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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 286695

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

1. Operator Name and Address	2. OGRID Number
COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	229137
	3. API Number 30-015-47463

4. Property Code	5. Property Name	6. Well No.
329348	Potato Baby State Com	704H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
F	34	26S	28E	2	380	S	1385	W	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
C	22	26S	28E	C	200	N	2310	W	Eddy

9. Pool Information

PURPLE SAGE;WOLFCAMP (GAS)	98220

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	GAS		State	3083
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	21921	Wolfcamp		1/1/2021
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	14.375	10.375	45.5	825	550	0
Int1	9.875	7.625	29.7	8800	900	0
Prod	6.375	5.5	20	21921	1350	8300

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. **I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.** Signature:		**OIL CONSERVATION DIVISION**	
Printed Name:	Electronically filed by Diane Kuykendall	Approved By:	Scott Cox
Title:	Production Accounting Director	Title:	Petroleum Engineer Supervisor
Email Address:	dkuykendall@concho.com	Approved Date:	9/24/2020 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	2 Pool Code	3 Pool Name
30-015-	98220	Purple Sage; Wolfcamp (Gas)

4 Property Code	5 Property Name	6 Well Number
	POTATO BABY STATE COM	704H

7 OGRID No.	8 Operator Name	9 Elevation
229137	COG OPERATING LLC	3083'

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
2	34	26-S	28-E		380'	SOUTH	1385'	WEST	EDDY

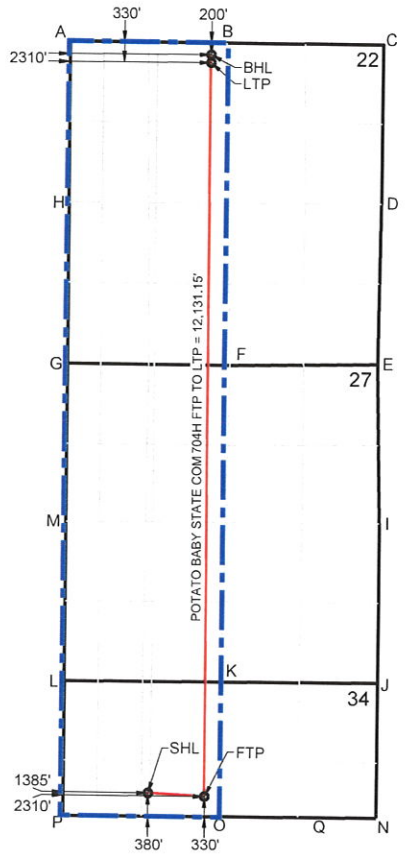
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	22	26-S	28-E		200'	NORTH	2310'	WEST	EDDY

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
767.52			

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.

16



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'
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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'
Q - FOUND IRON PIPE N:363840.86' E:622941.43'

LAST TAKE POINT (LTP)
NEW MEXICO EAST - NAD 83
X=621110.99
Y=376293.87
LAT.= 32.03425050° N
LONG.= 104.07589423° W
330' FNL, 2310' FWL
SECTION 22

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST - NAD 83
X=621110.44
Y=376423.87
LAT.= 32.03460787° N
LONG.= 104.07589499° W
200' FNL, 2310' FWL
SECTION 22

SURFACE HOLE LOCATION (SHL)
NEW MEXICO EAST - NAD 83
X=620213.41
Y=364208.64
LAT.= 32.00103443° N
LONG.= 104.07888262° W
380' FSL, 1385' FWL
SECTION 34

FIRST TAKE POINT (FTP)
NEW MEXICO EAST - NAD 83
X=621138.76
Y=364162.74
LAT.= 32.00090224° N
LONG.= 104.07589787° W
330' FSL, 2310' FWL
SECTION 34

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
07/08/2020
PROFESSIONAL SURVEYOR

Certificate Number

Intent [X] As Drilled [ ]

API #
30-015-

Operator Name:	Property Name:	Well Number
COG Operating LLC	Potato Baby State	704H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
F	34	26S	28E	2					Eddy

Latitude	Longitude	NAD
		83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
F	34	26S	28E	2	330	South	2310	West	Eddy

Latitude	Longitude	NAD
32.00090224	-104.07589787	NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	22	26S	28E		330	North	2310	West	Eddy

Latitude	Longitude	NAD
32.03425050	-104.07589423	NAD 83

Is this well the defining well for the Horizontal Spacing Unit? NO

Is this well an infill well? YES

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

API #
30-015-

Operator Name:	Property Name:	Well Number
COG Operating LLC	Potato Baby State	705H

KZ 06/29/2018

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GAS CAPTURE PLAN

Date: 9/24/2020

☒ Original

☐ Amended - Reason for Amendment:

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

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

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

Well(s)/Production Facility – Name of facility

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

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Potato Baby State Com #704H	30-015-47463	F-34-26S-28E	0380S 1385W	5700	None	Sec 35-Blk 57, T2, Culberson Co., Texas Red Bluff low pressure gathering system.

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

Form APD Comments

Permit 286695

PERMIT COMMENTS

Operator Name and Address:	API Number:
COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701	30-015-47463
	Well: Potato Baby State Com #704H

Created By	Comment	Comment Date

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

Form APD Conditions

Permit 286695

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701	30-015-47463
	Well: Potato Baby State Com #704H

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	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days
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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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	2 Pool Code	3 Pool Name
30-015-	98220	Purple Sage; Wolfcamp (Gas)

4 Property Code	5 Property Name	6 Well Number
	POTATO BABY STATE COM	704H

7 OGRID No.	8 Operator Name	9 Elevation
229137	COG OPERATING LLC	3083'

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
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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
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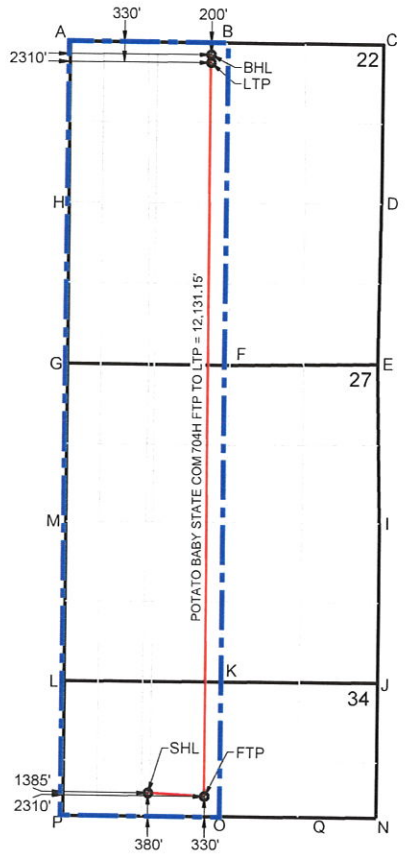
12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
767.52			

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.

16



CORNER DATA
NEW MEXICO EAST - NAD 83

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SURFACE HOLE LOCATION (SHL) NEW MEXICO EAST - NAD 83	FIRST TAKE POINT (FTP) NEW MEXICO EAST - NAD 83
X=620213.41 Y=364208.64 LAT.= 32.00103443° N LONG.= 104.07888262° W 380' FSL, 1385' FWL SECTION 34	X=621138.76 Y=364162.74 LAT.= 32.00090224° N LONG.= 104.07589787° W 330' FSL, 2310' FWL SECTION 34

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
07/08/2020
PROFESSIONAL SURVEYOR

Certificate Number

Intent [X] As Drilled [ ]

API #
30-015-

Operator Name:	Property Name:	Well Number
COG Operating LLC	Potato Baby State	704H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
F	34	26S	28E	2					Eddy

Latitude	Longitude	NAD
		83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
F	34	26S	28E	2	330	South	2310	West	Eddy

Latitude	Longitude	NAD
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Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	22	26S	28E		330	North	2310	West	Eddy

Latitude	Longitude	NAD
32.03425050	-104.07589423	NAD 83

Is this well the defining well for the Horizontal Spacing Unit? NO

Is this well an infill well? YES

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

API #
30-015-

Operator Name:	Property Name:	Well Number
COG Operating LLC	Potato Baby State	705H

KZ 06/29/2018

Potato Baby State Com #704H

Casing and Cement

String	Hole Size	Csg OD	PPF	Depth	Sx Cement	TOC
Surface	14 ¾”	10 ¾”	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#	21921’	1350	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 21921’ with OBM. Run 5-1/2” 23# P110 BTC casing from TD to surface and cement to 8300’ in one stage.

Well Control

Type	Working Pressure	Test Pressure	Manufacture
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 (H_2S).
b. The proper use and maintenance of personal protective equipment and life support systems.
c. The proper use of H_2S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
d. The proper techniques for first aid and rescue procedures.

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

a. The effects of H2S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
c. The contents and requirements of the H_2S Drilling Operations Plan and the Public Protection Plan.

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

2. H_2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H_2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H2S. If H2S greater than 100 ppm is encountered in the gas stream we will shut in and install H2S equipment.

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

b. Protective equipment for essential personnel:
Mark II Surviveair 30-minute units located in the dog house and at briefing areas.

c. H2S detection and monitoring equipment:
2 - portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.

d. Visual warning systems:
Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

e. Mud Program:
The mud program has been designed to minimize the volume of H2S circulated to the surface.

f. Metallurgy:
All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

g. Communication:
Company vehicles equipped with cellular telephone.

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

W A R N I N G

YOU ARE ENTERING AN H_2S AREA
AUTHORIZED PERSONNEL ONLY

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

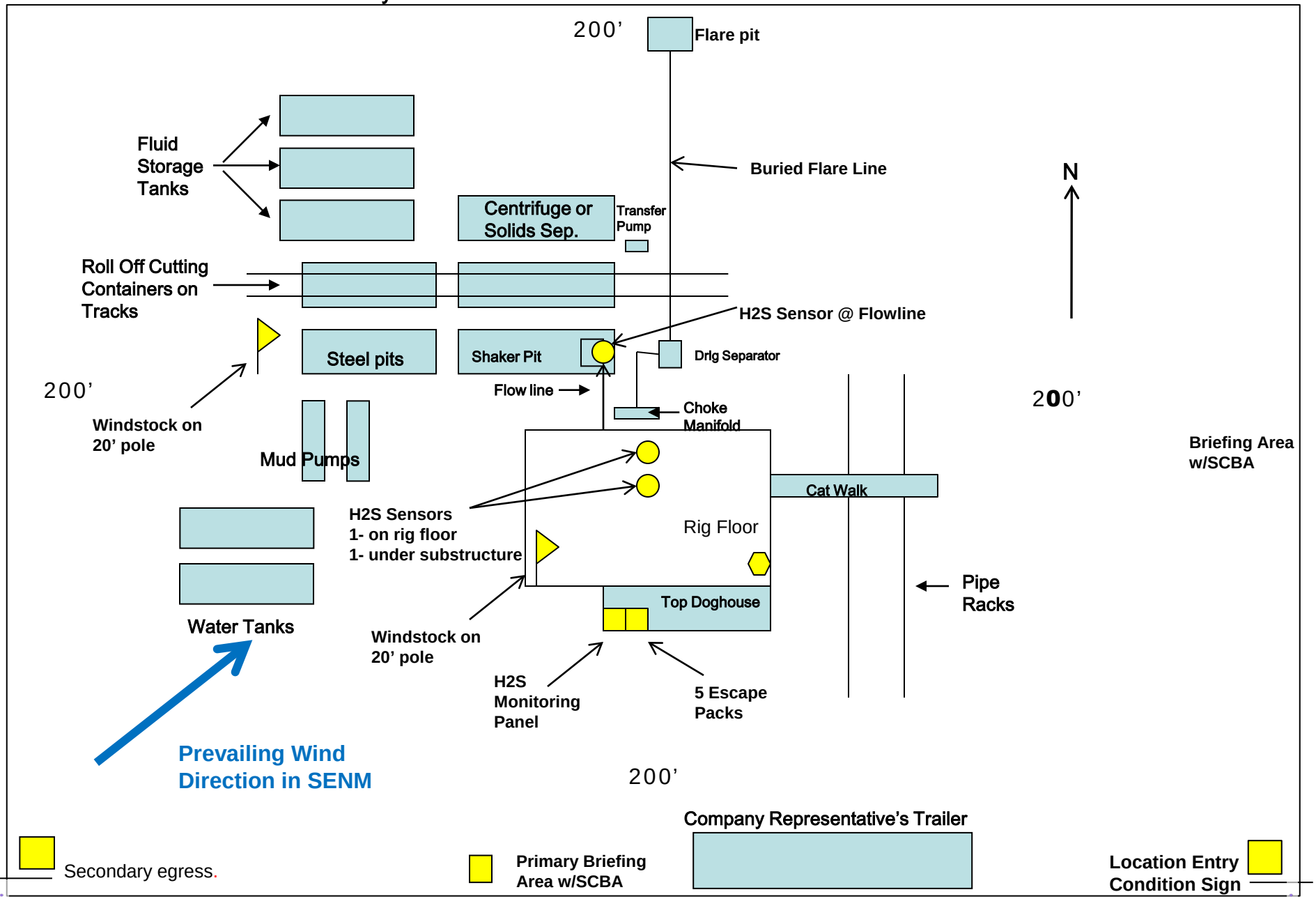
	OFFICE	MOBILE
COG OPERATING LLC OFFICE	575-748-6940	
SETH WILD	432-683-7443	432-528-3633
WALTER ROYE	575-748-6940	432-934-1886

EMERGENCY RESPONSE NUMBERS

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

CCC Operating LLC
H_2S 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 #704H

OWB
PWP2

Anticollision Report

22 July, 2020

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #704H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3113.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3113.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #704H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Reference PWP2

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** 7/22/2020

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	21,921.2	PWP2 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
POTATO BABY STATE PROJECT (ATLAS 2628)						
DIAMONDBACK 22 STATE COM #6H - OWB - ACTUAL						Out of range
POTATO BABY ST COM #703H - OWB - PWP2	16,881.0	16,936.2	682.6	539.8	4.781	CC
POTATO BABY ST COM #703H - OWB - PWP2	21,921.2	21,974.7	733.1	510.5	3.293	ES, SF
POTATO BABY ST COM #705H - OWB - PWP2	2,500.0	2,499.0	30.1	17.4	2.372	CC, ES, SF
POTATO BABY ST COM #706H - OWB - PWP2	2,500.0	2,499.0	60.0	41.5	3.249	CC, ES, SF

