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

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

Form C-101
August 1, 2011

Permit 286692

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 30-015-47464

4. Property Code	5. Property Name	6. Well No.
329348	Potato Baby State Com	703H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	34	26S	28E	4	300	S	1240	E	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
B	22	26S	28E	B	200	N	2090	E	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	3075
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	21975	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	21975	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	703H

7 OGRID No.	8 Operator Name	9 Elevation
229137	COG OPERATING LLC	3075'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	34	26-S	28-E		300'	SOUTH	1240'	EAST	EDDY

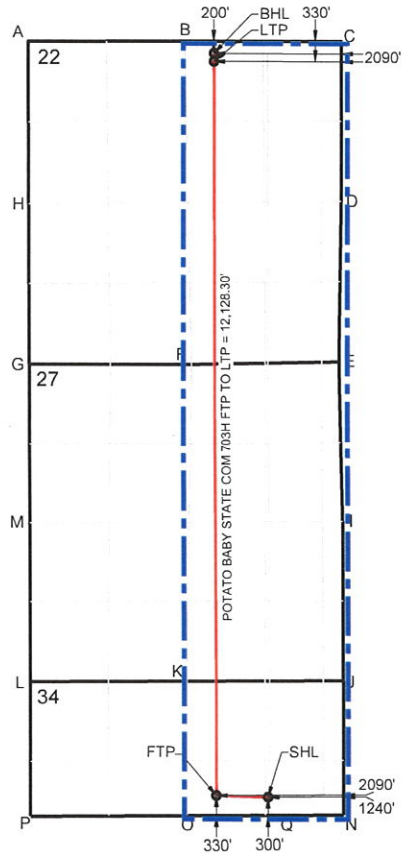
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	22	26-S	28-E		200'	NORTH	2090'	EAST	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'
I - FOUND IRON PIPE W/ BRASS CAP N:368720.47' E:623950.18'
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M - FOUND IRON PIPE W/ BRASS CAP N:366688.50' 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=621843.38
Y=376294.30
LAT.= 32.03424687° N
LONG.= 104.07353071° W
330' FNL, 2090' FEL
SECTION 22

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST - NAD 83
X=621843.50
Y=376424.30
LAT.= 32.03460423° N
LONG.= 104.07352932° W
200' FNL, 2090' FEL
SECTION 22

SURFACE HOLE LOCATION (SHL)
NEW MEXICO EAST - NAD 83
X=622717.12
Y=364139.85
LAT.= 32.00082888° N
LONG.= 104.07080638° W
300' FSL, 1240' FEL
SECTION 34

FIRST TAKE POINT (FTP)
NEW MEXICO EAST - NAD 83
X=621867.05
Y=364166.02
LAT.= 32.00090647° N
LONG.= 104.07354842° W
330' FSL, 2090' FEL
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	703H

Kick Off Point (KOP)

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

Latitude	Longitude	NAD
		83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
G	34	26S	28E	3	330	South	2090	East	Eddy

Latitude	Longitude	NAD
32.00090647	-104.07354842	NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
B	22	26S	28E		330	North	2090	East	Eddy

Latitude	Longitude	NAD
32.03424687	-104.07353071	NAD 83

Is this well the defining well for the Horizontal Spacing Unit? [YES]

Is this well an infill well? [NO]

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	703H

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 #703H	30-015-47464	H-34-26S-28E	0300S 1240E	5700	None	Red Bluff Low pressure gathering system. Sec 35-Blk 57, T2, Culberson Co., Texas

Gathering System and Pipeline Notification

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

Flowback Strategy

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

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

Alternatives to Reduce Flaring

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

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

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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 286692

PERMIT COMMENTS

Operator Name and Address:	API Number:
COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701	30-015-47464
	Well: Potato Baby State Com #703H

Created By	Comment	Comment Date

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

Form APD Conditions

Permit 286692

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701	30-015-47464
	Well: Potato Baby State Com #703H

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
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

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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	703H

7 OGRID No.	8 Operator Name	9 Elevation
229137	COG OPERATING LLC	3075'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	34	26-S	28-E		300'	SOUTH	1240'	EAST	EDDY

