

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 286688

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 30-015-47461
4. Property Code 329348	5. Property Name Potato Baby State Com	6. Well No. 702H

7. Surface Location

UL - Lot H	Section 34	Township 26S	Range 28E	Lot Idn 4	Feet From 300	N/S Line S	Feet From 1210	E/W Line E	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot H	Section 22	Township 26S	Range 28E	Lot Idn H	Feet From 1365	N/S Line N	Feet From 1210	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 3074
16. Multiple N	17. Proposed Depth 20730	18. Formation Wolfcamp	19. Contractor	20. Spud Date 1/1/2021
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	14.375	10.375	45.5	825	550	0
Int1	9.875	7.625	29.7	8800	900	0
Prod	6.375	5.5	20	20730	1300	8300

Casing/Cement Program: Additional Comments

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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.	OIL CONSERVATION DIVISION	
Signature:		
Printed Name: Electronically filed by Diane Kuykendall	Approved By: Scott Cox	
Title: Production Accounting Director	Title: Petroleum Engineer Supervisor	
Email Address: dkuykendall@concho.com	Approved Date: 9/24/2020	Expiration Date: 9/24/2022
Date: 9/17/2020	Phone: 432-685-4372	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 POTATO BABY STATE COM	6 Well Number 702H
7 OGRID No. 229137	8 Operator Name COG OPERATING LLC	9 Elevation 3074'

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
4	34	26-S	28-E		300'	SOUTH	1210'	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
H	22	26-S	28-E		1365'	NORTH	1210'	EAST	EDDY

12 Dedicated Acres 767.52	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.

CORNER DATA
NEW MEXICO EAST - NAD 83

A - FOUND IRON PIPE W/ BRASS CAP
N:376622.59' E:618799.59'

B - FOUND IRON PIPE W/ BRASS CAP
N:376624.01' E:621366.59'

C - FOUND IRON PIPE W/ BRASS CAP
N:376625.57' E:623933.68'

D - FOUND IRON PIPE W/ BRASS CAP
N:374020.30' E:623931.34'

E - FOUND IRON PIPE W/ BRASS CAP
N:371372.64' E:623894.95'

F - FOUND IRON PIPE W/ BRASS CAP
N:371325.17' E:621481.50'

G - FOUND IRON PIPE W/ BRASS CAP
N:371328.78' E:618821.83'

H - FOUND IRON PIPE W/ BRASS CAP
N:373976.13' E:618810.67'

I - FOUND IRON PIPE W/ BRASS CAP
N:368720.47' E:623950.18'

J - FOUND IRON PIPE W/ BRASS CAP
N:366069.65' E:623952.49'

K - CALCULATED CORNER
N:366058.22' E:621388.44'

L - FOUND IRON PIPE W/ BRASS CAP
N:366046.79' E:618824.39'

M - FOUND IRON PIPE W/ BRASS CAP
N:368688.50' E:618819.64'

N - FOUND IRON PIPE W/ BRASS CAP
N:363845.40' E:623957.83'

O - CALCULATED CORNER
N:363833.89' E:621393.73'

P - FOUND IRON PIPE W/ BRASS CAP
N:363822.34' E:618829.54'

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 9/17/2020
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

GARRETT J. SMELKER
NEW MEXICO
25036
09/01/2020
PROFESSIONAL SURVEYOR

Certificate Number

LAST TAKE POINT (LTP) & BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST - NAD 83
X=622722.45
Y=375259.83
LAT. = 32.03139732° N
LONG. = 104.07070960° W
1365' FNL, 1210' FEL
SECTION 22

SURFACE HOLE LOCATION (SHL)
NEW MEXICO EAST - NAD 83
X=622747.12
Y=364139.99
LAT. = 32.00082905° N
LONG. = 104.07070960° W
300' FSL, 1210' FEL
SECTION 34

FIRST TAKE POINT (FTP)
NEW MEXICO EAST - NAD 83
X=622747.05
Y=364169.99
LAT. = 32.00091152° N
LONG. = 104.07070960° W
330' FSL, 1210' FEL
SECTION 34

Intent ☒ As Drilled ☐

API #

30-015-

Operator Name:

COG Operating LLC

Property Name:

Potato Baby State

Well Number

702H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
H	34	26S	28E	4					Eddy
Latitude					Longitude				NAD
									83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
H	34	26S	28E	4	330	South	1210	East	Eddy
Latitude					Longitude				NAD
32.00091152					-104.07070960				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
H	22	26S	28E		1365	North	1210	East	Eddy
Latitude					Longitude				NAD
32.03139732					-104.07070199				NAD 83

Is this well the defining well for the Horizontal Spacing Unit?

NO

Is this well an infill well?

YES

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

API #

30-015-

Operator Name:

COG Operating LLC

Property Name:

Potato Baby State

Well Number

703H

KZ 06/29/2018

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GAS CAPTURE PLAN

Date: 9/24/2020

☒ 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, recomple 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
Potato Baby State Com #702H	30-015-47461	H-34-26S-28E	0300S 1210E	5000	None	Red Bluff low pressure gathering plant. Sec 35-Blk 57, T2, Culberson Co., Texas

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to ETC FIELD SERVICES LLC and will be connected to ETC FIELD SERVICES LLC Low Pressure gathering system located in Eddy County, New Mexico. It will require 0' of pipeline to connect the facility to Low Pressure gathering system. COG OPERATING LLC provides (periodically) to ETC FIELD SERVICES LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, COG OPERATING LLC and ETC FIELD SERVICES LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at ETC FIELD SERVICES LLC Processing Plant located in Sec. 34, Twn. 26S, Rng. 28E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

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

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

Alternatives to Reduce Flaring

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

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

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

Form APD Comments

Permit 286688

PERMIT COMMENTS

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701		API Number: 30-015-47461
		Well: Potato Baby State Com #702H

Created By	Comment	Comment Date
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Form APD Conditions

Permit 286688

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701	API Number: 30-015-47461
	Well: Potato Baby State Com #702H

OCD Reviewer	Condition
ksimmons	Will require a directional survey with the C-104
ksimmons	Cement is required to circulate on both surface and intermediate1 strings of casing
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	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

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Form C-102

Revised August 1, 2011

Submit one copy to appropriate

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

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4 Property Code	5 Property Name POTATO BABY STATE COM	6 Well Number 702H
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12 Dedicated Acres 767.52	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.

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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 9/17/2020
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

GARRETT J. SMELKER
NEW MEXICO
25036
09/01/2020
PROFESSIONAL SURVEYOR

Certificate Number

CORNER DATA
NEW MEXICO EAST - NAD 83

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N:366058.22' E:621388.44'

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O - CALCULATED CORNER
N:363833.89' E:621393.73'

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N:363822.34' E:618829.54'

LAST TAKE POINT (LTP) & BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST - NAD 83

X=622722.45
Y=375259.83
LAT. = 32.03139732° N
LONG. = 104.07070960° W
1365' FNL, 1210' FEL
SECTION 22

SURFACE HOLE LOCATION (SHL)
NEW MEXICO EAST - NAD 83

X=622747.12
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LAT. = 32.00082905° N
LONG. = 104.07070960° W
300' FSL, 1210' FEL
SECTION 34

FIRST TAKE POINT (FTP)
NEW MEXICO EAST - NAD 83

X=622747.05
Y=364169.99
LAT. = 32.00091152° N
LONG. = 104.07070960° W
330' FSL, 1210' FEL
SECTION 34

Intent ☒ As Drilled ☐

API #

30-015-

Operator Name:

COG Operating LLC

Property Name:

Potato Baby State

Well Number

702H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
H	34	26S	28E	4					Eddy
Latitude					Longitude				NAD
									83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
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Latitude					Longitude				NAD
32.00091152					-104.07070960				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
H	22	26S	28E		1365	North	1210	East	Eddy
Latitude					Longitude				NAD
32.03139732					-104.07070199				NAD 83

Is this well the defining well for the Horizontal Spacing Unit?

NO

Is this well an infill well?

YES

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

API #

30-015-

Operator Name:

COG Operating LLC

Property Name:

Potato Baby State

Well Number

703H

KZ 06/29/2018

Potato Baby State Com #702H

Casing and Cement

<u>String</u>	<u>Hole Size</u>	<u>Csg OD</u>	<u>PPE</u>	<u>Depth</u>	<u>Sx Cement</u>	<u>TOC</u>
Surface	14 3/4"	10 3/4"	45.5#	825'	550	0'
Intermediate	9 7/8"	7-5/8"	29.7#	8800'	900	0'
Production	6-3/4"	5-1/2"	23#	20730'	1300	8300'

Well Plan

Drill 14-3/4" hole to ~825' 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 ~8,800' 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 20730' with OBM. Run 5-1/2" 23# P110 BTC casing from TD to surface and cement to 8300' in one stage.

Well Control

<u>Type</u>	<u>Working Pressure</u>	<u>Test Pressure</u>	<u>Manufacture</u>
Double Ram	5000 psi	5000 psi	Cameron

COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

- a. The hazards and characteristics of hydrogen sulfide (H₂S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- d. The proper techniques for first aid and rescue procedures.

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

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

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

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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

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

- b. Protective equipment for essential personnel:
Mark II Surviveair 30-minute units located in the dog house and at briefing areas.
- c. H2S detection and monitoring equipment:
2 - portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.
- d. Visual warning systems:
Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.
- e. Mud Program:
The mud program has been designed to minimize the volume of H2S circulated to the surface.
- f. Metallurgy:
All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- g. Communication:
Company vehicles equipped with cellular telephone.

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

W A R N I N G

**YOU ARE ENTERING AN H₂S AREA
AUTHORIZED PERSONNEL ONLY**

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

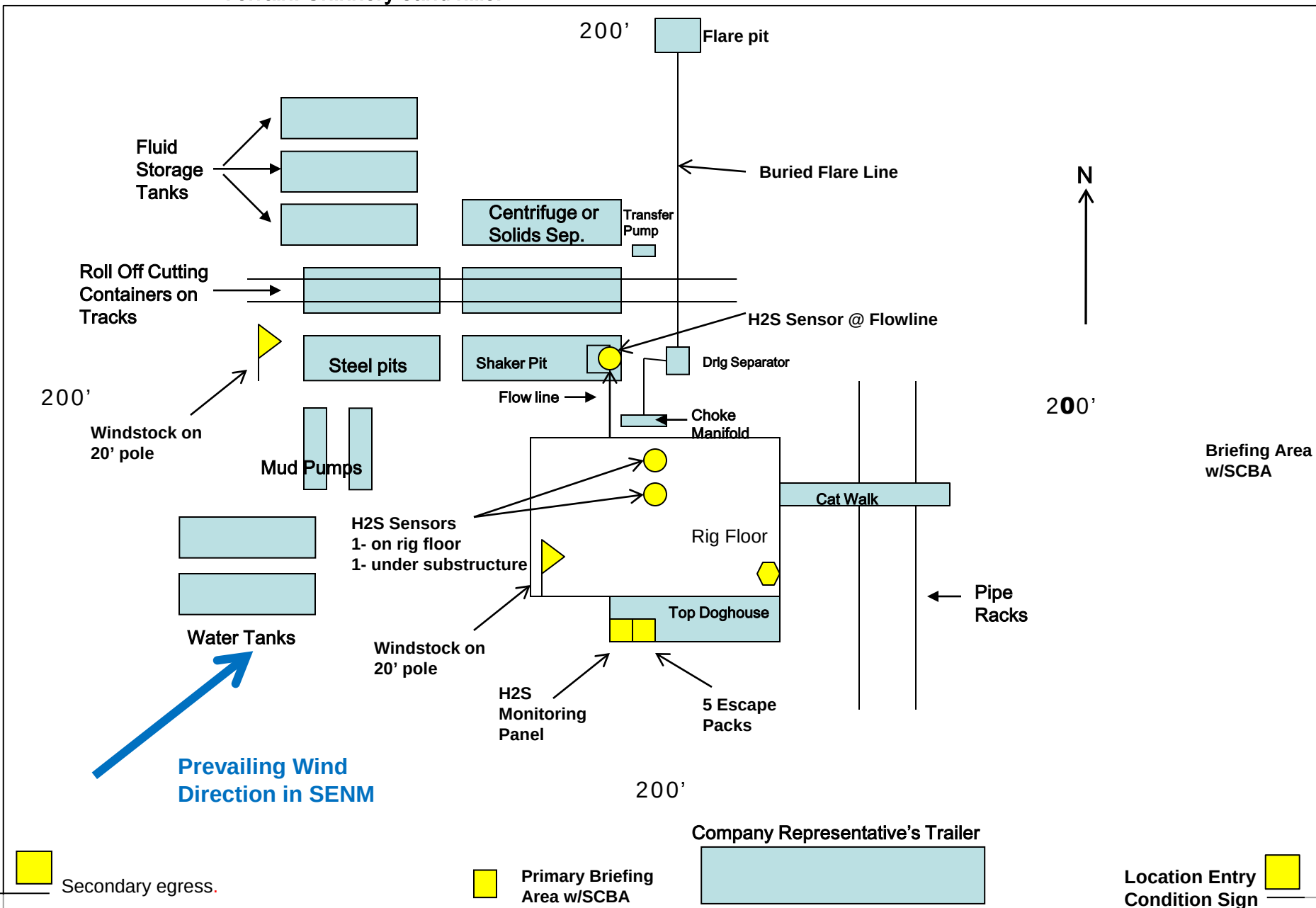
	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
SETH WILD	432-683-7443	432-528-3633
WALTER ROYE	575-748-6940	432-934-1886

EMERGENCY RESPONSE NUMBERS

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

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

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



DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

POTATO BABY STATE PROJECT (ATLAS 2628)

POTATO BABY ST COM #702H

OWB

PWP5

Anticollision Report

17 September, 2020

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Reference	PWP5		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum ellipse separation of 1,000.0 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	9/10/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	20,730.4	PWP5 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
POTATO BABY STATE PROJECT (ATLAS 2628)						
DIAMONDBACK 22 ST COM 3H - OWB - AWP	17,500.0	14,102.6	920.0	801.0	7.735	SF
DIAMONDBACK 22 ST COM 3H - OWB - AWP	19,229.5	12,379.4	893.4	780.1	7.882	CC, ES
DIAMONDBACK 22 STATE COM #5H - OWB - ACTUAL						Out of range
POTATO BABY ST COM #701H - OWB - PWP5	2,500.0	2,499.0	30.0	17.3	2.366	CC, ES, SF
POTATO BABY ST COM #703H - OWB - PWP2	2,416.3	2,417.3	30.0	12.1	1.676	Advise and Monitor, CC
POTATO BABY ST COM #703H - OWB - PWP2	2,500.0	2,501.0	30.0	11.5	1.625	Advise and Monitor, ES, S

POTATO BABY STATE PROJECT (ATLAS 2628) - DIAMONDBACK 22 ST COM 3H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 9818-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	
17,200.0	9,604.5	14,116.0	10,360.1	73.9	66.6	143.56	7,879.0	493.5	966.8	853.6	113.15	8.544	
17,300.0	9,604.3	14,116.0	10,360.1	74.7	66.6	143.56	7,879.0	493.5	940.9	824.8	116.05	8.107	
17,400.0	9,604.1	14,116.0	10,360.1	75.5	66.6	143.56	7,879.0	493.5	925.1	807.1	118.08	7.835	
17,500.0	9,604.0	14,102.6	10,359.9	76.2	66.4	143.55	7,892.5	493.7	920.0	801.0	118.94	7.735	SF
17,600.0	9,603.8	14,001.3	10,358.3	77.0	64.7	143.50	7,993.8	495.2	918.8	800.1	118.64	7.744	
17,700.0	9,603.6	13,892.0	10,356.4	77.8	62.9	143.50	8,103.0	495.8	916.9	798.7	118.24	7.755	
17,800.0	9,603.4	13,780.8	10,354.9	78.6	61.1	143.56	8,214.2	495.3	914.8	797.1	117.76	7.768	
17,900.0	9,603.2	13,684.0	10,352.2	79.3	59.5	143.59	8,310.9	494.4	911.3	793.8	117.47	7.758	
18,000.0	9,603.0	13,587.0	10,349.9	80.1	58.0	143.64	8,407.9	493.3	907.9	790.7	117.17	7.748	
18,100.0	9,602.9	13,492.9	10,348.8	80.9	56.4	143.73	8,502.0	492.4	905.6	788.7	116.88	7.748	
18,200.0	9,602.7	13,400.1	10,349.3	81.7	54.9	143.91	8,594.8	490.8	904.2	787.7	116.56	7.757	
18,255.6	9,602.6	13,357.0	10,349.5	82.1	54.2	143.97	8,637.9	490.6	903.8	787.3	116.47	7.760	
18,300.0	9,602.5	13,327.0	10,349.9	82.5	53.7	144.00	8,667.9	490.8	904.1	787.7	116.43	7.765	
18,400.0	9,602.3	13,259.4	10,351.5	83.2	52.6	143.97	8,735.3	493.7	907.8	791.5	116.30	7.806	
18,500.0	9,602.1	13,094.8	10,352.4	84.0	50.0	143.77	8,899.7	501.0	910.4	794.6	115.80	7.862	
18,577.4	9,602.0	13,034.7	10,350.9	84.6	49.0	143.70	8,959.8	502.4	909.4	793.6	115.78	7.854	
18,600.0	9,601.9	13,018.0	10,350.7	84.8	48.7	143.68	8,976.5	503.0	909.5	793.7	115.77	7.856	
18,700.0	9,601.8	12,926.1	10,351.3	85.6	47.3	143.62	9,068.3	506.1	911.2	795.5	115.61	7.881	
18,800.0	9,601.6	12,752.7	10,353.9	86.4	44.4	144.29	9,241.4	497.9	908.8	794.5	114.36	7.947	
18,900.0	9,601.4	12,643.6	10,350.6	87.2	42.7	144.70	9,350.1	489.5	901.1	787.3	113.83	7.917	
19,000.0	9,601.2	12,585.6	10,349.7	88.0	41.7	144.93	9,407.9	485.5	895.5	781.4	114.02	7.854	

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 POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - DIAMONDBACK 22 ST COM 3H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 9818-MWD													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	
19,047.3	9,601.1	12,563.8	10,350.4	88.4	41.4	145.03	9,429.7	484.4	894.8	780.8	114.09	7.843		
19,100.0	9,601.0	12,526.9	10,352.2	88.8	40.8	145.19	9,466.5	483.1	895.4	781.4	114.01	7.854		
19,200.0	9,600.8	12,396.5	10,357.1	89.6	38.6	145.95	9,596.5	474.5	893.7	780.3	113.35	7.884		
19,220.9	9,600.8	12,383.0	10,357.6	89.7	38.4	146.01	9,610.0	473.7	893.5	780.1	113.34	7.883		
19,229.5	9,600.8	12,379.4	10,357.7	89.8	38.4	146.03	9,613.6	473.6	893.4	780.1	113.36	7.882 CC, ES		
19,264.3	9,600.7	12,349.1	10,358.4	90.1	37.9	146.09	9,643.9	473.1	893.7	780.3	113.31	7.887		
19,300.0	9,600.7	12,314.1	10,358.8	90.4	37.3	146.11	9,678.9	473.1	894.1	780.8	113.26	7.894		
19,400.0	9,600.5	12,218.0	10,359.7	91.2	35.8	146.09	9,775.0	474.3	895.6	782.5	113.18	7.913		
19,500.0	9,600.3	12,131.0	10,360.2	92.0	34.4	146.11	9,862.0	474.5	896.6	783.5	113.13	7.926		
19,600.0	9,600.1	12,034.3	10,364.5	92.8	32.8	146.16	9,958.5	476.5	901.5	788.5	112.95	7.981		
19,700.0	9,599.9	11,910.0	10,365.6	93.6	30.8	146.24	10,082.8	476.1	901.8	789.1	112.72	8.001		
19,800.0	9,599.7	11,821.4	10,365.8	94.4	29.4	146.02	10,171.2	480.4	904.7	791.9	112.79	8.021		
19,900.0	9,599.5	11,692.9	10,363.3	95.2	27.4	145.79	10,299.7	483.4	904.3	791.6	112.66	8.027		
19,952.9	9,599.4	11,649.4	10,362.4	95.6	26.7	145.72	10,343.2	484.2	904.0	791.3	112.73	8.019		
20,000.0	9,599.4	11,615.7	10,362.0	96.0	26.2	145.66	10,376.8	485.2	904.3	791.5	112.81	8.016		
20,100.0	9,599.2	11,542.0	10,361.9	96.8	25.1	145.43	10,450.4	489.5	907.5	794.6	112.93	8.036		
20,200.0	9,599.0	11,424.0	10,364.2	97.6	23.2	145.20	10,568.2	496.0	912.7	799.8	112.91	8.083		
20,300.0	9,598.8	11,315.0	10,365.4	98.4	21.5	145.27	10,677.2	495.6	913.4	800.5	112.94	8.088		
20,400.0	9,598.6	11,212.6	10,366.6	99.2	20.0	145.30	10,779.6	496.1	914.8	801.7	113.05	8.092		
20,500.0	9,598.4	11,112.8	10,368.0	100.0	18.5	145.36	10,879.4	496.0	916.0	802.8	113.19	8.092		
20,600.0	9,598.2	11,012.3	10,370.1	100.8	17.0	145.51	10,979.9	494.7	917.0	803.7	113.36	8.089		
20,700.0	9,598.1	10,895.7	10,371.6	101.6	15.3	145.76	11,096.4	491.2	916.4	802.9	113.50	8.074		
20,730.4	9,598.0	10,779.9	10,366.7	101.9	13.8	145.77	11,211.9	487.9	915.1	802.2	112.95	8.102		

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 POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #701H - OWB - PWP5												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8968-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
0.0	0.0	0.0	0.0	3.0	3.0	89.75	0.1	30.0	30.0				
100.0	100.0	99.0	99.0	3.0	3.0	89.75	0.1	30.0	30.0	24.0	6.00	4.996	
200.0	200.0	199.0	199.0	3.0	3.0	89.75	0.1	30.0	30.0	24.0	6.04	4.965	
300.0	300.0	299.0	299.0	3.1	3.0	89.75	0.1	30.0	30.0	23.9	6.12	4.900	
400.0	400.0	399.0	399.0	3.2	3.0	89.75	0.1	30.0	30.0	23.7	6.24	4.806	
500.0	500.0	499.0	499.0	3.4	3.1	89.75	0.1	30.0	30.0	23.6	6.40	4.689	
600.0	600.0	599.0	599.0	3.6	3.1	89.75	0.1	30.0	30.0	23.4	6.58	4.555	
700.0	700.0	699.0	699.0	3.8	3.1	89.75	0.1	30.0	30.0	23.2	6.80	4.411	
800.0	800.0	799.0	799.0	4.0	3.2	89.75	0.1	30.0	30.0	23.0	7.04	4.262	
900.0	900.0	899.0	899.0	4.2	3.2	89.75	0.1	30.0	30.0	22.7	7.29	4.112	
1,000.0	1,000.0	999.0	999.0	4.5	3.2	89.75	0.1	30.0	30.0	22.4	7.57	3.963	
1,100.0	1,100.0	1,099.0	1,099.0	4.8	3.3	89.75	0.1	30.0	30.0	22.1	7.86	3.817	
1,200.0	1,200.0	1,199.0	1,199.0	5.1	3.4	89.75	0.1	30.0	30.0	21.8	8.16	3.676	
1,300.0	1,300.0	1,299.0	1,299.0	5.3	3.4	89.75	0.1	30.0	30.0	21.5	8.47	3.541	
1,400.0	1,400.0	1,399.0	1,399.0	5.6	3.5	89.75	0.1	30.0	30.0	21.2	8.79	3.412	
1,500.0	1,500.0	1,499.0	1,499.0	6.0	3.5	89.75	0.1	30.0	30.0	20.9	9.12	3.289	
1,600.0	1,600.0	1,599.0	1,599.0	6.3	3.6	89.75	0.1	30.0	30.0	20.5	9.45	3.173	
1,700.0	1,700.0	1,699.0	1,699.0	6.6	3.7	89.75	0.1	30.0	30.0	20.2	9.79	3.062	
1,800.0	1,800.0	1,799.0	1,799.0	6.9	3.8	89.75	0.1	30.0	30.0	19.9	10.14	2.958	
1,900.0	1,900.0	1,899.0	1,899.0	7.2	3.9	89.75	0.1	30.0	30.0	19.5	10.49	2.859	
2,000.0	2,000.0	1,999.0	1,999.0	7.6	3.9	89.75	0.1	30.0	30.0	19.1	10.85	2.765	
2,100.0	2,100.0	2,099.0	2,099.0	7.9	4.0	89.75	0.1	30.0	30.0	18.8	11.21	2.676	
2,200.0	2,200.0	2,199.0	2,199.0	8.2	4.1	89.75	0.1	30.0	30.0	18.4	11.57	2.592	
2,300.0	2,300.0	2,299.0	2,299.0	8.6	4.2	89.75	0.1	30.0	30.0	18.1	11.94	2.513	
2,400.0	2,400.0	2,399.0	2,399.0	8.9	4.3	89.75	0.1	30.0	30.0	17.7	12.31	2.437	
2,500.0	2,500.0	2,499.0	2,499.0	9.2	4.4	89.75	0.1	30.0	30.0	17.3	12.68	2.366 CC, ES, SF	
2,600.0	2,600.0	2,598.0	2,598.0	9.6	4.4	-93.65	-0.6	31.5	31.6	18.6	13.03	2.424	
2,700.0	2,699.8	2,696.9	2,696.7	9.9	4.4	-98.02	-2.7	36.1	36.6	23.2	13.39	2.735	
2,800.0	2,799.6	2,795.9	2,795.4	10.2	4.5	-101.34	-6.2	43.5	44.7	30.9	13.77	3.245	
2,900.0	2,899.4	2,895.5	2,894.6	10.5	4.5	-103.34	-9.8	51.4	53.2	39.1	14.16	3.761	
3,000.0	2,999.1	2,995.1	2,993.9	10.8	4.5	-104.78	-13.5	59.2	61.9	47.3	14.55	4.252	
3,100.0	3,098.9	3,094.7	3,093.1	11.1	4.5	-105.87	-17.2	67.1	70.5	55.6	14.94	4.718	
3,200.0	3,198.6	3,194.4	3,192.4	11.4	4.5	-106.72	-20.8	75.0	79.2	63.8	15.34	5.161	
3,300.0	3,298.4	3,294.0	3,291.6	11.8	4.5	-107.40	-24.5	82.8	87.8	72.1	15.74	5.581	
3,400.0	3,398.1	3,393.6	3,390.8	12.1	4.6	-107.96	-28.2	90.7	96.5	80.4	16.14	5.980	
3,500.0	3,497.9	3,493.2	3,490.1	12.4	4.6	-108.43	-31.9	98.6	105.2	88.7	16.54	6.359	
3,600.0	3,597.6	3,592.8	3,589.3	12.8	4.6	-108.82	-35.5	106.4	113.9	96.9	16.95	6.719	
3,700.0	3,697.4	3,692.5	3,688.6	13.1	4.7	-109.16	-39.2	114.3	122.6	105.2	17.36	7.062	
3,800.0	3,797.2	3,792.1	3,787.8	13.4	4.7	-109.46	-42.9	122.2	131.3	113.5	17.77	7.387	
3,900.0	3,896.9	3,891.7	3,887.0	13.8	4.8	-109.72	-46.5	130.1	140.0	121.8	18.19	7.698	
4,000.0	3,996.7	3,991.3	3,986.3	14.1	4.8	-109.95	-50.2	137.9	148.7	130.1	18.61	7.993	
4,100.0	4,096.4	4,090.9	4,085.5	14.4	4.9	-110.15	-53.9	145.8	157.4	138.4	19.03	8.275	
4,200.0	4,196.2	4,190.6	4,184.8	14.8	4.9	-110.33	-57.5	153.7	166.1	146.7	19.45	8.543	
4,300.0	4,295.9	4,290.2	4,284.0	15.1	5.0	-110.49	-61.2	161.5	174.9	155.0	19.87	8.800	
4,400.0	4,395.7	4,389.8	4,383.2	15.4	5.1	-110.64	-64.9	169.4	183.6	163.3	20.30	9.044	
4,500.0	4,495.5	4,489.4	4,482.5	15.8	5.1	-110.78	-68.5	177.3	192.3	171.6	20.72	9.278	
4,600.0	4,595.2	4,589.0	4,581.7	16.1	5.2	-110.90	-72.2	185.1	201.0	179.9	21.15	9.502	
4,700.0	4,695.0	4,688.6	4,680.9	16.5	5.3	-111.01	-75.9	193.0	209.7	188.1	21.59	9.716	
4,800.0	4,794.7	4,788.3	4,780.2	16.8	5.3	-111.11	-79.6	200.9	218.4	196.4	22.02	9.921	
4,900.0	4,894.5	4,887.9	4,879.4	17.2	5.4	-111.21	-83.2	208.7	227.2	204.7	22.45	10.118	
5,000.0	4,994.2	4,987.5	4,978.7	17.5	5.5	-111.30	-86.9	216.6	235.9	213.0	22.89	10.306	