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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,950.0	9,616.6	10,227.9	9,619.6	34.3	34.7	89.46	473.1	1,712.4	990.4	921.4	68.99	14.356	
9,969.4	9,617.0	10,240.1	9,619.6	34.4	34.8	90.65	485.1	1,709.8	980.1	911.1	69.02	14.200	
10,000.0	9,617.1	10,259.7	9,619.6	34.4	34.8	90.66	504.2	1,705.9	964.2	895.1	69.07	13.959	
10,100.0	9,617.3	10,325.4	9,619.8	34.5	34.9	90.68	568.8	1,693.5	915.5	846.2	69.27	13.216	
10,200.0	9,617.5	10,400.0	9,619.9	34.6	35.1	90.70	642.3	1,681.3	871.9	802.4	69.50	12.545	
10,300.0	9,617.7	10,465.3	9,620.1	34.8	35.2	90.72	707.0	1,672.1	833.7	764.0	69.76	11.952	
10,400.0	9,617.9	10,538.8	9,620.2	35.0	35.3	90.74	780.0	1,663.6	801.2	731.2	70.06	11.436	
10,500.0	9,618.1	10,614.4	9,620.4	35.2	35.5	90.75	855.3	1,656.8	774.5	704.1	70.39	11.002	
10,600.0	9,618.3	10,700.0	9,620.6	35.4	35.7	90.77	940.7	1,651.5	753.9	683.1	70.78	10.650	
10,700.0	9,618.5	10,770.1	9,620.7	35.6	35.9	90.78	1,010.8	1,649.1	739.2	668.0	71.17	10.386	
10,800.0	9,618.7	10,852.6	9,620.9	35.8	36.1	90.79	1,093.2	1,648.4	730.7	659.1	71.60	10.205	
10,900.0	9,619.0	10,952.5	9,621.1	36.1	36.4	90.80	1,193.2	1,648.5	726.8	654.6	72.12	10.077	
10,963.9	9,619.1	11,016.4	9,621.2	36.3	36.6	90.80	1,257.1	1,648.5	726.0	653.6	72.47	10.019	
10,973.0	9,619.1	11,025.4	9,621.3	36.3	36.6	90.80	1,266.1	1,648.5	726.1	653.5	72.52	10.012	
11,000.0	9,619.2	11,052.5	9,621.3	36.4	36.7	90.80	1,293.2	1,648.5	726.1	653.5	72.67	9.992	
11,100.0	9,619.4	11,152.5	9,621.5	36.6	37.0	90.80	1,393.2	1,648.6	726.5	653.2	73.26	9.916	
11,200.0	9,619.6	11,252.5	9,621.7	36.9	37.3	90.80	1,493.2	1,648.7	726.8	652.9	73.88	9.837	
11,300.0	9,619.8	11,352.5	9,622.0	37.3	37.6	90.80	1,593.2	1,648.8	727.1	652.6	74.54	9.755	
11,400.0	9,620.0	11,452.5	9,622.2	37.6	38.0	90.80	1,693.2	1,648.9	727.4	652.2	75.23	9.669	
11,500.0	9,620.2	11,552.5	9,622.4	37.9	38.4	90.80	1,793.2	1,649.0	727.7	651.8	75.95	9.581	
11,600.0	9,620.4	11,653.8	9,622.6	38.3	38.8	90.80	1,894.4	1,649.0	728.0	651.3	76.71	9.490	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #704H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3113.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3113.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #704H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,700.0	9,620.6	11,753.8	9,622.8	38.7	39.2	90.80	1,994.4	1,648.9	728.1	650.6	77.50	9.395	
11,800.0	9,620.8	11,853.8	9,623.0	39.1	39.6	90.80	2,094.4	1,648.8	728.2	649.9	78.31	9.299	
11,900.0	9,621.0	11,953.8	9,623.2	39.5	40.0	90.80	2,194.4	1,648.7	728.4	649.2	79.16	9.202	
12,000.0	9,621.3	12,053.8	9,623.4	39.9	40.4	90.80	2,294.4	1,648.6	728.5	648.5	80.03	9.103	
12,100.0	9,621.5	12,153.8	9,623.6	40.4	40.9	90.80	2,394.4	1,648.5	728.7	647.7	80.93	9.004	
12,200.0	9,621.7	12,253.8	9,623.8	40.8	41.4	90.80	2,494.4	1,648.4	728.8	646.9	81.85	8.903	
12,300.0	9,621.9	12,353.8	9,624.0	41.3	41.9	90.80	2,594.4	1,648.3	728.9	646.1	82.81	8.803	
12,400.0	9,622.1	12,453.8	9,624.3	41.7	42.4	90.80	2,694.4	1,648.2	729.1	645.3	83.78	8.702	
12,500.0	9,622.3	12,553.8	9,624.5	42.2	42.9	90.80	2,794.4	1,648.1	729.2	644.4	84.78	8.601	
12,600.0	9,622.5	12,653.8	9,624.7	42.7	43.4	90.80	2,894.4	1,648.1	729.3	643.5	85.80	8.500	
12,700.0	9,622.7	12,753.8	9,624.9	43.2	43.9	90.80	2,994.4	1,648.0	729.5	642.6	86.85	8.400	
12,800.0	9,622.9	12,853.8	9,625.1	43.8	44.4	90.80	3,094.4	1,647.9	729.6	641.7	87.91	8.299	
12,900.0	9,623.1	12,953.8	9,625.3	44.3	45.0	90.80	3,194.4	1,647.8	729.8	640.8	89.00	8.200	
13,000.0	9,623.3	13,053.8	9,625.5	44.8	45.6	90.80	3,294.4	1,647.7	729.9	639.8	90.10	8.101	
13,100.0	9,623.6	13,153.8	9,625.7	45.4	46.1	90.80	3,394.4	1,647.6	730.0	638.8	91.23	8.002	
13,200.0	9,623.8	13,253.8	9,625.9	46.0	46.7	90.80	3,494.4	1,647.5	730.2	637.8	92.37	7.905	
13,300.0	9,624.0	13,353.8	9,626.1	46.5	47.3	90.80	3,594.4	1,647.4	730.3	636.8	93.53	7.808	
13,400.0	9,624.2	13,453.8	9,626.3	47.1	47.9	90.80	3,694.4	1,647.3	730.5	635.7	94.71	7.713	
13,500.0	9,624.4	13,553.8	9,626.5	47.7	48.5	90.80	3,794.4	1,647.2	730.6	634.7	95.90	7.618	
13,600.0	9,624.6	13,653.8	9,626.7	48.3	49.1	90.80	3,894.4	1,647.1	730.7	633.6	97.11	7.525	
13,700.0	9,624.8	13,753.8	9,627.0	48.9	49.7	90.80	3,994.4	1,647.0	730.9	632.5	98.34	7.432	
13,800.0	9,625.0	13,853.8	9,627.2	49.5	50.3	90.79	4,094.4	1,646.9	731.0	631.4	99.58	7.341	
13,900.0	9,625.2	13,953.8	9,627.4	50.1	51.0	90.79	4,194.4	1,646.9	731.1	630.3	100.83	7.251	
14,000.0	9,625.4	14,053.8	9,627.6	50.8	51.6	90.79	4,294.4	1,646.8	731.3	629.2	102.10	7.163	
14,100.0	9,625.6	14,153.8	9,627.8	51.4	52.2	90.79	4,394.4	1,646.7	731.4	628.0	103.38	7.075	
14,200.0	9,625.9	14,253.8	9,628.0	52.0	52.9	90.79	4,494.4	1,646.6	731.6	626.9	104.67	6.989	
14,300.0	9,626.1	14,368.4	9,628.2	52.7	53.6	90.80	4,609.1	1,644.8	730.2	624.2	106.05	6.885	
14,400.0	9,626.3	14,468.4	9,628.4	53.3	54.3	90.80	4,709.0	1,642.7	728.3	621.0	107.37	6.783	
14,500.0	9,626.5	14,568.4	9,628.6	54.0	55.0	90.80	4,809.0	1,640.6	726.5	617.8	108.70	6.683	
14,600.0	9,626.7	14,668.4	9,628.8	54.7	55.7	90.80	4,909.0	1,638.5	724.6	614.6	110.04	6.585	
14,700.0	9,626.9	14,768.4	9,629.1	55.3	56.3	90.80	5,008.9	1,636.4	722.7	611.3	111.39	6.488	
14,800.0	9,627.1	14,868.3	9,629.3	56.0	57.0	90.80	5,108.9	1,634.3	720.9	608.1	112.76	6.393	
14,900.0	9,627.3	14,968.3	9,629.5	56.7	57.7	90.81	5,208.8	1,632.2	719.0	604.9	114.13	6.300	
15,000.0	9,627.5	15,068.3	9,629.7	57.4	58.4	90.81	5,308.8	1,630.1	717.1	601.6	115.51	6.208	
15,100.0	9,627.7	15,168.3	9,629.9	58.0	59.1	90.81	5,408.8	1,628.0	715.3	598.4	116.90	6.119	
15,200.0	9,627.9	15,268.3	9,630.1	58.7	59.8	90.81	5,508.7	1,625.9	713.4	595.1	118.29	6.031	
15,300.0	9,628.2	15,368.2	9,630.3	59.4	60.5	90.81	5,608.7	1,623.8	711.5	591.8	119.70	5.944	
15,400.0	9,628.4	15,468.2	9,630.5	60.1	61.2	90.82	5,708.6	1,621.7	709.6	588.5	121.12	5.859	
15,500.0	9,628.6	15,568.2	9,630.7	60.8	61.9	90.82	5,808.6	1,619.6	707.8	585.2	122.54	5.776	
15,600.0	9,628.8	15,668.2	9,630.9	61.6	62.7	90.82	5,908.6	1,617.5	705.9	581.9	123.97	5.694	
15,700.0	9,629.0	15,768.2	9,631.1	62.3	63.4	90.82	6,008.5	1,615.4	704.0	578.6	125.41	5.614	
15,800.0	9,629.2	15,868.2	9,631.3	63.0	64.1	90.82	6,108.5	1,613.3	702.2	575.3	126.85	5.535	
15,900.0	9,629.4	15,968.1	9,631.5	63.7	64.8	90.82	6,208.4	1,611.2	700.3	572.0	128.30	5.458	
16,000.0	9,629.6	16,068.1	9,631.7	64.4	65.6	90.83	6,308.4	1,609.1	698.4	568.7	129.76	5.383	
16,100.0	9,629.8	16,168.1	9,631.9	65.2	66.3	90.83	6,408.4	1,607.0	696.6	565.3	131.22	5.308	
16,200.0	9,630.0	16,268.1	9,632.1	65.9	67.0	90.83	6,508.3	1,604.9	694.7	562.0	132.69	5.235	
16,300.0	9,630.2	16,368.1	9,632.3	66.6	67.8	90.83	6,608.3	1,602.8	692.8	558.7	134.17	5.164	
16,400.0	9,630.5	16,468.1	9,632.5	67.4	68.5	90.83	6,708.2	1,600.7	691.0	555.3	135.65	5.094	
16,500.0	9,630.7	16,568.0	9,632.8	68.1	69.3	90.84	6,808.2	1,598.6	689.1	552.0	137.14	5.025	
16,600.0	9,630.9	16,668.0	9,633.0	68.8	70.0	90.84	6,908.2	1,596.5	687.2	548.6	138.63	4.957	
16,700.0	9,631.1	16,768.0	9,633.2	69.6	70.8	90.84	7,008.1	1,594.4	685.4	545.2	140.13	4.891	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #704H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3113.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3113.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #704H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,800.0	9,631.3	16,868.0	9,633.4	70.3	71.5	90.84	7,108.1	1,592.3	683.5	541.9	141.63	4.826	
16,881.0	9,631.5	16,936.2	9,633.5	70.9	72.0	90.84	7,176.3	1,591.4	682.6	539.8	142.77	4.781	CC
16,900.0	9,631.5	16,951.6	9,633.5	71.1	72.2	90.84	7,191.6	1,591.4	682.6	539.6	143.03	4.773	
17,000.0	9,631.7	17,042.8	9,633.7	71.8	72.9	90.84	7,282.9	1,592.6	684.2	539.7	144.46	4.736	
17,100.0	9,631.9	17,142.8	9,633.9	72.6	73.6	90.84	7,382.9	1,594.2	686.0	540.0	145.97	4.699	
17,200.0	9,632.1	17,242.8	9,634.1	73.3	74.4	90.84	7,482.9	1,595.8	687.8	540.3	147.49	4.663	
17,300.0	9,632.3	17,342.8	9,634.4	74.1	75.1	90.83	7,582.8	1,597.4	689.6	540.6	149.01	4.628	
17,400.0	9,632.5	17,442.8	9,634.6	74.9	75.9	90.83	7,682.8	1,599.0	691.4	540.9	150.53	4.593	
17,500.0	9,632.8	17,542.8	9,634.8	75.6	76.6	90.83	7,782.8	1,600.5	693.2	541.2	152.06	4.559	
17,600.0	9,633.0	17,642.7	9,635.0	76.4	77.4	90.83	7,882.8	1,602.1	695.0	541.4	153.60	4.525	
17,700.0	9,633.2	17,742.7	9,635.2	77.2	78.2	90.82	7,982.7	1,603.7	696.8	541.7	155.14	4.492	
17,800.0	9,633.4	17,842.7	9,635.4	77.9	79.0	90.82	8,082.7	1,605.3	698.7	542.0	156.68	4.459	
17,900.0	9,633.6	17,942.7	9,635.6	78.7	79.7	90.82	8,182.7	1,606.9	700.5	542.2	158.22	4.427	
18,000.0	9,633.8	18,042.7	9,635.8	79.5	80.5	90.82	8,282.6	1,608.4	702.3	542.5	159.77	4.396	
18,100.0	9,634.0	18,142.7	9,636.0	80.2	81.3	90.82	8,382.6	1,610.0	704.1	542.8	161.32	4.365	
18,200.0	9,634.2	18,242.6	9,636.2	81.0	82.0	90.81	8,482.6	1,611.6	705.9	543.0	162.88	4.334	
18,300.0	9,634.4	18,342.6	9,636.4	81.8	82.8	90.81	8,582.5	1,613.2	707.7	543.3	164.43	4.304	
18,400.0	9,634.6	18,442.6	9,636.6	82.6	83.6	90.81	8,682.5	1,614.8	709.5	543.5	165.99	4.274	
18,500.0	9,634.8	18,542.6	9,636.8	83.4	84.4	90.81	8,782.5	1,616.3	711.3	543.8	167.56	4.245	
18,600.0	9,635.1	18,642.6	9,637.0	84.1	85.2	90.80	8,882.5	1,617.9	713.1	544.0	169.13	4.217	
18,700.0	9,635.3	18,742.6	9,637.2	84.9	85.9	90.80	8,982.4	1,619.5	715.0	544.3	170.70	4.188	
18,800.0	9,635.5	18,842.5	9,637.5	85.7	86.7	90.80	9,082.4	1,621.1	716.8	544.5	172.27	4.161	
18,900.0	9,635.7	18,942.5	9,637.7	86.5	87.5	90.80	9,182.4	1,622.7	718.6	544.7	173.85	4.133	
19,000.0	9,635.9	19,042.5	9,637.9	87.3	88.3	90.80	9,282.3	1,624.2	720.4	545.0	175.42	4.107	
19,100.0	9,636.1	19,142.5	9,638.1	88.1	89.1	90.79	9,382.3	1,625.8	722.2	545.2	177.00	4.080	
19,200.0	9,636.3	19,242.5	9,638.3	88.9	89.9	90.79	9,482.3	1,627.4	724.0	545.4	178.59	4.054	
19,300.0	9,636.5	19,353.5	9,638.5	89.7	90.8	90.79	9,593.3	1,628.7	725.4	545.2	180.28	4.024	
19,400.0	9,636.7	19,453.5	9,638.7	90.5	91.6	90.79	9,693.3	1,628.8	725.7	543.9	181.87	3.990	
19,500.0	9,636.9	19,553.5	9,638.9	91.3	92.4	90.79	9,793.3	1,628.8	726.0	542.6	183.46	3.957	
19,600.0	9,637.1	19,653.5	9,639.1	92.1	93.2	90.79	9,893.3	1,628.9	726.3	541.3	185.06	3.925	
19,700.0	9,637.4	19,753.5	9,639.3	92.8	94.0	90.79	9,993.3	1,628.9	726.6	540.0	186.65	3.893	
19,800.0	9,637.6	19,853.5	9,639.6	93.6	94.8	90.79	10,093.3	1,629.0	726.9	538.7	188.25	3.861	
19,900.0	9,637.8	19,953.5	9,639.8	94.4	95.6	90.79	10,193.3	1,629.1	727.2	537.3	189.86	3.830	
20,000.0	9,638.0	20,053.5	9,640.0	95.2	96.4	90.79	10,293.3	1,629.1	727.5	536.0	191.46	3.800	
20,100.0	9,638.2	20,153.5	9,640.2	96.0	97.2	90.79	10,393.3	1,629.2	727.8	534.7	193.06	3.770	
20,200.0	9,638.4	20,253.5	9,640.4	96.9	98.0	90.79	10,493.3	1,629.2	728.1	533.4	194.67	3.740	
20,300.0	9,638.6	20,353.5	9,640.6	97.7	98.8	90.79	10,593.3	1,629.3	728.4	532.1	196.28	3.711	
20,400.0	9,638.8	20,453.5	9,640.8	98.5	99.6	90.79	10,693.3	1,629.4	728.7	530.8	197.89	3.682	
20,500.0	9,639.0	20,553.5	9,641.0	99.3	100.4	90.79	10,793.3	1,629.4	729.0	529.5	199.50	3.654	
20,600.0	9,639.2	20,653.5	9,641.2	100.1	101.2	90.79	10,893.3	1,629.5	729.2	528.1	201.12	3.626	
20,700.0	9,639.4	20,753.5	9,641.4	100.9	102.0	90.79	10,993.3	1,629.6	729.5	526.8	202.74	3.598	
20,800.0	9,639.7	20,853.5	9,641.6	101.7	102.8	90.78	11,093.3	1,629.6	729.8	525.5	204.35	3.571	
20,900.0	9,639.9	20,953.5	9,641.9	102.5	103.6	90.78	11,193.3	1,629.7	730.1	524.2	205.97	3.545	
21,000.0	9,640.1	21,053.5	9,642.1	103.3	104.4	90.78	11,293.3	1,629.7	730.4	522.8	207.59	3.518	
21,100.0	9,640.3	21,153.5	9,642.3	104.1	105.2	90.78	11,393.3	1,629.8	730.7	521.5	209.22	3.493	
21,200.0	9,640.5	21,253.5	9,642.5	104.9	106.0	90.78	11,493.3	1,629.9	731.0	520.2	210.84	3.467	
21,300.0	9,640.7	21,353.5	9,642.7	105.7	106.9	90.78	11,593.3	1,629.9	731.3	518.8	212.47	3.442	
21,400.0	9,640.9	21,453.5	9,642.9	106.5	107.7	90.78	11,693.3	1,630.0	731.6	517.5	214.09	3.417	
21,500.0	9,641.1	21,553.5	9,643.1	107.4	108.5	90.78	11,793.3	1,630.0	731.9	516.2	215.72	3.393	
21,600.0	9,641.3	21,653.5	9,643.3	108.2	109.3	90.78	11,893.3	1,630.1	732.2	514.8	217.35	3.369	
21,700.0	9,641.5	21,753.5	9,643.5	109.0	110.1	90.78	11,993.3	1,630.2	732.5	513.5	218.98	3.345	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #704H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3113.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3113.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #704H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
21,800.0	9,641.7	21,853.5	9,643.7	109.8	110.9	90.78	12,093.3	1,630.2	732.8	512.1	220.62	3.321	
21,900.0	9,642.0	21,953.5	9,644.0	110.6	111.8	90.78	12,193.3	1,630.3	733.0	510.8	222.25	3.298	
21,921.2	9,642.0	21,974.7	9,644.0	110.8	111.9	90.78	12,214.5	1,630.3	733.1	510.5	222.60	3.293	ES, SF

