	0.00	
17,900.0	89.64	359.59	9,207.4	8,761.8	-901.5	8,807.2	0.00	0.00	0.00	
18,000.0	89.64	359.59	9,208.0	8,861.8	-902.3	8,906.9	0.00	0.00	0.00	
18,100.0	89.64	359.59	9,208.6	8,961.8	-903.0	9,006.5	0.00	0.00	0.00	
18,200.0	89.64	359.59	9,209.2	9,061.8	-903.7	9,106.2	0.00	0.00	0.00	
18,300.0	89.64	359.59	9,209.8	9,161.8	-904.4	9,205.9	0.00	0.00	0.00	
18,400.0	89.64	359.59	9,210.5	9,261.8	-905.2	9,305.5	0.00	0.00	0.00	
18,500.0	89.64	359.59	9,211.1	9,361.8	-905.9	9,405.2	0.00	0.00	0.00	
18,600.0	89.64	359.59	9,211.7	9,461.8	-906.6	9,504.9	0.00	0.00	0.00	
18,700.0	89.64	359.59	9,212.3	9,561.8	-907.3	9,604.5	0.00	0.00	0.00	
18,800.0	89.64	359.59	9,212.9	9,661.8	-908.0	9,704.2	0.00	0.00	0.00	
18,900.0	89.64	359.59	9,213.6	9,761.8	-908.8	9,803.9	0.00	0.00	0.00	
19,000.0	89.64	359.59	9,214.2	9,861.8	-909.5	9,903.6	0.00	0.00	0.00	
19,100.0	89.64	359.59	9,214.8	9,961.8	-910.2	10,003.2	0.00	0.00	0.00	
19,200.0	89.64	359.59	9,215.4	10,061.8	-910.9	10,102.9	0.00	0.00	0.00	
19,300.0	89.64	359.59	9,216.0	10,161.8	-911.7	10,202.6	0.00	0.00	0.00	
19,400.0	89.64	359.59	9,216.7	10,261.8	-912.4	10,302.2	0.00	0.00	0.00	
19,453.6	89.64	359.59	9,217.0	10,315.3	-912.8	10,355.6	0.00	0.00	0.00	
TD at 19453.6										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
T1 (MERCURY ST COM - plan hits target center - Rectangle (sides W100.0 H5,292.0 D20.0)	-0.36	179.76	9,184.5	5,073.0	-874.9	381,833.41	564,515.47	32° 2' 58.574 N	104° 7' 30.372 W	
PBHL/LTP (MERCURY ST COM - plan hits target center - Rectangle (sides W100.0 H5,246.0 D20.0)	-0.36	179.59	9,217.0	10,315.3	-912.8	387,075.69	564,477.61	32° 3' 50.456 N	104° 7' 30.695 W	
FTP (MERCURY ST COM - plan misses target center by 437.2usft at 9158.9usft MD (9067.9 TVD, 78.6 N, -631.5 E) - Circle (radius 50.0)	0.00	0.00	9,302.0	-220.2	-848.5	376,540.14	564,541.89	32° 2' 6.188 N	104° 7' 30.184 W	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well MERCURY ST COM #703H
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Site:	MERCURY STATE COM PROJECT	MD Reference:	*KB=30' @ 3097.0usft (TBD)
Well:	MERCURY ST COM #703H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	PWP1	Database:	edm

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2500	2500	0	0	Start Build 2.00
2751	2750	-2	-11	Start 5960.9 hold at 2750.5 MD
8711	8688	-95	-523	Start DLS 12.00 TFO 77.47
9449	9155	327	-744	Start DLS 4.00 TFO 90.08
10,016	9159	878	-857	Start 4195.3 hold at 10015.8 MD
14,211	9184	5073	-875	Start DLS 2.00 TFO -90.05
14,220	9185	5082	-875	Start 5234.0 hold at 14219.6 MD
19,454	9217	10,315	-913	TD at 19453.6

Checked By: _____	Approved By: _____	Date: _____
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