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 POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Offset Design		POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #701H - OWB - PWP5										Offset Site Error:		3.0 usft	
Survey Program:		0-Standard Keeper 104, 8968-MWD+IFR1+FDIR										Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis		Distance								Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,100.0	5,094.0	5,087.1	5,077.9	17.9	5.6	-111.38	-90.6	224.5	244.6	221.3	23.33	10.487			
5,200.0	5,193.7	5,186.7	5,177.1	18.2	5.7	-111.46	-94.2	232.3	253.3	229.6	23.77	10.660			
5,300.0	5,293.5	5,286.4	5,276.4	18.6	5.7	-111.53	-97.9	240.2	262.1	237.9	24.21	10.826			
5,400.0	5,393.3	5,386.0	5,375.6	18.9	5.8	-111.60	-101.6	248.1	270.8	246.1	24.65	10.986			
5,500.0	5,493.0	5,485.6	5,474.9	19.3	5.9	-111.66	-105.2	256.0	279.5	254.4	25.09	11.140			
5,600.0	5,592.8	5,585.2	5,574.1	19.6	6.0	-111.72	-108.9	263.8	288.2	262.7	25.53	11.288			
5,700.0	5,692.5	5,684.8	5,673.3	20.0	6.1	-111.77	-112.6	271.7	297.0	271.0	25.98	11.430			
5,798.4	5,790.7	5,782.8	5,771.0	20.3	6.2	-111.82	-116.2	279.4	305.5	279.1	26.42	11.565			
5,800.0	5,792.3	5,784.4	5,772.6	20.3	6.2	-111.83	-116.2	279.6	305.7	279.3	26.43	11.567			
5,900.0	5,892.1	5,884.1	5,871.9	20.7	6.3	-111.72	-119.9	287.4	313.7	286.9	26.87	11.676			
5,998.4	5,990.5	5,982.1	5,969.5	21.0	6.4	70.55	-123.5	295.2	320.4	293.1	27.30	11.737			
6,000.0	5,992.1	5,983.8	5,971.1	21.0	6.4	70.57	-123.6	295.3	320.5	293.2	27.31	11.738			
6,100.0	6,092.1	6,083.4	6,070.4	21.3	6.5	71.64	-127.3	303.2	326.8	299.1	27.74	11.781			
6,200.0	6,192.1	6,183.0	6,169.6	21.7	6.6	72.67	-130.9	311.0	333.2	305.1	28.18	11.827			
6,300.0	6,292.1	6,282.6	6,268.9	22.0	6.7	73.66	-134.6	318.9	339.7	311.1	28.61	11.873			
6,400.0	6,392.1	6,382.2	6,368.1	22.4	6.8	74.61	-138.3	326.8	346.3	317.3	29.05	11.922			
6,500.0	6,492.1	6,481.9	6,467.3	22.7	6.9	75.52	-141.9	334.6	353.0	323.5	29.49	11.971			
6,600.0	6,592.1	6,581.5	6,566.6	23.1	7.0	76.40	-145.6	342.5	359.8	329.9	29.93	12.021			
6,700.0	6,692.1	6,681.1	6,665.8	23.4	7.1	77.25	-149.3	350.4	366.7	336.3	30.37	12.072			
6,800.0	6,792.1	6,780.7	6,765.1	23.7	7.2	78.07	-152.9	358.3	373.6	342.8	30.82	12.123			
6,900.0	6,892.1	6,880.3	6,864.3	24.1	7.3	78.86	-156.6	366.1	380.6	349.4	31.26	12.175			
7,000.0	6,992.1	6,980.0	6,963.5	24.4	7.4	79.61	-160.3	374.0	387.7	356.0	31.71	12.227			
7,100.0	7,092.1	7,079.6	7,062.8	24.8	7.5	80.35	-164.0	381.9	394.9	362.7	32.16	12.280			
7,200.0	7,192.1	7,179.2	7,162.0	25.1	7.6	81.05	-167.6	389.7	402.1	369.5	32.60	12.332			
7,300.0	7,292.1	7,278.8	7,261.3	25.5	7.7	81.73	-171.3	397.6	409.3	376.3	33.05	12.384			
7,400.0	7,392.1	7,378.4	7,360.5	25.8	7.8	82.39	-175.0	405.5	416.7	383.2	33.50	12.436			
7,500.0	7,492.1	7,478.1	7,459.7	26.2	7.9	83.02	-178.6	413.3	424.0	390.1	33.95	12.488			
7,600.0	7,592.1	7,577.7	7,559.0	26.5	8.0	83.63	-182.3	421.2	431.5	397.1	34.41	12.540			
7,700.0	7,692.1	7,677.3	7,658.2	26.9	8.1	84.23	-186.0	429.1	438.9	404.1	34.86	12.591			
7,800.0	7,792.1	7,776.9	7,757.5	27.2	8.2	84.80	-189.6	436.9	446.4	411.1	35.31	12.642			
7,900.0	7,892.1	7,876.5	7,856.7	27.6	8.3	85.35	-193.3	444.8	454.0	418.2	35.77	12.693			
8,000.0	7,992.1	7,976.2	7,955.9	27.9	8.5	85.89	-197.0	452.7	461.6	425.4	36.23	12.743			
8,100.0	8,092.1	8,075.8	8,055.2	28.2	8.6	86.40	-200.6	460.6	469.3	432.6	36.68	12.793			
8,200.0	8,192.1	8,175.4	8,154.4	28.6	8.7	86.90	-204.3	468.4	476.9	439.8	37.14	12.842			
8,300.0	8,292.1	8,275.0	8,253.7	28.9	8.8	87.39	-208.0	476.3	484.6	447.0	37.60	12.890			
8,400.0	8,392.1	8,374.6	8,352.9	29.3	8.9	87.86	-211.7	484.2	492.4	454.3	38.06	12.939			
8,500.0	8,492.1	8,474.2	8,452.1	29.6	9.0	88.31	-215.3	492.0	500.2	461.7	38.52	12.986			
8,600.0	8,592.1	8,573.9	8,551.4	30.0	9.1	88.75	-219.0	499.9	508.0	469.0	38.98	13.033			
8,700.0	8,692.1	8,673.5	8,650.6	30.3	9.3	89.18	-222.7	507.8	515.8	476.4	39.44	13.080			
8,800.0	8,792.1	8,773.1	8,749.9	30.7	9.4	89.60	-226.3	515.6	523.7	483.8	39.90	13.126			
8,900.0	8,892.1	8,872.7	8,849.1	31.0	9.5	90.00	-230.0	523.5	531.6	491.2	40.36	13.171			
9,000.0	8,992.1	8,972.3	8,948.4	31.4	9.6	90.39	-233.7	531.4	539.5	498.7	40.78	13.229			
9,052.9	9,045.0	9,025.0	9,000.8	31.6	9.6	90.59	-235.6	535.5	543.7	502.7	40.98	13.266			
9,100.0	9,092.1	9,071.8	9,047.5	31.7	9.6	90.55	-237.3	539.2	547.4	506.3	41.15	13.304			
9,150.0	9,141.7	9,111.5	9,087.0	31.9	9.6	90.63	-237.6	542.7	552.0	510.7	41.28	13.370			
9,200.0	9,190.5	9,150.0	9,125.2	32.1	9.6	90.68	-235.3	546.9	557.5	516.1	41.41	13.463			
9,250.0	9,238.3	9,190.5	9,165.1	32.2	9.7	90.73	-230.3	552.0	564.0	522.5	41.54	13.576			
9,300.0	9,284.5	9,230.3	9,203.6	32.4	9.7	90.73	-222.7	557.8	571.5	529.9	41.67	13.715			
9,350.0	9,329.0	9,270.1	9,241.6	32.6	9.7	90.70	-212.5	564.3	580.0	538.2	41.80	13.875			
9,400.0	9,371.3	9,310.2	9,278.9	32.7	9.7	90.64	-199.7	571.5	589.4	547.4	41.93	14.056			
9,450.0	9,411.1	9,350.0	9,314.8	32.8	9.8	90.54	-184.6	579.3	599.6	557.5	42.06	14.257			

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 POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #701H - OWB - PWP5													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8968-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)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,500.0	9,448.1	9,391.3	9,350.8	33.0	9.8	90.43		-166.3	588.1	610.7	568.5	42.19	14.474	
9,550.0	9,482.1	9,432.3	9,385.0	33.1	9.8	90.27		-145.7	597.4	622.5	580.2	42.32	14.708	
9,600.0	9,512.7	9,473.8	9,417.9	33.2	9.9	90.08		-122.5	607.3	635.0	592.6	42.46	14.956	
9,650.0	9,539.8	9,515.7	9,449.2	33.3	9.9	89.86		-96.7	617.9	648.2	605.6	42.60	15.216	
9,700.0	9,563.1	9,558.3	9,478.9	33.4	10.0	89.61		-68.3	629.2	662.0	619.2	42.75	15.485	
9,750.0	9,582.4	9,601.7	9,506.7	33.5	10.0	89.35		-37.2	641.0	676.2	633.3	42.90	15.762	
9,800.0	9,597.7	9,645.9	9,532.4	33.5	10.1	89.07		-3.5	653.5	690.9	647.8	43.07	16.043	
9,850.0	9,608.7	9,691.1	9,555.7	33.6	10.2	88.79		32.9	666.6	705.9	662.6	43.24	16.325	
9,900.0	9,615.5	9,737.4	9,576.4	33.7	10.3	88.50		72.1	680.3	721.1	677.6	43.42	16.605	
9,953.9	9,618.0	9,789.0	9,595.4	33.7	10.4	88.21		117.4	695.6	737.6	693.9	43.64	16.903	
10,000.0	9,617.9	9,835.0	9,608.7	33.8	10.5	89.31		159.2	709.4	751.7	707.9	43.83	17.148	
10,100.0	9,617.7	9,941.8	9,625.7	33.9	10.8	90.66		259.7	741.2	781.8	737.5	44.33	17.636	
10,200.0	9,617.5	10,066.8	9,626.7	34.0	11.2	90.72		379.6	776.2	809.8	764.8	44.99	18.001	
10,300.0	9,617.3	10,203.1	9,626.0	34.2	11.7	90.66		512.0	808.4	833.4	787.6	45.78	18.204	
10,400.0	9,617.1	10,342.2	9,625.4	34.3	12.4	90.61		648.6	834.9	852.3	805.6	46.68	18.258	
10,500.0	9,616.9	10,483.7	9,624.8	34.5	13.1	90.58		788.6	854.9	866.4	818.7	47.66	18.180	
10,600.0	9,616.7	10,626.8	9,624.1	34.8	13.9	90.54		931.0	868.1	875.6	826.9	48.69	17.983	
10,700.0	9,616.6	10,770.8	9,623.5	35.0	14.8	90.51		1,074.9	874.2	879.7	830.0	49.76	17.680	
10,800.0	9,616.4	10,885.2	9,622.9	35.2	15.5	90.49		1,189.3	874.7	880.0	829.3	50.70	17.355	
10,900.0	9,616.2	10,985.2	9,622.5	35.5	16.2	90.48		1,289.3	874.8	880.0	828.4	51.62	17.046	
11,000.0	9,616.0	11,085.2	9,622.0	35.8	16.8	90.46		1,389.3	874.9	880.0	827.4	52.58	16.736	
11,100.0	9,615.8	11,185.2	9,621.6	36.1	17.5	90.44		1,489.3	875.0	880.0	826.4	53.57	16.426	
11,200.0	9,615.6	11,285.2	9,621.1	36.4	18.2	90.42		1,589.3	875.1	880.0	825.4	54.60	16.117	
11,300.0	9,615.4	11,385.2	9,620.7	36.8	18.9	90.41		1,689.3	875.2	880.0	824.3	55.65	15.812	
11,400.0	9,615.3	11,485.2	9,620.2	37.2	19.7	90.39		1,789.3	875.3	880.0	823.3	56.74	15.509	
11,500.0	9,615.1	11,585.2	9,619.8	37.5	20.4	90.37		1,889.3	875.3	880.0	822.2	57.85	15.212	
11,534.1	9,615.0	11,619.4	9,619.6	37.7	20.6	90.37		1,923.5	875.4	880.0	821.8	58.23	15.112	
11,539.1	9,615.0	11,624.4	9,619.6	37.7	20.7	90.36		1,928.5	875.4	880.0	821.7	58.29	15.097	
11,600.0	9,614.9	11,686.7	9,619.3	37.9	21.1	90.35		1,990.9	875.3	880.0	821.0	58.99	14.918	
11,700.0	9,614.7	11,786.7	9,618.9	38.3	21.9	90.34		2,090.9	875.2	880.0	819.9	60.15	14.630	
11,800.0	9,614.5	11,886.7	9,618.4	38.8	22.6	90.32		2,190.9	875.2	880.0	818.7	61.34	14.348	
11,900.0	9,614.3	11,986.7	9,618.0	39.2	23.4	90.30		2,290.9	875.1	880.0	817.5	62.54	14.071	
12,000.0	9,614.1	12,086.7	9,617.5	39.6	24.2	90.29		2,390.9	875.0	880.0	816.3	63.77	13.801	
12,100.0	9,614.0	12,186.7	9,617.1	40.1	25.0	90.27		2,490.9	874.9	880.0	815.0	65.01	13.537	
12,200.0	9,613.8	12,286.7	9,616.6	40.6	25.7	90.25		2,590.9	874.8	880.0	813.8	66.27	13.279	
12,300.0	9,613.6	12,386.7	9,616.2	41.1	26.5	90.23		2,690.9	874.7	880.0	812.5	67.55	13.028	
12,400.0	9,613.4	12,486.7	9,615.7	41.6	27.3	90.22		2,790.9	874.6	880.0	811.2	68.85	12.783	
12,500.0	9,613.2	12,586.7	9,615.3	42.1	28.1	90.20		2,890.9	874.5	880.0	809.9	70.16	12.544	
12,600.0	9,613.0	12,686.7	9,614.8	42.6	28.9	90.18		2,990.9	874.5	880.0	808.6	71.48	12.311	
12,700.0	9,612.8	12,786.7	9,614.4	43.2	29.7	90.17		3,090.8	874.4	880.0	807.2	72.82	12.085	
12,800.0	9,612.7	12,886.7	9,613.9	43.7	30.5	90.15		3,190.8	874.3	880.0	805.9	74.18	11.864	
12,900.0	9,612.5	12,986.7	9,613.5	44.3	31.3	90.13		3,290.8	874.2	880.0	804.5	75.54	11.650	
13,000.0	9,612.3	13,086.7	9,613.0	44.8	32.2	90.11		3,390.8	874.1	880.0	803.1	76.92	11.441	
13,100.0	9,612.1	13,186.7	9,612.6	45.4	33.0	90.10		3,490.8	874.0	880.0	801.7	78.31	11.238	
13,200.0	9,611.9	13,286.7	9,612.1	46.0	33.8	90.08		3,590.8	873.9	880.1	800.3	79.71	11.040	
13,300.0	9,611.7	13,386.7	9,611.7	46.6	34.6	90.06		3,690.8	873.9	880.1	798.9	81.12	10.848	
13,400.0	9,611.5	13,486.7	9,611.2	47.2	35.4	90.04		3,790.8	873.8	880.1	797.5	82.55	10.661	
13,500.0	9,611.4	13,586.7	9,610.8	47.8	36.2	90.03		3,890.8	873.7	880.1	796.1	83.98	10.480	
13,600.0	9,611.2	13,686.7	9,610.3	48.4	37.1	90.01		3,990.8	873.6	880.1	794.6	85.42	10.303	
13,700.0	9,611.0	13,786.7	9,609.9	49.0	37.9	89.99		4,090.8	873.5	880.1	793.2	86.87	10.131	
13,800.0	9,610.8	13,886.7	9,609.4	49.7	38.7	89.98		4,190.8	873.4	880.1	791.7	88.33	9.964	

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 POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #701H - OWB - PWP5												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8968-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
13,900.0	9,610.6	13,986.7	9,609.0	50.3	39.5	89.96	4,290.8	873.3	880.1	790.3	89.79	9.801	
14,000.0	9,610.4	14,086.7	9,608.5	50.9	40.4	89.94	4,390.8	873.3	880.1	788.8	91.27	9.643	
14,100.0	9,610.3	14,186.7	9,608.1	51.6	41.2	89.92	4,490.8	873.2	880.1	787.3	92.75	9.489	
14,182.8	9,610.1	14,269.5	9,607.7	52.1	41.9	89.91	4,573.6	873.1	880.1	786.1	93.98	9.364	
14,200.0	9,610.1	14,292.3	9,607.6	52.2	42.1	89.91	4,596.4	873.0	880.1	785.8	94.27	9.336	
14,240.4	9,610.0	14,344.8	9,607.4	52.5	42.5	89.90	4,648.9	872.2	880.0	785.1	94.94	9.269	
14,300.0	9,609.9	14,404.5	9,607.1	52.9	43.0	89.89	4,708.6	870.9	880.0	784.2	95.83	9.183	
14,400.0	9,609.7	14,504.5	9,606.7	53.6	43.9	89.87	4,808.5	868.8	880.0	782.7	97.33	9.041	
14,500.0	9,609.5	14,604.5	9,606.3	54.3	44.7	89.85	4,908.5	866.7	880.0	781.1	98.84	8.903	
14,600.0	9,609.3	14,704.5	9,605.8	54.9	45.5	89.84	5,008.5	864.6	880.0	779.6	100.36	8.768	
14,700.0	9,609.1	14,804.5	9,605.4	55.6	46.4	89.82	5,108.5	862.5	880.0	778.1	101.88	8.637	
14,800.0	9,609.0	14,904.5	9,604.9	56.3	47.2	89.80	5,208.4	860.4	880.0	776.6	103.41	8.509	
14,900.0	9,608.8	15,004.5	9,604.5	57.0	48.0	89.79	5,308.4	858.3	880.0	775.0	104.95	8.385	
15,000.0	9,608.6	15,104.5	9,604.1	57.7	48.9	89.77	5,408.4	856.2	880.0	773.5	106.49	8.264	
15,100.0	9,608.4	15,204.5	9,603.6	58.4	49.7	89.75	5,508.4	854.1	880.0	771.9	108.03	8.145	
15,200.0	9,608.2	15,304.5	9,603.2	59.1	50.6	89.74	5,608.3	852.0	880.0	770.4	109.58	8.030	
15,300.0	9,608.0	15,404.5	9,602.8	59.8	51.4	89.72	5,708.3	849.9	880.0	768.8	111.14	7.918	
15,400.0	9,607.8	15,504.5	9,602.3	60.5	52.2	89.71	5,808.3	847.8	880.0	767.3	112.70	7.808	
15,500.0	9,607.7	15,604.5	9,601.9	61.3	53.1	89.69	5,908.3	845.7	880.0	765.7	114.26	7.702	
15,600.0	9,607.5	15,704.5	9,601.4	62.0	53.9	89.67	6,008.3	843.6	880.0	764.1	115.83	7.597	
15,700.0	9,607.3	15,804.5	9,601.0	62.7	54.8	89.66	6,108.2	841.5	880.0	762.6	117.40	7.496	
15,800.0	9,607.1	15,904.5	9,600.6	63.4	55.6	89.64	6,208.2	839.4	880.0	761.0	118.97	7.396	
15,900.0	9,606.9	16,004.5	9,600.1	64.2	56.5	89.62	6,308.2	837.3	880.0	759.4	120.55	7.299	
16,000.0	9,606.7	16,104.5	9,599.7	64.9	57.3	89.61	6,408.2	835.2	880.0	757.8	122.14	7.205	
16,100.0	9,606.5	16,204.5	9,599.3	65.6	58.2	89.59	6,508.1	833.1	880.0	756.2	123.72	7.112	
16,200.0	9,606.4	16,304.5	9,598.8	66.4	59.0	89.58	6,608.1	831.0	880.0	754.6	125.31	7.022	
16,300.0	9,606.2	16,404.5	9,598.4	67.1	59.8	89.56	6,708.1	828.9	880.0	753.0	126.91	6.934	
16,400.0	9,606.0	16,504.5	9,598.0	67.9	60.7	89.54	6,808.1	826.8	880.0	751.5	128.50	6.848	
16,500.0	9,605.8	16,604.5	9,597.5	68.6	61.5	89.53	6,908.0	824.7	880.0	749.9	130.10	6.764	
16,600.0	9,605.6	16,704.5	9,597.1	69.4	62.4	89.51	7,008.0	822.6	880.0	748.2	131.70	6.681	
16,614.0	9,605.6	16,718.5	9,597.0	69.5	62.5	89.51	7,022.0	822.3	880.0	748.0	131.93	6.670	
16,700.0	9,605.4	16,722.5	9,597.0	70.1	62.5	89.51	7,026.0	822.2	883.8	751.3	132.46	6.672	
16,800.0	9,605.2	16,722.5	9,597.0	70.9	62.5	89.51	7,026.0	822.2	898.6	766.8	131.77	6.819	
16,819.0	9,605.2	16,722.5	9,597.0	71.0	62.5	89.51	7,026.0	822.2	902.6	771.1	131.50	6.864	
16,900.0	9,605.1	16,722.5	9,597.0	71.7	62.5	89.51	7,026.0	822.2	922.9	793.1	129.85	7.108	
16,924.4	9,605.0	16,722.5	9,597.0	71.8	62.5	89.52	7,026.0	822.2	929.9	800.7	129.21	7.197	
17,000.0	9,604.9	16,722.5	9,597.0	72.4	62.5	89.52	7,026.0	822.2	954.9	828.0	126.91	7.524	
17,100.0	9,604.7	16,722.5	9,597.0	73.2	62.5	89.52	7,026.0	822.2	995.9	872.6	123.27	8.079	