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #704H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3113.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3113.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #704H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #705H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8877-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-90.46	-0.2	-30.1	30.1				
100.0	100.0	99.0	99.0	3.0	3.0	-90.46	-0.2	-30.1	30.1	24.1	6.00	5.010	
200.0	200.0	199.0	199.0	3.0	3.0	-90.46	-0.2	-30.1	30.1	24.0	6.04	4.978	
300.0	300.0	299.0	299.0	3.1	3.0	-90.46	-0.2	-30.1	30.1	24.0	6.12	4.913	
400.0	400.0	399.0	399.0	3.2	3.0	-90.46	-0.2	-30.1	30.1	23.8	6.24	4.819	
500.0	500.0	499.0	499.0	3.4	3.1	-90.46	-0.2	-30.1	30.1	23.7	6.40	4.701	
600.0	600.0	599.0	599.0	3.6	3.1	-90.46	-0.2	-30.1	30.1	23.5	6.58	4.567	
700.0	700.0	699.0	699.0	3.8	3.1	-90.46	-0.2	-30.1	30.1	23.3	6.80	4.423	
800.0	800.0	799.0	799.0	4.0	3.2	-90.46	-0.2	-30.1	30.1	23.0	7.04	4.274	
900.0	900.0	899.0	899.0	4.2	3.2	-90.46	-0.2	-30.1	30.1	22.8	7.29	4.123	
1,000.0	1,000.0	999.0	999.0	4.5	3.2	-90.46	-0.2	-30.1	30.1	22.5	7.57	3.973	
1,100.0	1,100.0	1,099.0	1,099.0	4.8	3.3	-90.46	-0.2	-30.1	30.1	22.2	7.86	3.827	
1,200.0	1,200.0	1,199.0	1,199.0	5.1	3.4	-90.46	-0.2	-30.1	30.1	21.9	8.16	3.686	
1,300.0	1,300.0	1,299.0	1,299.0	5.3	3.4	-90.46	-0.2	-30.1	30.1	21.6	8.47	3.551	
1,400.0	1,400.0	1,399.0	1,399.0	5.6	3.5	-90.46	-0.2	-30.1	30.1	21.3	8.79	3.421	
1,500.0	1,500.0	1,499.0	1,499.0	6.0	3.5	-90.46	-0.2	-30.1	30.1	21.0	9.12	3.298	
1,600.0	1,600.0	1,599.0	1,599.0	6.3	3.6	-90.46	-0.2	-30.1	30.1	20.6	9.45	3.181	
1,700.0	1,700.0	1,699.0	1,699.0	6.6	3.7	-90.46	-0.2	-30.1	30.1	20.3	9.79	3.070	
1,800.0	1,800.0	1,799.0	1,799.0	6.9	3.8	-90.46	-0.2	-30.1	30.1	19.9	10.14	2.965	
1,900.0	1,900.0	1,899.0	1,899.0	7.2	3.9	-90.46	-0.2	-30.1	30.1	19.6	10.49	2.866	
2,000.0	2,000.0	1,999.0	1,999.0	7.6	3.9	-90.46	-0.2	-30.1	30.1	19.2	10.85	2.772	
2,100.0	2,100.0	2,099.0	2,099.0	7.9	4.0	-90.46	-0.2	-30.1	30.1	18.9	11.21	2.683	
2,200.0	2,200.0	2,199.0	2,199.0	8.2	4.1	-90.46	-0.2	-30.1	30.1	18.5	11.57	2.599	
2,300.0	2,300.0	2,299.0	2,299.0	8.6	4.2	-90.46	-0.2	-30.1	30.1	18.1	11.94	2.519	
2,400.0	2,400.0	2,399.0	2,399.0	8.9	4.3	-90.46	-0.2	-30.1	30.1	17.8	12.31	2.444	
2,500.0	2,500.0	2,499.0	2,499.0	9.2	4.4	-90.46	-0.2	-30.1	30.1	17.4	12.68	2.372	CC, ES, SF
2,600.0	2,600.0	2,599.0	2,599.0	9.6	4.5	155.89	-0.2	-30.1	31.7	18.6	13.04	2.428	
2,700.0	2,699.8	2,698.8	2,698.8	9.9	4.6	159.21	-0.2	-30.1	36.5	23.1	13.40	2.723	
2,750.0	2,749.7	2,748.7	2,748.7	10.0	4.6	161.17	-0.2	-30.1	40.2	26.6	13.59	2.958	
2,800.0	2,799.5	2,798.5	2,798.5	10.2	4.7	162.99	-0.2	-30.1	44.3	30.6	13.78	3.218	
2,900.0	2,899.1	2,898.1	2,898.1	10.5	4.8	165.76	-0.2	-30.1	52.7	38.6	14.16	3.725	
3,000.0	2,998.7	2,997.7	2,997.7	10.8	4.9	167.77	-0.2	-30.1	61.2	46.7	14.54	4.209	
3,100.0	3,098.4	3,097.4	3,097.4	11.2	5.0	169.28	-0.2	-30.1	69.8	54.8	14.93	4.672	
3,200.0	3,198.0	3,197.0	3,197.0	11.5	5.1	170.47	-0.2	-30.1	78.3	63.0	15.32	5.113	
3,300.0	3,297.6	3,296.6	3,296.6	11.8	5.2	171.42	-0.2	-30.1	87.0	71.2	15.72	5.533	
3,400.0	3,397.2	3,396.2	3,396.2	12.2	5.3	172.20	-0.2	-30.1	95.6	79.5	16.11	5.933	
3,500.0	3,496.8	3,495.8	3,495.8	12.5	5.4	172.85	-0.2	-30.1	104.2	87.7	16.51	6.314	
3,600.0	3,596.4	3,595.4	3,595.4	12.9	5.5	173.40	-0.2	-30.1	112.9	96.0	16.91	6.677	
3,700.0	3,696.1	3,695.1	3,695.1	13.2	5.6	173.87	-0.2	-30.1	121.5	104.2	17.31	7.023	
3,800.0	3,795.7	3,794.7	3,794.7	13.5	5.8	174.28	-0.2	-30.1	130.2	112.5	17.71	7.353	
3,900.0	3,895.3	3,894.3	3,894.3	13.9	5.9	174.64	-0.2	-30.1	138.9	120.8	18.11	7.668	
4,000.0	3,994.9	3,993.9	3,993.9	14.2	6.0	174.96	-0.2	-30.1	147.6	129.0	18.52	7.969	
4,100.0	4,094.5	4,093.5	4,093.5	14.6	6.1	175.24	-0.2	-30.1	156.2	137.3	18.92	8.257	
4,200.0	4,194.2	4,193.2	4,193.2	14.9	6.2	175.49	-0.2	-30.1	164.9	145.6	19.33	8.532	
4,300.0	4,293.8	4,292.8	4,292.8	15.3	6.3	175.71	-0.2	-30.1	173.6	153.9	19.74	8.795	
4,400.0	4,393.4	4,392.4	4,392.4	15.6	6.4	175.92	-0.2	-30.1	182.3	162.2	20.15	9.047	
4,500.0	4,493.0	4,492.0	4,492.0	16.0	6.6	176.11	-0.2	-30.1	191.0	170.4	20.56	9.289	
4,600.0	4,592.6	4,591.6	4,591.6	16.3	6.7	176.27	-0.2	-30.1	199.7	178.7	20.98	9.520	
4,700.0	4,692.3	4,691.3	4,691.3	16.6	6.8	176.43	-0.2	-30.1	208.4	187.0	21.39	9.743	
4,800.0	4,791.9	4,790.9	4,790.9	17.0	6.9	176.57	-0.2	-30.1	217.1	195.3	21.81	9.956	
4,900.0	4,891.5	4,890.5	4,890.5	17.3	7.0	176.71	-0.2	-30.1	225.8	203.6	22.22	10.161	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #704H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3113.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3113.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #704H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #705H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8877-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,991.1	4,990.1	4,990.1	17.7	7.2	176.83	-0.2	-30.1	234.5	211.9	22.64	10.358	
5,100.0	5,090.7	5,089.7	5,089.7	18.1	7.3	176.94	-0.2	-30.1	243.2	220.2	23.06	10.547	
5,200.0	5,190.4	5,189.4	5,189.4	18.4	7.4	177.05	-0.2	-30.1	251.9	228.4	23.48	10.729	
5,300.0	5,290.0	5,289.0	5,289.0	18.8	7.5	177.15	-0.2	-30.1	260.6	236.7	23.90	10.905	
5,400.0	5,389.6	5,388.6	5,388.6	19.1	7.6	177.24	-0.2	-30.1	269.3	245.0	24.32	11.074	
5,500.0	5,489.2	5,488.2	5,488.2	19.5	7.8	177.33	-0.2	-30.1	278.0	253.3	24.74	11.237	
5,600.0	5,588.8	5,593.7	5,593.6	19.8	7.8	177.17	-1.7	-29.6	285.8	260.7	25.15	11.365	
5,700.0	5,688.5	5,699.6	5,699.5	20.2	7.8	176.43	-6.9	-28.1	291.4	265.9	25.51	11.424	
5,800.0	5,788.1	5,799.4	5,799.0	20.5	7.7	175.50	-13.3	-26.2	296.0	270.2	25.85	11.450	
5,900.0	5,887.7	5,899.2	5,898.6	20.9	7.7	174.61	-19.8	-24.4	300.7	274.5	26.21	11.475	
6,000.0	5,987.3	5,999.0	5,998.1	21.2	7.6	173.74	-26.2	-22.5	305.5	278.9	26.57	11.499	
6,100.0	6,086.9	6,098.7	6,097.7	21.6	7.6	172.90	-32.7	-20.6	310.3	283.4	26.93	11.522	
6,200.0	6,186.6	6,198.5	6,197.2	21.9	7.6	172.08	-39.1	-18.7	315.2	287.9	27.31	11.544	
6,300.0	6,286.2	6,298.3	6,296.8	22.3	7.5	171.29	-45.6	-16.8	320.2	292.5	27.69	11.566	
6,400.0	6,385.8	6,398.1	6,396.3	22.7	7.5	170.53	-52.0	-15.0	325.2	297.2	28.07	11.586	
6,500.0	6,485.4	6,497.9	6,495.9	23.0	7.5	169.79	-58.4	-13.1	330.3	301.9	28.46	11.606	
6,600.0	6,585.0	6,597.6	6,595.4	23.4	7.4	169.07	-64.9	-11.2	335.5	306.6	28.85	11.626	
6,700.0	6,684.7	6,697.4	6,695.0	23.7	7.4	168.37	-71.3	-9.3	340.6	311.4	29.25	11.645	
6,800.0	6,784.3	6,797.2	6,794.6	24.1	7.4	167.69	-77.8	-7.4	345.9	316.2	29.65	11.664	
6,900.0	6,883.9	6,897.0	6,894.1	24.4	7.4	167.03	-84.2	-5.6	351.2	321.1	30.06	11.682	
7,000.0	6,983.5	6,996.8	6,993.7	24.8	7.4	166.40	-90.7	-3.7	356.5	326.0	30.47	11.700	
7,100.0	7,083.1	7,096.5	7,093.2	25.2	7.4	165.78	-97.1	-1.8	361.9	331.0	30.88	11.718	
7,200.0	7,182.7	7,196.3	7,192.8	25.5	7.3	165.18	-103.5	0.1	367.3	336.0	31.30	11.736	
7,300.0	7,282.4	7,296.1	7,292.3	25.9	7.3	164.60	-110.0	2.0	372.7	341.0	31.71	11.753	
7,400.0	7,382.0	7,395.9	7,391.9	26.2	7.3	164.03	-116.4	3.8	378.2	346.1	32.13	11.771	
7,500.0	7,481.6	7,495.7	7,491.4	26.6	7.3	163.48	-122.9	5.7	383.7	351.2	32.55	11.788	
7,600.0	7,581.2	7,595.4	7,591.0	27.0	7.3	162.95	-129.3	7.6	389.3	356.3	32.98	11.805	
7,700.0	7,680.8	7,695.2	7,690.5	27.3	7.3	162.43	-135.8	9.5	394.9	361.5	33.40	11.822	
7,800.0	7,780.5	7,795.0	7,790.1	27.7	7.3	161.92	-142.2	11.4	400.5	366.7	33.83	11.839	
7,900.0	7,880.1	7,894.8	7,889.7	28.0	7.3	161.43	-148.6	13.2	406.2	371.9	34.26	11.856	
8,000.0	7,979.7	7,994.6	7,989.2	28.4	7.3	160.96	-155.1	15.1	411.8	377.2	34.69	11.873	
8,100.0	8,079.3	8,094.4	8,088.8	28.8	7.3	160.49	-161.5	17.0	417.5	382.4	35.12	11.890	
8,200.0	8,178.9	8,194.1	8,188.3	29.1	7.3	160.04	-168.0	18.9	423.3	387.7	35.55	11.907	
8,300.0	8,278.6	8,293.9	8,287.9	29.5	7.4	159.60	-174.4	20.8	429.0	393.1	35.98	11.924	
8,400.0	8,378.2	8,393.7	8,387.4	29.8	7.4	159.17	-180.9	22.6	434.8	398.4	36.42	11.941	
8,500.0	8,477.8	8,493.5	8,487.0	30.2	7.4	158.76	-187.3	24.5	440.6	403.8	36.85	11.957	
8,600.0	8,577.4	8,593.3	8,586.5	30.6	7.4	158.35	-193.7	26.4	446.5	409.2	37.29	11.974	
8,700.0	8,677.0	8,693.0	8,686.1	30.9	7.4	157.96	-200.2	28.3	452.3	414.6	37.72	11.991	
8,800.0	8,776.7	8,792.8	8,785.7	31.3	7.5	157.57	-206.6	30.2	458.2	420.0	38.16	12.007	
8,900.0	8,876.3	8,892.6	8,885.2	31.6	7.5	157.20	-213.1	32.0	464.1	425.5	38.57	12.034	
9,000.0	8,975.9	8,992.4	8,984.8	32.0	7.6	156.83	-219.5	33.9	470.0	431.1	38.95	12.067	
9,066.2	9,041.8	9,056.9	9,049.2	32.2	7.6	156.90	-221.2	35.1	474.0	434.8	39.20	12.091	
9,100.0	9,075.5	9,089.5	9,081.8	32.4	7.6	-167.06	-219.4	35.7	476.5	437.1	39.33	12.113	
9,150.0	9,125.1	9,137.4	9,129.3	32.5	7.6	-138.97	-213.3	36.6	481.4	441.8	39.53	12.178	
9,200.0	9,174.0	9,184.9	9,175.7	32.7	7.6	-127.03	-203.4	37.5	487.7	448.0	39.72	12.279	
9,250.0	9,222.0	9,231.9	9,220.7	32.9	7.7	-120.49	-189.8	38.3	495.5	455.6	39.91	12.415	
9,300.0	9,268.7	9,278.5	9,264.0	33.0	7.7	-116.11	-172.8	39.0	504.6	464.5	40.10	12.583	
9,350.0	9,313.7	9,324.6	9,305.4	33.2	7.8	-112.76	-152.5	39.8	515.0	474.7	40.30	12.780	
9,400.0	9,356.6	9,370.3	9,344.7	33.3	7.8	-109.97	-129.2	40.5	526.5	486.1	40.49	13.005	
9,450.0	9,397.2	9,415.6	9,381.7	33.5	7.9	-107.51	-103.2	41.1	539.2	498.5	40.68	13.254	
9,500.0	9,435.1	9,460.4	9,416.2	33.6	7.9	-105.25	-74.5	41.7	552.8	511.9	40.87	13.526	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #704H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3113.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3113.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #704H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #705H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8877-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,550.0	9,470.0	9,505.0	9,448.1	33.7	8.0	-103.14	-43.5	42.2	567.3	526.2	41.06	13.816	
9,600.0	9,501.7	9,550.0	9,477.8	33.8	8.1	-101.13	-9.6	42.7	582.5	541.2	41.25	14.121	
9,650.0	9,530.0	9,593.2	9,503.7	33.9	8.1	-99.20	24.9	43.1	598.4	556.9	41.44	14.438	
9,700.0	9,554.5	9,637.0	9,527.3	34.0	8.2	-97.36	61.8	43.4	614.7	573.1	41.64	14.764	
9,750.0	9,575.2	9,680.8	9,548.0	34.1	8.3	-95.59	100.4	43.7	631.5	589.7	41.83	15.096	
9,800.0	9,591.9	9,724.5	9,565.6	34.1	8.3	-93.90	140.4	44.0	648.5	606.5	42.03	15.429	
9,850.0	9,604.4	9,768.3	9,580.2	34.2	8.4	-92.30	181.7	44.1	665.7	623.5	42.24	15.761	
9,900.0	9,612.7	9,812.3	9,591.6	34.3	8.5	-90.78	224.2	44.3	682.9	640.5	42.45	16.089	
9,950.0	9,616.6	9,856.6	9,599.8	34.3	8.5	-89.36	267.6	44.3	700.0	657.4	42.66	16.409	
9,969.4	9,617.0	9,873.8	9,602.1	34.4	8.6	-88.84	284.7	44.3	706.6	663.9	42.75	16.530	
10,000.0	9,617.1	9,901.3	9,604.6	34.4	8.7	-89.07	312.1	44.3	716.9	674.0	42.88	16.717	
10,100.0	9,617.3	9,994.5	9,606.1	34.5	9.0	-89.22	405.3	44.1	748.5	705.1	43.38	17.253	
10,200.0	9,617.5	10,090.4	9,606.3	34.6	9.5	-89.25	501.2	43.9	776.8	732.9	43.97	17.666	
10,300.0	9,617.7	10,187.2	9,606.5	34.8	10.0	-89.28	598.0	43.7	801.8	757.2	44.63	17.965	
10,400.0	9,617.9	10,284.9	9,606.7	35.0	10.5	-89.30	695.6	43.5	823.4	778.0	45.35	18.155	
10,500.0	9,618.1	10,383.2	9,606.9	35.2	11.1	-89.32	794.0	43.2	841.5	795.4	46.13	18.241	
10,600.0	9,618.3	10,482.1	9,607.1	35.4	11.8	-89.33	892.9	43.0	856.2	809.2	46.96	18.231	
10,700.0	9,618.5	10,581.5	9,607.3	35.6	12.4	-89.33	992.2	42.8	867.5	819.6	47.84	18.132	
10,800.0	9,618.7	10,681.2	9,607.5	35.8	13.1	-89.34	1,091.9	42.6	875.2	826.5	48.76	17.949	
10,900.0	9,619.0	10,781.1	9,607.7	36.1	13.9	-89.34	1,191.8	42.3	879.5	829.8	49.72	17.690	
10,973.0	9,619.1	10,854.0	9,607.9	36.3	14.4	-89.34	1,264.8	42.2	880.4	830.0	50.44	17.456	
11,000.0	9,619.2	10,881.1	9,608.0	36.4	14.6	-89.34	1,291.8	42.1	880.4	829.7	50.71	17.363	
11,100.0	9,619.4	10,981.1	9,608.2	36.6	15.3	-89.34	1,391.8	41.9	880.4	828.7	51.73	17.020	
11,200.0	9,619.6	11,081.1	9,608.4	36.9	16.1	-89.34	1,491.8	41.6	880.4	827.6	52.78	16.681	
11,300.0	9,619.8	11,181.1	9,608.6	37.3	16.8	-89.34	1,591.8	41.4	880.4	826.6	53.86	16.347	
11,400.0	9,620.0	11,281.1	9,608.8	37.6	17.6	-89.34	1,691.8	41.2	880.4	825.5	54.96	16.018	
11,500.0	9,620.2	11,381.1	9,609.0	37.9	18.4	-89.34	1,791.8	41.0	880.4	824.3	56.09	15.695	
11,600.0	9,620.4	11,481.1	9,609.2	38.3	19.2	-89.34	1,891.8	40.7	880.4	823.2	57.25	15.379	
11,700.0	9,620.6	11,581.1	9,609.4	38.7	20.0	-89.34	1,991.8	40.5	880.4	822.0	58.42	15.070	
11,800.0	9,620.8	11,681.1	9,609.6	39.1	20.8	-89.34	2,091.8	40.3	880.4	820.8	59.62	14.768	
11,900.0	9,621.0	11,781.1	9,609.9	39.5	21.6	-89.34	2,191.8	40.1	880.4	819.6	60.83	14.473	
12,000.0	9,621.3	11,881.1	9,610.1	39.9	22.4	-89.34	2,291.8	39.8	880.4	818.3	62.06	14.186	
12,100.0	9,621.5	11,981.1	9,610.3	40.4	23.2	-89.34	2,391.8	39.6	880.4	817.1	63.31	13.906	
12,200.0	9,621.7	12,081.1	9,610.5	40.8	24.0	-89.34	2,491.8	39.4	880.4	815.8	64.58	13.633	
12,300.0	9,621.9	12,181.1	9,610.7	41.3	24.8	-89.34	2,591.8	39.1	880.4	814.5	65.86	13.367	
12,400.0	9,622.1	12,281.1	9,610.9	41.7	25.6	-89.34	2,691.8	38.9	880.4	813.2	67.16	13.109	
12,500.0	9,622.3	12,381.1	9,611.1	42.2	26.5	-89.34	2,791.8	38.7	880.4	811.9	68.47	12.857	
12,600.0	9,622.5	12,481.1	9,611.3	42.7	27.3	-89.34	2,891.8	38.5	880.4	810.6	69.80	12.613	
12,700.0	9,622.7	12,581.1	9,611.5	43.2	28.1	-89.34	2,991.8	38.2	880.4	809.2	71.14	12.375	
12,800.0	9,622.9	12,681.1	9,611.8	43.8	28.9	-89.34	3,091.8	38.0	880.4	807.9	72.50	12.144	
12,900.0	9,623.1	12,781.1	9,612.0	44.3	29.8	-89.34	3,191.8	37.8	880.4	806.5	73.86	11.919	
13,000.0	9,623.3	12,881.1	9,612.2	44.8	30.6	-89.34	3,291.8	37.6	880.4	805.1	75.24	11.701	
13,100.0	9,623.6	12,981.1	9,612.4	45.4	31.4	-89.34	3,391.8	37.3	880.4	803.7	76.63	11.489	
13,200.0	9,623.8	13,081.1	9,612.6	46.0	32.3	-89.34	3,491.8	37.1	880.4	802.3	78.03	11.283	
13,300.0	9,624.0	13,181.1	9,612.8	46.5	33.1	-89.34	3,591.8	36.9	880.4	800.9	79.44	11.083	
13,400.0	9,624.2	13,281.1	9,613.0	47.1	34.0	-89.34	3,691.8	36.6	880.3	799.5	80.85	10.888	
13,500.0	9,624.4	13,381.1	9,613.2	47.7	34.8	-89.34	3,791.8	36.4	880.3	798.1	82.28	10.699	
13,600.0	9,624.6	13,481.1	9,613.4	48.3	35.6	-89.34	3,891.8	36.2	880.3	796.6	83.72	10.515	
13,700.0	9,624.8	13,581.1	9,613.7	48.9	36.5	-89.34	3,991.8	36.0	880.3	795.2	85.17	10.336	
13,800.0	9,625.0	13,681.1	9,613.9	49.5	37.3	-89.34	4,091.8	35.7	880.3	793.7	86.62	10.163	
13,900.0	9,625.2	13,781.1	9,614.1	50.1	38.2	-89.34	4,191.8	35.5	880.3	792.2	88.09	9.994	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #704H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3113.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3113.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #704H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #705H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8877-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.0	9,625.4	13,881.1	9,614.3	50.8	39.0	-89.34	4,291.8	35.3	880.3	790.8	89.56	9.830	
14,100.0	9,625.6	13,981.1	9,614.5	51.4	39.8	-89.34	4,391.8	35.1	880.3	789.3	91.04	9.670	
14,200.0	9,625.9	14,081.1	9,614.7	52.0	40.7	-89.34	4,491.8	34.8	880.3	787.8	92.52	9.515	
14,300.0	9,626.1	14,181.1	9,614.9	52.7	41.5	-89.34	4,591.8	34.6	880.3	786.3	94.01	9.364	
14,400.0	9,626.3	14,281.1	9,615.1	53.3	42.4	-89.34	4,691.8	34.4	880.3	784.8	95.51	9.217	
14,500.0	9,626.5	14,381.1	9,615.3	54.0	43.2	-89.34	4,791.8	34.1	880.3	783.3	97.02	9.074	
14,600.0	9,626.7	14,481.1	9,615.5	54.7	44.1	-89.34	4,891.8	33.9	880.3	781.8	98.53	8.934	
14,700.0	9,626.9	14,581.1	9,615.8	55.3	44.9	-89.34	4,991.8	33.7	880.3	780.3	100.05	8.799	
14,800.0	9,627.1	14,681.1	9,616.0	56.0	45.8	-89.34	5,091.8	33.5	880.3	778.7	101.57	8.667	
14,900.0	9,627.3	14,781.1	9,616.2	56.7	46.6	-89.34	5,191.8	33.2	880.3	777.2	103.10	8.538	
15,000.0	9,627.5	14,881.1	9,616.4	57.4	47.5	-89.34	5,291.8	33.0	880.3	775.7	104.63	8.413	
15,100.0	9,627.7	14,981.1	9,616.6	58.0	48.3	-89.34	5,391.8	32.8	880.3	774.1	106.17	8.291	
15,200.0	9,627.9	15,081.1	9,616.8	58.7	49.2	-89.34	5,491.8	32.6	880.3	772.6	107.71	8.172	
15,300.0	9,628.2	15,181.1	9,617.0	59.4	50.0	-89.34	5,591.8	32.3	880.3	771.0	109.26	8.057	
15,400.0	9,628.4	15,281.1	9,617.2	60.1	50.9	-89.34	5,691.8	32.1	880.3	769.5	110.81	7.944	
15,500.0	9,628.6	15,381.1	9,617.4	60.8	51.7	-89.34	5,791.8	31.9	880.3	767.9	112.37	7.834	
15,600.0	9,628.8	15,481.1	9,617.7	61.6	52.6	-89.34	5,891.8	31.6	880.3	766.3	113.93	7.726	
15,700.0	9,629.0	15,581.1	9,617.9	62.3	53.4	-89.34	5,991.8	31.4	880.3	764.8	115.50	7.622	
15,800.0	9,629.2	15,681.1	9,618.1	63.0	54.3	-89.34	6,091.8	31.2	880.3	763.2	117.07	7.519	
15,900.0	9,629.4	15,781.1	9,618.3	63.7	55.1	-89.34	6,191.8	31.0	880.3	761.6	118.64	7.420	
16,000.0	9,629.6	15,881.1	9,618.5	64.4	56.0	-89.34	6,291.8	30.7	880.3	760.0	120.22	7.322	
16,100.0	9,629.8	15,981.1	9,618.7	65.2	56.8	-89.34	6,391.8	30.5	880.2	758.5	121.80	7.227	
16,200.0	9,630.0	16,081.1	9,618.9	65.9	57.7	-89.34	6,491.8	30.3	880.2	756.9	123.38	7.134	
16,300.0	9,630.2	16,181.1	9,619.1	66.6	58.5	-89.34	6,591.8	30.1	880.2	755.3	124.97	7.044	
16,400.0	9,630.5	16,281.1	9,619.3	67.4	59.4	-89.34	6,691.8	29.8	880.2	753.7	126.56	6.955	
16,500.0	9,630.7	16,381.1	9,619.6	68.1	60.2	-89.34	6,791.8	29.6	880.2	752.1	128.15	6.869	
16,600.0	9,630.9	16,481.1	9,619.8	68.8	61.1	-89.34	6,891.8	29.4	880.2	750.5	129.74	6.784	
16,700.0	9,631.1	16,581.1	9,620.0	69.6	61.9	-89.34	6,991.8	29.1	880.2	748.9	131.34	6.702	
16,800.0	9,631.3	16,681.1	9,620.2	70.3	62.8	-89.34	7,091.8	28.9	880.2	747.3	132.94	6.621	
16,900.0	9,631.5	16,781.1	9,620.4	71.1	63.6	-89.34	7,191.8	28.7	880.2	745.7	134.55	6.542	
17,000.0	9,631.7	16,881.1	9,620.6	71.8	64.5	-89.34	7,291.8	28.5	880.2	744.1	136.16	6.465	
17,100.0	9,631.9	16,981.1	9,620.8	72.6	65.3	-89.34	7,391.8	28.2	880.2	742.4	137.76	6.389	
17,200.0	9,632.1	17,081.1	9,621.0	73.3	66.2	-89.34	7,491.8	28.0	880.2	740.8	139.38	6.315	
17,300.0	9,632.3	17,181.1	9,621.2	74.1	67.0	-89.34	7,591.8	27.8	880.2	739.2	140.99	6.243	
17,400.0	9,632.5	17,281.1	9,621.5	74.9	67.9	-89.34	7,691.8	27.6	880.2	737.6	142.61	6.172	
17,500.0	9,632.8	17,381.1	9,621.7	75.6	68.8	-89.34	7,791.8	27.3	880.2	736.0	144.23	6.103	
17,600.0	9,633.0	17,481.1	9,621.9	76.4	69.6	-89.34	7,891.8	27.1	880.2	734.3	145.85	6.035	
17,700.0	9,633.2	17,581.1	9,622.1	77.2	70.5	-89.34	7,991.8	26.9	880.2	732.7	147.47	5.969	
17,800.0	9,633.4	17,681.1	9,622.3	77.9	71.3	-89.34	8,091.8	26.6	880.2	731.1	149.09	5.904	
17,900.0	9,633.6	17,781.1	9,622.5	78.7	72.2	-89.34	8,191.8	26.4	880.2	729.5	150.72	5.840	
18,000.0	9,633.8	17,881.1	9,622.7	79.5	73.0	-89.34	8,291.8	26.2	880.2	727.8	152.35	5.777	
18,100.0	9,634.0	17,981.1	9,622.9	80.2	73.9	-89.34	8,391.8	26.0	880.2	726.2	153.98	5.716	
18,200.0	9,634.2	18,081.1	9,623.1	81.0	74.7	-89.34	8,491.8	25.7	880.2	724.6	155.61	5.656	
18,300.0	9,634.4	18,181.1	9,623.4	81.8	75.6	-89.34	8,591.8	25.5	880.2	722.9	157.25	5.597	
18,400.0	9,634.6	18,281.1	9,623.6	82.6	76.4	-89.34	8,691.8	25.3	880.2	721.3	158.88	5.540	
18,500.0	9,634.8	18,381.1	9,623.8	83.4	77.3	-89.34	8,791.8	25.1	880.2	719.6	160.52	5.483	
18,600.0	9,635.1	18,481.1	9,624.0	84.1	78.2	-89.34	8,891.8	24.8	880.2	718.0	162.16	5.428	
18,700.0	9,635.3	18,581.1	9,624.2	84.9	79.0	-89.34	8,991.8	24.6	880.2	716.4	163.80	5.373	
18,800.0	9,635.5	18,681.1	9,624.4	85.7	79.9	-89.34	9,091.8	24.4	880.2	714.7	165.44	5.320	
18,900.0	9,635.7	18,781.1	9,624.6	86.5	80.7	-89.35	9,191.8	24.1	880.1	713.1	167.09	5.268	
19,000.0	9,635.9	18,881.1	9,624.8	87.3	81.6	-89.35	9,291.8	23.9	880.1	711.4	168.73	5.216	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #704H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3113.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3113.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #704H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #705H - OWB - PWP2