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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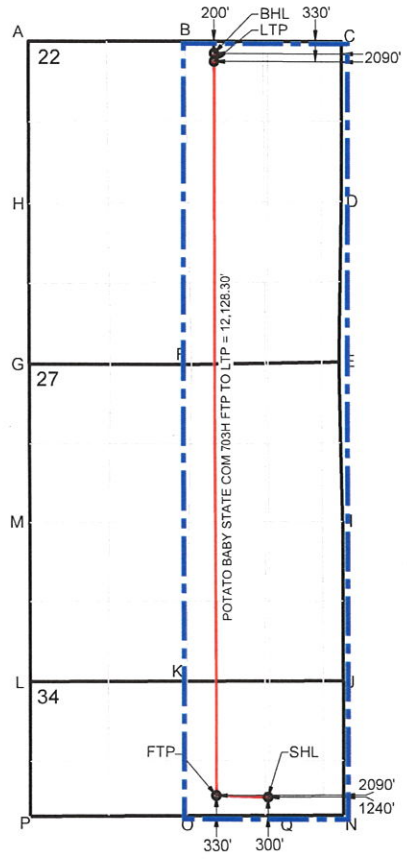
12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
767.52			

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
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SECTION 22

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NEW MEXICO EAST - NAD 83
X=622717.12
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LAT.= 32.00082888° N
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300' FSL, 1240' FEL
SECTION 34

FIRST TAKE POINT (FTP)
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Y=364166.02
LAT.= 32.00090647° N
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330' FSL, 2090' FEL
SECTION 34

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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	703H

Kick Off Point (KOP)

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

Latitude	Longitude	NAD
		83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
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Latitude	Longitude	NAD
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Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
B	22	26S	28E		330	North	2090	East	Eddy

Latitude	Longitude	NAD
32.03424687	-104.07353071	NAD 83

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

Is this well an infill well? NO

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	703H

KZ 06/29/2018

Potato Baby State Com #703H

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#	21975’	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 21975’ 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

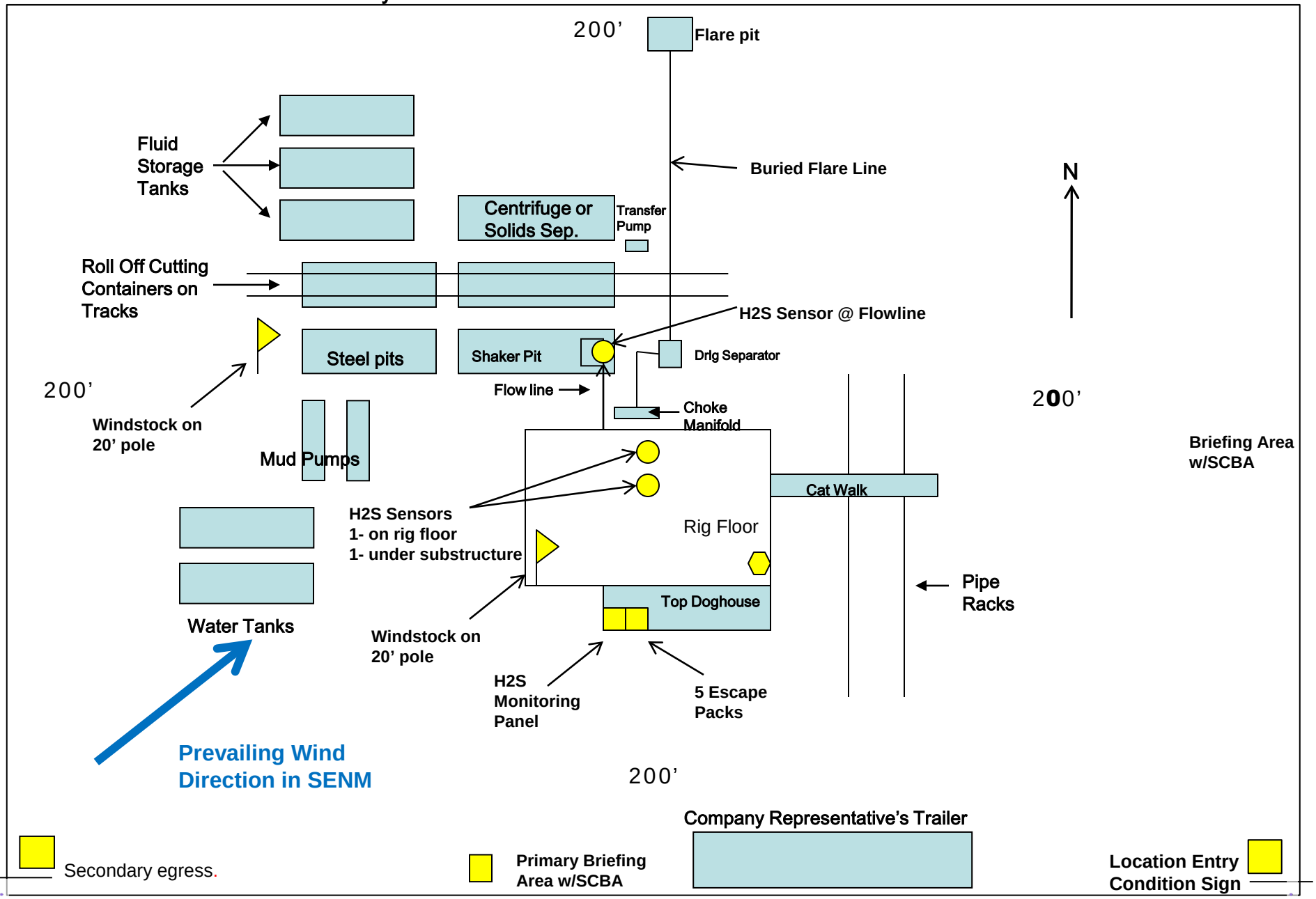
	OFFICE	MOBILE
COG OPERATING LLC OFFICE	575-748-6940	
SETH WILD	432-683-7443	432-528-3633
WALTER ROYE	575-748-6940	432-934-1886