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #703H - OWB - PWP2												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
0.0	0.0	1.0	1.0	3.0	3.0	-90.27	-0.1	-30.0	30.0				
100.0	100.0	101.0	101.0	3.0	3.0	-90.27	-0.1	-30.0	30.0	24.0	6.01	4.996	
200.0	200.0	201.0	201.0	3.0	3.0	-90.27	-0.1	-30.0	30.0	23.9	6.08	4.936	
300.0	300.0	301.0	301.0	3.1	3.1	-90.27	-0.1	-30.0	30.0	23.8	6.23	4.813	
400.0	400.0	401.0	401.0	3.2	3.2	-90.27	-0.1	-30.0	30.0	23.5	6.46	4.641	
500.0	500.0	501.0	501.0	3.4	3.4	-90.27	-0.1	-30.0	30.0	23.2	6.76	4.435	
600.0	600.0	601.0	601.0	3.6	3.6	-90.27	-0.1	-30.0	30.0	22.9	7.12	4.212	
700.0	700.0	701.0	701.0	3.8	3.8	-90.27	-0.1	-30.0	30.0	22.5	7.53	3.982	
800.0	800.0	801.0	801.0	4.0	4.0	-90.27	-0.1	-30.0	30.0	22.0	7.99	3.756	
900.0	900.0	901.0	901.0	4.2	4.2	-90.27	-0.1	-30.0	30.0	21.5	8.48	3.539	
1,000.0	1,000.0	1,001.0	1,001.0	4.5	4.5	-90.27	-0.1	-30.0	30.0	21.0	9.00	3.334	
1,100.0	1,100.0	1,101.0	1,101.0	4.8	4.8	-90.27	-0.1	-30.0	30.0	20.5	9.55	3.143	
1,200.0	1,200.0	1,201.0	1,201.0	5.1	5.1	-90.27	-0.1	-30.0	30.0	19.9	10.11	2.966	
1,300.0	1,300.0	1,301.0	1,301.0	5.3	5.4	-90.27	-0.1	-30.0	30.0	19.3	10.70	2.804	
1,400.0	1,400.0	1,401.0	1,401.0	5.6	5.7	-90.27	-0.1	-30.0	30.0	18.7	11.30	2.655	
1,500.0	1,500.0	1,501.0	1,501.0	6.0	6.0	-90.27	-0.1	-30.0	30.0	18.1	11.91	2.518	
1,600.0	1,600.0	1,601.0	1,601.0	6.3	6.3	-90.27	-0.1	-30.0	30.0	17.5	12.54	2.393	
1,700.0	1,700.0	1,701.0	1,701.0	6.6	6.6	-90.27	-0.1	-30.0	30.0	16.8	13.17	2.278	
1,800.0	1,800.0	1,801.0	1,801.0	6.9	6.9	-90.27	-0.1	-30.0	30.0	16.2	13.81	2.172	
1,900.0	1,900.0	1,901.0	1,901.0	7.2	7.2	-90.27	-0.1	-30.0	30.0	15.5	14.46	2.074	
2,000.0	2,000.0	2,001.0	2,001.0	7.6	7.6	-90.27	-0.1	-30.0	30.0	14.9	15.12	1.984 Advise and Monitor	
2,100.0	2,100.0	2,101.0	2,101.0	7.9	7.9	-90.27	-0.1	-30.0	30.0	14.2	15.78	1.901 Advise and Monitor	
2,200.0	2,200.0	2,201.0	2,201.0	8.2	8.2	-90.27	-0.1	-30.0	30.0	13.6	16.44	1.824 Advise and Monitor	
2,300.0	2,300.0	2,301.0	2,301.0	8.6	8.6	-90.27	-0.1	-30.0	30.0	12.9	17.11	1.753 Advise and Monitor	
2,400.0	2,400.0	2,401.0	2,401.0	8.9	8.9	-90.27	-0.1	-30.0	30.0	12.2	17.79	1.687 Advise and Monitor	
2,416.3	2,416.3	2,417.3	2,417.3	8.9	9.0	-90.27	-0.1	-30.0	30.0	12.1	17.90	1.676 Advise and Monitor, CC	
2,500.0	2,500.0	2,501.0	2,501.0	9.2	9.2	-90.27	-0.1	-30.0	30.0	11.5	18.46	1.625 Advise and Monitor, ES, SF	
2,600.0	2,600.0	2,600.0	2,600.0	9.6	9.6	89.92	-0.9	-31.6	31.6	12.5	19.10	1.652 Advise and Monitor	
2,700.0	2,699.8	2,698.8	2,698.7	9.9	9.9	94.36	-3.1	-36.3	36.3	16.6	19.70	1.844 Advise and Monitor	
2,800.0	2,799.6	2,797.9	2,797.4	10.2	10.2	97.85	-6.5	-43.7	44.0	23.7	20.31	2.168	
2,900.0	2,899.4	2,897.6	2,896.7	10.5	10.5	100.01	-10.2	-51.5	52.2	31.3	20.95	2.492	
3,000.0	2,999.1	2,997.2	2,996.0	10.8	10.8	101.58	-13.9	-59.4	60.4	38.8	21.59	2.799	
3,100.0	3,098.9	3,096.9	3,095.2	11.1	11.2	102.77	-17.5	-67.3	68.7	46.5	22.23	3.090	
3,200.0	3,198.6	3,196.5	3,194.5	11.4	11.5	103.71	-21.2	-75.2	77.0	54.1	22.89	3.364	
3,300.0	3,298.4	3,296.2	3,293.8	11.8	11.8	104.46	-24.9	-83.0	85.3	61.7	23.54	3.623	
3,400.0	3,398.1	3,395.8	3,393.1	12.1	12.2	105.08	-28.5	-90.9	93.6	69.4	24.20	3.868	
3,500.0	3,497.9	3,495.5	3,492.3	12.4	12.5	105.60	-32.2	-98.8	101.9	77.1	24.86	4.100	
3,600.0	3,597.6	3,595.1	3,591.6	12.8	12.8	106.04	-35.9	-106.6	110.3	84.7	25.53	4.319	
3,700.0	3,697.4	3,694.8	3,690.9	13.1	13.2	106.42	-39.5	-114.5	118.6	92.4	26.20	4.527	
3,800.0	3,797.2	3,794.4	3,790.1	13.4	13.5	106.75	-43.2	-122.4	126.9	100.1	26.87	4.724	
3,900.0	3,896.9	3,894.1	3,889.4	13.8	13.9	107.04	-46.9	-130.3	135.3	107.7	27.55	4.911	
4,000.0	3,996.7	3,993.7	3,988.7	14.1	14.2	107.29	-50.6	-138.1	143.6	115.4	28.22	5.089	
4,100.0	4,096.4	4,093.4	4,087.9	14.4	14.5	107.52	-54.2	-146.0	152.0	123.1	28.91	5.258	
4,200.0	4,196.2	4,193.0	4,187.2	14.8	14.9	107.72	-57.9	-153.9	160.3	130.8	29.59	5.419	
4,300.0	4,295.9	4,292.7	4,286.5	15.1	15.2	107.91	-61.6	-161.7	168.7	138.4	30.27	5.573	
4,400.0	4,395.7	4,392.3	4,385.8	15.4	15.6	108.07	-65.2	-169.6	177.1	146.1	30.96	5.719	
4,500.0	4,495.5	4,492.0	4,485.0	15.8	15.9	108.22	-68.9	-177.5	185.4	153.8	31.65	5.859	
4,600.0	4,595.2	4,591.6	4,584.3	16.1	16.3	108.36	-72.6	-185.3	193.8	161.4	32.34	5.992	
4,700.0	4,695.0	4,691.3	4,683.6	16.5	16.6	108.49	-76.3	-193.2	202.1	169.1	33.03	6.120	
4,800.0	4,794.7	4,790.9	4,782.8	16.8	17.0	108.60	-79.9	-201.1	210.5	176.8	33.72	6.242	
4,900.0	4,894.5	4,890.6	4,882.1	17.2	17.3	108.71	-83.6	-209.0	218.9	184.4	34.42	6.359	

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 POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #703H - OWB - PWP2													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		
5,000.0	4,994.2	4,990.2	4,981.4	17.5	17.7	108.81	-87.3	-216.8	227.2	192.1	35.11	6.471		
5,100.0	5,094.0	5,089.9	5,080.6	17.9	18.0	108.90	-90.9	-224.7	235.6	199.8	35.81	6.579		
5,200.0	5,193.7	5,189.5	5,179.9	18.2	18.4	108.99	-94.6	-232.6	243.9	207.4	36.51	6.682		
5,300.0	5,293.5	5,289.2	5,279.2	18.6	18.7	109.07	-98.3	-240.4	252.3	215.1	37.21	6.781		
5,400.0	5,393.3	5,388.8	5,378.5	18.9	19.1	109.15	-101.9	-248.3	260.7	222.8	37.91	6.876		
5,500.0	5,493.0	5,488.5	5,477.7	19.3	19.4	109.22	-105.6	-256.2	269.0	230.4	38.61	6.968		
5,600.0	5,592.8	5,588.1	5,577.0	19.6	19.8	109.28	-109.3	-264.1	277.4	238.1	39.31	7.056		
5,700.0	5,692.5	5,687.8	5,676.3	20.0	20.1	109.35	-113.0	-271.9	285.8	245.8	40.02	7.141		
5,798.4	5,790.7	5,785.8	5,773.9	20.3	20.5	109.40	-116.6	-279.7	294.0	253.3	40.71	7.222		
5,800.0	5,792.3	5,787.4	5,775.5	20.3	20.5	109.41	-116.6	-279.8	294.1	253.4	40.72	7.223		
5,900.0	5,892.1	5,887.1	5,874.8	20.7	20.8	109.29	-120.3	-287.7	301.9	260.5	41.42	7.288		
5,998.4	5,990.5	5,985.1	5,972.5	21.0	21.2	-69.84	-123.9	-295.4	308.5	266.4	42.11	7.325		
6,000.0	5,992.1	5,986.8	5,974.1	21.0	21.2	-69.86	-124.0	-295.6	308.6	266.4	42.12	7.326		
6,100.0	6,092.1	6,086.4	6,073.4	21.3	21.5	-70.98	-127.6	-303.4	314.8	272.0	42.81	7.353		
6,200.0	6,192.1	6,186.0	6,172.6	21.7	21.9	-72.06	-131.3	-311.3	321.1	277.6	43.51	7.381		
6,300.0	6,292.1	6,285.6	6,271.8	22.0	22.3	-73.10	-135.0	-319.2	327.6	283.4	44.20	7.411		
6,400.0	6,392.1	6,385.2	6,371.1	22.4	22.6	-74.10	-138.6	-327.0	334.1	289.2	44.89	7.442		
6,500.0	6,492.1	6,484.9	6,470.3	22.7	23.0	-75.05	-142.3	-334.9	340.8	295.2	45.59	7.474		
6,600.0	6,592.1	6,584.5	6,569.6	23.1	23.3	-75.98	-146.0	-342.8	347.5	301.2	46.29	7.508		
6,700.0	6,692.1	6,684.1	6,668.8	23.4	23.7	-76.86	-149.7	-350.6	354.3	307.3	46.98	7.541		
6,800.0	6,792.1	6,783.7	6,768.0	23.7	24.0	-77.71	-153.3	-358.5	361.2	313.5	47.68	7.576		
6,900.0	6,892.1	6,883.3	6,867.3	24.1	24.4	-78.54	-157.0	-366.4	368.2	319.8	48.38	7.611		
7,000.0	6,992.1	6,982.9	6,966.5	24.4	24.8	-79.32	-160.7	-374.2	375.3	326.2	49.08	7.646		
7,100.0	7,092.1	7,082.6	7,065.8	24.8	25.1	-80.09	-164.3	-382.1	382.4	332.6	49.78	7.682		
7,200.0	7,192.1	7,182.2	7,165.0	25.1	25.5	-80.82	-168.0	-390.0	389.6	339.1	50.48	7.718		
7,300.0	7,292.1	7,281.8	7,264.2	25.5	25.8	-81.52	-171.7	-397.8	396.8	345.6	51.18	7.754		
7,400.0	7,392.1	7,381.4	7,363.5	25.8	26.2	-82.21	-175.3	-405.7	404.1	352.2	51.88	7.790		
7,500.0	7,492.1	7,481.0	7,462.7	26.2	26.5	-82.86	-179.0	-413.6	411.5	358.9	52.58	7.826		
7,600.0	7,592.1	7,580.7	7,562.0	26.5	26.9	-83.50	-182.7	-421.5	418.9	365.6	53.29	7.862		
7,700.0	7,692.1	7,680.3	7,661.2	26.9	27.3	-84.11	-186.3	-429.3	426.4	372.4	53.99	7.897		
7,800.0	7,792.1	7,779.9	7,760.4	27.2	27.6	-84.70	-190.0	-437.2	433.9	379.2	54.69	7.933		
7,900.0	7,892.1	7,879.5	7,859.7	27.6	28.0	-85.27	-193.7	-445.1	441.4	386.0	55.40	7.969		
8,000.0	7,992.1	7,979.1	7,958.9	27.9	28.3	-85.82	-197.4	-452.9	449.0	392.9	56.10	8.004		
8,100.0	8,092.1	8,078.8	8,058.2	28.2	28.7	-86.35	-201.0	-460.8	456.7	399.9	56.80	8.039		
8,200.0	8,192.1	8,178.4	8,157.4	28.6	29.1	-86.87	-204.7	-468.7	464.3	406.8	57.51	8.074		
8,300.0	8,292.1	8,278.0	8,256.6	28.9	29.4	-87.36	-208.4	-476.5	472.0	413.8	58.21	8.109		
8,400.0	8,392.1	8,377.6	8,355.9	29.3	29.8	-87.85	-212.0	-484.4	479.8	420.9	58.92	8.143		
8,500.0	8,492.1	8,477.2	8,455.1	29.6	30.1	-88.31	-215.7	-492.3	487.6	427.9	59.63	8.177		
8,600.0	8,592.1	8,576.9	8,554.4	30.0	30.5	-88.77	-219.4	-500.1	495.4	435.0	60.33	8.211		
8,700.0	8,692.1	8,676.5	8,653.6	30.3	30.8	-89.21	-223.0	-508.0	503.2	442.2	61.04	8.244		
8,800.0	8,792.1	8,776.1	8,752.9	30.7	31.2	-89.63	-226.7	-515.9	511.1	449.3	61.75	8.277		
8,900.0	8,892.1	8,875.7	8,852.1	31.0	31.6	-90.04	-230.4	-523.8	519.0	456.5	62.45	8.310		
9,000.0	8,992.1	8,975.3	8,951.3	31.4	31.9	-90.44	-234.0	-531.6	526.9	463.7	63.16	8.342		
9,052.9	9,045.0	9,028.0	9,003.8	31.6	32.1	-90.65	-236.0	-535.8	531.1	467.6	63.54	8.359		
9,100.0	9,092.1	9,073.0	9,048.6	31.7	32.3	-90.68	-237.6	-539.3	534.9	471.0	63.85	8.377		
9,150.0	9,141.7	9,112.3	9,087.8	31.9	32.4	-90.69	-237.3	-543.0	539.6	475.5	64.11	8.417		
9,200.0	9,190.5	9,150.0	9,125.1	32.1	32.6	-90.65	-234.6	-547.2	545.4	481.1	64.33	8.478		
9,250.0	9,238.3	9,191.2	9,165.6	32.2	32.7	-90.65	-228.9	-552.7	552.2	487.6	64.58	8.551		
9,300.0	9,284.5	9,230.8	9,203.9	32.4	32.8	-90.58	-220.9	-558.6	560.0	495.2	64.80	8.641		
9,350.0	9,329.0	9,270.6	9,241.5	32.6	33.0	-90.49	-210.2	-565.4	568.7	503.7	65.03	8.745		
9,400.0	9,371.3	9,310.4	9,278.4	32.7	33.1	-90.37	-197.0	-572.8	578.3	513.1	65.26	8.862		

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 POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #703H - OWB - PWP2													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	
9,450.0	9,411.1	9,350.0	9,313.9	32.8	33.2	-90.20	-181.5	-580.8	588.9	523.4	65.49	8.992		
9,500.0	9,448.1	9,390.9	9,349.2	33.0	33.3	-90.03	-163.1	-589.8	600.2	534.5	65.74	9.130		
9,550.0	9,482.1	9,431.5	9,382.8	33.1	33.4	-89.82	-142.3	-599.3	612.3	546.3	65.99	9.279		
9,600.0	9,512.7	9,472.5	9,415.1	33.2	33.5	-89.57	-119.1	-609.4	625.1	558.9	66.25	9.436		
9,650.0	9,539.8	9,514.0	9,445.7	33.3	33.6	-89.30	-93.3	-620.2	638.6	572.1	66.51	9.601		
9,700.0	9,563.1	9,556.0	9,474.7	33.4	33.7	-89.01	-65.1	-631.6	652.6	585.8	66.77	9.774		
9,750.0	9,582.4	9,598.7	9,501.7	33.5	33.8	-88.70	-34.3	-643.6	667.1	600.1	67.02	9.954		
9,800.0	9,597.7	9,642.1	9,526.7	33.5	33.9	-88.38	-1.1	-656.2	682.0	614.8	67.25	10.141		
9,850.0	9,608.7	9,686.5	9,549.3	33.6	33.9	-88.05	34.7	-669.4	697.2	629.8	67.46	10.335		
9,900.0	9,615.5	9,731.9	9,569.4	33.7	34.0	-87.73	73.1	-683.1	712.7	645.0	67.64	10.535		
9,953.9	9,618.0	9,782.4	9,587.8	33.7	34.1	-87.39	117.4	-698.6	729.4	661.6	67.80	10.758		
10,000.0	9,617.9	9,827.3	9,600.8	33.8	34.2	-88.50	158.1	-712.4	743.8	675.9	67.91	10.953		
10,100.0	9,617.7	9,931.5	9,617.6	33.9	34.3	-89.88	255.8	-744.2	774.7	706.6	68.14	11.370		
10,200.0	9,617.5	10,055.1	9,619.2	34.0	34.5	-90.02	374.1	-779.9	803.7	735.3	68.43	11.746		
10,300.0	9,617.3	10,190.6	9,619.5	34.2	34.7	-90.06	505.4	-813.2	828.4	759.6	68.78	12.044		
10,400.0	9,617.1	10,329.2	9,619.8	34.3	34.9	-90.09	641.2	-840.8	848.4	779.2	69.20	12.261		
10,500.0	9,616.9	10,470.1	9,620.1	34.5	35.2	-90.13	780.5	-862.1	863.6	794.0	69.66	12.398		
10,600.0	9,616.7	10,612.9	9,620.4	34.8	35.5	-90.16	922.5	-876.7	873.9	803.8	70.17	12.455		
10,700.0	9,616.6	10,756.8	9,620.7	35.0	35.9	-90.20	1,066.2	-884.2	879.2	808.5	70.71	12.434		
10,800.0	9,616.4	10,881.5	9,621.0	35.2	36.2	-90.23	1,190.8	-885.2	880.0	808.8	71.26	12.350		
10,900.0	9,616.2	10,981.5	9,621.2	35.5	36.5	-90.26	1,290.8	-885.1	880.0	808.2	71.81	12.256		
11,000.0	9,616.0	11,081.5	9,621.4	35.8	36.7	-90.29	1,390.8	-885.1	880.0	807.6	72.39	12.157		
11,100.0	9,615.8	11,181.5	9,621.6	36.1	37.1	-90.31	1,490.8	-885.0	880.0	807.0	73.01	12.053		
11,200.0	9,615.6	11,281.5	9,621.8	36.4	37.4	-90.34	1,590.8	-884.9	880.0	806.3	73.66	11.946		
11,300.0	9,615.4	11,381.4	9,622.0	36.8	37.7	-90.36	1,690.8	-884.8	880.0	805.7	74.35	11.836		
11,400.0	9,615.3	11,481.4	9,622.2	37.2	38.1	-90.39	1,790.8	-884.7	880.0	804.9	75.07	11.722		
11,500.0	9,615.1	11,581.4	9,622.4	37.5	38.5	-90.41	1,890.8	-884.6	880.0	804.2	75.83	11.605		
11,501.8	9,615.1	11,583.2	9,622.4	37.5	38.5	-90.42	1,892.6	-884.6	880.0	804.2	75.84	11.603		
11,534.1	9,615.0	11,614.5	9,622.5	37.7	38.6	-90.42	1,923.9	-884.6	880.0	803.9	76.09	11.566		
11,539.1	9,615.0	11,619.0	9,622.5	37.7	38.6	-90.42	1,928.3	-884.6	880.0	803.9	76.12	11.560		
11,600.0	9,614.9	11,679.9	9,622.6	37.9	38.9	-90.44	1,989.3	-884.7	880.0	803.4	76.61	11.488		
11,700.0	9,614.7	11,779.9	9,622.9	38.3	39.3	-90.47	2,089.3	-884.8	880.0	802.6	77.42	11.367		
11,800.0	9,614.5	11,879.9	9,623.1	38.8	39.7	-90.49	2,189.3	-884.9	880.0	801.8	78.26	11.244		
11,900.0	9,614.3	11,979.9	9,623.3	39.2	40.1	-90.52	2,289.2	-885.0	880.0	800.9	79.14	11.120		
12,000.0	9,614.1	12,079.9	9,623.5	39.6	40.6	-90.54	2,389.2	-885.0	880.1	800.0	80.04	10.996		
12,100.0	9,614.0	12,179.9	9,623.7	40.1	41.0	-90.57	2,489.2	-885.1	880.1	799.1	80.96	10.870		
12,200.0	9,613.8	12,279.9	9,623.9	40.6	41.5	-90.59	2,589.2	-885.2	880.1	798.2	81.91	10.744		
12,300.0	9,613.6	12,379.9	9,624.1	41.1	42.0	-90.62	2,689.2	-885.3	880.1	797.2	82.89	10.617		
12,400.0	9,613.4	12,479.9	9,624.3	41.6	42.5	-90.65	2,789.2	-885.4	880.1	796.2	83.89	10.491		
12,500.0	9,613.2	12,579.9	9,624.5	42.1	43.0	-90.67	2,889.2	-885.5	880.1	795.2	84.91	10.364		
12,600.0	9,613.0	12,679.9	9,624.7	42.6	43.5	-90.70	2,989.2	-885.6	880.1	794.1	85.96	10.239		
12,700.0	9,612.8	12,779.9	9,624.9	43.2	44.0	-90.72	3,089.2	-885.7	880.1	793.1	87.03	10.113		
12,800.0	9,612.7	12,879.9	9,625.1	43.7	44.6	-90.75	3,189.2	-885.8	880.1	792.0	88.11	9.989		
12,900.0	9,612.5	12,979.9	9,625.3	44.3	45.1	-90.77	3,289.2	-885.9	880.1	790.9	89.22	9.865		
13,000.0	9,612.3	13,079.9	9,625.6	44.8	45.7	-90.80	3,389.2	-886.0	880.1	789.8	90.34	9.742		
13,100.0	9,612.1	13,179.9	9,625.8	45.4	46.3	-90.82	3,489.2	-886.1	880.1	788.6	91.49	9.620		
13,200.0	9,611.9	13,279.9	9,626.0	46.0	46.9	-90.85	3,589.2	-886.2	880.1	787.5	92.65	9.500		
13,300.0	9,611.7	13,379.9	9,626.2	46.6	47.4	-90.88	3,689.2	-886.2	880.2	786.3	93.83	9.380		
13,400.0	9,611.5	13,479.9	9,626.4	47.2	48.0	-90.90	3,789.2	-886.3	880.2	785.1	95.02	9.262		
13,500.0	9,611.4	13,579.9	9,626.6	47.8	48.6	-90.93	3,889.2	-886.4	880.2	783.9	96.24	9.146		
13,600.0	9,611.2	13,679.9	9,626.8	48.4	49.2	-90.95	3,989.2	-886.5	880.2	782.7	97.46	9.031		

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 POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #703H - OWB - PWP2												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	
13,700.0	9,611.0	13,779.9	9,627.0	49.0	49.9	-90.98	4,089.2	-886.6	880.2	781.5	98.70	8.918	
13,800.0	9,610.8	13,879.9	9,627.2	49.7	50.5	-91.00	4,189.2	-886.7	880.2	780.2	99.96	8.806	
13,900.0	9,610.6	13,979.9	9,627.4	50.3	51.1	-91.03	4,289.2	-886.8	880.2	779.0	101.23	8.695	
14,000.0	9,610.4	14,079.9	9,627.6	50.9	51.8	-91.05	4,389.2	-886.9	880.2	777.7	102.51	8.587	
14,100.0	9,610.3	14,179.9	9,627.8	51.6	52.4	-91.08	4,489.2	-887.0	880.2	776.4	103.80	8.480	
14,106.7	9,610.2	14,186.5	9,627.9	51.6	52.5	-91.08	4,495.9	-887.0	880.2	776.3	103.89	8.473	
14,182.8	9,610.1	14,258.0	9,628.0	52.1	52.9	-91.10	4,567.4	-887.1	880.3	775.4	104.86	8.394	
14,200.0	9,610.1	14,274.7	9,628.0	52.2	53.0	-91.10	4,584.1	-887.1	880.3	775.2	105.09	8.377	
14,240.4	9,610.0	14,305.6	9,628.1	52.5	53.2	-91.11	4,615.0	-887.5	880.2	774.6	105.57	8.337	
14,253.2	9,610.0	14,315.5	9,628.1	52.6	53.3	-91.12	4,624.9	-887.7	880.2	774.4	105.73	8.325	
14,300.0	9,609.9	14,362.2	9,628.2	52.9	53.6	-91.13	4,671.5	-888.7	880.2	773.8	106.35	8.277	
14,400.0	9,609.7	14,462.2	9,628.4	53.6	54.3	-91.15	4,771.5	-890.8	880.2	772.5	107.68	8.174	
14,500.0	9,609.5	14,562.2	9,628.6	54.3	54.9	-91.18	4,871.5	-892.9	880.2	771.2	109.02	8.074	
14,600.0	9,609.3	14,662.2	9,628.8	54.9	55.6	-91.20	4,971.5	-895.0	880.2	769.8	110.37	7.975	
14,700.0	9,609.1	14,762.2	9,629.0	55.6	56.3	-91.23	5,071.5	-897.1	880.2	768.5	111.74	7.877	
14,800.0	9,609.0	14,862.2	9,629.2	56.3	57.0	-91.26	5,171.4	-899.2	880.2	767.1	113.11	7.782	
14,900.0	9,608.8	14,962.2	9,629.4	57.0	57.7	-91.28	5,271.4	-901.3	880.2	765.7	114.49	7.688	
15,000.0	9,608.6	15,062.2	9,629.7	57.7	58.4	-91.31	5,371.4	-903.4	880.2	764.3	115.89	7.596	
15,100.0	9,608.4	15,162.2	9,629.9	58.4	59.1	-91.33	5,471.4	-905.5	880.2	763.0	117.29	7.505	
15,200.0	9,608.2	15,262.2	9,630.1	59.1	59.8	-91.36	5,571.3	-907.6	880.2	761.6	118.70	7.416	
15,300.0	9,608.0	15,362.2	9,630.3	59.8	60.5	-91.38	5,671.3	-909.7	880.3	760.1	120.11	7.329	
15,400.0	9,607.8	15,462.2	9,630.5	60.5	61.2	-91.41	5,771.3	-911.8	880.3	758.7	121.54	7.243	
15,500.0	9,607.7	15,562.2	9,630.7	61.3	61.9	-91.43	5,871.3	-913.9	880.3	757.3	122.97	7.158	
15,600.0	9,607.5	15,662.2	9,630.9	62.0	62.6	-91.46	5,971.2	-916.0	880.3	755.9	124.41	7.076	
15,700.0	9,607.3	15,762.2	9,631.1	62.7	63.3	-91.49	6,071.2	-918.1	880.3	754.4	125.86	6.994	
15,800.0	9,607.1	15,862.2	9,631.3	63.4	64.1	-91.51	6,171.2	-920.2	880.3	753.0	127.31	6.915	
15,900.0	9,606.9	15,962.2	9,631.5	64.2	64.8	-91.54	6,271.2	-922.3	880.3	751.5	128.77	6.836	
16,000.0	9,606.7	16,062.2	9,631.7	64.9	65.5	-91.56	6,371.2	-924.4	880.3	750.1	130.24	6.759	
16,100.0	9,606.5	16,162.2	9,631.9	65.6	66.3	-91.59	6,471.1	-926.5	880.3	748.6	131.71	6.684	
16,200.0	9,606.4	16,262.2	9,632.1	66.4	67.0	-91.61	6,571.1	-928.6	880.3	747.2	133.19	6.610	
16,300.0	9,606.2	16,362.2	9,632.3	67.1	67.7	-91.64	6,671.1	-930.7	880.4	745.7	134.67	6.537	
16,400.0	9,606.0	16,462.2	9,632.5	67.9	68.5	-91.66	6,771.1	-932.8	880.4	744.2	136.16	6.465	
16,500.0	9,605.8	16,562.2	9,632.7	68.6	69.2	-91.69	6,871.0	-934.9	880.4	742.7	137.66	6.395	
16,600.0	9,605.6	16,662.2	9,632.9	69.4	70.0	-91.71	6,971.0	-937.0	880.4	741.2	139.16	6.326	
16,700.0	9,605.4	16,762.2	9,633.2	70.1	70.7	-91.74	7,071.0	-939.1	880.4	739.7	140.67	6.259	
16,800.0	9,605.2	16,862.2	9,633.4	70.9	71.5	-91.77	7,171.0	-941.2	880.4	738.2	142.18	6.192	
16,819.0	9,605.2	16,881.2	9,633.4	71.0	71.6	-91.77	7,190.0	-941.6	880.4	738.0	142.46	6.180	
16,900.0	9,605.1	16,994.6	9,633.6	71.7	72.5	-91.80	7,303.3	-941.8	880.0	736.2	143.81	6.119	
16,924.1	9,605.0	17,018.6	9,633.7	71.8	72.7	-91.80	7,327.4	-941.4	879.9	735.7	144.17	6.103	
16,924.4	9,605.0	17,019.0	9,633.7	71.8	72.7	-91.80	7,327.8	-941.4	879.9	735.7	144.18	6.103	
17,000.0	9,604.9	17,094.6	9,633.8	72.4	73.2	-91.82	7,403.3	-940.2	879.9	734.6	145.32	6.055	
17,100.0	9,604.7	17,194.6	9,634.0	73.2	74.0	-91.85	7,503.3	-938.6	879.9	733.1	146.84	5.992	
17,200.0	9,604.5	17,294.6	9,634.3	73.9	74.8	-91.87	7,603.3	-937.0	879.9	731.6	148.36	5.931	
17,300.0	9,604.3	17,394.6	9,634.5	74.7	75.5	-91.90	7,703.3	-935.4	879.9	730.1	149.88	5.871	
17,400.0	9,604.1	17,494.6	9,634.7	75.5	76.3	-91.92	7,803.3	-933.9	879.9	728.5	151.41	5.812	
17,500.0	9,604.0	17,594.6	9,634.9	76.2	77.0	-91.95	7,903.3	-932.3	880.0	727.0	152.95	5.753	
17,600.0	9,603.8	17,694.6	9,635.1	77.0	77.8	-91.97	8,003.2	-930.7	880.0	725.5	154.48	5.696	
17,700.0	9,603.6	17,794.6	9,635.3	77.8	78.6	-92.00	8,103.2	-929.1	880.0	724.0	156.02	5.640	
17,800.0	9,603.4	17,894.6	9,635.5	78.6	79.4	-92.02	8,203.2	-927.5	880.0	722.4	157.57	5.585	
17,900.0	9,603.2	17,994.6	9,635.7	79.3	80.1	-92.05	8,303.2	-926.0	880.0	720.9	159.12	5.531	
18,000.0	9,603.0	18,094.6	9,635.9	80.1	80.9	-92.08	8,403.2	-924.4	880.0	719.4	160.67	5.477	