Offset Site Error: 3.0 usft

Survey Program: 0-Standard Keeper 104, 8877-MWD+IFR1+FDIR

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,100.0	9,636.1	18,981.1	9,625.0	88.1	82.4	-89.35	9,391.8	23.7	880.1	709.8	170.38	5.166	
19,200.0	9,636.3	19,081.1	9,625.3	88.9	83.3	-89.35	9,491.8	23.5	880.1	708.1	172.02	5.116	
19,300.0	9,636.5	19,181.1	9,625.5	89.7	84.1	-89.35	9,591.8	23.2	880.1	706.5	173.67	5.068	
19,400.0	9,636.7	19,281.1	9,625.7	90.5	85.0	-89.35	9,691.8	23.0	880.1	704.8	175.32	5.020	
19,500.0	9,636.9	19,381.1	9,625.9	91.3	85.9	-89.35	9,791.8	22.8	880.1	703.1	176.98	4.973	
19,600.0	9,637.1	19,481.1	9,626.1	92.1	86.7	-89.35	9,891.8	22.6	880.1	701.5	178.63	4.927	
19,700.0	9,637.4	19,581.1	9,626.3	92.8	87.6	-89.35	9,991.8	22.3	880.1	699.8	180.28	4.882	
19,800.0	9,637.6	19,681.1	9,626.5	93.6	88.4	-89.35	10,091.8	22.1	880.1	698.2	181.94	4.837	
19,900.0	9,637.8	19,781.1	9,626.7	94.4	89.3	-89.35	10,191.8	21.9	880.1	696.5	183.59	4.794	
20,000.0	9,638.0	19,881.1	9,626.9	95.2	90.1	-89.35	10,291.8	21.6	880.1	694.9	185.25	4.751	
20,100.0	9,638.2	19,981.1	9,627.2	96.0	91.0	-89.35	10,391.8	21.4	880.1	693.2	186.91	4.709	
20,200.0	9,638.4	20,081.1	9,627.4	96.9	91.9	-89.35	10,491.8	21.2	880.1	691.5	188.57	4.667	
20,300.0	9,638.6	20,181.1	9,627.6	97.7	92.7	-89.35	10,591.8	21.0	880.1	689.9	190.23	4.627	
20,400.0	9,638.8	20,281.1	9,627.8	98.5	93.6	-89.35	10,691.8	20.7	880.1	688.2	191.89	4.586	
20,500.0	9,639.0	20,381.1	9,628.0	99.3	94.4	-89.35	10,791.8	20.5	880.1	686.5	193.55	4.547	
20,600.0	9,639.2	20,481.1	9,628.2	100.1	95.3	-89.35	10,891.8	20.3	880.1	684.9	195.22	4.508	
20,700.0	9,639.4	20,581.1	9,628.4	100.9	96.1	-89.35	10,991.8	20.1	880.1	683.2	196.88	4.470	
20,800.0	9,639.7	20,681.1	9,628.6	101.7	97.0	-89.35	11,091.8	19.8	880.1	681.5	198.55	4.433	
20,900.0	9,639.9	20,781.1	9,628.8	102.5	97.9	-89.35	11,191.8	19.6	880.1	679.9	200.21	4.396	
21,000.0	9,640.1	20,881.1	9,629.1	103.3	98.7	-89.35	11,291.8	19.4	880.1	678.2	201.88	4.359	
21,100.0	9,640.3	20,981.1	9,629.3	104.1	99.6	-89.35	11,391.8	19.1	880.1	676.5	203.55	4.324	
21,200.0	9,640.5	21,081.1	9,629.5	104.9	100.4	-89.35	11,491.8	18.9	880.1	674.8	205.21	4.288	
21,300.0	9,640.7	21,181.1	9,629.7	105.7	101.3	-89.35	11,591.8	18.7	880.1	673.2	206.88	4.254	
21,400.0	9,640.9	21,281.1	9,629.9	106.5	102.1	-89.35	11,691.8	18.5	880.1	671.5	208.55	4.220	
21,500.0	9,641.1	21,381.1	9,630.1	107.4	103.0	-89.35	11,791.8	18.2	880.1	669.8	210.23	4.186	
21,600.0	9,641.3	21,481.1	9,630.3	108.2	103.8	-89.35	11,891.8	18.0	880.0	668.2	211.90	4.153	
21,700.0	9,641.5	21,581.1	9,630.5	109.0	104.7	-89.35	11,991.8	17.8	880.0	666.5	213.57	4.121	
21,800.0	9,641.7	21,681.1	9,630.7	109.8	105.6	-89.35	12,091.8	17.6	880.0	664.8	215.24	4.089	
21,900.0	9,642.0	21,781.1	9,631.0	110.6	106.4	-89.35	12,191.8	17.3	880.0	663.1	216.92	4.057	
21,921.2	9,642.0	21,802.3	9,631.0	110.8	106.6	-89.35	12,213.0	17.3	880.0	662.8	217.27	4.050	