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 #703H

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 #703H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3105.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3105.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #703H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	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	21,975.6	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 ST COM 11H - OWB - AWP	21,895.2	9,075.0	909.8	793.1	7.796	CC
DIAMONDBACK 22 ST COM 11H - OWB - AWP	21,900.0	9,075.0	909.8	793.0	7.794	ES, SF
DIAMONDBACK 22 ST COM 3H - OWB - AWP						Out of range
DIAMONDBACK 22 STATE COM #6H - OWB - ACTUAL						Out of range
POTATO BABY ST COM #701H - OWB - PWP2	2,500.0	2,498.0	60.0	47.3	4.732	CC, ES, SF
POTATO BABY ST COM #702H - OWB - PWP2	2,500.0	2,499.0	30.0	11.5	1.625	Advise and Monitor, CC, I
POTATO BABY ST COM #704H - OWB - PWP2	16,936.2	16,881.0	682.6	539.8	4.781	CC
POTATO BABY ST COM #704H - OWB - PWP2	21,975.6	21,920.0	733.1	510.5	3.293	ES, SF

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - DIAMONDBACK 22 ST COM 11H - OWB - AWP — **Offset Site Error:** 3.0 usft

Survey Program: 100-Standard Keeper 104, 8665-MWD — **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
21,500.0	9,643.0	9,168.0	9,106.5	108.1	8.7	61.83	12,159.0	-62.7	984.0	875.0	108.99	9.028	
21,600.0	9,643.2	9,137.0	9,086.9	108.9	8.5	60.22	12,175.3	-80.2	951.8	840.2	111.63	8.527	
21,700.0	9,643.4	9,116.1	9,072.7	109.7	8.3	59.09	12,185.7	-91.5	928.3	814.2	114.06	8.138	
21,800.0	9,643.6	9,105.0	9,064.8	110.5	8.3	58.48	12,191.0	-97.3	914.1	798.2	115.93	7.885	
21,895.2	9,643.8	9,075.0	9,042.5	111.3	8.1	56.79	12,204.4	-112.2	909.8	793.1	116.70	7.796	CC
21,900.0	9,643.8	9,075.0	9,042.5	111.3	8.1	56.79	12,204.4	-112.2	909.8	793.0	116.73	7.794	ES, SF
21,975.6	9,644.0	9,075.0	9,042.5	111.9	8.1	56.79	12,204.4	-112.2	913.3	796.5	116.84	7.817	