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 POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #703H - OWB - PWP2													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		
18,100.0	9,602.9	18,194.6	9,636.1	80.9	81.7	-92.10	8,503.2	-922.8	880.0	717.8	162.22	5.425		
18,200.0	9,602.7	18,294.6	9,636.3	81.7	82.4	-92.13	8,603.2	-921.2	880.1	716.3	163.78	5.373		
18,300.0	9,602.5	18,394.6	9,636.5	82.5	83.2	-92.15	8,703.1	-919.6	880.1	714.7	165.34	5.323		
18,400.0	9,602.3	18,494.6	9,636.7	83.2	84.0	-92.18	8,803.1	-918.1	880.1	713.2	166.90	5.273		
18,500.0	9,602.1	18,594.6	9,636.9	84.0	84.8	-92.20	8,903.1	-916.5	880.1	711.6	168.47	5.224		
18,600.0	9,601.9	18,694.6	9,637.1	84.8	85.6	-92.23	9,003.1	-914.9	880.1	710.1	170.04	5.176		
18,700.0	9,601.8	18,794.6	9,637.4	85.6	86.4	-92.25	9,103.1	-913.3	880.1	708.5	171.61	5.129		
18,800.0	9,601.6	18,894.6	9,637.6	86.4	87.1	-92.28	9,203.1	-911.7	880.1	707.0	173.18	5.082		
18,900.0	9,601.4	18,994.6	9,637.8	87.2	87.9	-92.30	9,303.1	-910.2	880.2	705.4	174.76	5.036		
19,000.0	9,601.2	19,094.6	9,638.0	88.0	88.7	-92.33	9,403.1	-908.6	880.2	703.8	176.34	4.991		
19,100.0	9,601.0	19,194.5	9,638.2	88.8	89.5	-92.35	9,503.0	-907.0	880.2	702.3	177.92	4.947		
19,200.0	9,600.8	19,294.5	9,638.4	89.6	90.3	-92.38	9,603.0	-905.4	880.2	700.7	179.51	4.903		
19,220.9	9,600.8	19,312.2	9,638.4	89.7	90.4	-92.38	9,620.7	-905.2	880.2	700.4	179.83	4.895		
19,264.3	9,600.7	19,345.5	9,638.5	90.1	90.7	-92.39	9,653.9	-904.9	880.3	699.8	180.49	4.877		
19,300.0	9,600.7	19,381.2	9,638.6	90.4	91.0	-92.40	9,689.7	-904.9	880.3	699.3	181.05	4.862		
19,400.0	9,600.5	19,481.2	9,638.8	91.2	91.8	-92.43	9,789.7	-904.9	880.4	697.7	182.65	4.820		
19,500.0	9,600.3	19,581.2	9,639.0	92.0	92.6	-92.45	9,889.7	-904.8	880.4	696.1	184.24	4.778		
19,600.0	9,600.1	19,681.2	9,639.2	92.8	93.4	-92.48	9,989.7	-904.7	880.4	694.6	185.84	4.737		
19,700.0	9,599.9	19,781.2	9,639.4	93.6	94.2	-92.51	10,089.7	-904.7	880.4	693.0	187.44	4.697		
19,800.0	9,599.7	19,881.2	9,639.6	94.4	95.0	-92.53	10,189.7	-904.6	880.4	691.4	189.04	4.657		
19,900.0	9,599.5	19,981.2	9,639.8	95.2	95.8	-92.56	10,289.7	-904.6	880.5	689.8	190.64	4.618		
20,000.0	9,599.4	20,081.2	9,640.0	96.0	96.6	-92.58	10,389.7	-904.5	880.5	688.2	192.25	4.580		
20,100.0	9,599.2	20,181.2	9,640.2	96.8	97.4	-92.61	10,489.7	-904.4	880.5	686.7	193.85	4.542		
20,200.0	9,599.0	20,281.2	9,640.5	97.6	98.2	-92.63	10,589.7	-904.4	880.5	685.1	195.46	4.505		
20,300.0	9,598.8	20,381.2	9,640.7	98.4	99.0	-92.66	10,689.7	-904.3	880.6	683.5	197.07	4.468		
20,400.0	9,598.6	20,481.2	9,640.9	99.2	99.8	-92.69	10,789.7	-904.2	880.6	681.9	198.68	4.432		
20,500.0	9,598.4	20,581.2	9,641.1	100.0	100.6	-92.71	10,889.6	-904.2	880.6	680.3	200.30	4.396		
20,600.0	9,598.2	20,681.2	9,641.3	100.8	101.4	-92.74	10,989.6	-904.1	880.6	678.7	201.91	4.361		
20,700.0	9,598.1	20,781.2	9,641.5	101.6	102.2	-92.76	11,089.6	-904.1	880.6	677.1	203.53	4.327		
20,730.4	9,598.0	20,811.6	9,641.6	101.9	102.5	-92.77	11,120.1	-904.0	880.7	676.6	204.02	4.316		

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Reference Depths are relative to *KB=30' @ 3104.0usft (TBD)

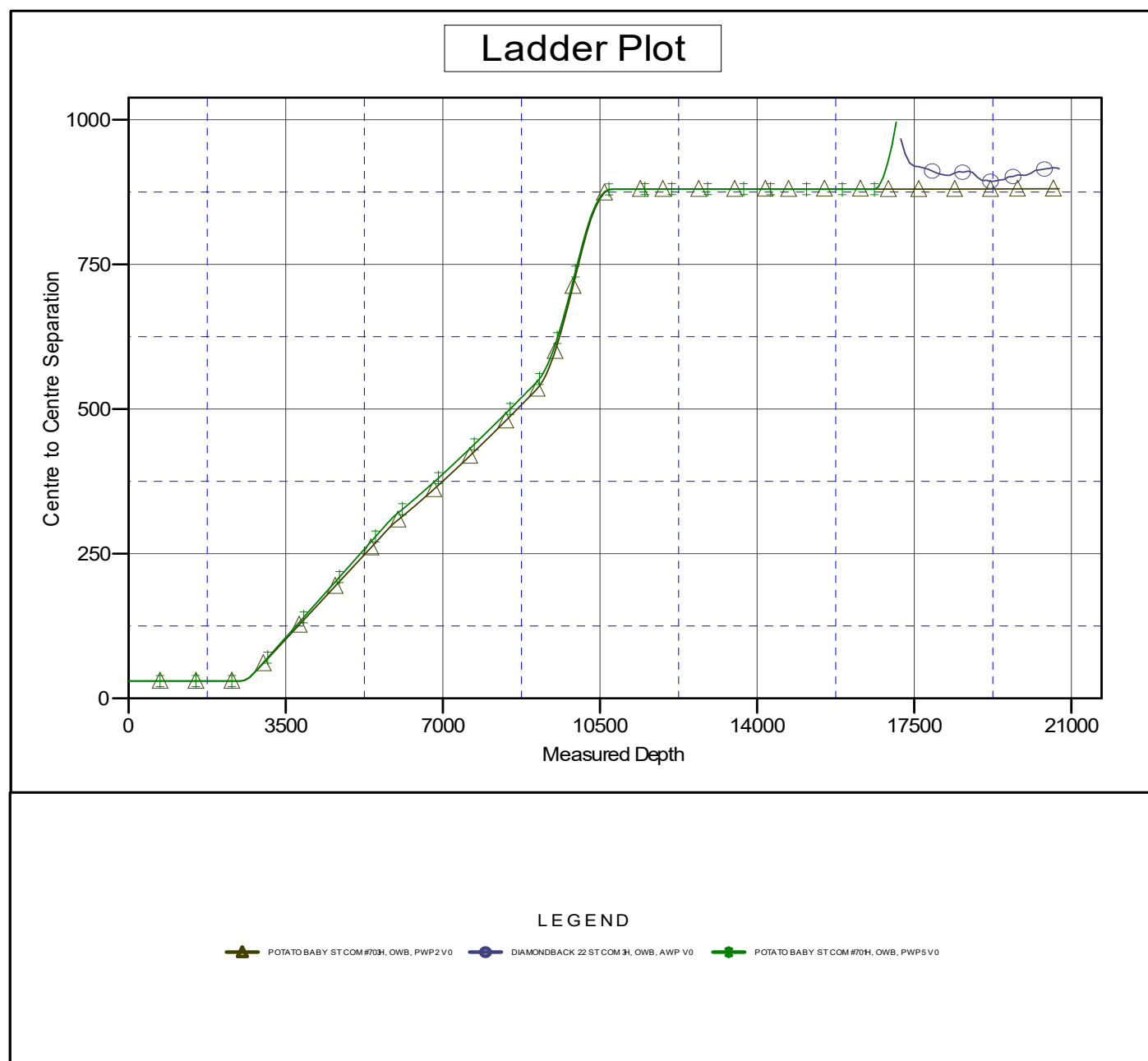
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: POTATO BABY ST COM #702H

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

Grid Convergence at Surface is: 0.14°



Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Reference Depths are relative to *KB=30' @ 3104.0usft (TBD)

Offset Depths are relative to Offset Datum

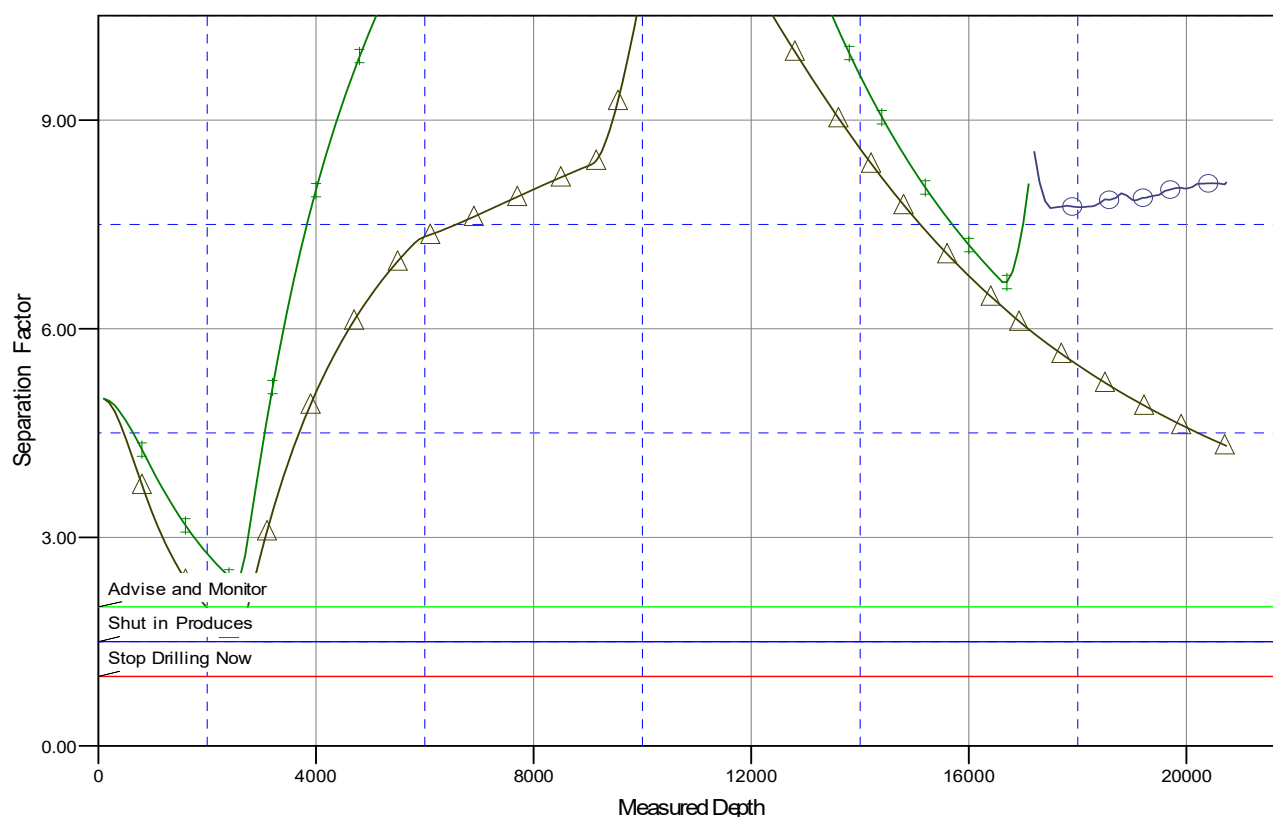
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: POTATO BABY ST COM #702H

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

Grid Convergence at Surface is: 0.14°

Separation Factor Plot



LEGEND

POTATO BABY ST COM #703H, OWB, PWP2 V0
 DIAMONDBACK 22 ST COM 31, OWB, AWP V0
 POTATO BABY ST COM #701H, OWB, PWP5 V0

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

POTATO BABY STATE PROJECT (ATLAS 2628)

POTATO BABY ST COM #702H

OWB

PWP5

Anticollision Report

10 September, 2020

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Reference	PWP5		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum ellipse separation of 1,000.0 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	9/10/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	20,730.4	PWP5 (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						
POTATO BABY STATE PROJECT (ATLAS 2628)						
DIAMONDBACK 22 ST COM 3H - OWB - AWP	17,500.0	14,102.6	920.0	801.0	7.735	SF
DIAMONDBACK 22 ST COM 3H - OWB - AWP	19,229.5	12,379.4	893.4	780.1	7.882	CC, ES
DIAMONDBACK 22 STATE COM #5H - OWB - ACTUAL						Out of range
POTATO BABY ST COM #701H - OWB - PWP5	2,500.0	2,499.0	30.0	17.3	2.366	CC, ES, SF
POTATO BABY ST COM #703H - OWB - PWP2	2,416.3	2,417.3	30.0	12.1	1.676	Advise and Monitor, CC
POTATO BABY ST COM #703H - OWB - PWP2	2,500.0	2,501.0	30.0	11.5	1.625	Advise and Monitor, ES, S

POTATO BABY STATE PROJECT (ATLAS 2628) - DIAMONDBACK 22 ST COM 3H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 9818-MWD												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
17,200.0	9,604.5	14,116.0	10,360.1	73.9	66.6	143.56	7,879.0	493.5	966.8	853.6	113.15	8.544	
17,300.0	9,604.3	14,116.0	10,360.1	74.7	66.6	143.56	7,879.0	493.5	940.9	824.8	116.05	8.107	
17,400.0	9,604.1	14,116.0	10,360.1	75.5	66.6	143.56	7,879.0	493.5	925.1	807.1	118.08	7.835	
17,500.0	9,604.0	14,102.6	10,359.9	76.2	66.4	143.55	7,892.5	493.7	920.0	801.0	118.94	7.735	SF
17,600.0	9,603.8	14,001.3	10,358.3	77.0	64.7	143.50	7,993.8	495.2	918.8	800.1	118.64	7.744	
17,700.0	9,603.6	13,892.0	10,356.4	77.8	62.9	143.50	8,103.0	495.8	916.9	798.7	118.24	7.755	
17,800.0	9,603.4	13,780.8	10,354.9	78.6	61.1	143.56	8,214.2	495.3	914.8	797.1	117.76	7.768	
17,900.0	9,603.2	13,684.0	10,352.2	79.3	59.5	143.59	8,310.9	494.4	911.3	793.8	117.47	7.758	
18,000.0	9,603.0	13,587.0	10,349.9	80.1	58.0	143.64	8,407.9	493.3	907.9	790.7	117.17	7.748	
18,100.0	9,602.9	13,492.9	10,348.8	80.9	56.4	143.73	8,502.0	492.4	905.6	788.7	116.88	7.748	
18,200.0	9,602.7	13,400.1	10,349.3	81.7	54.9	143.91	8,594.8	490.8	904.2	787.7	116.56	7.757	
18,255.6	9,602.6	13,357.0	10,349.5	82.1	54.2	143.97	8,637.9	490.6	903.8	787.3	116.47	7.760	
18,300.0	9,602.5	13,327.0	10,349.9	82.5	53.7	144.00	8,667.9	490.8	904.1	787.7	116.43	7.765	
18,400.0	9,602.3	13,259.4	10,351.5	83.2	52.6	143.97	8,735.3	493.7	907.8	791.5	116.30	7.806	
18,500.0	9,602.1	13,094.8	10,352.4	84.0	50.0	143.77	8,899.7	501.0	910.4	794.6	115.80	7.862	
18,577.4	9,602.0	13,034.7	10,350.9	84.6	49.0	143.70	8,959.8	502.4	909.4	793.6	115.78	7.854	
18,600.0	9,601.9	13,018.0	10,350.7	84.8	48.7	143.68	8,976.5	503.0	909.5	793.7	115.77	7.856	
18,700.0	9,601.8	12,926.1	10,351.3	85.6	47.3	143.62	9,068.3	506.1	911.2	795.5	115.61	7.881	
18,800.0	9,601.6	12,752.7	10,353.9	86.4	44.4	144.29	9,241.4	497.9	908.8	794.5	114.36	7.947	
18,900.0	9,601.4	12,643.6	10,350.6	87.2	42.7	144.70	9,350.1	489.5	901.1	787.3	113.83	7.917	
19,000.0	9,601.2	12,585.6	10,349.7	88.0	41.7	144.93	9,407.9	485.5	895.5	781.4	114.02	7.854	

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 POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - DIAMONDBACK 22 ST COM 3H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 9818-MWD													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	
19,047.3	9,601.1	12,563.8	10,350.4	88.4	41.4	145.03	9,429.7	484.4	894.8	780.8	114.09	7.843		
19,100.0	9,601.0	12,526.9	10,352.2	88.8	40.8	145.19	9,466.5	483.1	895.4	781.4	114.01	7.854		
19,200.0	9,600.8	12,396.5	10,357.1	89.6	38.6	145.95	9,596.5	474.5	893.7	780.3	113.35	7.884		
19,220.9	9,600.8	12,383.0	10,357.6	89.7	38.4	146.01	9,610.0	473.7	893.5	780.1	113.34	7.883		
19,229.5	9,600.8	12,379.4	10,357.7	89.8	38.4	146.03	9,613.6	473.6	893.4	780.1	113.36	7.882 CC, ES		
19,264.3	9,600.7	12,349.1	10,358.4	90.1	37.9	146.09	9,643.9	473.1	893.7	780.3	113.31	7.887		
19,300.0	9,600.7	12,314.1	10,358.8	90.4	37.3	146.11	9,678.9	473.1	894.1	780.8	113.26	7.894		
19,400.0	9,600.5	12,218.0	10,359.7	91.2	35.8	146.09	9,775.0	474.3	895.6	782.5	113.18	7.913		
19,500.0	9,600.3	12,131.0	10,360.2	92.0	34.4	146.11	9,862.0	474.5	896.6	783.5	113.13	7.926		
19,600.0	9,600.1	12,034.3	10,364.5	92.8	32.8	146.16	9,958.5	476.5	901.5	788.5	112.95	7.981		
19,700.0	9,599.9	11,910.0	10,365.6	93.6	30.8	146.24	10,082.8	476.1	901.8	789.1	112.72	8.001		
19,800.0	9,599.7	11,821.4	10,365.8	94.4	29.4	146.02	10,171.2	480.4	904.7	791.9	112.79	8.021		
19,900.0	9,599.5	11,692.9	10,363.3	95.2	27.4	145.79	10,299.7	483.4	904.3	791.6	112.66	8.027		
19,952.9	9,599.4	11,649.4	10,362.4	95.6	26.7	145.72	10,343.2	484.2	904.0	791.3	112.73	8.019		
20,000.0	9,599.4	11,615.7	10,362.0	96.0	26.2	145.66	10,376.8	485.2	904.3	791.5	112.81	8.016		
20,100.0	9,599.2	11,542.0	10,361.9	96.8	25.1	145.43	10,450.4	489.5	907.5	794.6	112.93	8.036		
20,200.0	9,599.0	11,424.0	10,364.2	97.6	23.2	145.20	10,568.2	496.0	912.7	799.8	112.91	8.083		
20,300.0	9,598.8	11,315.0	10,365.4	98.4	21.5	145.27	10,677.2	495.6	913.4	800.5	112.94	8.088		
20,400.0	9,598.6	11,212.6	10,366.6	99.2	20.0	145.30	10,779.6	496.1	914.8	801.7	113.05	8.092		
20,500.0	9,598.4	11,112.8	10,368.0	100.0	18.5	145.36	10,879.4	496.0	916.0	802.8	113.19	8.092		
20,600.0	9,598.2	11,012.3	10,370.1	100.8	17.0	145.51	10,979.9	494.7	917.0	803.7	113.36	8.089		
20,700.0	9,598.1	10,895.7	10,371.6	101.6	15.3	145.76	11,096.4	491.2	916.4	802.9	113.50	8.074		
20,730.4	9,598.0	10,779.9	10,366.7	101.9	13.8	145.77	11,211.9	487.9	915.1	802.2	112.95	8.102		