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #704H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3113.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3113.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #704H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #706H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-MWD+IFR1+FDIR — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-90.39	-0.4	-60.0	60.0				
100.0	100.0	99.0	99.0	3.0	3.0	-90.39	-0.4	-60.0	60.0	54.0	6.01	9.987	
200.0	200.0	199.0	199.0	3.0	3.0	-90.39	-0.4	-60.0	60.0	53.9	6.08	9.869	
300.0	300.0	299.0	299.0	3.1	3.1	-90.39	-0.4	-60.0	60.0	53.7	6.23	9.625	
400.0	400.0	399.0	399.0	3.2	3.2	-90.39	-0.4	-60.0	60.0	53.5	6.46	9.281	
500.0	500.0	499.0	499.0	3.4	3.4	-90.39	-0.4	-60.0	60.0	53.2	6.76	8.871	
600.0	600.0	599.0	599.0	3.6	3.6	-90.39	-0.4	-60.0	60.0	52.9	7.12	8.424	
700.0	700.0	699.0	699.0	3.8	3.8	-90.39	-0.4	-60.0	60.0	52.4	7.53	7.965	
800.0	800.0	799.0	799.0	4.0	4.0	-90.39	-0.4	-60.0	60.0	52.0	7.98	7.512	
900.0	900.0	899.0	899.0	4.2	4.2	-90.39	-0.4	-60.0	60.0	51.5	8.47	7.078	
1,000.0	1,000.0	999.0	999.0	4.5	4.5	-90.39	-0.4	-60.0	60.0	51.0	8.99	6.668	
1,100.0	1,100.0	1,099.0	1,099.0	4.8	4.8	-90.39	-0.4	-60.0	60.0	50.4	9.54	6.286	
1,200.0	1,200.0	1,199.0	1,199.0	5.1	5.1	-90.39	-0.4	-60.0	60.0	49.9	10.11	5.933	
1,300.0	1,300.0	1,299.0	1,299.0	5.3	5.3	-90.39	-0.4	-60.0	60.0	49.3	10.69	5.609	
1,400.0	1,400.0	1,399.0	1,399.0	5.6	5.6	-90.39	-0.4	-60.0	60.0	48.7	11.29	5.310	
1,500.0	1,500.0	1,499.0	1,499.0	6.0	6.0	-90.39	-0.4	-60.0	60.0	48.1	11.91	5.037	
1,600.0	1,600.0	1,599.0	1,599.0	6.3	6.3	-90.39	-0.4	-60.0	60.0	47.4	12.53	4.786	
1,700.0	1,700.0	1,699.0	1,699.0	6.6	6.6	-90.39	-0.4	-60.0	60.0	46.8	13.17	4.555	
1,800.0	1,800.0	1,799.0	1,799.0	6.9	6.9	-90.39	-0.4	-60.0	60.0	46.2	13.81	4.343	
1,900.0	1,900.0	1,899.0	1,899.0	7.2	7.2	-90.39	-0.4	-60.0	60.0	45.5	14.46	4.148	
2,000.0	2,000.0	1,999.0	1,999.0	7.6	7.6	-90.39	-0.4	-60.0	60.0	44.9	15.11	3.969	
2,100.0	2,100.0	2,099.0	2,099.0	7.9	7.9	-90.39	-0.4	-60.0	60.0	44.2	15.77	3.802	
2,200.0	2,200.0	2,199.0	2,199.0	8.2	8.2	-90.39	-0.4	-60.0	60.0	43.5	16.44	3.648	
2,300.0	2,300.0	2,299.0	2,299.0	8.6	8.6	-90.39	-0.4	-60.0	60.0	42.9	17.11	3.506	
2,400.0	2,400.0	2,399.0	2,399.0	8.9	8.9	-90.39	-0.4	-60.0	60.0	42.2	17.78	3.373	
2,500.0	2,500.0	2,499.0	2,499.0	9.2	9.2	-90.39	-0.4	-60.0	60.0	41.5	18.46	3.249	CC, ES, SF
2,600.0	2,600.0	2,597.1	2,597.0	9.6	9.5	154.63	-1.1	-61.5	63.1	44.0	19.10	3.303	
2,700.0	2,699.8	2,694.5	2,694.4	9.9	9.9	154.64	-3.2	-66.0	72.4	52.7	19.70	3.676	
2,750.0	2,749.7	2,742.9	2,742.6	10.0	10.0	154.64	-4.8	-69.3	79.4	59.4	20.00	3.971	
2,800.0	2,799.5	2,792.1	2,791.6	10.2	10.2	154.67	-6.6	-73.2	87.3	67.0	20.31	4.297	
2,900.0	2,899.1	2,890.8	2,890.0	10.5	10.5	154.71	-10.2	-81.0	103.0	82.1	20.95	4.918	
3,000.0	2,998.7	2,989.6	2,988.3	10.8	10.8	154.73	-13.8	-88.8	118.8	97.2	21.59	5.502	
3,100.0	3,098.4	3,088.3	3,086.7	11.2	11.1	154.76	-17.5	-96.6	134.5	112.3	22.24	6.050	
3,200.0	3,198.0	3,187.1	3,185.1	11.5	11.5	154.77	-21.1	-104.4	150.3	127.4	22.89	6.566	
3,300.0	3,297.6	3,285.8	3,283.5	11.8	11.8	154.79	-24.8	-112.2	166.0	142.5	23.54	7.052	
3,400.0	3,397.2	3,384.6	3,381.8	12.2	12.1	154.80	-28.4	-120.0	181.8	157.6	24.20	7.511	
3,500.0	3,496.8	3,483.3	3,480.2	12.5	12.5	154.81	-32.0	-127.8	197.5	172.7	24.86	7.944	
3,600.0	3,596.4	3,582.1	3,578.6	12.9	12.8	154.81	-35.7	-135.6	213.3	187.7	25.53	8.353	
3,700.0	3,696.1	3,680.8	3,677.0	13.2	13.1	154.82	-39.3	-143.4	229.0	202.8	26.20	8.741	
3,800.0	3,795.7	3,779.6	3,775.4	13.5	13.5	154.83	-42.9	-151.2	244.8	217.9	26.87	9.109	
3,900.0	3,895.3	3,878.3	3,873.7	13.9	13.8	154.83	-46.6	-159.0	260.5	233.0	27.54	9.458	
4,000.0	3,994.9	3,977.1	3,972.1	14.2	14.1	154.84	-50.2	-166.8	276.3	248.0	28.22	9.789	
4,100.0	4,094.5	4,075.8	4,070.5	14.6	14.5	154.84	-53.9	-174.6	292.0	263.1	28.90	10.104	
4,200.0	4,194.2	4,174.6	4,168.9	14.9	14.8	154.85	-57.5	-182.4	307.8	278.2	29.58	10.404	
4,300.0	4,293.8	4,273.3	4,267.2	15.3	15.2	154.85	-61.1	-190.2	323.5	293.2	30.26	10.690	
4,400.0	4,393.4	4,372.1	4,365.6	15.6	15.5	154.85	-64.8	-198.0	339.3	308.3	30.95	10.962	
4,500.0	4,493.0	4,470.9	4,464.0	16.0	15.8	154.86	-68.4	-205.8	355.0	323.4	31.63	11.222	
4,600.0	4,592.6	4,569.6	4,562.4	16.3	16.2	154.86	-72.0	-213.6	370.8	338.4	32.32	11.471	
4,700.0	4,692.3	4,668.4	4,660.7	16.6	16.5	154.86	-75.7	-221.4	386.5	353.5	33.01	11.708	
4,800.0	4,791.9	4,767.1	4,759.1	17.0	16.9	154.86	-79.3	-229.2	402.2	368.5	33.70	11.936	
4,900.0	4,891.5	4,865.9	4,857.5	17.3	17.2	154.86	-83.0	-237.0	418.0	383.6	34.39	12.154	

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

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #704H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3113.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3113.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #704H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #706H - OWB - PWP2

Offset Site Error: 3.0 usft

Survey Program: 0-MWD+IFR1+FDIR

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,991.1	4,964.6	4,955.9	17.7	17.6	154.87	-86.6	-244.8	433.7	398.7	35.09	12.362	
5,100.0	5,090.7	5,063.4	5,054.2	18.1	17.9	154.87	-90.2	-252.6	449.5	413.7	35.78	12.563	
5,200.0	5,190.4	5,162.1	5,152.6	18.4	18.3	154.87	-93.9	-260.4	465.2	428.8	36.48	12.755	
5,300.0	5,290.0	5,260.9	5,251.0	18.8	18.6	154.87	-97.5	-268.2	481.0	443.8	37.17	12.940	
5,400.0	5,389.6	5,359.6	5,349.4	19.1	19.0	154.87	-101.1	-276.0	496.7	458.9	37.87	13.117	
5,500.0	5,489.2	5,458.4	5,447.8	19.5	19.3	154.87	-104.8	-283.8	512.5	473.9	38.57	13.288	
5,600.0	5,588.8	5,557.1	5,546.1	19.8	19.7	154.88	-108.4	-291.6	528.2	489.0	39.27	13.453	
5,700.0	5,688.5	5,655.9	5,644.5	20.2	20.0	154.88	-112.1	-299.4	544.0	504.0	39.97	13.611	
5,800.0	5,788.1	5,754.6	5,742.9	20.5	20.4	154.88	-115.7	-307.2	559.7	519.1	40.67	13.764	
5,900.0	5,887.7	5,853.4	5,841.3	20.9	20.7	154.88	-119.3	-315.0	575.5	534.1	41.37	13.911	
6,000.0	5,987.3	5,952.1	5,939.6	21.2	21.1	154.88	-123.0	-322.8	591.2	549.2	42.07	14.053	
6,100.0	6,086.9	6,050.9	6,038.0	21.6	21.4	154.88	-126.6	-330.6	607.0	564.2	42.77	14.190	
6,200.0	6,186.6	6,149.6	6,136.4	21.9	21.8	154.88	-130.2	-338.4	622.7	579.3	43.48	14.323	
6,300.0	6,286.2	6,248.4	6,234.8	22.3	22.1	154.88	-133.9	-346.2	638.5	594.3	44.18	14.451	
6,400.0	6,385.8	6,347.1	6,333.1	22.7	22.5	154.88	-137.5	-354.0	654.2	609.3	44.89	14.575	
6,500.0	6,485.4	6,445.9	6,431.5	23.0	22.8	154.88	-141.2	-361.8	670.0	624.4	45.59	14.695	
6,600.0	6,585.0	6,544.6	6,529.9	23.4	23.2	154.88	-144.8	-369.6	685.7	639.4	46.30	14.811	
6,700.0	6,684.7	6,643.4	6,628.3	23.7	23.5	154.89	-148.4	-377.4	701.5	654.5	47.00	14.924	
6,800.0	6,784.3	6,742.2	6,726.6	24.1	23.9	154.89	-152.1	-385.2	717.2	669.5	47.71	15.033	
6,900.0	6,883.9	6,840.9	6,825.0	24.4	24.2	154.89	-155.7	-393.0	733.0	684.6	48.42	15.138	
7,000.0	6,983.5	6,939.7	6,923.4	24.8	24.6	154.89	-159.3	-400.8	748.7	699.6	49.13	15.241	
7,100.0	7,083.1	7,038.4	7,021.8	25.2	25.0	154.89	-163.0	-408.6	764.5	714.6	49.83	15.340	
7,200.0	7,182.7	7,137.2	7,120.1	25.5	25.3	154.89	-166.6	-416.4	780.2	729.7	50.54	15.437	
7,300.0	7,282.4	7,235.9	7,218.5	25.9	25.7	154.89	-170.2	-424.2	796.0	744.7	51.25	15.530	
7,400.0	7,382.0	7,334.7	7,316.9	26.2	26.0	154.89	-173.9	-432.0	811.7	759.7	51.96	15.621	
7,500.0	7,481.6	7,433.4	7,415.3	26.6	26.4	154.89	-177.5	-439.8	827.5	774.8	52.67	15.710	
7,600.0	7,581.2	7,532.2	7,513.7	27.0	26.7	154.89	-181.2	-447.6	843.2	789.8	53.38	15.796	
7,700.0	7,680.8	7,630.9	7,612.0	27.3	27.1	154.89	-184.8	-455.4	859.0	804.9	54.09	15.879	
7,800.0	7,780.5	7,729.7	7,710.4	27.7	27.4	154.89	-188.4	-463.2	874.7	819.9	54.80	15.961	
7,900.0	7,880.1	7,828.4	7,808.8	28.0	27.8	154.89	-192.1	-471.0	890.5	834.9	55.52	16.040	
8,000.0	7,979.7	7,927.2	7,907.2	28.4	28.1	154.89	-195.7	-478.8	906.2	850.0	56.23	16.117	
8,100.0	8,079.3	8,025.9	8,005.5	28.8	28.5	154.89	-199.3	-486.6	922.0	865.0	56.94	16.192	
8,200.0	8,178.9	8,124.7	8,103.9	29.1	28.9	154.89	-203.0	-494.4	937.7	880.0	57.65	16.265	
8,300.0	8,278.6	8,223.4	8,202.3	29.5	29.2	154.89	-206.6	-502.2	953.4	895.1	58.36	16.336	
8,400.0	8,378.2	8,322.2	8,300.7	29.8	29.6	154.89	-210.3	-510.0	969.2	910.1	59.08	16.406	
8,500.0	8,477.8	8,420.9	8,399.0	30.2	29.9	154.89	-213.9	-517.8	984.9	925.2	59.79	16.473	