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 #703H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3105.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3105.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #703H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #701H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8968-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	89.74	0.3	60.0	60.0				
100.0	100.0	98.0	98.0	3.0	3.0	89.74	0.3	60.0	60.0	54.0	6.00	9.994	
200.0	200.0	198.0	198.0	3.0	3.0	89.74	0.3	60.0	60.0	54.0	6.04	9.932	
300.0	300.0	298.0	298.0	3.1	3.0	89.74	0.3	60.0	60.0	53.9	6.12	9.802	
400.0	400.0	398.0	398.0	3.2	3.0	89.74	0.3	60.0	60.0	53.8	6.24	9.613	
500.0	500.0	498.0	498.0	3.4	3.1	89.74	0.3	60.0	60.0	53.6	6.40	9.379	
600.0	600.0	598.0	598.0	3.6	3.1	89.74	0.3	60.0	60.0	53.4	6.58	9.112	
700.0	700.0	698.0	698.0	3.8	3.1	89.74	0.3	60.0	60.0	53.2	6.80	8.824	
800.0	800.0	798.0	798.0	4.0	3.2	89.74	0.3	60.0	60.0	53.0	7.04	8.526	
900.0	900.0	898.0	898.0	4.2	3.2	89.74	0.3	60.0	60.0	52.7	7.29	8.225	
1,000.0	1,000.0	998.0	998.0	4.5	3.2	89.74	0.3	60.0	60.0	52.4	7.57	7.927	
1,100.0	1,100.0	1,098.0	1,098.0	4.8	3.3	89.74	0.3	60.0	60.0	52.1	7.86	7.636	
1,200.0	1,200.0	1,198.0	1,198.0	5.1	3.4	89.74	0.3	60.0	60.0	51.8	8.16	7.354	
1,300.0	1,300.0	1,298.0	1,298.0	5.3	3.4	89.74	0.3	60.0	60.0	51.5	8.47	7.084	
1,400.0	1,400.0	1,398.0	1,398.0	5.6	3.5	89.74	0.3	60.0	60.0	51.2	8.79	6.825	
1,500.0	1,500.0	1,498.0	1,498.0	6.0	3.5	89.74	0.3	60.0	60.0	50.9	9.12	6.580	
1,600.0	1,600.0	1,598.0	1,598.0	6.3	3.6	89.74	0.3	60.0	60.0	50.5	9.45	6.347	
1,700.0	1,700.0	1,698.0	1,698.0	6.6	3.7	89.74	0.3	60.0	60.0	50.2	9.79	6.126	
1,800.0	1,800.0	1,798.0	1,798.0	6.9	3.8	89.74	0.3	60.0	60.0	49.9	10.14	5.916	
1,900.0	1,900.0	1,898.0	1,898.0	7.2	3.9	89.74	0.3	60.0	60.0	49.5	10.49	5.718	
2,000.0	2,000.0	1,998.0	1,998.0	7.6	3.9	89.74	0.3	60.0	60.0	49.1	10.85	5.531	
2,100.0	2,100.0	2,098.0	2,098.0	7.9	4.0	89.74	0.3	60.0	60.0	48.8	11.21	5.353	
2,200.0	2,200.0	2,198.0	2,198.0	8.2	4.1	89.74	0.3	60.0	60.0	48.4	11.57	5.185	
2,300.0	2,300.0	2,298.0	2,298.0	8.6	4.2	89.74	0.3	60.0	60.0	48.1	11.94	5.026	
2,400.0	2,400.0	2,398.0	2,398.0	8.9	4.3	89.74	0.3	60.0	60.0	47.7	12.31	4.875	