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 POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #701H - OWB - PWP5												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8968-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
0.0	0.0	0.0	0.0	3.0	3.0	89.75	0.1	30.0	30.0				
100.0	100.0	99.0	99.0	3.0	3.0	89.75	0.1	30.0	30.0	24.0	6.00	4.996	
200.0	200.0	199.0	199.0	3.0	3.0	89.75	0.1	30.0	30.0	24.0	6.04	4.965	
300.0	300.0	299.0	299.0	3.1	3.0	89.75	0.1	30.0	30.0	23.9	6.12	4.900	
400.0	400.0	399.0	399.0	3.2	3.0	89.75	0.1	30.0	30.0	23.7	6.24	4.806	
500.0	500.0	499.0	499.0	3.4	3.1	89.75	0.1	30.0	30.0	23.6	6.40	4.689	
600.0	600.0	599.0	599.0	3.6	3.1	89.75	0.1	30.0	30.0	23.4	6.58	4.555	
700.0	700.0	699.0	699.0	3.8	3.1	89.75	0.1	30.0	30.0	23.2	6.80	4.411	
800.0	800.0	799.0	799.0	4.0	3.2	89.75	0.1	30.0	30.0	23.0	7.04	4.262	
900.0	900.0	899.0	899.0	4.2	3.2	89.75	0.1	30.0	30.0	22.7	7.29	4.112	
1,000.0	1,000.0	999.0	999.0	4.5	3.2	89.75	0.1	30.0	30.0	22.4	7.57	3.963	
1,100.0	1,100.0	1,099.0	1,099.0	4.8	3.3	89.75	0.1	30.0	30.0	22.1	7.86	3.817	
1,200.0	1,200.0	1,199.0	1,199.0	5.1	3.4	89.75	0.1	30.0	30.0	21.8	8.16	3.676	
1,300.0	1,300.0	1,299.0	1,299.0	5.3	3.4	89.75	0.1	30.0	30.0	21.5	8.47	3.541	
1,400.0	1,400.0	1,399.0	1,399.0	5.6	3.5	89.75	0.1	30.0	30.0	21.2	8.79	3.412	
1,500.0	1,500.0	1,499.0	1,499.0	6.0	3.5	89.75	0.1	30.0	30.0	20.9	9.12	3.289	
1,600.0	1,600.0	1,599.0	1,599.0	6.3	3.6	89.75	0.1	30.0	30.0	20.5	9.45	3.173	
1,700.0	1,700.0	1,699.0	1,699.0	6.6	3.7	89.75	0.1	30.0	30.0	20.2	9.79	3.062	
1,800.0	1,800.0	1,799.0	1,799.0	6.9	3.8	89.75	0.1	30.0	30.0	19.9	10.14	2.958	
1,900.0	1,900.0	1,899.0	1,899.0	7.2	3.9	89.75	0.1	30.0	30.0	19.5	10.49	2.859	
2,000.0	2,000.0	1,999.0	1,999.0	7.6	3.9	89.75	0.1	30.0	30.0	19.1	10.85	2.765	
2,100.0	2,100.0	2,099.0	2,099.0	7.9	4.0	89.75	0.1	30.0	30.0	18.8	11.21	2.676	
2,200.0	2,200.0	2,199.0	2,199.0	8.2	4.1	89.75	0.1	30.0	30.0	18.4	11.57	2.592	
2,300.0	2,300.0	2,299.0	2,299.0	8.6	4.2	89.75	0.1	30.0	30.0	18.1	11.94	2.513	
2,400.0	2,400.0	2,399.0	2,399.0	8.9	4.3	89.75	0.1	30.0	30.0	17.7	12.31	2.437	
2,500.0	2,500.0	2,499.0	2,499.0	9.2	4.4	89.75	0.1	30.0	30.0	17.3	12.68	2.366 CC, ES, SF	
2,600.0	2,600.0	2,598.0	2,598.0	9.6	4.4	-93.65	-0.6	31.5	31.6	18.6	13.03	2.424	
2,700.0	2,699.8	2,696.9	2,696.7	9.9	4.4	-98.02	-2.7	36.1	36.6	23.2	13.39	2.735	
2,800.0	2,799.6	2,795.9	2,795.4	10.2	4.5	-101.34	-6.2	43.5	44.7	30.9	13.77	3.245	
2,900.0	2,899.4	2,895.5	2,894.6	10.5	4.5	-103.34	-9.8	51.4	53.2	39.1	14.16	3.761	
3,000.0	2,999.1	2,995.1	2,993.9	10.8	4.5	-104.78	-13.5	59.2	61.9	47.3	14.55	4.252	
3,100.0	3,098.9	3,094.7	3,093.1	11.1	4.5	-105.87	-17.2	67.1	70.5	55.6	14.94	4.718	
3,200.0	3,198.6	3,194.4	3,192.4	11.4	4.5	-106.72	-20.8	75.0	79.2	63.8	15.34	5.161	
3,300.0	3,298.4	3,294.0	3,291.6	11.8	4.5	-107.40	-24.5	82.8	87.8	72.1	15.74	5.581	
3,400.0	3,398.1	3,393.6	3,390.8	12.1	4.6	-107.96	-28.2	90.7	96.5	80.4	16.14	5.980	
3,500.0	3,497.9	3,493.2	3,490.1	12.4	4.6	-108.43	-31.9	98.6	105.2	88.7	16.54	6.359	
3,600.0	3,597.6	3,592.8	3,589.3	12.8	4.6	-108.82	-35.5	106.4	113.9	96.9	16.95	6.719	
3,700.0	3,697.4	3,692.5	3,688.6	13.1	4.7	-109.16	-39.2	114.3	122.6	105.2	17.36	7.062	
3,800.0	3,797.2	3,792.1	3,787.8	13.4	4.7	-109.46	-42.9	122.2	131.3	113.5	17.77	7.387	
3,900.0	3,896.9	3,891.7	3,887.0	13.8	4.8	-109.72	-46.5	130.1	140.0	121.8	18.19	7.698	
4,000.0	3,996.7	3,991.3	3,986.3	14.1	4.8	-109.95	-50.2	137.9	148.7	130.1	18.61	7.993	
4,100.0	4,096.4	4,090.9	4,085.5	14.4	4.9	-110.15	-53.9	145.8	157.4	138.4	19.03	8.275	
4,200.0	4,196.2	4,190.6	4,184.8	14.8	4.9	-110.33	-57.5	153.7	166.1	146.7	19.45	8.543	
4,300.0	4,295.9	4,290.2	4,284.0	15.1	5.0	-110.49	-61.2	161.5	174.9	155.0	19.87	8.800	
4,400.0	4,395.7	4,389.8	4,383.2	15.4	5.1	-110.64	-64.9	169.4	183.6	163.3	20.30	9.044	
4,500.0	4,495.5	4,489.4	4,482.5	15.8	5.1	-110.78	-68.5	177.3	192.3	171.6	20.72	9.278	
4,600.0	4,595.2	4,589.0	4,581.7	16.1	5.2	-110.90	-72.2	185.1	201.0	179.9	21.15	9.502	
4,700.0	4,695.0	4,688.6	4,680.9	16.5	5.3	-111.01	-75.9	193.0	209.7	188.1	21.59	9.716	
4,800.0	4,794.7	4,788.3	4,780.2	16.8	5.3	-111.11	-79.6	200.9	218.4	196.4	22.02	9.921	
4,900.0	4,894.5	4,887.9	4,879.4	17.2	5.4	-111.21	-83.2	208.7	227.2	204.7	22.45	10.118	
5,000.0	4,994.2	4,987.5	4,978.7	17.5	5.5	-111.30	-86.9	216.6	235.9	213.0	22.89	10.306	

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 POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #701H - OWB - PWP5												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8968-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance								Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.0	5,094.0	5,087.1	5,077.9	17.9	5.6	-111.38	-90.6	224.5	244.6	221.3	23.33	10.487	
5,200.0	5,193.7	5,186.7	5,177.1	18.2	5.7	-111.46	-94.2	232.3	253.3	229.6	23.77	10.660	
5,300.0	5,293.5	5,286.4	5,276.4	18.6	5.7	-111.53	-97.9	240.2	262.1	237.9	24.21	10.826	
5,400.0	5,393.3	5,386.0	5,375.6	18.9	5.8	-111.60	-101.6	248.1	270.8	246.1	24.65	10.986	
5,500.0	5,493.0	5,485.6	5,474.9	19.3	5.9	-111.66	-105.2	256.0	279.5	254.4	25.09	11.140	
5,600.0	5,592.8	5,585.2	5,574.1	19.6	6.0	-111.72	-108.9	263.8	288.2	262.7	25.53	11.288	
5,700.0	5,692.5	5,684.8	5,673.3	20.0	6.1	-111.77	-112.6	271.7	297.0	271.0	25.98	11.430	
5,798.4	5,790.7	5,782.8	5,771.0	20.3	6.2	-111.82	-116.2	279.4	305.5	279.1	26.42	11.565	
5,800.0	5,792.3	5,784.4	5,772.6	20.3	6.2	-111.83	-116.2	279.6	305.7	279.3	26.43	11.567	
5,900.0	5,892.1	5,884.1	5,871.9	20.7	6.3	-111.72	-119.9	287.4	313.7	286.9	26.87	11.676	
5,998.4	5,990.5	5,982.1	5,969.5	21.0	6.4	70.55	-123.5	295.2	320.4	293.1	27.30	11.737	
6,000.0	5,992.1	5,983.8	5,971.1	21.0	6.4	70.57	-123.6	295.3	320.5	293.2	27.31	11.738	
6,100.0	6,092.1	6,083.4	6,070.4	21.3	6.5	71.64	-127.3	303.2	326.8	299.1	27.74	11.781	
6,200.0	6,192.1	6,183.0	6,169.6	21.7	6.6	72.67	-130.9	311.0	333.2	305.1	28.18	11.827	
6,300.0	6,292.1	6,282.6	6,268.9	22.0	6.7	73.66	-134.6	318.9	339.7	311.1	28.61	11.873	
6,400.0	6,392.1	6,382.2	6,368.1	22.4	6.8	74.61	-138.3	326.8	346.3	317.3	29.05	11.922	
6,500.0	6,492.1	6,481.9	6,467.3	22.7	6.9	75.52	-141.9	334.6	353.0	323.5	29.49	11.971	
6,600.0	6,592.1	6,581.5	6,566.6	23.1	7.0	76.40	-145.6	342.5	359.8	329.9	29.93	12.021	
6,700.0	6,692.1	6,681.1	6,665.8	23.4	7.1	77.25	-149.3	350.4	366.7	336.3	30.37	12.072	
6,800.0	6,792.1	6,780.7	6,765.1	23.7	7.2	78.07	-152.9	358.3	373.6	342.8	30.82	12.123	
6,900.0	6,892.1	6,880.3	6,864.3	24.1	7.3	78.86	-156.6	366.1	380.6	349.4	31.26	12.175	
7,000.0	6,992.1	6,980.0	6,963.5	24.4	7.4	79.61	-160.3	374.0	387.7	356.0	31.71	12.227	
7,100.0	7,092.1	7,079.6	7,062.8	24.8	7.5	80.35	-164.0	381.9	394.9	362.7	32.16	12.280	
7,200.0	7,192.1	7,179.2	7,162.0	25.1	7.6	81.05	-167.6	389.7	402.1	369.5	32.60	12.332	
7,300.0	7,292.1	7,278.8	7,261.3	25.5	7.7	81.73	-171.3	397.6	409.3	376.3	33.05	12.384	
7,400.0	7,392.1	7,378.4	7,360.5	25.8	7.8	82.39	-175.0	405.5	416.7	383.2	33.50	12.436	
7,500.0	7,492.1	7,478.1	7,459.7	26.2	7.9	83.02	-178.6	413.3	424.0	390.1	33.95	12.488	
7,600.0	7,592.1	7,577.7	7,559.0	26.5	8.0	83.63	-182.3	421.2	431.5	397.1	34.41	12.540	
7,700.0	7,692.1	7,677.3	7,658.2	26.9	8.1	84.23	-186.0	429.1	438.9	404.1	34.86	12.591	
7,800.0	7,792.1	7,776.9	7,757.5	27.2	8.2	84.80	-189.6	436.9	446.4	411.1	35.31	12.642	
7,900.0	7,892.1	7,876.5	7,856.7	27.6	8.3	85.35	-193.3	444.8	454.0	418.2	35.77	12.693	
8,000.0	7,992.1	7,976.2	7,955.9	27.9	8.5	85.89	-197.0	452.7	461.6	425.4	36.23	12.743	
8,100.0	8,092.1	8,075.8	8,055.2	28.2	8.6	86.40	-200.6	460.6	469.3	432.6	36.68	12.793	
8,200.0	8,192.1	8,175.4	8,154.4	28.6	8.7	86.90	-204.3	468.4	476.9	439.8	37.14	12.842	
8,300.0	8,292.1	8,275.0	8,253.7	28.9	8.8	87.39	-208.0	476.3	484.6	447.0	37.60	12.890	
8,400.0	8,392.1	8,374.6	8,352.9	29.3	8.9	87.86	-211.7	484.2	492.4	454.3	38.06	12.939	
8,500.0	8,492.1	8,474.2	8,452.1	29.6	9.0	88.31	-215.3	492.0	500.2	461.7	38.52	12.986	
8,600.0	8,592.1	8,573.9	8,551.4	30.0	9.1	88.75	-219.0	499.9	508.0	469.0	38.98	13.033	
8,700.0	8,692.1	8,673.5	8,650.6	30.3	9.3	89.18	-222.7	507.8	515.8	476.4	39.44	13.080	
8,800.0	8,792.1	8,773.1	8,749.9	30.7	9.4	89.60	-226.3	515.6	523.7	483.8	39.90	13.126	
8,900.0	8,892.1	8,872.7	8,849.1	31.0	9.5	90.00	-230.0	523.5	531.6	491.2	40.36	13.171	
9,000.0	8,992.1	8,972.3	8,948.4	31.4	9.6	90.39	-233.7	531.4	539.5	498.7	40.78	13.229	
9,052.9	9,045.0	9,025.0	9,000.8	31.6	9.6	90.59	-236.6	535.5	543.7	502.7	40.98	13.266	
9,100.0	9,092.1	9,071.8	9,047.5	31.7	9.6	90.55	-237.3	539.2	547.4	506.3	41.15	13.304	
9,150.0	9,141.7	9,111.5	9,087.0	31.9	9.6	90.63	-237.6	542.7	552.0	510.7	41.28	13.370	
9,200.0	9,190.5	9,150.0	9,125.2	32.1	9.6	90.68	-235.3	546.9	557.5	516.1	41.41	13.463	
9,250.0	9,238.3	9,190.5	9,165.1	32.2	9.7	90.73	-230.3	552.0	564.0	522.5	41.54	13.576	
9,300.0	9,284.5	9,230.3	9,203.6	32.4	9.7	90.73	-222.7	557.8	571.5	529.9	41.67	13.715	
9,350.0	9,329.0	9,270.1	9,241.6	32.6	9.7	90.70	-212.5	564.3	580.0	538.2	41.80	13.875	
9,400.0	9,371.3	9,310.2	9,278.9	32.7	9.7	90.64	-199.7	571.5	589.4	547.4	41.93	14.056	
9,450.0	9,411.1	9,350.0	9,314.8	32.8	9.8	90.54	-184.6	579.3	599.6	557.5	42.06	14.257	

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 POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #701H - OWB - PWP5												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8968-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,500.0	9,448.1	9,391.3	9,350.8	33.0	9.8	90.43	-166.3	588.1	610.7	568.5	42.19	14.474	
9,550.0	9,482.1	9,432.3	9,385.0	33.1	9.8	90.27	-145.7	597.4	622.5	580.2	42.32	14.708	
9,600.0	9,512.7	9,473.8	9,417.9	33.2	9.9	90.08	-122.5	607.3	635.0	592.6	42.46	14.956	
9,650.0	9,539.8	9,515.7	9,449.2	33.3	9.9	89.86	-96.7	617.9	648.2	605.6	42.60	15.216	
9,700.0	9,563.1	9,558.3	9,478.9	33.4	10.0	89.61	-68.3	629.2	662.0	619.2	42.75	15.485	
9,750.0	9,582.4	9,601.7	9,506.7	33.5	10.0	89.35	-37.2	641.0	676.2	633.3	42.90	15.762	
9,800.0	9,597.7	9,645.9	9,532.4	33.5	10.1	89.07	-3.5	653.5	690.9	647.8	43.07	16.043	
9,850.0	9,608.7	9,691.1	9,555.7	33.6	10.2	88.79	32.9	666.6	705.9	662.6	43.24	16.325	
9,900.0	9,615.5	9,737.4	9,576.4	33.7	10.3	88.50	72.1	680.3	721.1	677.6	43.42	16.605	
9,953.9	9,618.0	9,789.0	9,595.4	33.7	10.4	88.21	117.4	695.6	737.6	693.9	43.64	16.903	
10,000.0	9,617.9	9,835.0	9,608.7	33.8	10.5	89.31	159.2	709.4	751.7	707.9	43.83	17.148	
10,100.0	9,617.7	9,941.8	9,625.7	33.9	10.8	90.66	259.7	741.2	781.8	737.5	44.33	17.636	
10,200.0	9,617.5	10,066.8	9,626.7	34.0	11.2	90.72	379.6	776.2	809.8	764.8	44.99	18.001	
10,300.0	9,617.3	10,203.1	9,626.0	34.2	11.7	90.66	512.0	808.4	833.4	787.6	45.78	18.204	
10,400.0	9,617.1	10,342.2	9,625.4	34.3	12.4	90.61	648.6	834.9	852.3	805.6	46.68	18.258	
10,500.0	9,616.9	10,483.7	9,624.8	34.5	13.1	90.58	788.6	854.9	866.4	818.7	47.66	18.180	
10,600.0	9,616.7	10,626.8	9,624.1	34.8	13.9	90.54	931.0	868.1	875.6	826.9	48.69	17.983	
10,700.0	9,616.6	10,770.8	9,623.5	35.0	14.8	90.51	1,074.9	874.2	879.7	830.0	49.76	17.680	
10,800.0	9,616.4	10,885.2	9,622.9	35.2	15.5	90.49	1,189.3	874.7	880.0	829.3	50.70	17.355	
10,900.0	9,616.2	10,985.2	9,622.5	35.5	16.2	90.48	1,289.3	874.8	880.0	828.4	51.62	17.046	
11,000.0	9,616.0	11,085.2	9,622.0	35.8	16.8	90.46	1,389.3	874.9	880.0	827.4	52.58	16.736	
11,100.0	9,615.8	11,185.2	9,621.6	36.1	17.5	90.44	1,489.3	875.0	880.0	826.4	53.57	16.426	
11,200.0	9,615.6	11,285.2	9,621.1	36.4	18.2	90.42	1,589.3	875.1	880.0	825.4	54.60	16.117	
11,300.0	9,615.4	11,385.2	9,620.7	36.8	18.9	90.41	1,689.3	875.2	880.0	824.3	55.65	15.812	
11,400.0	9,615.3	11,485.2	9,620.2	37.2	19.7	90.39	1,789.3	875.3	880.0	823.3	56.74	15.509	
11,500.0	9,615.1	11,585.2	9,619.8	37.5	20.4	90.37	1,889.3	875.3	880.0	822.2	57.85	15.212	
11,534.1	9,615.0	11,619.4	9,619.6	37.7	20.6	90.37	1,923.5	875.4	880.0	821.8	58.23	15.112	
11,539.1	9,615.0	11,624.4	9,619.6	37.7	20.7	90.36	1,928.5	875.4	880.0	821.7	58.29	15.097	
11,600.0	9,614.9	11,686.7	9,619.3	37.9	21.1	90.35	1,990.9	875.3	880.0	821.0	58.99	14.918	
11,700.0	9,614.7	11,786.7	9,618.9	38.3	21.9	90.34	2,090.9	875.2	880.0	819.9	60.15	14.630	
11,800.0	9,614.5	11,886.7	9,618.4	38.8	22.6	90.32	2,190.9	875.2	880.0	818.7	61.34	14.348	
11,900.0	9,614.3	11,986.7	9,618.0	39.2	23.4	90.30	2,290.9	875.1	880.0	817.5	62.54	14.071	
12,000.0	9,614.1	12,086.7	9,617.5	39.6	24.2	90.29	2,390.9	875.0	880.0	816.3	63.77	13.801	
12,100.0	9,614.0	12,186.7	9,617.1	40.1	25.0	90.27	2,490.9	874.9	880.0	815.0	65.01	13.537	
12,200.0	9,613.8	12,286.7	9,616.6	40.6	25.7	90.25	2,590.9	874.8	880.0	813.8	66.27	13.279	
12,300.0	9,613.6	12,386.7	9,616.2	41.1	26.5	90.23	2,690.9	874.7	880.0	812.5	67.55	13.028	
12,400.0	9,613.4	12,486.7	9,615.7	41.6	27.3	90.22	2,790.9	874.6	880.0	811.2	68.85	12.783	
12,500.0	9,613.2	12,586.7	9,615.3	42.1	28.1	90.20	2,890.9	874.5	880.0	809.9	70.16	12.544	
12,600.0	9,613.0	12,686.7	9,614.8	42.6	28.9	90.18	2,990.9	874.5	880.0	808.6	71.48	12.311	
12,700.0	9,612.8	12,786.7	9,614.4	43.2	29.7	90.17	3,090.8	874.4	880.0	807.2	72.82	12.085	
12,800.0	9,612.7	12,886.7	9,613.9	43.7	30.5	90.15	3,190.8	874.3	880.0	805.9	74.18	11.864	
12,900.0	9,612.5	12,986.7	9,613.5	44.3	31.3	90.13	3,290.8	874.2	880.0	804.5	75.54	11.650	
13,000.0	9,612.3	13,086.7	9,613.0	44.8	32.2	90.11	3,390.8	874.1	880.0	803.1	76.92	11.441	
13,100.0	9,612.1	13,186.7	9,612.6	45.4	33.0	90.10	3,490.8	874.0	880.0	801.7	78.31	11.238	
13,200.0	9,611.9	13,286.7	9,612.1	46.0	33.8	90.08	3,590.8	873.9	880.1	800.3	79.71	11.040	
13,300.0	9,611.7	13,386.7	9,611.7	46.6	34.6	90.06	3,690.8	873.9	880.1	798.9	81.12	10.848	
13,400.0	9,611.5	13,486.7	9,611.2	47.2	35.4	90.04	3,790.8	873.8	880.1	797.5	82.55	10.661	
13,500.0	9,611.4	13,586.7	9,610.8	47.8	36.2	90.03	3,890.8	873.7	880.1	796.1	83.98	10.480	
13,600.0	9,611.2	13,686.7	9,610.3	48.4	37.1	90.01	3,990.8	873.6	880.1	794.6	85.42	10.303	
13,700.0	9,611.0	13,786.7	9,609.9	49.0	37.9	89.99	4,090.8	873.5	880.1	793.2	86.87	10.131	
13,800.0	9,610.8	13,886.7	9,609.4	49.7	38.7	89.98	4,190.8	873.4	880.1	791.7	88.33	9.964	

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 POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #701H - OWB - PWP5												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 8968-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
13,900.0	9,610.6	13,986.7	9,609.0	50.3	39.5	89.96	4,290.8	873.3	880.1	790.3	89.79	9.801	
14,000.0	9,610.4	14,086.7	9,608.5	50.9	40.4	89.94	4,390.8	873.3	880.1	788.8	91.27	9.643	
14,100.0	9,610.3	14,186.7	9,608.1	51.6	41.2	89.92	4,490.8	873.2	880.1	787.3	92.75	9.489	
14,182.8	9,610.1	14,269.5	9,607.7	52.1	41.9	89.91	4,573.6	873.1	880.1	786.1	93.98	9.364	
14,200.0	9,610.1	14,292.3	9,607.6	52.2	42.1	89.91	4,596.4	873.0	880.1	785.8	94.27	9.336	
14,240.4	9,610.0	14,344.8	9,607.4	52.5	42.5	89.90	4,648.9	872.2	880.0	785.1	94.94	9.269	
14,300.0	9,609.9	14,404.5	9,607.1	52.9	43.0	89.89	4,708.6	870.9	880.0	784.2	95.83	9.183	
14,400.0	9,609.7	14,504.5	9,606.7	53.6	43.9	89.87	4,808.5	868.8	880.0	782.7	97.33	9.041	
14,500.0	9,609.5	14,604.5	9,606.3	54.3	44.7	89.85	4,908.5	866.7	880.0	781.1	98.84	8.903	
14,600.0	9,609.3	14,704.5	9,605.8	54.9	45.5	89.84	5,008.5	864.6	880.0	779.6	100.36	8.768	
14,700.0	9,609.1	14,804.5	9,605.4	55.6	46.4	89.82	5,108.5	862.5	880.0	778.1	101.88	8.637	
14,800.0	9,609.0	14,904.5	9,604.9	56.3	47.2	89.80	5,208.4	860.4	880.0	776.6	103.41	8.509	
14,900.0	9,608.8	15,004.5	9,604.5	57.0	48.0	89.79	5,308.4	858.3	880.0	775.0	104.95	8.385	
15,000.0	9,608.6	15,104.5	9,604.1	57.7	48.9	89.77	5,408.4	856.2	880.0	773.5	106.49	8.264	
15,100.0	9,608.4	15,204.5	9,603.6	58.4	49.7	89.75	5,508.4	854.1	880.0	771.9	108.03	8.145	
15,200.0	9,608.2	15,304.5	9,603.2	59.1	50.6	89.74	5,608.3	852.0	880.0	770.4	109.58	8.030	
15,300.0	9,608.0	15,404.5	9,602.8	59.8	51.4	89.72	5,708.3	849.9	880.0	768.8	111.14	7.918	
15,400.0	9,607.8	15,504.5	9,602.3	60.5	52.2	89.71	5,808.3	847.8	880.0	767.3	112.70	7.808	
15,500.0	9,607.7	15,604.5	9,601.9	61.3	53.1	89.69	5,908.3	845.7	880.0	765.7	114.26	7.702	
15,600.0	9,607.5	15,704.5	9,601.4	62.0	53.9	89.67	6,008.3	843.6	880.0	764.1	115.83	7.597	
15,700.0	9,607.3	15,804.5	9,601.0	62.7	54.8	89.66	6,108.2	841.5	880.0	762.6	117.40	7.496	
15,800.0	9,607.1	15,904.5	9,600.6	63.4	55.6	89.64	6,208.2	839.4	880.0	761.0	118.97	7.396	
15,900.0	9,606.9	16,004.5	9,600.1	64.2	56.5	89.62	6,308.2	837.3	880.0	759.4	120.55	7.299	
16,000.0	9,606.7	16,104.5	9,599.7	64.9	57.3	89.61	6,408.2	835.2	880.0	757.8	122.14	7.205	
16,100.0	9,606.5	16,204.5	9,599.3	65.6	58.2	89.59	6,508.1	833.1	880.0	756.2	123.72	7.112	
16,200.0	9,606.4	16,304.5	9,598.8	66.4	59.0	89.58	6,608.1	831.0	880.0	754.6	125.31	7.022	
16,300.0	9,606.2	16,404.5	9,598.4	67.1	59.8	89.56	6,708.1	828.9	880.0	753.0	126.91	6.934	
16,400.0	9,606.0	16,504.5	9,598.0	67.9	60.7	89.54	6,808.1	826.8	880.0	751.5	128.50	6.848	
16,500.0	9,605.8	16,604.5	9,597.5	68.6	61.5	89.53	6,908.0	824.7	880.0	749.9	130.10	6.764	
16,600.0	9,605.6	16,704.5	9,597.1	69.4	62.4	89.51	7,008.0	822.6	880.0	748.2	131.70	6.681	
16,614.0	9,605.6	16,718.5	9,597.0	69.5	62.5	89.51	7,022.0	822.3	880.0	748.0	131.93	6.670	
16,700.0	9,605.4	16,722.5	9,597.0	70.1	62.5	89.51	7,026.0	822.2	883.8	751.3	132.46	6.672	
16,800.0	9,605.2	16,722.5	9,597.0	70.9	62.5	89.51	7,026.0	822.2	898.6	766.8	131.77	6.819	
16,819.0	9,605.2	16,722.5	9,597.0	71.0	62.5	89.51	7,026.0	822.2	902.6	771.1	131.50	6.864	
16,900.0	9,605.1	16,722.5	9,597.0	71.7	62.5	89.51	7,026.0	822.2	922.9	793.1	129.85	7.108	
16,924.4	9,605.0	16,722.5	9,597.0	71.8	62.5	89.52	7,026.0	822.2	929.9	800.7	129.21	7.197	
17,000.0	9,604.9	16,722.5	9,597.0	72.4	62.5	89.52	7,026.0	822.2	954.9	828.0	126.91	7.524	
17,100.0	9,604.7	16,722.5	9,597.0	73.2	62.5	89.52	7,026.0	822.2	995.9	872.6	123.27	8.079	