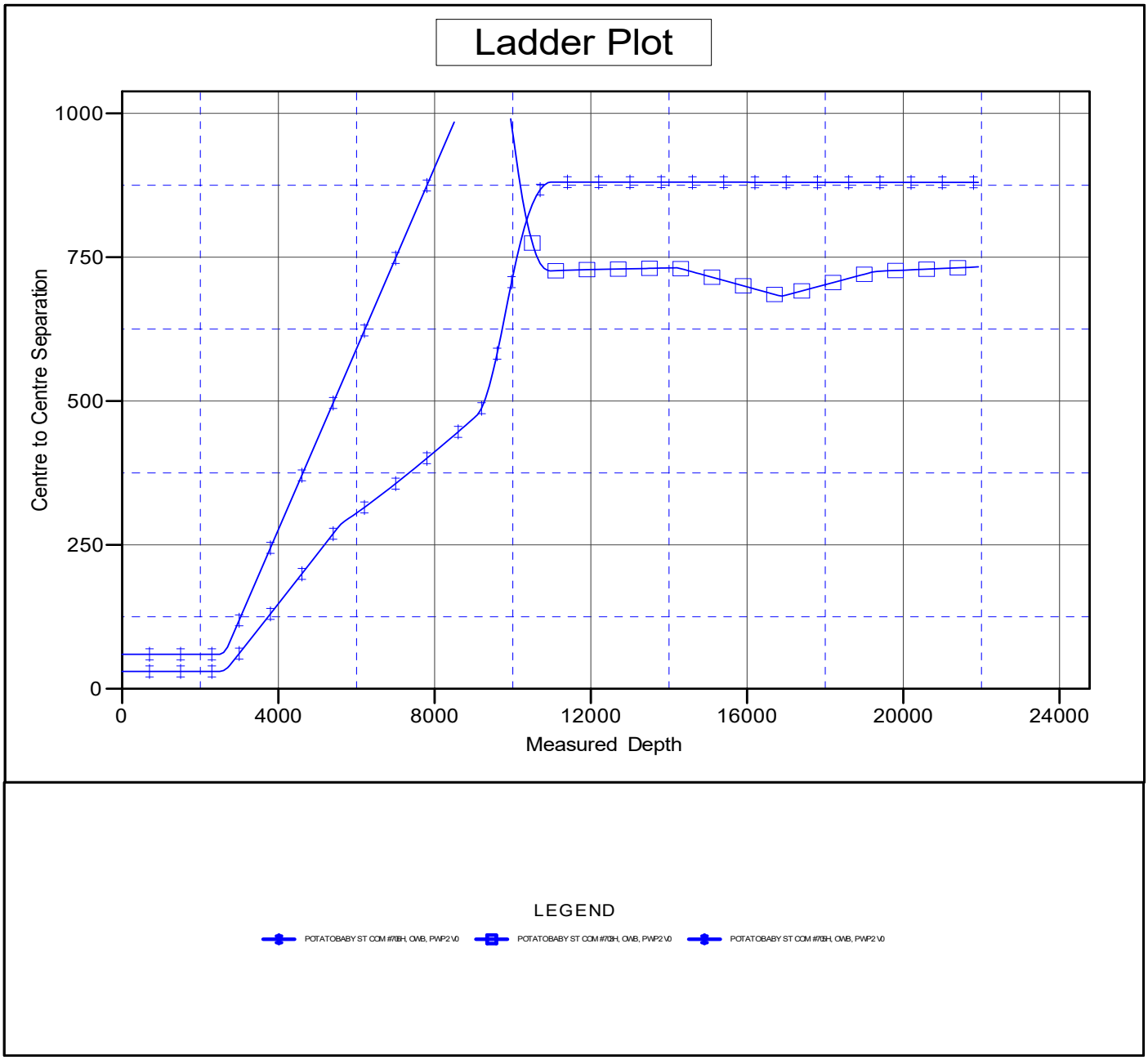
Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #704H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3113.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3113.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #704H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to *KB=30' @ 3113.0usft (TBD)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: POTATO BABY ST COM #704H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.14°



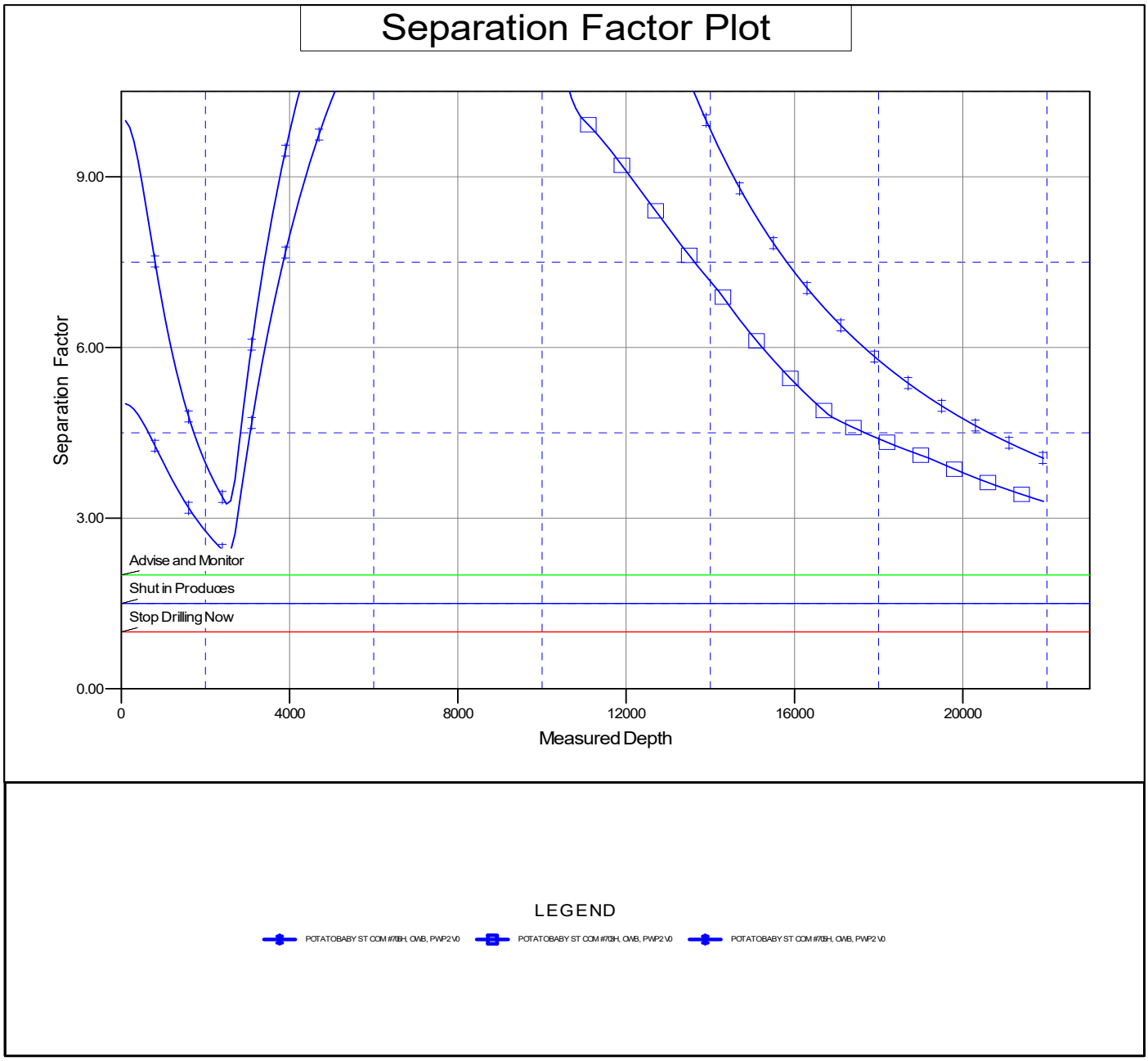
Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #704H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3113.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3113.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #704H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to *KB=30' @ 3113.0usft (TBD)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: POTATO BABY ST COM #704H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.14°



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

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)
POTATO BABY STATE PROJECT (ATLAS 2628)
POTATO BABY ST COM #704H

OWB

Plan: PWP2

Standard Survey Report

22 July, 2020

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #704H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3113.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3113.0usft (TBD)
Well:	POTATO BABY ST COM #704H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP2	**Database:**	edm

Project ATLAS PROSPECT (NM-E)

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Well POTATO BABY ST COM #704H

Well Position	**+N/-S**	0.0 usft	**Northing:**	364,151.61 usft	**Latitude:**	32° 0' 3.276 N
	+E/-W	0.0 usft	**Easting:**	579,028.27 usft	**Longitude:**	104° 4' 42.229 W
Position Uncertainty		3.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,083.0 usft

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	7/21/2020	6.87	59.65	47,404.74848991

Design PWP2

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	4.20

Survey Tool Program **Date** 7/22/2020

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	21,921.2	PWP2 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #704H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3113.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3113.0usft (TBD)
Well:	POTATO BABY ST COM #704H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP2	**Database:**	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,600.0	2.00	115.00	2,600.0	-0.7	1.6	-0.6	2.00	2.00	0.00
2,700.0	4.00	115.00	2,699.8	-2.9	6.3	-2.5	2.00	2.00	0.00
2,750.0	5.00	115.00	2,749.7	-4.6	9.9	-3.9	2.00	2.00	0.00
Start 6316.2 hold at 2750.0 MD									
2,800.0	5.00	115.00	2,799.5	-6.4	13.8	-5.4	0.00	0.00	0.00
2,900.0	5.00	115.00	2,899.1	-10.1	21.7	-8.5	0.00	0.00	0.00
3,000.0	5.00	115.00	2,998.7	-13.8	29.6	-11.6	0.00	0.00	0.00
3,100.0	5.00	115.00	3,098.4	-17.5	37.5	-14.7	0.00	0.00	0.00
3,200.0	5.00	115.00	3,198.0	-21.2	45.4	-17.8	0.00	0.00	0.00
3,300.0	5.00	115.00	3,297.6	-24.9	53.3	-20.9	0.00	0.00	0.00
3,400.0	5.00	115.00	3,397.2	-28.5	61.2	-24.0	0.00	0.00	0.00
3,500.0	5.00	115.00	3,496.8	-32.2	69.1	-27.1	0.00	0.00	0.00
3,600.0	5.00	115.00	3,596.4	-35.9	77.0	-30.2	0.00	0.00	0.00
3,700.0	5.00	115.00	3,696.1	-39.6	84.9	-33.3	0.00	0.00	0.00
3,800.0	5.00	115.00	3,795.7	-43.3	92.8	-36.4	0.00	0.00	0.00
3,900.0	5.00	115.00	3,895.3	-47.0	100.7	-39.5	0.00	0.00	0.00
4,000.0	5.00	115.00	3,994.9	-50.6	108.6	-42.6	0.00	0.00	0.00
4,100.0	5.00	115.00	4,094.5	-54.3	116.5	-45.7	0.00	0.00	0.00
4,200.0	5.00	115.00	4,194.2	-58.0	124.4	-48.7	0.00	0.00	0.00
4,300.0	5.00	115.00	4,293.8	-61.7	132.3	-51.8	0.00	0.00	0.00
4,400.0	5.00	115.00	4,393.4	-65.4	140.2	-54.9	0.00	0.00	0.00
4,500.0	5.00	115.00	4,493.0	-69.1	148.1	-58.0	0.00	0.00	0.00
4,600.0	5.00	115.00	4,592.6	-72.7	156.0	-61.1	0.00	0.00	0.00
4,700.0	5.00	115.00	4,692.3	-76.4	163.9	-64.2	0.00	0.00	0.00
4,800.0	5.00	115.00	4,791.9	-80.1	171.8	-67.3	0.00	0.00	0.00
4,900.0	5.00	115.00	4,891.5	-83.8	179.7	-70.4	0.00	0.00	0.00
5,000.0	5.00	115.00	4,991.1	-87.5	187.6	-73.5	0.00	0.00	0.00
5,100.0	5.00	115.00	5,090.7	-91.2	195.5	-76.6	0.00	0.00	0.00
5,200.0	5.00	115.00	5,190.4	-94.8	203.4	-79.7	0.00	0.00	0.00
5,300.0	5.00	115.00	5,290.0	-98.5	211.3	-82.8	0.00	0.00	0.00
5,400.0	5.00	115.00	5,389.6	-102.2	219.2	-85.9	0.00	0.00	0.00
5,500.0	5.00	115.00	5,489.2	-105.9	227.1	-89.0	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #704H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3113.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3113.0usft (TBD)
Well:	POTATO BABY ST COM #704H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP2	**Database:**	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,600.0	5.00	115.00	5,588.8	-109.6	235.0	-92.1	0.00	0.00	0.00
5,700.0	5.00	115.00	5,688.5	-113.3	242.9	-95.2	0.00	0.00	0.00
5,800.0	5.00	115.00	5,788.1	-116.9	250.8	-98.3	0.00	0.00	0.00
5,900.0	5.00	115.00	5,887.7	-120.6	258.7	-101.4	0.00	0.00	0.00
6,000.0	5.00	115.00	5,987.3	-124.3	266.6	-104.5	0.00	0.00	0.00
6,100.0	5.00	115.00	6,086.9	-128.0	274.5	-107.5	0.00	0.00	0.00
6,200.0	5.00	115.00	6,186.6	-131.7	282.4	-110.6	0.00	0.00	0.00
6,300.0	5.00	115.00	6,286.2	-135.4	290.3	-113.7	0.00	0.00	0.00
6,400.0	5.00	115.00	6,385.8	-139.0	298.2	-116.8	0.00	0.00	0.00
6,500.0	5.00	115.00	6,485.4	-142.7	306.1	-119.9	0.00	0.00	0.00
6,600.0	5.00	115.00	6,585.0	-146.4	314.0	-123.0	0.00	0.00	0.00
6,700.0	5.00	115.00	6,684.7	-150.1	321.9	-126.1	0.00	0.00	0.00
6,800.0	5.00	115.00	6,784.3	-153.8	329.8	-129.2	0.00	0.00	0.00
6,900.0	5.00	115.00	6,883.9	-157.5	337.7	-132.3	0.00	0.00	0.00
7,000.0	5.00	115.00	6,983.5	-161.1	345.6	-135.4	0.00	0.00	0.00
7,100.0	5.00	115.00	7,083.1	-164.8	353.5	-138.5	0.00	0.00	0.00
7,200.0	5.00	115.00	7,182.7	-168.5	361.4	-141.6	0.00	0.00	0.00
7,300.0	5.00	115.00	7,282.4	-172.2	369.3	-144.7	0.00	0.00	0.00
7,400.0	5.00	115.00	7,382.0	-175.9	377.2	-147.8	0.00	0.00	0.00
7,500.0	5.00	115.00	7,481.6	-179.6	385.1	-150.9	0.00	0.00	0.00
7,600.0	5.00	115.00	7,581.2	-183.3	393.0	-154.0	0.00	0.00	0.00
7,700.0	5.00	115.00	7,680.8	-186.9	400.9	-157.1	0.00	0.00	0.00
7,800.0	5.00	115.00	7,780.5	-190.6	408.8	-160.2	0.00	0.00	0.00
7,900.0	5.00	115.00	7,880.1	-194.3	416.7	-163.3	0.00	0.00	0.00
8,000.0	5.00	115.00	7,979.7	-198.0	424.6	-166.3	0.00	0.00	0.00
8,100.0	5.00	115.00	8,079.3	-201.7	432.5	-169.4	0.00	0.00	0.00
8,200.0	5.00	115.00	8,178.9	-205.4	440.4	-172.5	0.00	0.00	0.00
8,300.0	5.00	115.00	8,278.6	-209.0	448.3	-175.6	0.00	0.00	0.00
8,400.0	5.00	115.00	8,378.2	-212.7	456.2	-178.7	0.00	0.00	0.00
8,500.0	5.00	115.00	8,477.8	-216.4	464.1	-181.8	0.00	0.00	0.00
8,600.0	5.00	115.00	8,577.4	-220.1	472.0	-184.9	0.00	0.00	0.00
8,700.0	5.00	115.00	8,677.0	-223.8	479.9	-188.0	0.00	0.00	0.00
8,800.0	5.00	115.00	8,776.7	-227.5	487.8	-191.1	0.00	0.00	0.00
8,900.0	5.00	115.00	8,876.3	-231.1	495.7	-194.2	0.00	0.00	0.00
9,000.0	5.00	115.00	8,975.9	-234.8	503.6	-197.3	0.00	0.00	0.00
9,066.2	5.00	115.00	9,041.8	-237.3	508.8	-199.3	0.00	0.00	0.00
Start DLS 10.00 TFO -95.05									
9,100.0	5.78	79.29	9,075.5	-237.6	511.8	-199.4	10.00	2.31	-105.49
9,200.0	13.85	40.62	9,174.0	-227.5	524.6	-188.5	10.00	8.07	-38.67
9,300.0	23.45	31.52	9,268.7	-201.4	542.8	-161.1	10.00	9.60	-9.10
9,400.0	33.28	27.56	9,356.6	-160.0	566.0	-118.1	10.00	9.83	-3.96
9,500.0	43.18	25.26	9,435.1	-104.6	593.3	-60.9	10.00	9.90	-2.30
9,600.0	53.11	23.68	9,501.7	-36.9	624.1	8.9	10.00	9.93	-1.58
9,700.0	63.05	22.47	9,554.5	41.1	657.3	89.2	10.00	9.95	-1.21