2,500.0	2,500.0	2,498.0	2,498.0	9.2	4.4	89.74	0.3	60.0	60.0	47.3	12.68	4.732	CC, ES, SF
2,600.0	2,600.0	2,596.1	2,596.1	9.6	4.4	-155.26	-0.4	61.5	63.1	50.0	13.04	4.838	
2,700.0	2,699.8	2,693.6	2,693.4	9.9	4.4	-155.21	-2.5	65.9	72.4	59.0	13.38	5.410	
2,750.0	2,749.7	2,741.9	2,741.6	10.0	4.4	-155.16	-4.0	69.2	79.4	65.8	13.55	5.857	
2,800.0	2,799.5	2,791.1	2,790.6	10.2	4.5	-155.14	-5.9	73.1	87.2	73.5	13.73	6.354	
2,900.0	2,899.1	2,889.8	2,889.0	10.5	4.5	-155.11	-9.5	80.9	103.0	88.9	14.09	7.307	
3,000.0	2,998.7	2,988.6	2,987.4	10.8	4.5	-155.08	-13.1	88.7	118.7	104.3	14.46	8.210	
3,100.0	3,098.4	3,087.4	3,085.7	11.2	4.5	-155.06	-16.8	96.5	134.5	119.6	14.84	9.063	
3,200.0	3,198.0	3,186.1	3,184.1	11.5	4.5	-155.05	-20.4	104.3	150.2	135.0	15.22	9.872	
3,300.0	3,297.6	3,284.9	3,282.5	11.8	4.5	-155.04	-24.0	112.1	166.0	150.4	15.60	10.637	
3,400.0	3,397.2	3,383.6	3,380.9	12.2	4.6	-155.03	-27.7	119.9	181.7	165.7	15.99	11.362	
3,500.0	3,496.8	3,482.4	3,479.3	12.5	4.6	-155.02	-31.3	127.7	197.5	181.1	16.39	12.049	
3,600.0	3,596.4	3,581.1	3,577.6	12.9	4.6	-155.01	-34.9	135.5	213.2	196.4	16.79	12.701	
3,700.0	3,696.1	3,679.9	3,676.0	13.2	4.7	-155.00	-38.6	143.3	229.0	211.8	17.19	13.319	
3,800.0	3,795.7	3,778.6	3,774.4	13.5	4.7	-155.00	-42.2	151.1	244.7	227.1	17.60	13.906	
3,900.0	3,895.3	3,877.4	3,872.8	13.9	4.8	-154.99	-45.9	158.9	260.5	242.4	18.01	14.463	
4,000.0	3,994.9	3,976.1	3,971.1	14.2	4.8	-154.99	-49.5	166.7	276.2	257.8	18.42	14.993	
4,100.0	4,094.5	4,074.9	4,069.5	14.6	4.9	-154.98	-53.1	174.5	292.0	273.1	18.84	15.497	
4,200.0	4,194.2	4,173.6	4,167.9	14.9	4.9	-154.98	-56.8	182.3	307.7	288.4	19.26	15.977	
4,300.0	4,293.8	4,272.4	4,266.3	15.3	5.0	-154.98	-60.4	190.1	323.4	303.8	19.68	16.434	
4,400.0	4,393.4	4,371.1	4,364.6	15.6	5.1	-154.98	-64.0	197.9	339.2	319.1	20.11	16.869	
4,500.0	4,493.0	4,469.9	4,463.0	16.0	5.1	-154.97	-67.7	205.7	354.9	334.4	20.54	17.285	
4,600.0	4,592.6	4,568.6	4,561.4	16.3	5.2	-154.97	-71.3	213.5	370.7	349.7	20.97	17.681	
4,700.0	4,692.3	4,667.4	4,659.8	16.6	5.3	-154.97	-75.0	221.3	386.4	365.0	21.40	18.059	
4,800.0	4,791.9	4,766.1	4,758.1	17.0	5.3	-154.97	-78.6	229.1	402.2	380.4	21.83	18.421	
4,900.0	4,891.5	4,864.9	4,856.5	17.3	5.4	-154.96	-82.2	236.9	417.9	395.7	22.27	18.767	