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #703H - OWB - PWP2												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
0.0	0.0	1.0	1.0	3.0	3.0	-90.27	-0.1	-30.0	30.0				
100.0	100.0	101.0	101.0	3.0	3.0	-90.27	-0.1	-30.0	30.0	24.0	6.01	4.996	
200.0	200.0	201.0	201.0	3.0	3.0	-90.27	-0.1	-30.0	30.0	23.9	6.08	4.936	
300.0	300.0	301.0	301.0	3.1	3.1	-90.27	-0.1	-30.0	30.0	23.8	6.23	4.813	
400.0	400.0	401.0	401.0	3.2	3.2	-90.27	-0.1	-30.0	30.0	23.5	6.46	4.641	
500.0	500.0	501.0	501.0	3.4	3.4	-90.27	-0.1	-30.0	30.0	23.2	6.76	4.435	
600.0	600.0	601.0	601.0	3.6	3.6	-90.27	-0.1	-30.0	30.0	22.9	7.12	4.212	
700.0	700.0	701.0	701.0	3.8	3.8	-90.27	-0.1	-30.0	30.0	22.5	7.53	3.982	
800.0	800.0	801.0	801.0	4.0	4.0	-90.27	-0.1	-30.0	30.0	22.0	7.99	3.756	
900.0	900.0	901.0	901.0	4.2	4.2	-90.27	-0.1	-30.0	30.0	21.5	8.48	3.539	
1,000.0	1,000.0	1,001.0	1,001.0	4.5	4.5	-90.27	-0.1	-30.0	30.0	21.0	9.00	3.334	
1,100.0	1,100.0	1,101.0	1,101.0	4.8	4.8	-90.27	-0.1	-30.0	30.0	20.5	9.55	3.143	
1,200.0	1,200.0	1,201.0	1,201.0	5.1	5.1	-90.27	-0.1	-30.0	30.0	19.9	10.11	2.966	
1,300.0	1,300.0	1,301.0	1,301.0	5.3	5.4	-90.27	-0.1	-30.0	30.0	19.3	10.70	2.804	
1,400.0	1,400.0	1,401.0	1,401.0	5.6	5.7	-90.27	-0.1	-30.0	30.0	18.7	11.30	2.655	
1,500.0	1,500.0	1,501.0	1,501.0	6.0	6.0	-90.27	-0.1	-30.0	30.0	18.1	11.91	2.518	
1,600.0	1,600.0	1,601.0	1,601.0	6.3	6.3	-90.27	-0.1	-30.0	30.0	17.5	12.54	2.393	
1,700.0	1,700.0	1,701.0	1,701.0	6.6	6.6	-90.27	-0.1	-30.0	30.0	16.8	13.17	2.278	
1,800.0	1,800.0	1,801.0	1,801.0	6.9	6.9	-90.27	-0.1	-30.0	30.0	16.2	13.81	2.172	
1,900.0	1,900.0	1,901.0	1,901.0	7.2	7.2	-90.27	-0.1	-30.0	30.0	15.5	14.46	2.074	
2,000.0	2,000.0	2,001.0	2,001.0	7.6	7.6	-90.27	-0.1	-30.0	30.0	14.9	15.12	1.984 Advise and Monitor	
2,100.0	2,100.0	2,101.0	2,101.0	7.9	7.9	-90.27	-0.1	-30.0	30.0	14.2	15.78	1.901 Advise and Monitor	
2,200.0	2,200.0	2,201.0	2,201.0	8.2	8.2	-90.27	-0.1	-30.0	30.0	13.6	16.44	1.824 Advise and Monitor	
2,300.0	2,300.0	2,301.0	2,301.0	8.6	8.6	-90.27	-0.1	-30.0	30.0	12.9	17.11	1.753 Advise and Monitor	
2,400.0	2,400.0	2,401.0	2,401.0	8.9	8.9	-90.27	-0.1	-30.0	30.0	12.2	17.79	1.687 Advise and Monitor	
2,416.3	2,416.3	2,417.3	2,417.3	8.9	9.0	-90.27	-0.1	-30.0	30.0	12.1	17.90	1.676 Advise and Monitor, CC	
2,500.0	2,500.0	2,501.0	2,501.0	9.2	9.2	-90.27	-0.1	-30.0	30.0	11.5	18.46	1.625 Advise and Monitor, ES, SF	
2,600.0	2,600.0	2,600.0	2,600.0	9.6	9.6	89.92	-0.9	-31.6	31.6	12.5	19.10	1.652 Advise and Monitor	
2,700.0	2,699.8	2,698.8	2,698.7	9.9	9.9	94.36	-3.1	-36.3	36.3	16.6	19.70	1.844 Advise and Monitor	
2,800.0	2,799.6	2,797.9	2,797.4	10.2	10.2	97.85	-6.5	-43.7	44.0	23.7	20.31	2.168	
2,900.0	2,899.4	2,897.6	2,896.7	10.5	10.5	100.01	-10.2	-51.5	52.2	31.3	20.95	2.492	
3,000.0	2,999.1	2,997.2	2,996.0	10.8	10.8	101.58	-13.9	-59.4	60.4	38.8	21.59	2.799	
3,100.0	3,098.9	3,096.9	3,095.2	11.1	11.2	102.77	-17.5	-67.3	68.7	46.5	22.23	3.090	
3,200.0	3,198.6	3,196.5	3,194.5	11.4	11.5	103.71	-21.2	-75.2	77.0	54.1	22.89	3.364	
3,300.0	3,298.4	3,296.2	3,293.8	11.8	11.8	104.46	-24.9	-83.0	85.3	61.7	23.54	3.623	
3,400.0	3,398.1	3,395.8	3,393.1	12.1	12.2	105.08	-28.5	-90.9	93.6	69.4	24.20	3.868	
3,500.0	3,497.9	3,495.5	3,492.3	12.4	12.5	105.60	-32.2	-98.8	101.9	77.1	24.86	4.100	
3,600.0	3,597.6	3,595.1	3,591.6	12.8	12.8	106.04	-35.9	-106.6	110.3	84.7	25.53	4.319	
3,700.0	3,697.4	3,694.8	3,690.9	13.1	13.2	106.42	-39.5	-114.5	118.6	92.4	26.20	4.527	
3,800.0	3,797.2	3,794.4	3,790.1	13.4	13.5	106.75	-43.2	-122.4	126.9	100.1	26.87	4.724	
3,900.0	3,896.9	3,894.1	3,889.4	13.8	13.9	107.04	-46.9	-130.3	135.3	107.7	27.55	4.911	
4,000.0	3,996.7	3,993.7	3,988.7	14.1	14.2	107.29	-50.6	-138.1	143.6	115.4	28.22	5.089	
4,100.0	4,096.4	4,093.4	4,087.9	14.4	14.5	107.52	-54.2	-146.0	152.0	123.1	28.91	5.258	
4,200.0	4,196.2	4,193.0	4,187.2	14.8	14.9	107.72	-57.9	-153.9	160.3	130.8	29.59	5.419	
4,300.0	4,295.9	4,292.7	4,286.5	15.1	15.2	107.91	-61.6	-161.7	168.7	138.4	30.27	5.573	
4,400.0	4,395.7	4,392.3	4,385.8	15.4	15.6	108.07	-65.2	-169.6	177.1	146.1	30.96	5.719	
4,500.0	4,495.5	4,492.0	4,485.0	15.8	15.9	108.22	-68.9	-177.5	185.4	153.8	31.65	5.859	
4,600.0	4,595.2	4,591.6	4,584.3	16.1	16.3	108.36	-72.6	-185.3	193.8	161.4	32.34	5.992	
4,700.0	4,695.0	4,691.3	4,683.6	16.5	16.6	108.49	-76.3	-193.2	202.1	169.1	33.03	6.120	
4,800.0	4,794.7	4,790.9	4,782.8	16.8	17.0	108.60	-79.9	-201.1	210.5	176.8	33.72	6.242	
4,900.0	4,894.5	4,890.6	4,882.1	17.2	17.3	108.71	-83.6	-209.0	218.9	184.4	34.42	6.359	

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 POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #703H - OWB - PWP2													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		
5,000.0	4,994.2	4,990.2	4,981.4	17.5	17.7	108.81	-87.3	-216.8	227.2	192.1	35.11	6.471		
5,100.0	5,094.0	5,089.9	5,080.6	17.9	18.0	108.90	-90.9	-224.7	235.6	199.8	35.81	6.579		
5,200.0	5,193.7	5,189.5	5,179.9	18.2	18.4	108.99	-94.6	-232.6	243.9	207.4	36.51	6.682		
5,300.0	5,293.5	5,289.2	5,279.2	18.6	18.7	109.07	-98.3	-240.4	252.3	215.1	37.21	6.781		
5,400.0	5,393.3	5,388.8	5,378.5	18.9	19.1	109.15	-101.9	-248.3	260.7	222.8	37.91	6.876		
5,500.0	5,493.0	5,488.5	5,477.7	19.3	19.4	109.22	-105.6	-256.2	269.0	230.4	38.61	6.968		
5,600.0	5,592.8	5,588.1	5,577.0	19.6	19.8	109.28	-109.3	-264.1	277.4	238.1	39.31	7.056		
5,700.0	5,692.5	5,687.8	5,676.3	20.0	20.1	109.35	-113.0	-271.9	285.8	245.8	40.02	7.141		
5,798.4	5,790.7	5,785.8	5,773.9	20.3	20.5	109.40	-116.6	-279.7	294.0	253.3	40.71	7.222		
5,800.0	5,792.3	5,787.4	5,775.5	20.3	20.5	109.41	-116.6	-279.8	294.1	253.4	40.72	7.223		
5,900.0	5,892.1	5,887.1	5,874.8	20.7	20.8	109.29	-120.3	-287.7	301.9	260.5	41.42	7.288		
5,998.4	5,990.5	5,985.1	5,972.5	21.0	21.2	-69.84	-123.9	-295.4	308.5	266.4	42.11	7.325		
6,000.0	5,992.1	5,986.8	5,974.1	21.0	21.2	-69.86	-124.0	-295.6	308.6	266.4	42.12	7.326		
6,100.0	6,092.1	6,086.4	6,073.4	21.3	21.5	-70.98	-127.6	-303.4	314.8	272.0	42.81	7.353		
6,200.0	6,192.1	6,186.0	6,172.6	21.7	21.9	-72.06	-131.3	-311.3	321.1	277.6	43.51	7.381		
6,300.0	6,292.1	6,285.6	6,271.8	22.0	22.3	-73.10	-135.0	-319.2	327.6	283.4	44.20	7.411		
6,400.0	6,392.1	6,385.2	6,371.1	22.4	22.6	-74.10	-138.6	-327.0	334.1	289.2	44.89	7.442		
6,500.0	6,492.1	6,484.9	6,470.3	22.7	23.0	-75.05	-142.3	-334.9	340.8	295.2	45.59	7.474		
6,600.0	6,592.1	6,584.5	6,569.6	23.1	23.3	-75.98	-146.0	-342.8	347.5	301.2	46.29	7.508		
6,700.0	6,692.1	6,684.1	6,668.8	23.4	23.7	-76.86	-149.7	-350.6	354.3	307.3	46.98	7.541		
6,800.0	6,792.1	6,783.7	6,768.0	23.7	24.0	-77.71	-153.3	-358.5	361.2	313.5	47.68	7.576		
6,900.0	6,892.1	6,883.3	6,867.3	24.1	24.4	-78.54	-157.0	-366.4	368.2	319.8	48.38	7.611		
7,000.0	6,992.1	6,982.9	6,966.5	24.4	24.8	-79.32	-160.7	-374.2	375.3	326.2	49.08	7.646		
7,100.0	7,092.1	7,082.6	7,065.8	24.8	25.1	-80.09	-164.3	-382.1	382.4	332.6	49.78	7.682		
7,200.0	7,192.1	7,182.2	7,165.0	25.1	25.5	-80.82	-168.0	-390.0	389.6	339.1	50.48	7.718		
7,300.0	7,292.1	7,281.8	7,264.2	25.5	25.8	-81.52	-171.7	-397.8	396.8	345.6	51.18	7.754		
7,400.0	7,392.1	7,381.4	7,363.5	25.8	26.2	-82.21	-175.3	-405.7	404.1	352.2	51.88	7.790		
7,500.0	7,492.1	7,481.0	7,462.7	26.2	26.5	-82.86	-179.0	-413.6	411.5	358.9	52.58	7.826		
7,600.0	7,592.1	7,580.7	7,562.0	26.5	26.9	-83.50	-182.7	-421.5	418.9	365.6	53.29	7.862		
7,700.0	7,692.1	7,680.3	7,661.2	26.9	27.3	-84.11	-186.3	-429.3	426.4	372.4	53.99	7.897		
7,800.0	7,792.1	7,779.9	7,760.4	27.2	27.6	-84.70	-190.0	-437.2	433.9	379.2	54.69	7.933		
7,900.0	7,892.1	7,879.5	7,859.7	27.6	28.0	-85.27	-193.7	-445.1	441.4	386.0	55.40	7.969		
8,000.0	7,992.1	7,979.1	7,958.9	27.9	28.3	-85.82	-197.4	-452.9	449.0	392.9	56.10	8.004		
8,100.0	8,092.1	8,078.8	8,058.2	28.2	28.7	-86.35	-201.0	-460.8	456.7	399.9	56.80	8.039		
8,200.0	8,192.1	8,178.4	8,157.4	28.6	29.1	-86.87	-204.7	-468.7	464.3	406.8	57.51	8.074		
8,300.0	8,292.1	8,278.0	8,256.6	28.9	29.4	-87.36	-208.4	-476.5	472.0	413.8	58.21	8.109		
8,400.0	8,392.1	8,377.6	8,355.9	29.3	29.8	-87.85	-212.0	-484.4	479.8	420.9	58.92	8.143		
8,500.0	8,492.1	8,477.2	8,455.1	29.6	30.1	-88.31	-215.7	-492.3	487.6	427.9	59.63	8.177		
8,600.0	8,592.1	8,576.9	8,554.4	30.0	30.5	-88.77	-219.4	-500.1	495.4	435.0	60.33	8.211		
8,700.0	8,692.1	8,676.5	8,653.6	30.3	30.8	-89.21	-223.0	-508.0	503.2	442.2	61.04	8.244		
8,800.0	8,792.1	8,776.1	8,752.9	30.7	31.2	-89.63	-226.7	-515.9	511.1	449.3	61.75	8.277		
8,900.0	8,892.1	8,875.7	8,852.1	31.0	31.6	-90.04	-230.4	-523.8	519.0	456.5	62.45	8.310		
9,000.0	8,992.1	8,975.3	8,951.3	31.4	31.9	-90.44	-234.0	-531.6	526.9	463.7	63.16	8.342		
9,052.9	9,045.0	9,028.0	9,003.8	31.6	32.1	-90.65	-236.0	-535.8	531.1	467.6	63.54	8.359		
9,100.0	9,092.1	9,073.0	9,048.6	31.7	32.3	-90.68	-237.6	-539.3	534.9	471.0	63.85	8.377		
9,150.0	9,141.7	9,112.3	9,087.8	31.9	32.4	-90.69	-237.3	-543.0	539.6	475.5	64.11	8.417		
9,200.0	9,190.5	9,150.0	9,125.1	32.1	32.6	-90.65	-234.6	-547.2	545.4	481.1	64.33	8.478		
9,250.0	9,238.3	9,191.2	9,165.6	32.2	32.7	-90.65	-228.9	-552.7	552.2	487.6	64.58	8.551		
9,300.0	9,284.5	9,230.8	9,203.9	32.4	32.8	-90.58	-220.9	-558.6	560.0	495.2	64.80	8.641		
9,350.0	9,329.0	9,270.6	9,241.5	32.6	33.0	-90.49	-210.2	-565.4	568.7	503.7	65.03	8.745		
9,400.0	9,371.3	9,310.4	9,278.4	32.7	33.1	-90.37	-197.0	-572.8	578.3	513.1	65.26	8.862		

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 POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #703H - OWB - PWP2												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
9,450.0	9,411.1	9,350.0	9,313.9	32.8	33.2	-90.20	-181.5	-580.8	588.9	523.4	65.49	8.992	
9,500.0	9,448.1	9,390.9	9,349.2	33.0	33.3	-90.03	-163.1	-589.8	600.2	534.5	65.74	9.130	
9,550.0	9,482.1	9,431.5	9,382.8	33.1	33.4	-89.82	-142.3	-599.3	612.3	546.3	65.99	9.279	
9,600.0	9,512.7	9,472.5	9,415.1	33.2	33.5	-89.57	-119.1	-609.4	625.1	558.9	66.25	9.436	
9,650.0	9,539.8	9,514.0	9,445.7	33.3	33.6	-89.30	-93.3	-620.2	638.6	572.1	66.51	9.601	
9,700.0	9,563.1	9,556.0	9,474.7	33.4	33.7	-89.01	-65.1	-631.6	652.6	585.8	66.77	9.774	
9,750.0	9,582.4	9,598.7	9,501.7	33.5	33.8	-88.70	-34.3	-643.6	667.1	600.1	67.02	9.954	
9,800.0	9,597.7	9,642.1	9,526.7	33.5	33.9	-88.38	-1.1	-656.2	682.0	614.8	67.25	10.141	
9,850.0	9,608.7	9,686.5	9,549.3	33.6	33.9	-88.05	34.7	-669.4	697.2	629.8	67.46	10.335	
9,900.0	9,615.5	9,731.9	9,569.4	33.7	34.0	-87.73	73.1	-683.1	712.7	645.0	67.64	10.535	
9,953.9	9,618.0	9,782.4	9,587.8	33.7	34.1	-87.39	117.4	-698.6	729.4	661.6	67.80	10.758	
10,000.0	9,617.9	9,827.3	9,600.8	33.8	34.2	-88.50	158.1	-712.4	743.8	675.9	67.91	10.953	
10,100.0	9,617.7	9,931.5	9,617.6	33.9	34.3	-89.88	255.8	-744.2	774.7	706.6	68.14	11.370	
10,200.0	9,617.5	10,055.1	9,619.2	34.0	34.5	-90.02	374.1	-779.9	803.7	735.3	68.43	11.746	
10,300.0	9,617.3	10,190.6	9,619.5	34.2	34.7	-90.06	505.4	-813.2	828.4	759.6	68.78	12.044	
10,400.0	9,617.1	10,329.2	9,619.8	34.3	34.9	-90.09	641.2	-840.8	848.4	779.2	69.20	12.261	
10,500.0	9,616.9	10,470.1	9,620.1	34.5	35.2	-90.13	780.5	-862.1	863.6	794.0	69.66	12.398	
10,600.0	9,616.7	10,612.9	9,620.4	34.8	35.5	-90.16	922.5	-876.7	873.9	803.8	70.17	12.455	
10,700.0	9,616.6	10,756.8	9,620.7	35.0	35.9	-90.20	1,066.2	-884.2	879.2	808.5	70.71	12.434	
10,800.0	9,616.4	10,881.5	9,621.0	35.2	36.2	-90.23	1,190.8	-885.2	880.0	808.8	71.26	12.350	
10,900.0	9,616.2	10,981.5	9,621.2	35.5	36.5	-90.26	1,290.8	-885.1	880.0	808.2	71.81	12.256	
11,000.0	9,616.0	11,081.5	9,621.4	35.8	36.7	-90.29	1,390.8	-885.1	880.0	807.6	72.39	12.157	
11,100.0	9,615.8	11,181.5	9,621.6	36.1	37.1	-90.31	1,490.8	-885.0	880.0	807.0	73.01	12.053	
11,200.0	9,615.6	11,281.5	9,621.8	36.4	37.4	-90.34	1,590.8	-884.9	880.0	806.3	73.66	11.946	
11,300.0	9,615.4	11,381.4	9,622.0	36.8	37.7	-90.36	1,690.8	-884.8	880.0	805.7	74.35	11.836	
11,400.0	9,615.3	11,481.4	9,622.2	37.2	38.1	-90.39	1,790.8	-884.7	880.0	804.9	75.07	11.722	
11,500.0	9,615.1	11,581.4	9,622.4	37.5	38.5	-90.41	1,890.8	-884.6	880.0	804.2	75.83	11.605	
11,501.8	9,615.1	11,583.2	9,622.4	37.5	38.5	-90.42	1,892.6	-884.6	880.0	804.2	75.84	11.603	
11,534.1	9,615.0	11,614.5	9,622.5	37.7	38.6	-90.42	1,923.9	-884.6	880.0	803.9	76.09	11.566	
11,539.1	9,615.0	11,619.0	9,622.5	37.7	38.6	-90.42	1,928.3	-884.6	880.0	803.9	76.12	11.560	
11,600.0	9,614.9	11,679.9	9,622.6	37.9	38.9	-90.44	1,989.3	-884.7	880.0	803.4	76.61	11.488	
11,700.0	9,614.7	11,779.9	9,622.9	38.3	39.3	-90.47	2,089.3	-884.8	880.0	802.6	77.42	11.367	
11,800.0	9,614.5	11,879.9	9,623.1	38.8	39.7	-90.49	2,189.3	-884.9	880.0	801.8	78.26	11.244	
11,900.0	9,614.3	11,979.9	9,623.3	39.2	40.1	-90.52	2,289.2	-885.0	880.0	800.9	79.14	11.120	
12,000.0	9,614.1	12,079.9	9,623.5	39.6	40.6	-90.54	2,389.2	-885.0	880.1	800.0	80.04	10.996	
12,100.0	9,614.0	12,179.9	9,623.7	40.1	41.0	-90.57	2,489.2	-885.1	880.1	799.1	80.96	10.870	
12,200.0	9,613.8	12,279.9	9,623.9	40.6	41.5	-90.59	2,589.2	-885.2	880.1	798.2	81.91	10.744	
12,300.0	9,613.6	12,379.9	9,624.1	41.1	42.0	-90.62	2,689.2	-885.3	880.1	797.2	82.89	10.617	
12,400.0	9,613.4	12,479.9	9,624.3	41.6	42.5	-90.65	2,789.2	-885.4	880.1	796.2	83.89	10.491	
12,500.0	9,613.2	12,579.9	9,624.5	42.1	43.0	-90.67	2,889.2	-885.5	880.1	795.2	84.91	10.364	
12,600.0	9,613.0	12,679.9	9,624.7	42.6	43.5	-90.70	2,989.2	-885.6	880.1	794.1	85.96	10.239	
12,700.0	9,612.8	12,779.9	9,624.9	43.2	44.0	-90.72	3,089.2	-885.7	880.1	793.1	87.03	10.113	
12,800.0	9,612.7	12,879.9	9,625.1	43.7	44.6	-90.75	3,189.2	-885.8	880.1	792.0	88.11	9.989	
12,900.0	9,612.5	12,979.9	9,625.3	44.3	45.1	-90.77	3,289.2	-885.9	880.1	790.9	89.22	9.865	
13,000.0	9,612.3	13,079.9	9,625.6	44.8	45.7	-90.80	3,389.2	-886.0	880.1	789.8	90.34	9.742	
13,100.0	9,612.1	13,179.9	9,625.8	45.4	46.3	-90.82	3,489.2	-886.1	880.1	788.6	91.49	9.620	
13,200.0	9,611.9	13,279.9	9,626.0	46.0	46.9	-90.85	3,589.2	-886.2	880.1	787.5	92.65	9.500	
13,300.0	9,611.7	13,379.9	9,626.2	46.6	47.4	-90.88	3,689.2	-886.2	880.2	786.3	93.83	9.380	
13,400.0	9,611.5	13,479.9	9,626.4	47.2	48.0	-90.90	3,789.2	-886.3	880.2	785.1	95.02	9.262	
13,500.0	9,611.4	13,579.9	9,626.6	47.8	48.6	-90.93	3,889.2	-886.4	880.2	783.9	96.24	9.146	
13,600.0	9,611.2	13,679.9	9,626.8	48.4	49.2	-90.95	3,989.2	-886.5	880.2	782.7	97.46	9.031	