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #704H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3113.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3113.0usft (TBD)
Well:	POTATO BABY ST COM #704H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP2	**Database:**	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,800.0	73.01	21.46	9,591.9	127.0	691.9	177.4	10.00	9.96	-1.01
9,900.0	82.97	20.55	9,612.7	218.2	726.9	270.9	10.00	9.96	-0.91
9,969.4	89.88	19.94	9,617.0	283.2	750.8	337.4	10.00	9.96	-0.87
Start DLS 2.00 TFO -90.02									
10,000.0	89.88	19.33	9,617.1	312.0	761.1	366.9	2.00	0.00	-2.00
10,100.0	89.88	17.33	9,617.3	406.9	792.5	463.9	2.00	0.00	-2.00
10,200.0	89.88	15.33	9,617.5	502.9	820.6	561.7	2.00	0.00	-2.00
10,300.0	89.88	13.33	9,617.7	599.8	845.4	660.1	2.00	0.00	-2.00
10,400.0	89.88	11.33	9,617.9	697.5	866.7	759.1	2.00	0.00	-2.00
10,500.0	89.88	9.33	9,618.1	795.8	884.7	858.5	2.00	0.00	-2.00
10,600.0	89.88	7.33	9,618.3	894.8	899.1	958.3	2.00	0.00	-2.00
10,700.0	89.88	5.33	9,618.5	994.2	910.2	1,058.2	2.00	0.00	-2.00
10,800.0	89.88	3.33	9,618.7	1,093.9	917.7	1,158.2	2.00	0.00	-2.00
10,900.0	89.88	1.33	9,619.0	1,193.8	921.8	1,258.1	2.00	0.00	-2.00
10,973.0	89.88	359.87	9,619.1	1,266.8	922.5	1,330.9	2.00	0.00	-2.00
Start 10948.3 hold at 10973.0 MD									
11,000.0	89.88	359.87	9,619.2	1,293.8	922.5	1,357.9	0.00	0.00	0.00
11,100.0	89.88	359.87	9,619.4	1,393.8	922.2	1,457.6	0.00	0.00	0.00
11,200.0	89.88	359.87	9,619.6	1,493.8	922.0	1,557.3	0.00	0.00	0.00
11,300.0	89.88	359.87	9,619.8	1,593.8	921.8	1,657.0	0.00	0.00	0.00
11,400.0	89.88	359.87	9,620.0	1,693.8	921.5	1,756.7	0.00	0.00	0.00
11,500.0	89.88	359.87	9,620.2	1,793.8	921.3	1,856.5	0.00	0.00	0.00
11,600.0	89.88	359.87	9,620.4	1,893.8	921.1	1,956.2	0.00	0.00	0.00
11,700.0	89.88	359.87	9,620.6	1,993.8	920.9	2,055.9	0.00	0.00	0.00
11,800.0	89.88	359.87	9,620.8	2,093.8	920.6	2,155.6	0.00	0.00	0.00
11,900.0	89.88	359.87	9,621.0	2,193.8	920.4	2,255.3	0.00	0.00	0.00
12,000.0	89.88	359.87	9,621.3	2,293.8	920.2	2,355.0	0.00	0.00	0.00
12,100.0	89.88	359.87	9,621.5	2,393.8	919.9	2,454.7	0.00	0.00	0.00
12,200.0	89.88	359.87	9,621.7	2,493.8	919.7	2,554.5	0.00	0.00	0.00
12,300.0	89.88	359.87	9,621.9	2,593.8	919.5	2,654.2	0.00	0.00	0.00
12,400.0	89.88	359.87	9,622.1	2,693.8	919.2	2,753.9	0.00	0.00	0.00
12,500.0	89.88	359.87	9,622.3	2,793.8	919.0	2,853.6	0.00	0.00	0.00
12,600.0	89.88	359.87	9,622.5	2,893.8	918.8	2,953.3	0.00	0.00	0.00
12,700.0	89.88	359.87	9,622.7	2,993.8	918.5	3,053.0	0.00	0.00	0.00
12,800.0	89.88	359.87	9,622.9	3,093.8	918.3	3,152.7	0.00	0.00	0.00
12,900.0	89.88	359.87	9,623.1	3,193.8	918.1	3,252.5	0.00	0.00	0.00
13,000.0	89.88	359.87	9,623.3	3,293.8	917.9	3,352.2	0.00	0.00	0.00
13,100.0	89.88	359.87	9,623.6	3,393.8	917.6	3,451.9	0.00	0.00	0.00
13,200.0	89.88	359.87	9,623.8	3,493.8	917.4	3,551.6	0.00	0.00	0.00
13,300.0	89.88	359.87	9,624.0	3,593.8	917.2	3,651.3	0.00	0.00	0.00
13,400.0	89.88	359.87	9,624.2	3,693.8	916.9	3,751.0	0.00	0.00	0.00
13,500.0	89.88	359.87	9,624.4	3,793.8	916.7	3,850.7	0.00	0.00	0.00
13,600.0	89.88	359.87	9,624.6	3,893.8	916.5	3,950.5	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #704H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3113.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3113.0usft (TBD)
Well:	POTATO BABY ST COM #704H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP2	**Database:**	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,700.0	89.88	359.87	9,624.8	3,993.8	916.2	4,050.2	0.00	0.00	0.00
13,800.0	89.88	359.87	9,625.0	4,093.8	916.0	4,149.9	0.00	0.00	0.00
13,900.0	89.88	359.87	9,625.2	4,193.8	915.8	4,249.6	0.00	0.00	0.00
14,000.0	89.88	359.87	9,625.4	4,293.8	915.5	4,349.3	0.00	0.00	0.00
14,100.0	89.88	359.87	9,625.6	4,393.8	915.3	4,449.0	0.00	0.00	0.00
14,200.0	89.88	359.87	9,625.9	4,493.8	915.1	4,548.7	0.00	0.00	0.00
14,300.0	89.88	359.87	9,626.1	4,593.8	914.9	4,648.5	0.00	0.00	0.00
14,400.0	89.88	359.87	9,626.3	4,693.8	914.6	4,748.2	0.00	0.00	0.00
14,500.0	89.88	359.87	9,626.5	4,793.8	914.4	4,847.9	0.00	0.00	0.00
14,600.0	89.88	359.87	9,626.7	4,893.8	914.2	4,947.6	0.00	0.00	0.00
14,700.0	89.88	359.87	9,626.9	4,993.8	913.9	5,047.3	0.00	0.00	0.00
14,800.0	89.88	359.87	9,627.1	5,093.8	913.7	5,147.0	0.00	0.00	0.00
14,900.0	89.88	359.87	9,627.3	5,193.8	913.5	5,246.7	0.00	0.00	0.00
15,000.0	89.88	359.87	9,627.5	5,293.8	913.2	5,346.4	0.00	0.00	0.00
15,100.0	89.88	359.87	9,627.7	5,393.8	913.0	5,446.2	0.00	0.00	0.00
15,200.0	89.88	359.87	9,627.9	5,493.8	912.8	5,545.9	0.00	0.00	0.00
15,300.0	89.88	359.87	9,628.2	5,593.8	912.5	5,645.6	0.00	0.00	0.00
15,400.0	89.88	359.87	9,628.4	5,693.8	912.3	5,745.3	0.00	0.00	0.00
15,500.0	89.88	359.87	9,628.6	5,793.8	912.1	5,845.0	0.00	0.00	0.00
15,600.0	89.88	359.87	9,628.8	5,893.8	911.9	5,944.7	0.00	0.00	0.00
15,700.0	89.88	359.87	9,629.0	5,993.8	911.6	6,044.4	0.00	0.00	0.00
15,800.0	89.88	359.87	9,629.2	6,093.8	911.4	6,144.2	0.00	0.00	0.00
15,900.0	89.88	359.87	9,629.4	6,193.8	911.2	6,243.9	0.00	0.00	0.00
16,000.0	89.88	359.87	9,629.6	6,293.8	910.9	6,343.6	0.00	0.00	0.00
16,100.0	89.88	359.87	9,629.8	6,393.8	910.7	6,443.3	0.00	0.00	0.00
16,200.0	89.88	359.87	9,630.0	6,493.8	910.5	6,543.0	0.00	0.00	0.00
16,300.0	89.88	359.87	9,630.2	6,593.8	910.2	6,642.7	0.00	0.00	0.00
16,400.0	89.88	359.87	9,630.5	6,693.8	910.0	6,742.4	0.00	0.00	0.00
16,500.0	89.88	359.87	9,630.7	6,793.8	909.8	6,842.2	0.00	0.00	0.00
16,600.0	89.88	359.87	9,630.9	6,893.8	909.5	6,941.9	0.00	0.00	0.00
16,700.0	89.88	359.87	9,631.1	6,993.8	909.3	7,041.6	0.00	0.00	0.00
16,800.0	89.88	359.87	9,631.3	7,093.8	909.1	7,141.3	0.00	0.00	0.00
16,900.0	89.88	359.87	9,631.5	7,193.8	908.9	7,241.0	0.00	0.00	0.00
17,000.0	89.88	359.87	9,631.7	7,293.8	908.6	7,340.7	0.00	0.00	0.00
17,100.0	89.88	359.87	9,631.9	7,393.8	908.4	7,440.4	0.00	0.00	0.00
17,200.0	89.88	359.87	9,632.1	7,493.8	908.2	7,540.2	0.00	0.00	0.00
17,300.0	89.88	359.87	9,632.3	7,593.8	907.9	7,639.9	0.00	0.00	0.00
17,400.0	89.88	359.87	9,632.5	7,693.8	907.7	7,739.6	0.00	0.00	0.00
17,500.0	89.88	359.87	9,632.8	7,793.8	907.5	7,839.3	0.00	0.00	0.00
17,600.0	89.88	359.87	9,633.0	7,893.8	907.2	7,939.0	0.00	0.00	0.00
17,700.0	89.88	359.87	9,633.2	7,993.8	907.0	8,038.7	0.00	0.00	0.00
17,800.0	89.88	359.87	9,633.4	8,093.8	906.8	8,138.4	0.00	0.00	0.00
17,900.0	89.88	359.87	9,633.6	8,193.8	906.5	8,238.2	0.00	0.00	0.00
18,000.0	89.88	359.87	9,633.8	8,293.8	906.3	8,337.9	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #704H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3113.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3113.0usft (TBD)
Well:	POTATO BABY ST COM #704H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP2	**Database:**	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,100.0	89.88	359.87	9,634.0	8,393.8	906.1	8,437.6	0.00	0.00	0.00
18,200.0	89.88	359.87	9,634.2	8,493.8	905.9	8,537.3	0.00	0.00	0.00
18,300.0	89.88	359.87	9,634.4	8,593.8	905.6	8,637.0	0.00	0.00	0.00
18,400.0	89.88	359.87	9,634.6	8,693.8	905.4	8,736.7	0.00	0.00	0.00
18,500.0	89.88	359.87	9,634.8	8,793.8	905.2	8,836.4	0.00	0.00	0.00
18,600.0	89.88	359.87	9,635.1	8,893.8	904.9	8,936.1	0.00	0.00	0.00
18,700.0	89.88	359.87	9,635.3	8,993.8	904.7	9,035.9	0.00	0.00	0.00
18,800.0	89.88	359.87	9,635.5	9,093.8	904.5	9,135.6	0.00	0.00	0.00
18,900.0	89.88	359.87	9,635.7	9,193.8	904.2	9,235.3	0.00	0.00	0.00
19,000.0	89.88	359.87	9,635.9	9,293.8	904.0	9,335.0	0.00	0.00	0.00
19,100.0	89.88	359.87	9,636.1	9,393.7	903.8	9,434.7	0.00	0.00	0.00
19,200.0	89.88	359.87	9,636.3	9,493.7	903.5	9,534.4	0.00	0.00	0.00
19,300.0	89.88	359.87	9,636.5	9,593.7	903.3	9,634.1	0.00	0.00	0.00
19,400.0	89.88	359.87	9,636.7	9,693.7	903.1	9,733.9	0.00	0.00	0.00
19,500.0	89.88	359.87	9,636.9	9,793.7	902.8	9,833.6	0.00	0.00	0.00
19,600.0	89.88	359.87	9,637.1	9,893.7	902.6	9,933.3	0.00	0.00	0.00
19,700.0	89.88	359.87	9,637.4	9,993.7	902.4	10,033.0	0.00	0.00	0.00
19,800.0	89.88	359.87	9,637.6	10,093.7	902.2	10,132.7	0.00	0.00	0.00
19,900.0	89.88	359.87	9,637.8	10,193.7	901.9	10,232.4	0.00	0.00	0.00
20,000.0	89.88	359.87	9,638.0	10,293.7	901.7	10,332.1	0.00	0.00	0.00
20,100.0	89.88	359.87	9,638.2	10,393.7	901.5	10,431.9	0.00	0.00	0.00
20,200.0	89.88	359.87	9,638.4	10,493.7	901.2	10,531.6	0.00	0.00	0.00
20,300.0	89.88	359.87	9,638.6	10,593.7	901.0	10,631.3	0.00	0.00	0.00
20,400.0	89.88	359.87	9,638.8	10,693.7	900.8	10,731.0	0.00	0.00	0.00
20,500.0	89.88	359.87	9,639.0	10,793.7	900.5	10,830.7	0.00	0.00	0.00
20,600.0	89.88	359.87	9,639.2	10,893.7	900.3	10,930.4	0.00	0.00	0.00
20,700.0	89.88	359.87	9,639.4	10,993.7	900.1	11,030.1	0.00	0.00	0.00
20,800.0	89.88	359.87	9,639.7	11,093.7	899.8	11,129.9	0.00	0.00	0.00
20,900.0	89.88	359.87	9,639.9	11,193.7	899.6	11,229.6	0.00	0.00	0.00
21,000.0	89.88	359.87	9,640.1	11,293.7	899.4	11,329.3	0.00	0.00	0.00
21,100.0	89.88	359.87	9,640.3	11,393.7	899.2	11,429.0	0.00	0.00	0.00
21,200.0	89.88	359.87	9,640.5	11,493.7	898.9	11,528.7	0.00	0.00	0.00
21,300.0	89.88	359.87	9,640.7	11,593.7	898.7	11,628.4	0.00	0.00	0.00
21,400.0	89.88	359.87	9,640.9	11,693.7	898.5	11,728.1	0.00	0.00	0.00
21,500.0	89.88	359.87	9,641.1	11,793.7	898.2	11,827.9	0.00	0.00	0.00
21,600.0	89.88	359.87	9,641.3	11,893.7	898.0	11,927.6	0.00	0.00	0.00
21,700.0	89.88	359.87	9,641.5	11,993.7	897.8	12,027.3	0.00	0.00	0.00
21,800.0	89.88	359.87	9,641.7	12,093.7	897.5	12,127.0	0.00	0.00	0.00
21,900.0	89.88	359.87	9,642.0	12,193.7	897.3	12,226.7	0.00	0.00	0.00
21,921.2	89.88	359.87	9,642.0	12,215.0	897.3	12,247.9	0.00	0.00	0.00
TD at 21921.2									

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #704H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3113.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3113.0usft (TBD)
Well:	POTATO BABY ST COM #704H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP2	**Database:**	edm

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (POTATO BABY	0.00	0.00	9,617.0	-45.9	925.3	364,105.71	579,953.58	32° 0' 2.800 N	104° 4' 31.484 W
- plan misses target center by 285.1usft at 9741.5usft MD (9572.0 TVD, 75.9 N, 671.5 E)									
- Circle (radius 50.0)									
PBHL (POTATO BAB	-0.12	179.87	9,642.0	12,215.0	897.3	376,366.58	579,925.53	32° 2' 4.142 N	104° 4' 31.470 W
- plan hits target center									
- Rectangle (sides W100.0 H12,450.0 D20.0)									
LTP (POTATO BABY	0.00	0.00	9,642.0	12,085.0	897.8	376,236.59	579,926.08	32° 2' 2.856 N	104° 4' 31.468 W
- plan misses target center by 0.4usft at 21791.2usft MD (9641.7 TVD, 12085.0 N, 897.6 E)									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
2500	2500	0	0	Start Build 2.00
2750	2750	-5	10	Start 6316.2 hold at 2750.0 MD
9066	9042	-237	509	Start DLS 10.00 TFO -95.05
9969	9617	283	751	Start DLS 2.00 TFO -90.02
10,973	9619	1267	923	Start 10948.3 hold at 10973.0 MD
21,921	9642	12,215	897	TD at 21921.2

Checked By: _____ Approved By: _____ Date: _____

CONCHO

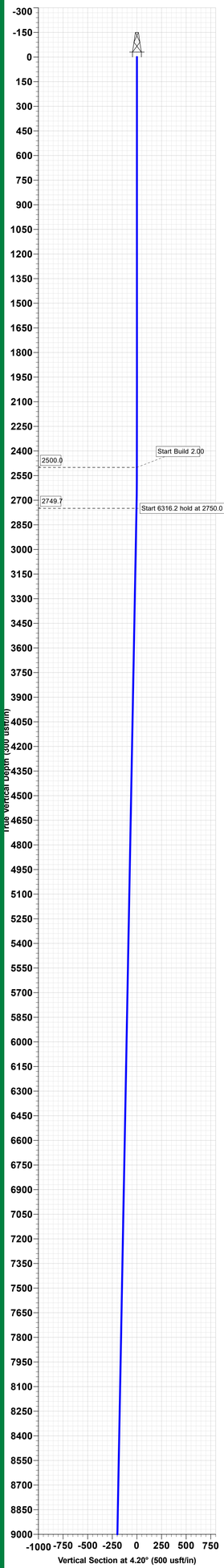
Project:	ATLAS PROSPECT (NM-E)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)
Well:	POTATO BABY ST COM #704H
Wellbore:	OWB
Design:	PWP2
GL:	3083.0
*KB=30' @ 3113.0usft (TBD)	