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 #703H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3105.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3105.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #703H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #701H - OWB - PWP2 — **Offset Site Error:** 3.0 usft

Survey Program: 0-Standard Keeper 104, 8968-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	4,963.6	4,954.9	17.7	5.5	-154.96	-85.9	244.7	433.7	411.0	22.71	19.098	
5,100.0	5,090.7	5,062.4	5,053.3	18.1	5.6	-154.96	-89.5	252.5	449.4	426.3	23.15	19.414	
5,200.0	5,190.4	5,161.1	5,151.7	18.4	5.6	-154.96	-93.1	260.3	465.2	441.6	23.59	19.718	
5,300.0	5,290.0	5,259.9	5,250.0	18.8	5.7	-154.96	-96.8	268.1	480.9	456.9	24.04	20.009	
5,400.0	5,389.6	5,358.6	5,348.4	19.1	5.8	-154.96	-100.4	275.9	496.7	472.2	24.48	20.288	
5,500.0	5,489.2	5,457.4	5,446.8	19.5	5.9	-154.96	-104.1	283.7	512.4	487.5	24.93	20.556	
5,600.0	5,588.8	5,556.2	5,545.2	19.8	6.0	-154.95	-107.7	291.5	528.2	502.8	25.38	20.813	
5,700.0	5,688.5	5,654.9	5,643.5	20.2	6.1	-154.95	-111.3	299.3	543.9	518.1	25.83	21.060	
5,800.0	5,788.1	5,753.7	5,741.9	20.5	6.2	-154.95	-115.0	307.1	559.7	533.4	26.28	21.298	
5,900.0	5,887.7	5,852.4	5,840.3	20.9	6.2	-154.95	-118.6	314.9	575.4	548.7	26.73	21.526	
6,000.0	5,987.3	5,951.2	5,938.7	21.2	6.3	-154.95	-122.2	322.7	591.2	564.0	27.19	21.746	
6,100.0	6,086.9	6,049.9	6,037.0	21.6	6.4	-154.95	-125.9	330.5	606.9	579.3	27.64	21.958	
6,200.0	6,186.6	6,148.7	6,135.4	22.0	6.5	-154.95	-129.5	338.3	622.7	594.6	28.10	22.162	
6,300.0	6,286.2	6,247.4	6,233.8	22.3	6.6	-154.95	-133.2	346.1	638.4	609.9	28.55	22.359	
6,400.0	6,385.8	6,346.2	6,332.2	22.7	6.7	-154.95	-136.8	353.9	654.2	625.2	29.01	22.549	
6,500.0	6,485.4	6,444.9	6,430.5	23.0	6.8	-154.95	-140.4	361.7	669.9	640.4	29.47	22.732	
6,600.0	6,585.0	6,543.7	6,528.9	23.4	6.9	-154.95	-144.1	369.5	685.7	655.7	29.93	22.909	
6,700.0	6,684.7	6,642.4	6,627.3	23.7	7.0	-154.94	-147.7	377.3	701.4	671.0	30.39	23.080	
6,800.0	6,784.3	6,741.2	6,725.7	24.1	7.1	-154.94	-151.3	385.1	717.2	686.3	30.85	23.245	
6,900.0	6,883.9	6,839.9	6,824.1	24.5	7.2	-154.94	-155.0	392.9	732.9	701.6	31.31	23.405	
7,000.0	6,983.5	6,938.7	6,922.4	24.8	7.3	-154.94	-158.6	400.7	748.7	716.9	31.78	23.560	
7,100.0	7,083.1	7,037.4	7,020.8	25.2	7.4	-154.94	-162.3	408.5	764.4	732.2	32.24	23.709	
7,200.0	7,182.7	7,136.2	7,119.2	25.5	7.5	-154.94	-165.9	416.3	780.2	747.5	32.71	23.854	
7,300.0	7,282.4	7,234.9	7,217.6	25.9	7.6	-154.94	-169.5	424.1	795.9	762.7	33.17	23.994	
7,400.0	7,382.0	7,333.7	7,315.9	26.2	7.8	-154.94	-173.2	431.9	811.7	778.0	33.64	24.129	
7,500.0	7,481.6	7,432.4	7,414.3	26.6	7.9	-154.94	-176.8	439.7	827.4	793.3	34.10	24.261	
7,600.0	7,581.2	7,531.2	7,512.7	27.0	8.0	-154.94	-180.4	447.5	843.2	808.6	34.57	24.389	
7,700.0	7,680.8	7,629.9	7,611.1	27.3	8.1	-154.94	-184.1	455.3	858.9	823.9	35.04	24.512	
7,800.0	7,780.5	7,728.7	7,709.4	27.7	8.2	-154.94	-187.7	463.1	874.6	839.1	35.51	24.632	
7,900.0	7,880.1	7,827.5	7,807.8	28.0	8.3	-154.94	-191.4	470.9	890.4	854.4	35.98	24.749	
8,000.0	7,979.7	7,926.2	7,906.2	28.4	8.4	-154.94	-195.0	478.7	906.1	869.7	36.45	24.862	
8,100.0	8,079.3	8,025.0	8,004.6	28.8	8.5	-154.94	-198.6	486.5	921.9	885.0	36.92	24.972	
8,200.0	8,178.9	8,123.7	8,102.9	29.1	8.6	-154.94	-202.3	494.3	937.6	900.3	37.39	25.079	
8,300.0	8,278.6	8,222.5	8,201.3	29.5	8.7	-154.94	-205.9	502.1	953.4	915.5	37.86	25.182	
8,400.0	8,378.2	8,321.2	8,299.7	29.8	8.9	-154.94	-209.5	509.9	969.1	930.8	38.33	25.283	
8,500.0	8,477.8	8,420.0	8,398.1	30.2	9.0	-154.94	-213.2	517.7	984.9	946.1	38.80	25.381	