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 POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #703H - OWB - PWP2												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	
13,700.0	9,611.0	13,779.9	9,627.0	49.0	49.9	-90.98	4,089.2	-886.6	880.2	781.5	98.70	8.918	
13,800.0	9,610.8	13,879.9	9,627.2	49.7	50.5	-91.00	4,189.2	-886.7	880.2	780.2	99.96	8.806	
13,900.0	9,610.6	13,979.9	9,627.4	50.3	51.1	-91.03	4,289.2	-886.8	880.2	779.0	101.23	8.695	
14,000.0	9,610.4	14,079.9	9,627.6	50.9	51.8	-91.05	4,389.2	-886.9	880.2	777.7	102.51	8.587	
14,100.0	9,610.3	14,179.9	9,627.8	51.6	52.4	-91.08	4,489.2	-887.0	880.2	776.4	103.80	8.480	
14,106.7	9,610.2	14,186.5	9,627.9	51.6	52.5	-91.08	4,495.9	-887.0	880.2	776.3	103.89	8.473	
14,182.8	9,610.1	14,258.0	9,628.0	52.1	52.9	-91.10	4,567.4	-887.1	880.3	775.4	104.86	8.394	
14,200.0	9,610.1	14,274.7	9,628.0	52.2	53.0	-91.10	4,584.1	-887.1	880.3	775.2	105.09	8.377	
14,240.4	9,610.0	14,305.6	9,628.1	52.5	53.2	-91.11	4,615.0	-887.5	880.2	774.6	105.57	8.337	
14,253.2	9,610.0	14,315.5	9,628.1	52.6	53.3	-91.12	4,624.9	-887.7	880.2	774.4	105.73	8.325	
14,300.0	9,609.9	14,362.2	9,628.2	52.9	53.6	-91.13	4,671.5	-888.7	880.2	773.8	106.35	8.277	
14,400.0	9,609.7	14,462.2	9,628.4	53.6	54.3	-91.15	4,771.5	-890.8	880.2	772.5	107.68	8.174	
14,500.0	9,609.5	14,562.2	9,628.6	54.3	54.9	-91.18	4,871.5	-892.9	880.2	771.2	109.02	8.074	
14,600.0	9,609.3	14,662.2	9,628.8	54.9	55.6	-91.20	4,971.5	-895.0	880.2	769.8	110.37	7.975	
14,700.0	9,609.1	14,762.2	9,629.0	55.6	56.3	-91.23	5,071.5	-897.1	880.2	768.5	111.74	7.877	
14,800.0	9,609.0	14,862.2	9,629.2	56.3	57.0	-91.26	5,171.4	-899.2	880.2	767.1	113.11	7.782	
14,900.0	9,608.8	14,962.2	9,629.4	57.0	57.7	-91.28	5,271.4	-901.3	880.2	765.7	114.49	7.688	
15,000.0	9,608.6	15,062.2	9,629.7	57.7	58.4	-91.31	5,371.4	-903.4	880.2	764.3	115.89	7.596	
15,100.0	9,608.4	15,162.2	9,629.9	58.4	59.1	-91.33	5,471.4	-905.5	880.2	763.0	117.29	7.505	
15,200.0	9,608.2	15,262.2	9,630.1	59.1	59.8	-91.36	5,571.3	-907.6	880.2	761.6	118.70	7.416	
15,300.0	9,608.0	15,362.2	9,630.3	59.8	60.5	-91.38	5,671.3	-909.7	880.3	760.1	120.11	7.329	
15,400.0	9,607.8	15,462.2	9,630.5	60.5	61.2	-91.41	5,771.3	-911.8	880.3	758.7	121.54	7.243	
15,500.0	9,607.7	15,562.2	9,630.7	61.3	61.9	-91.43	5,871.3	-913.9	880.3	757.3	122.97	7.158	
15,600.0	9,607.5	15,662.2	9,630.9	62.0	62.6	-91.46	5,971.2	-916.0	880.3	755.9	124.41	7.076	
15,700.0	9,607.3	15,762.2	9,631.1	62.7	63.3	-91.49	6,071.2	-918.1	880.3	754.4	125.86	6.994	
15,800.0	9,607.1	15,862.2	9,631.3	63.4	64.1	-91.51	6,171.2	-920.2	880.3	753.0	127.31	6.915	
15,900.0	9,606.9	15,962.2	9,631.5	64.2	64.8	-91.54	6,271.2	-922.3	880.3	751.5	128.77	6.836	
16,000.0	9,606.7	16,062.2	9,631.7	64.9	65.5	-91.56	6,371.2	-924.4	880.3	750.1	130.24	6.759	
16,100.0	9,606.5	16,162.2	9,631.9	65.6	66.3	-91.59	6,471.1	-926.5	880.3	748.6	131.71	6.684	
16,200.0	9,606.4	16,262.2	9,632.1	66.4	67.0	-91.61	6,571.1	-928.6	880.3	747.2	133.19	6.610	
16,300.0	9,606.2	16,362.2	9,632.3	67.1	67.7	-91.64	6,671.1	-930.7	880.4	745.7	134.67	6.537	
16,400.0	9,606.0	16,462.2	9,632.5	67.9	68.5	-91.66	6,771.1	-932.8	880.4	744.2	136.16	6.465	
16,500.0	9,605.8	16,562.2	9,632.7	68.6	69.2	-91.69	6,871.0	-934.9	880.4	742.7	137.66	6.395	
16,600.0	9,605.6	16,662.2	9,632.9	69.4	70.0	-91.71	6,971.0	-937.0	880.4	741.2	139.16	6.326	
16,700.0	9,605.4	16,762.2	9,633.2	70.1	70.7	-91.74	7,071.0	-939.1	880.4	739.7	140.67	6.259	
16,800.0	9,605.2	16,862.2	9,633.4	70.9	71.5	-91.77	7,171.0	-941.2	880.4	738.2	142.18	6.192	
16,819.0	9,605.2	16,881.2	9,633.4	71.0	71.6	-91.77	7,190.0	-941.6	880.4	738.0	142.46	6.180	
16,900.0	9,605.1	16,994.6	9,633.6	71.7	72.5	-91.80	7,303.3	-941.8	880.0	736.2	143.81	6.119	
16,924.1	9,605.0	17,018.6	9,633.7	71.8	72.7	-91.80	7,327.4	-941.4	879.9	735.7	144.17	6.103	
16,924.4	9,605.0	17,019.0	9,633.7	71.8	72.7	-91.80	7,327.8	-941.4	879.9	735.7	144.18	6.103	
17,000.0	9,604.9	17,094.6	9,633.8	72.4	73.2	-91.82	7,403.3	-940.2	879.9	734.6	145.32	6.055	
17,100.0	9,604.7	17,194.6	9,634.0	73.2	74.0	-91.85	7,503.3	-938.6	879.9	733.1	146.84	5.992	
17,200.0	9,604.5	17,294.6	9,634.3	73.9	74.8	-91.87	7,603.3	-937.0	879.9	731.6	148.36	5.931	
17,300.0	9,604.3	17,394.6	9,634.5	74.7	75.5	-91.90	7,703.3	-935.4	879.9	730.1	149.88	5.871	
17,400.0	9,604.1	17,494.6	9,634.7	75.5	76.3	-91.92	7,803.3	-933.9	879.9	728.5	151.41	5.812	
17,500.0	9,604.0	17,594.6	9,634.9	76.2	77.0	-91.95	7,903.3	-932.3	880.0	727.0	152.95	5.753	
17,600.0	9,603.8	17,694.6	9,635.1	77.0	77.8	-91.97	8,003.2	-930.7	880.0	725.5	154.48	5.696	
17,700.0	9,603.6	17,794.6	9,635.3	77.8	78.6	-92.00	8,103.2	-929.1	880.0	724.0	156.02	5.640	
17,800.0	9,603.4	17,894.6	9,635.5	78.6	79.4	-92.02	8,203.2	-927.5	880.0	722.4	157.57	5.585	
17,900.0	9,603.2	17,994.6	9,635.7	79.3	80.1	-92.05	8,303.2	-926.0	880.0	720.9	159.12	5.531	
18,000.0	9,603.0	18,094.6	9,635.9	80.1	80.9	-92.08	8,403.2	-924.4	880.0	719.4	160.67	5.477	

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 POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #703H - OWB - PWP2													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		
18,100.0	9,602.9	18,194.6	9,636.1	80.9	81.7	-92.10	8,503.2	-922.8	880.0	717.8	162.22	5.425		
18,200.0	9,602.7	18,294.6	9,636.3	81.7	82.4	-92.13	8,603.2	-921.2	880.1	716.3	163.78	5.373		
18,300.0	9,602.5	18,394.6	9,636.5	82.5	83.2	-92.15	8,703.1	-919.6	880.1	714.7	165.34	5.323		
18,400.0	9,602.3	18,494.6	9,636.7	83.2	84.0	-92.18	8,803.1	-918.1	880.1	713.2	166.90	5.273		
18,500.0	9,602.1	18,594.6	9,636.9	84.0	84.8	-92.20	8,903.1	-916.5	880.1	711.6	168.47	5.224		
18,600.0	9,601.9	18,694.6	9,637.1	84.8	85.6	-92.23	9,003.1	-914.9	880.1	710.1	170.04	5.176		
18,700.0	9,601.8	18,794.6	9,637.4	85.6	86.4	-92.25	9,103.1	-913.3	880.1	708.5	171.61	5.129		
18,800.0	9,601.6	18,894.6	9,637.6	86.4	87.1	-92.28	9,203.1	-911.7	880.1	707.0	173.18	5.082		
18,900.0	9,601.4	18,994.6	9,637.8	87.2	87.9	-92.30	9,303.1	-910.2	880.2	705.4	174.76	5.036		
19,000.0	9,601.2	19,094.6	9,638.0	88.0	88.7	-92.33	9,403.1	-908.6	880.2	703.8	176.34	4.991		
19,100.0	9,601.0	19,194.5	9,638.2	88.8	89.5	-92.35	9,503.0	-907.0	880.2	702.3	177.92	4.947		
19,200.0	9,600.8	19,294.5	9,638.4	89.6	90.3	-92.38	9,603.0	-905.4	880.2	700.7	179.51	4.903		
19,220.9	9,600.8	19,312.2	9,638.4	89.7	90.4	-92.38	9,620.7	-905.2	880.2	700.4	179.83	4.895		
19,264.3	9,600.7	19,345.5	9,638.5	90.1	90.7	-92.39	9,653.9	-904.9	880.3	699.8	180.49	4.877		
19,300.0	9,600.7	19,381.2	9,638.6	90.4	91.0	-92.40	9,689.7	-904.9	880.3	699.3	181.05	4.862		
19,400.0	9,600.5	19,481.2	9,638.8	91.2	91.8	-92.43	9,789.7	-904.9	880.4	697.7	182.65	4.820		
19,500.0	9,600.3	19,581.2	9,639.0	92.0	92.6	-92.45	9,889.7	-904.8	880.4	696.1	184.24	4.778		
19,600.0	9,600.1	19,681.2	9,639.2	92.8	93.4	-92.48	9,989.7	-904.7	880.4	694.6	185.84	4.737		
19,700.0	9,599.9	19,781.2	9,639.4	93.6	94.2	-92.51	10,089.7	-904.7	880.4	693.0	187.44	4.697		
19,800.0	9,599.7	19,881.2	9,639.6	94.4	95.0	-92.53	10,189.7	-904.6	880.4	691.4	189.04	4.657		
19,900.0	9,599.5	19,981.2	9,639.8	95.2	95.8	-92.56	10,289.7	-904.6	880.5	689.8	190.64	4.618		
20,000.0	9,599.4	20,081.2	9,640.0	96.0	96.6	-92.58	10,389.7	-904.5	880.5	688.2	192.25	4.580		
20,100.0	9,599.2	20,181.2	9,640.2	96.8	97.4	-92.61	10,489.7	-904.4	880.5	686.7	193.85	4.542		
20,200.0	9,599.0	20,281.2	9,640.5	97.6	98.2	-92.63	10,589.7	-904.4	880.5	685.1	195.46	4.505		
20,300.0	9,598.8	20,381.2	9,640.7	98.4	99.0	-92.66	10,689.7	-904.3	880.6	683.5	197.07	4.468		
20,400.0	9,598.6	20,481.2	9,640.9	99.2	99.8	-92.69	10,789.7	-904.2	880.6	681.9	198.68	4.432		
20,500.0	9,598.4	20,581.2	9,641.1	100.0	100.6	-92.71	10,889.6	-904.2	880.6	680.3	200.30	4.396		
20,600.0	9,598.2	20,681.2	9,641.3	100.8	101.4	-92.74	10,989.6	-904.1	880.6	678.7	201.91	4.361		
20,700.0	9,598.1	20,781.2	9,641.5	101.6	102.2	-92.76	11,089.6	-904.1	880.6	677.1	203.53	4.327		
20,730.4	9,598.0	20,811.6	9,641.6	101.9	102.5	-92.77	11,120.1	-904.0	880.7	676.6	204.02	4.316		

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Reference Depths are relative to *KB=30' @ 3104.0usft (TBD)

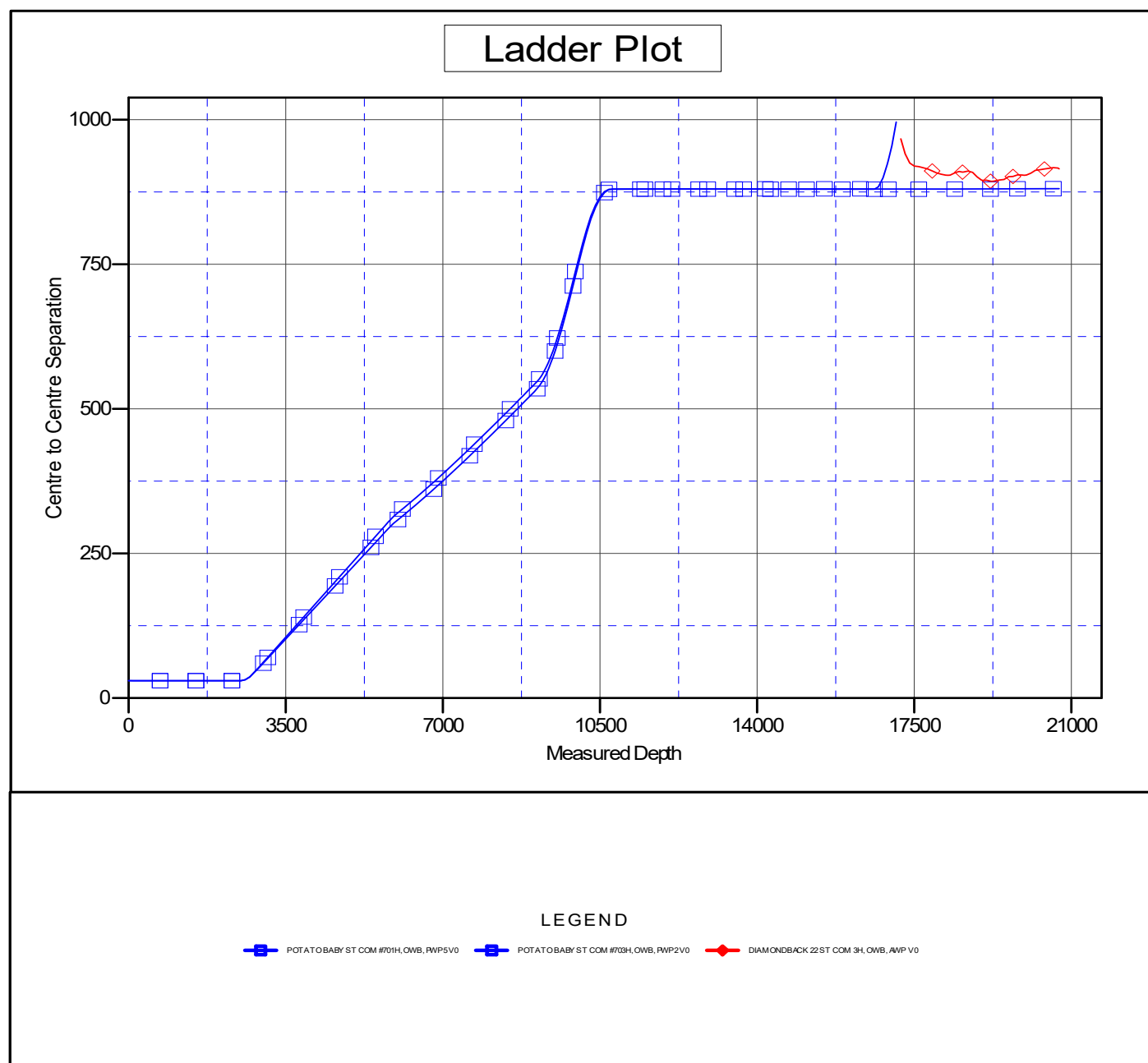
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: POTATO BABY ST COM #702H

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

Grid Convergence at Surface is: 0.14°



Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well POTATO BABY ST COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30' @ 3104.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	MD Reference:	*KB=30' @ 3104.0usft (TBD)
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	POTATO BABY ST COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	edm
Reference Design:	PWP5	Offset TVD Reference:	Offset Datum

Reference Depths are relative to *KB=30' @ 3104.0usft (TBD)

Offset Depths are relative to Offset Datum

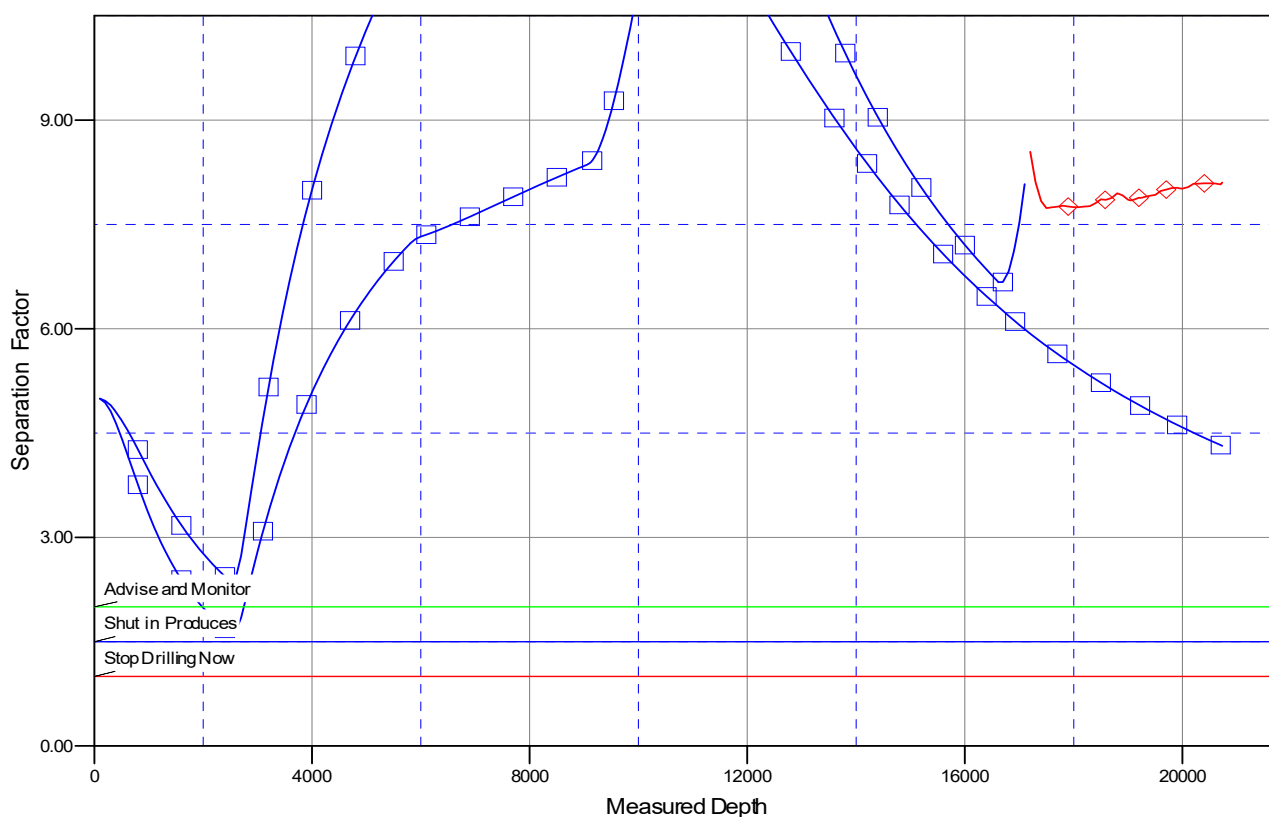
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: POTATO BABY ST COM #702H

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

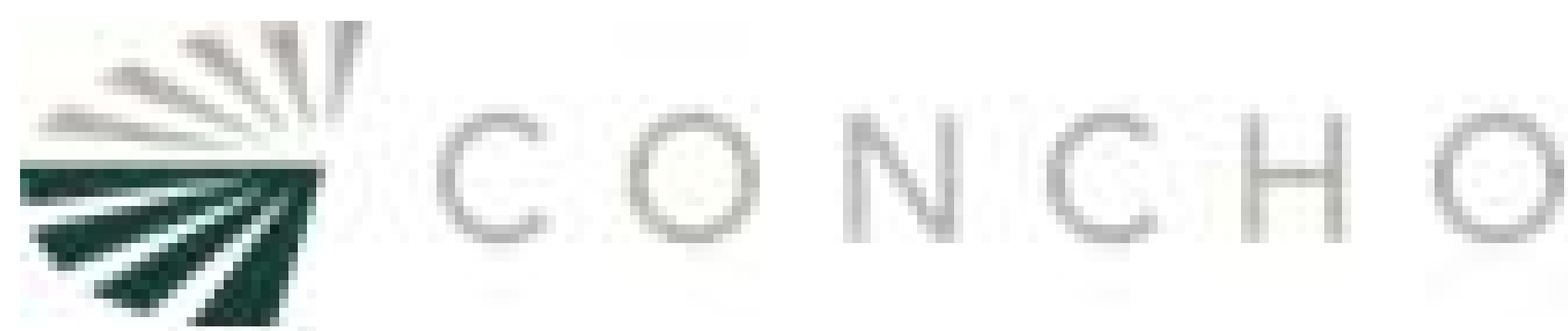
Grid Convergence at Surface is: 0.14°

Separation Factor Plot



LEGEND

■ POTATO BABY ST COM #701H, OWB, RWP5 V0
 ■ POTATO BABY ST COM #703H, OWB, RWP2 V0
 ◆ DIAMONDBACK 22 ST COM 3H, OWB, AWP V0



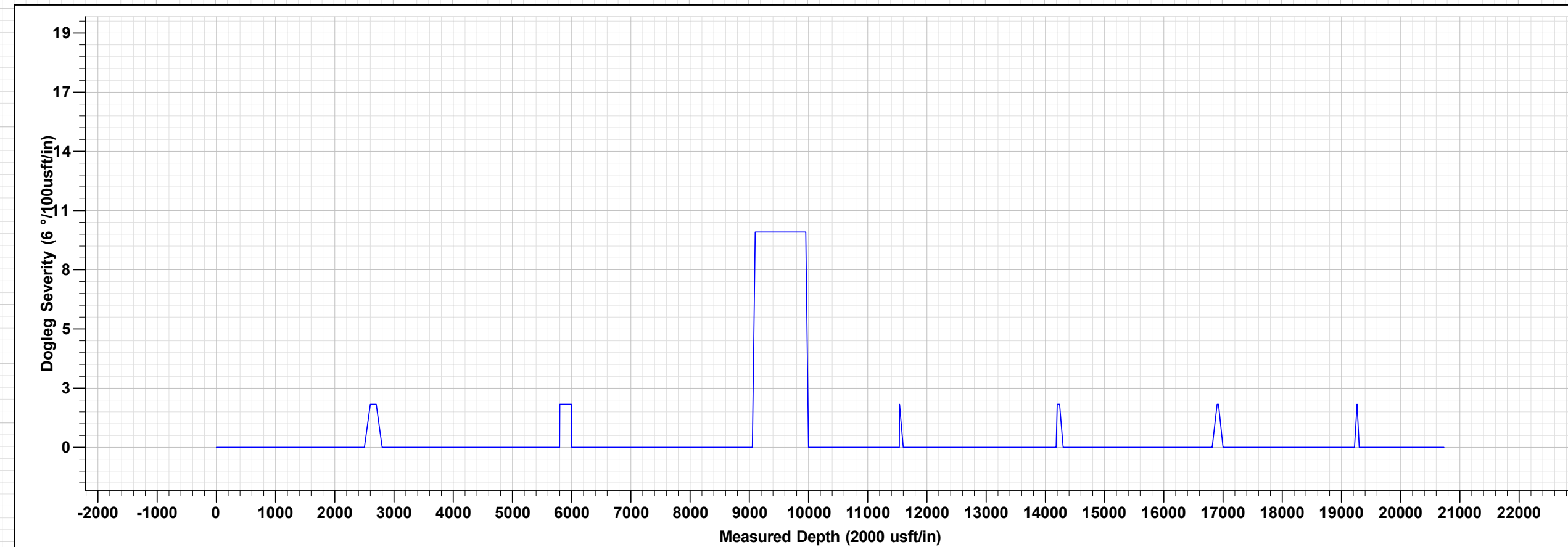
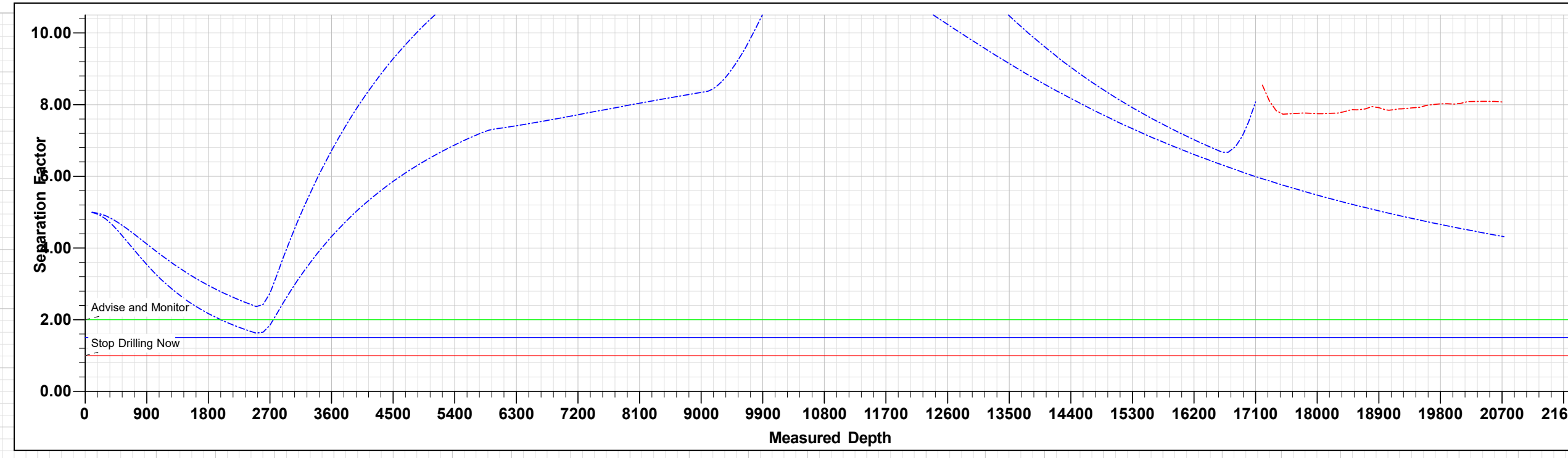
Project: ATLAS PROSPECT (NM-E)
Site: POTATO BABY STATE PROJECT (ATLAS 2628)
Well: POTATO BABY ST COM #702H
Wellbore: OWB
Design: PWP5
GL: 3074.0
*KB=30' @ 3104.0usft (TBD)

WELL DETAILS: POTATO BABY ST COM #702H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	364082.93	581561.90	32° 0' 2.537 N	104° 4' 12.808 W