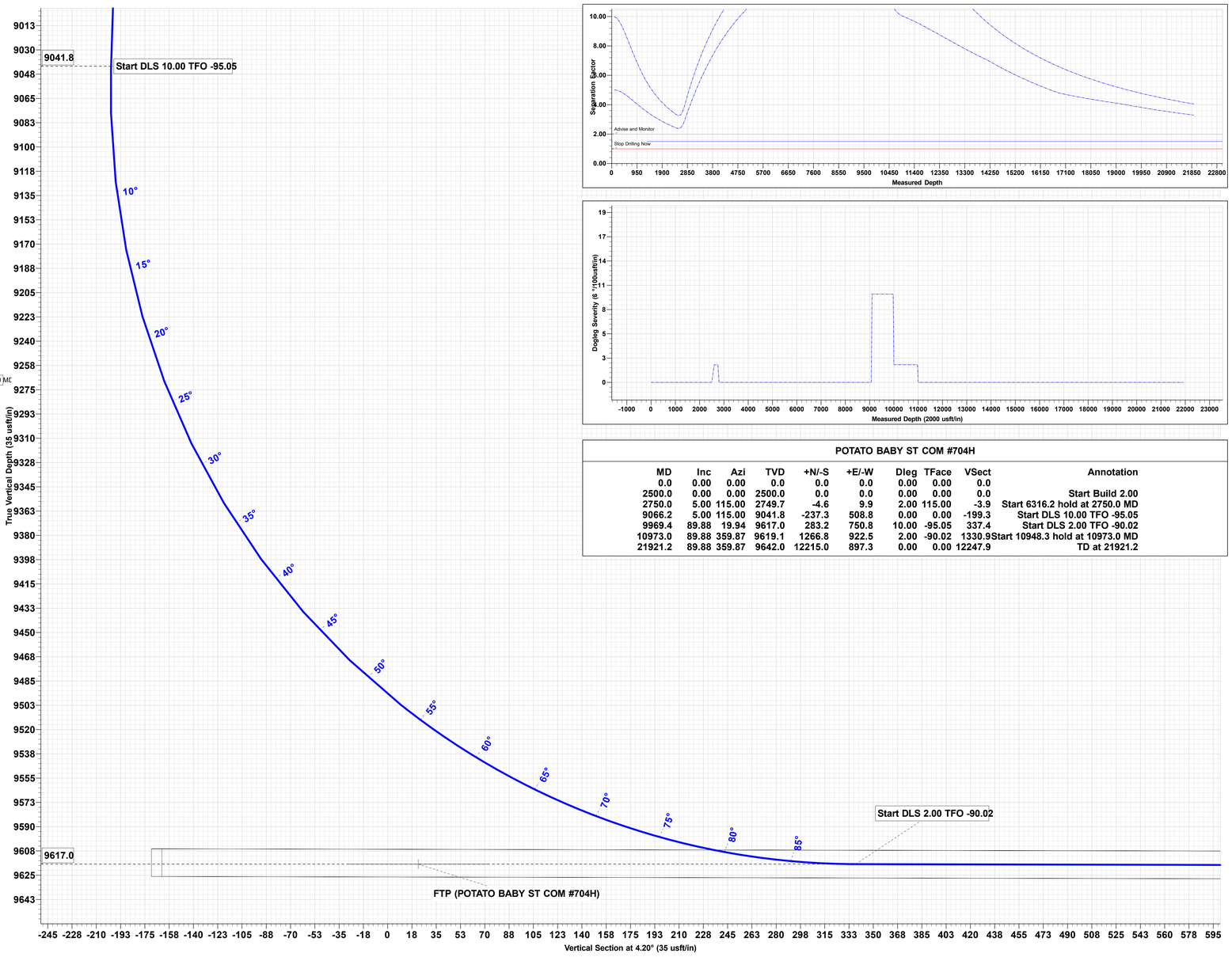
WELL DETAILS: POTATO BABY ST COM #704H

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.0	0.0	364151.61	579028.27	32° 0' 3.276 N	104° 4' 42.229 W

DESIGN TARGET DETAILS

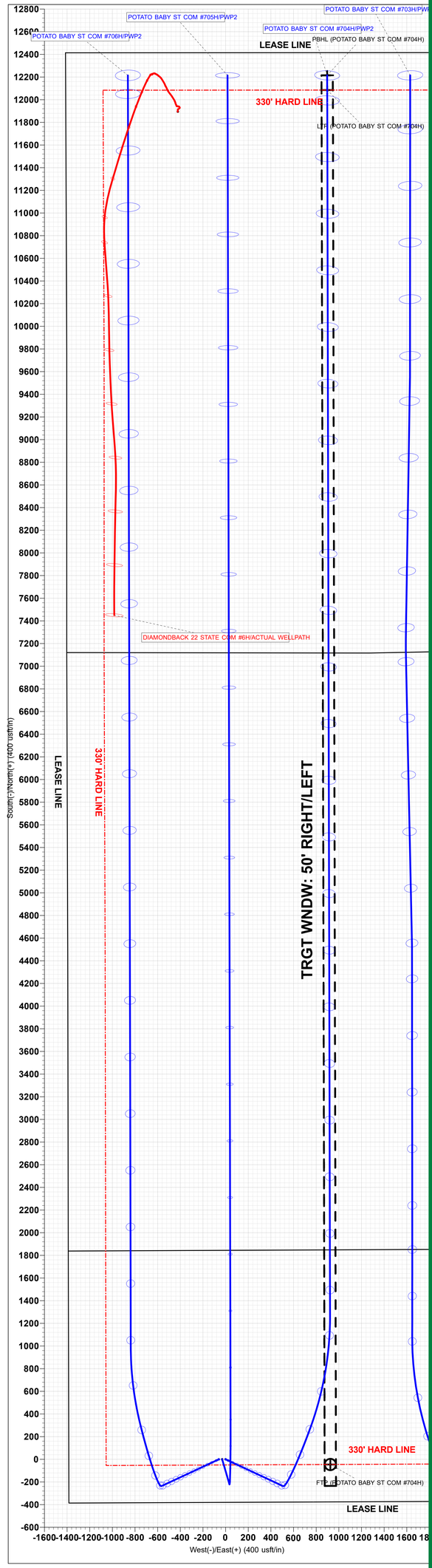
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (POTATO BABY ST COM #704H)	9617.0	-45.9	925.3	364105.71	579953.58	32° 0' 2.800 N	104° 4' 31.484 W
LTP (POTATO BABY ST COM #704H)	9642.0	12085.0	897.8	376236.59	579926.08	32° 2' 2.856 N	104° 4' 31.468 W
PBHL (POTATO BABY ST COM #704H)	9642.0	12215.0	897.3	376366.58	579925.53	32° 2' 4.142 N	104° 4' 31.470 W

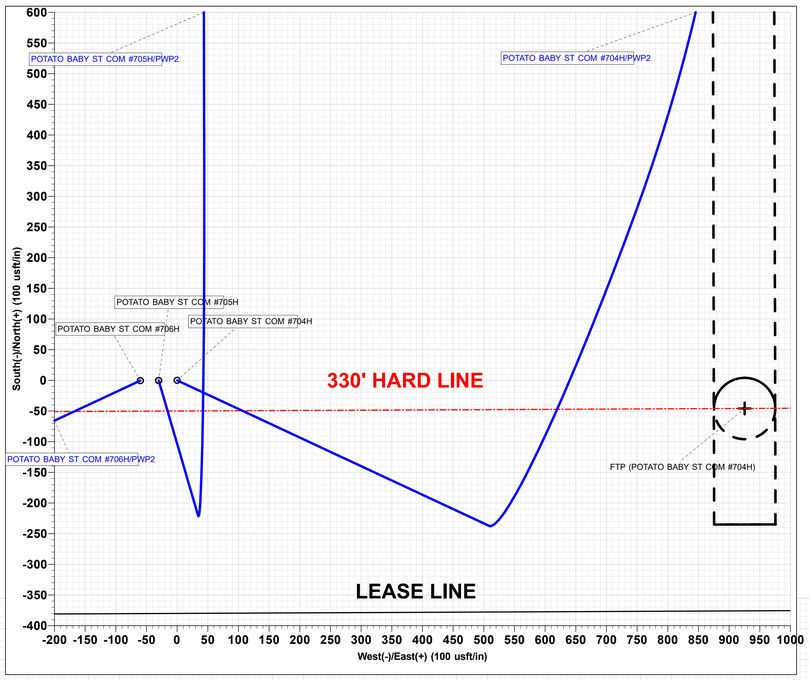


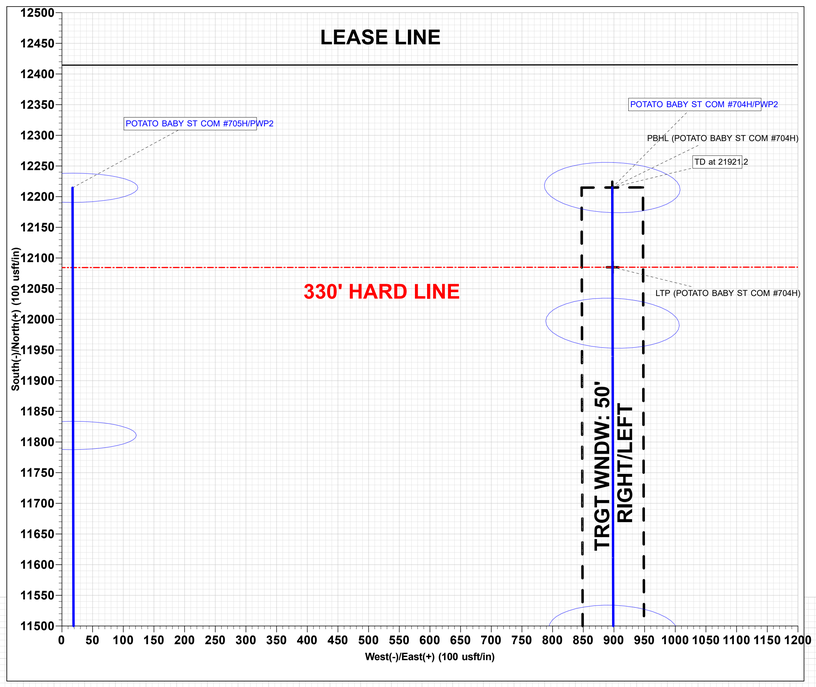


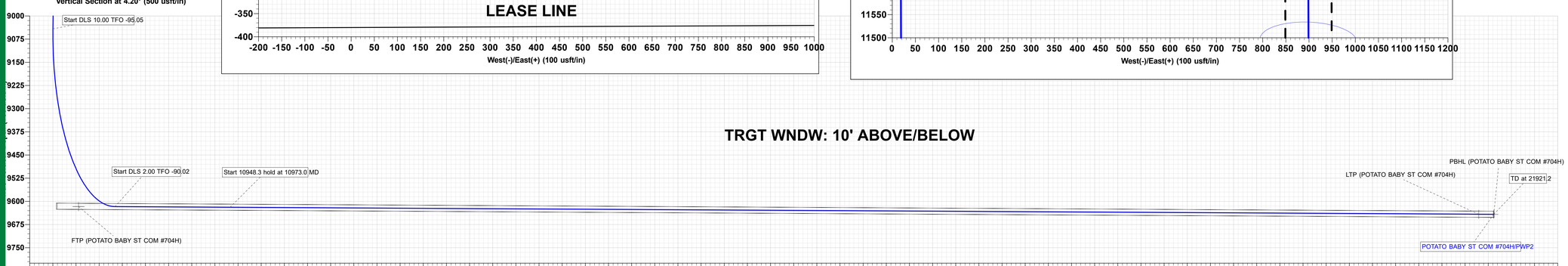
POTATO BABY ST COM #704H

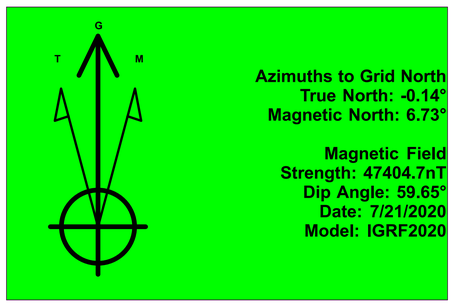
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2750.0	5.00	115.00	2749.7	-4.6	9.9	2.00	115.00	-3.9	Start 6316.2 hold at 2750.0 MD
9066.2	5.00	115.00	9041.8	-237.3	508.8	0.00	0.00	-199.3	Start DLS 10.00 TFO -95.05
9969.4	89.88	19.94	9617.0	283.2	750.8	10.00	-95.05	337.4	Start DLS 2.00 TFO -90.02
10973.0	89.88	359.87	9619.1	1266.8	922.5	2.00	-90.02	1330.9	Start 10948.3 hold at 10973.0 MD
21921.2	89.88	359.87	9642.0	12215.0	897.3	0.00	0.00	12247.9	TD at 21921.2











Azimuths to Grid North
True North: -0.14°
Magnetic North: 6.73°

Magnetic Field
Strength: 47404.7nT
Dip Angle: 59.65°
Date: 7/21/2020
Model: IGRF2020

Received by OCD: 9/24/2020 5:19:17 PM

COG Operating LLC

Rig Plat & Closed Loop Equipment Diagram

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

Flare Lines will be from both Choke Manifold & Separator to edge of location.

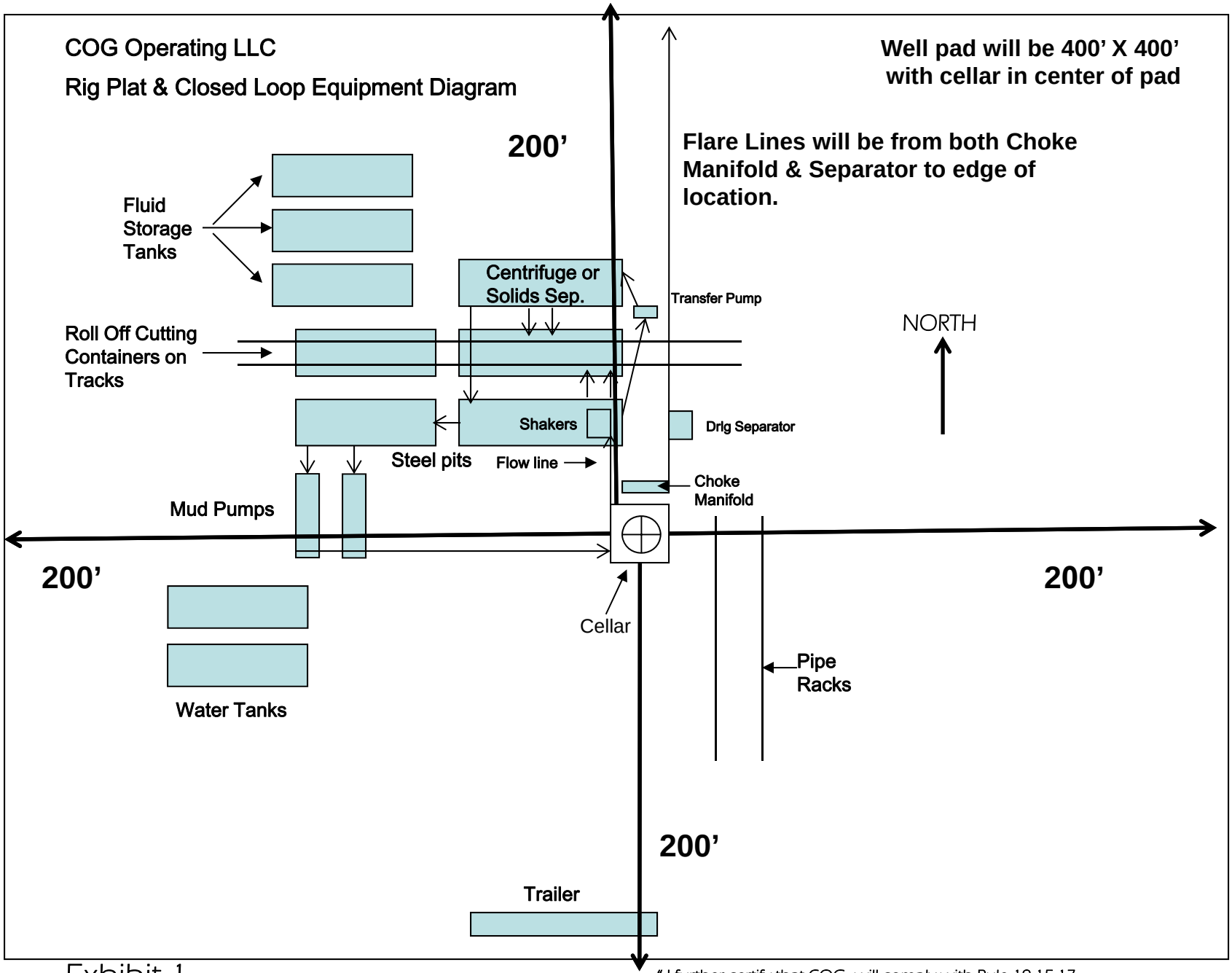


Exhibit 1

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