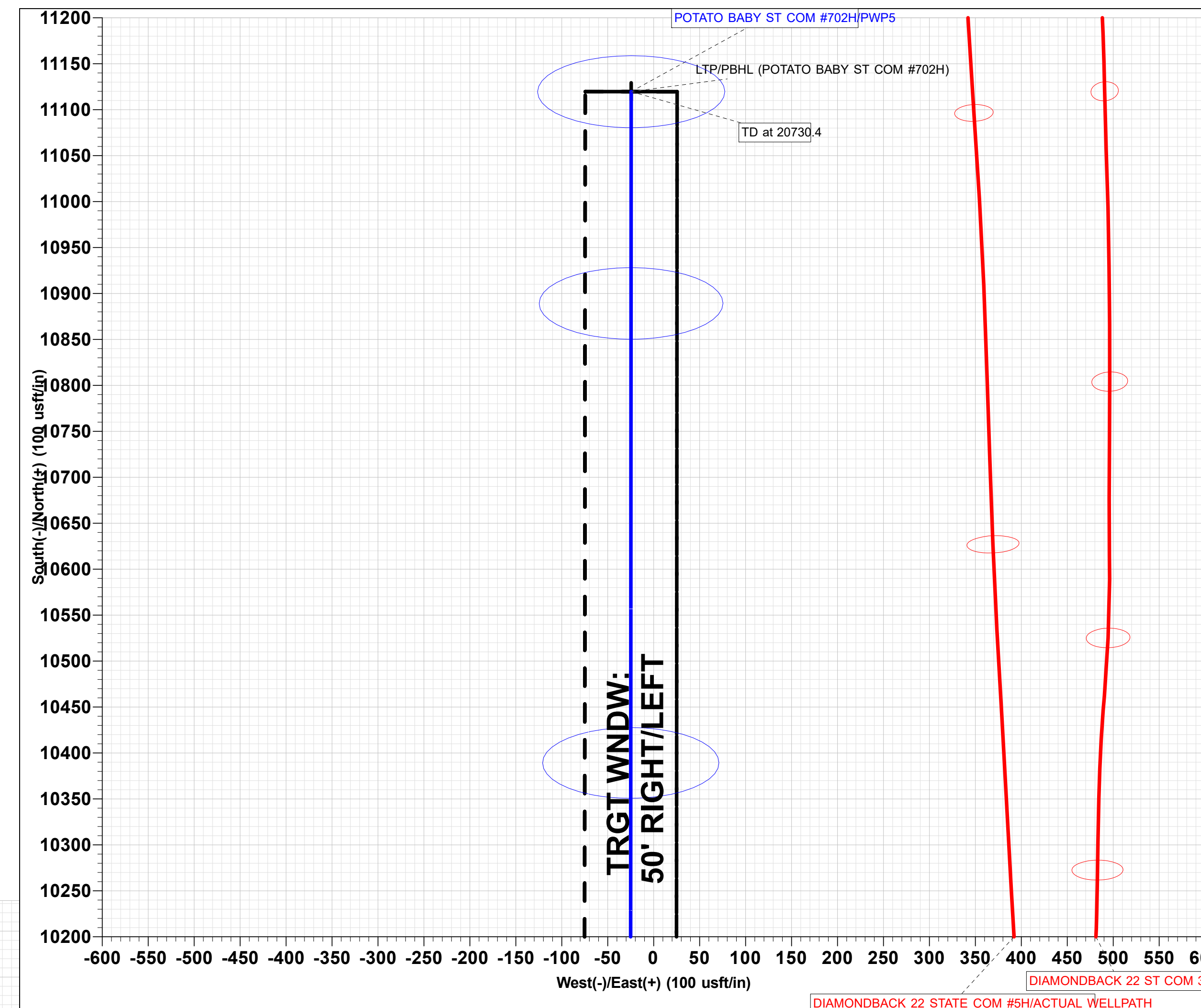
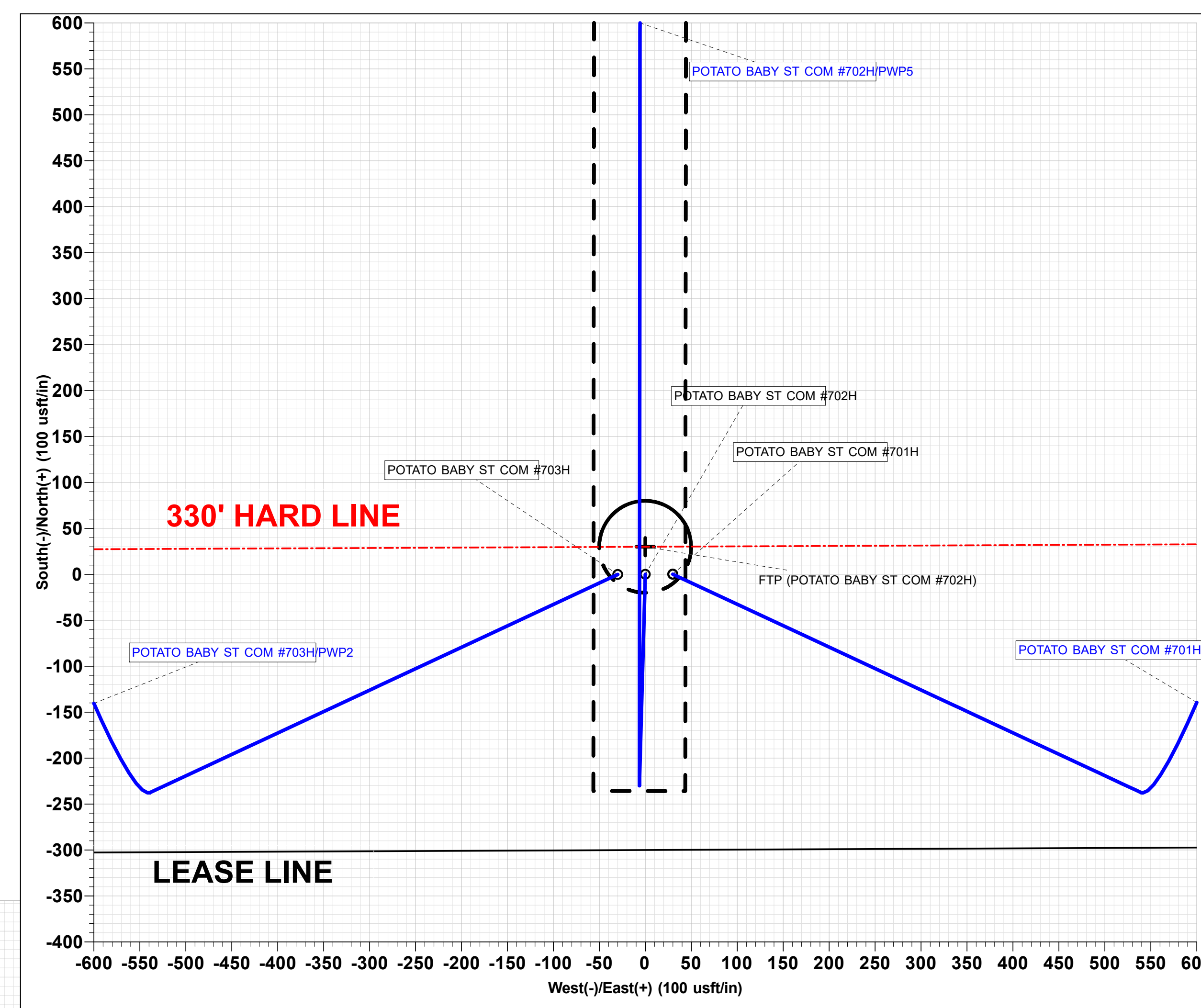
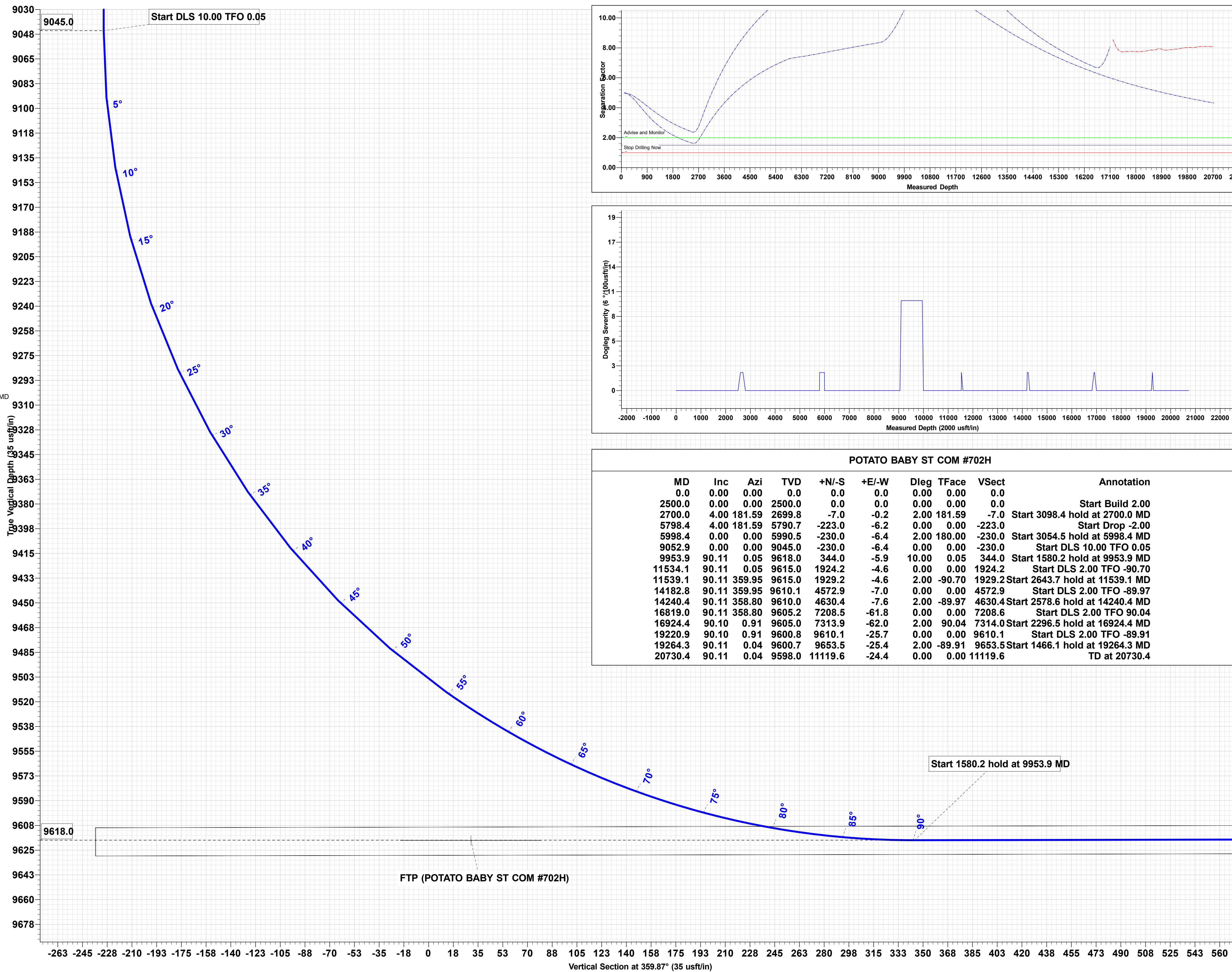
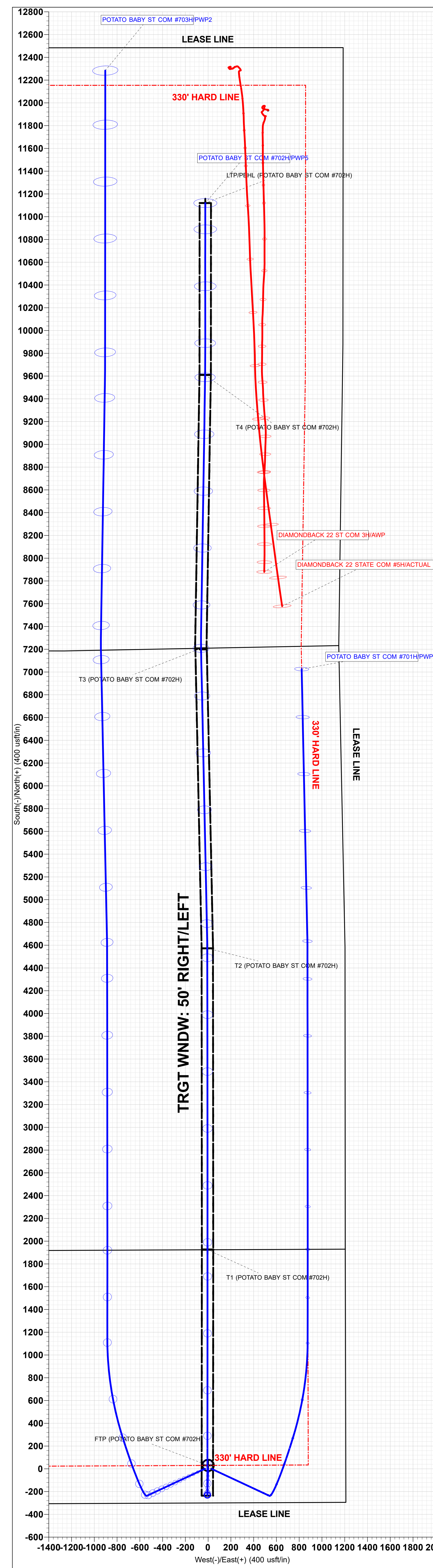
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LTP/PBHL (POTATO BABY ST COM #702H)PWP5	998.0	11119.6	-24.4	375202.55	581537.48	32° 1' 52.584 N	104° 4' 12.777 W
T4 (POTATO BABY ST COM #702H)	9600.8	9610.1	-25.7	373693.03	581536.16	32° 1' 37.645 N	104° 4' 12.835 W
T3 (POTATO BABY ST COM #702H)	9605.2	7208.5	-61.8	371291.43	581500.15	32° 1' 13.878 N	104° 4' 13.321 W
T2 (POTATO BABY ST COM #702H)	9610.1	4572.9	-7.0	368655.78	581554.92	32° 0' 47.793 N	104° 4' 12.759 W
T1 (POTATO BABY ST COM #702H)	9615.0	1924.2	-4.6	366007.16	581557.28	32° 0' 21.580 N	104° 4' 12.807 W
FTP (POTATO BABY ST COM #702H)	9618.0	30.0	-0.1	364112.93	581561.82	32° 0' 2.834 N	104° 4' 12.808 W

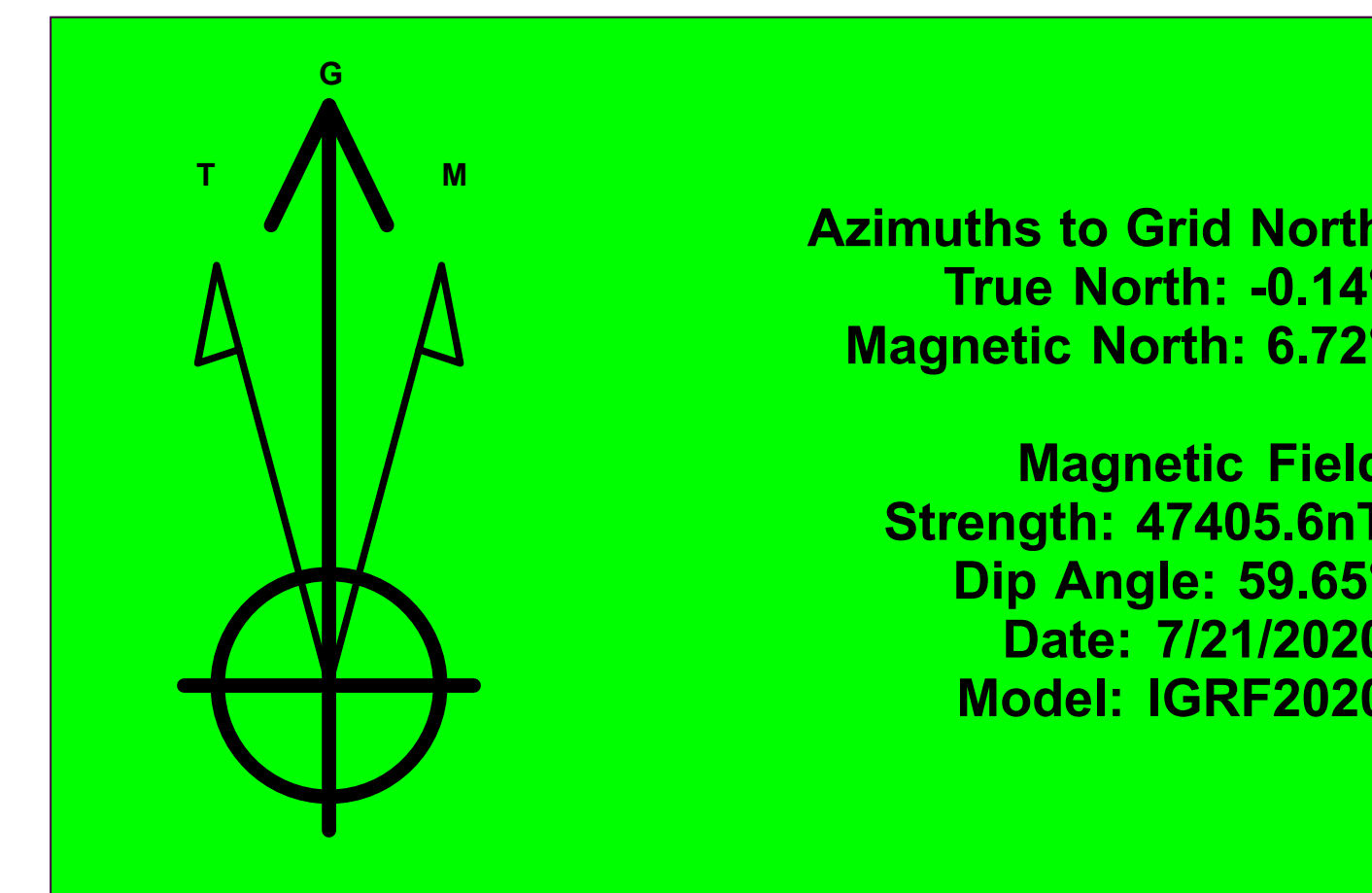
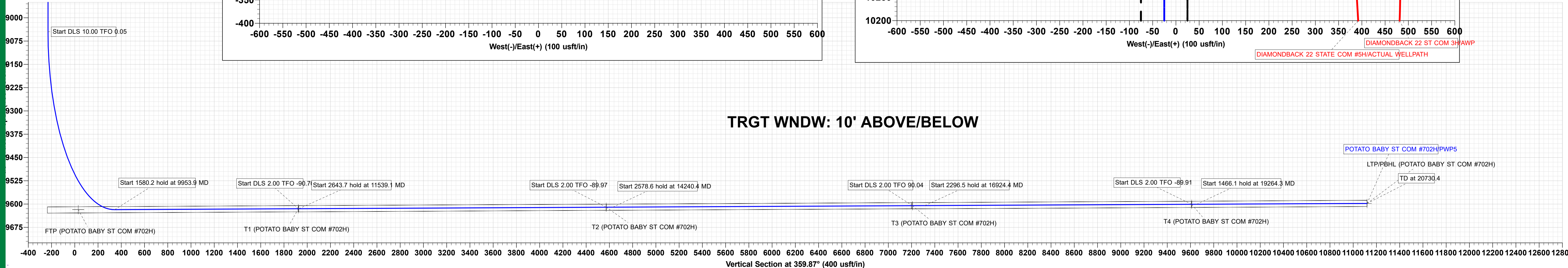
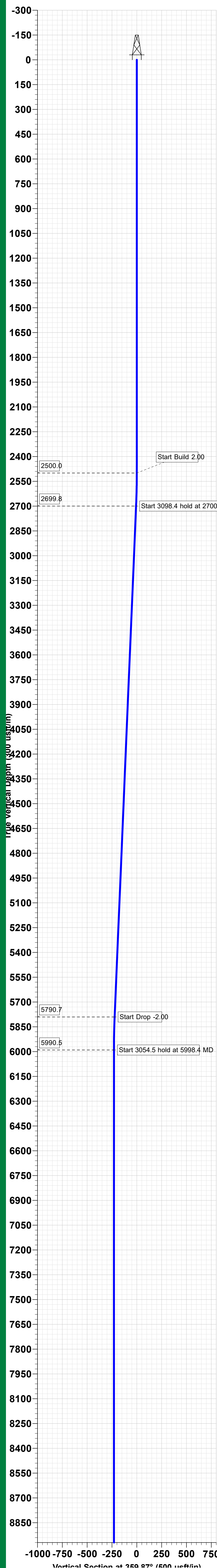


POTATO BABY ST COM #702H

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2700.0	4.00	181.59	2699.8	-7.0	-0.2	2.00	181.59	-7.0	Start 3098.4 hold at 2700.0 MD
5798.4	4.00	181.59	5790.7	-223.0	-6.2	0.00	0.00	-223.0	Start Drop -2.00
5998.4	0.00	0.00	5990.5	-230.0	-6.4	2.00	180.00	-230.0	Start 3054.5 hold at 5998.4 MD
9052.9	0.00	0.00	9045.0	-230.0	-6.4	0.00	0.00	-230.0	Start DLS 10.00 TFO 0.05
9953.9	90.11	0.05	9618.0	344.0	-5.9	10.00	0.05	344.0	Start 1580.2 hold at 9953.9 MD
11534.1	90.11	0.05	9615.0	1924.2	-4.6	0.00	0.00	1924.2	Start DLS 2.00 TFO -90.70
11539.1	90.11	359.95	9615.0	1929.2	-4.6	2.00	-90.70	1929.2	Start 2643.7 hold at 11539.1 MD
14182.8	90.11	359.95	9610.1	4572.9	-7.0	0.00	0.00	4572.9	Start DLS 2.00 TFO -89.97
14240.4	90.11	358.80	9610.0	4630.4	-7.6	2.00	-89.97	4630.4	Start 2578.6 hold at 14240.4 MD
16819.0	90.11	358.80	9605.2	7208.5	-61.8	0.00	0.00	7208.5	Start DLS 2.00 TFO 90.04
16924.4	90.10	0.91	9605.0	7313.9	-62.0	2.00	90.04	7314.0	Start 2296.5 hold at 16924.4 MD
19220.9	90.10	0.91	9600.8	9610.1	-25.7	0.00	0.00	9610.1	Start DLS 2.00 TFO -89.91
19264.3	90.11	0.04	9600.7	9653.5	-25.4	2.00	-89.91	9653.5	Start 1466.1 hold at 19264.3 MD
20730.4	90.11	0.04	9598.0	11119.6	-24.4	0.00	0.00	11119.6	TD at 20730.4



TRGT WNDW: 10' ABOVE/BELOW



Azimuths to Grid North
True North: -0.14°
Magnetic North: 6.72°
Magnetic Field
Strength: 47405.6nT
Dip Angle: 59.65°
Date: 7/21/2020
Model: IGRF2020

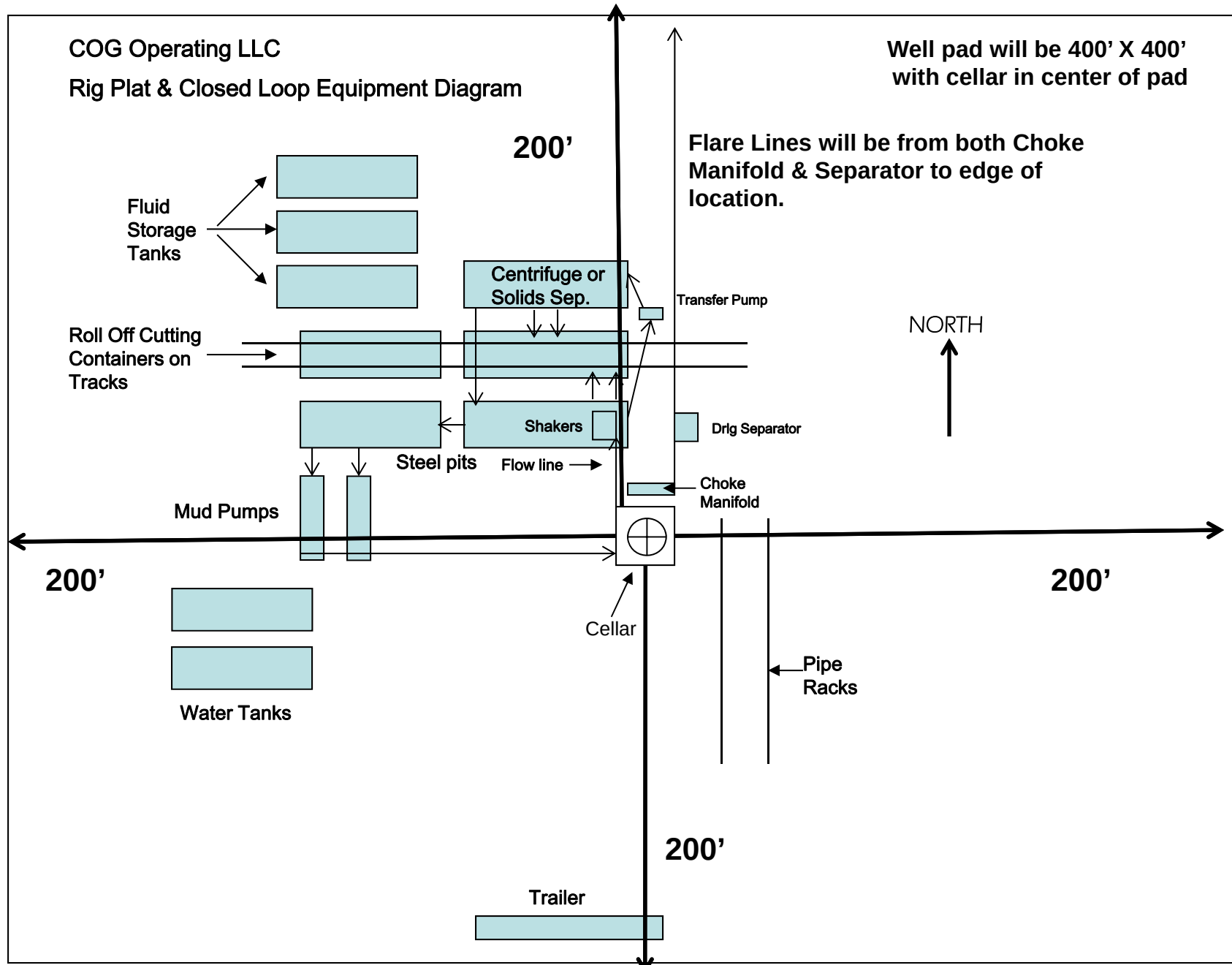


Exhibit 1

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