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3105.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3105.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #703H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #702H - 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	89.73	0.1	30.0	30.0				
100.0	100.0	99.0	99.0	3.0	3.0	89.73	0.1	30.0	30.0	24.0	6.01	4.996	
200.0	200.0	199.0	199.0	3.0	3.0	89.73	0.1	30.0	30.0	23.9	6.08	4.937	
300.0	300.0	299.0	299.0	3.1	3.1	89.73	0.1	30.0	30.0	23.8	6.23	4.815	
400.0	400.0	399.0	399.0	3.2	3.2	89.73	0.1	30.0	30.0	23.5	6.46	4.643	
500.0	500.0	499.0	499.0	3.4	3.4	89.73	0.1	30.0	30.0	23.2	6.76	4.438	
600.0	600.0	599.0	599.0	3.6	3.6	89.73	0.1	30.0	30.0	22.9	7.12	4.214	
700.0	700.0	699.0	699.0	3.8	3.8	89.73	0.1	30.0	30.0	22.5	7.53	3.984	
800.0	800.0	799.0	799.0	4.0	4.0	89.73	0.1	30.0	30.0	22.0	7.98	3.758	
900.0	900.0	899.0	899.0	4.2	4.2	89.73	0.1	30.0	30.0	21.5	8.47	3.541	
1,000.0	1,000.0	999.0	999.0	4.5	4.5	89.73	0.1	30.0	30.0	21.0	8.99	3.336	
1,100.0	1,100.0	1,099.0	1,099.0	4.8	4.8	89.73	0.1	30.0	30.0	20.5	9.54	3.145	
1,200.0	1,200.0	1,199.0	1,199.0	5.1	5.1	89.73	0.1	30.0	30.0	19.9	10.11	2.968	
1,300.0	1,300.0	1,299.0	1,299.0	5.3	5.3	89.73	0.1	30.0	30.0	19.3	10.69	2.806	
1,400.0	1,400.0	1,399.0	1,399.0	5.6	5.6	89.73	0.1	30.0	30.0	18.7	11.29	2.656	
1,500.0	1,500.0	1,499.0	1,499.0	6.0	6.0	89.73	0.1	30.0	30.0	18.1	11.91	2.520	
1,600.0	1,600.0	1,599.0	1,599.0	6.3	6.3	89.73	0.1	30.0	30.0	17.5	12.53	2.394	
1,700.0	1,700.0	1,699.0	1,699.0	6.6	6.6	89.73	0.1	30.0	30.0	16.8	13.17	2.279	
1,800.0	1,800.0	1,799.0	1,799.0	6.9	6.9	89.73	0.1	30.0	30.0	16.2	13.81	2.173	
1,900.0	1,900.0	1,899.0	1,899.0	7.2	7.2	89.73	0.1	30.0	30.0	15.5	14.46	2.075	
2,000.0	2,000.0	1,999.0	1,999.0	7.6	7.6	89.73	0.1	30.0	30.0	14.9	15.11	1.985	Advise and Monitor
2,100.0	2,100.0	2,099.0	2,099.0	7.9	7.9	89.73	0.1	30.0	30.0	14.2	15.77	1.902	Advise and Monitor
2,200.0	2,200.0	2,199.0	2,199.0	8.2	8.2	89.73	0.1	30.0	30.0	13.6	16.44	1.825	Advise and Monitor
2,300.0	2,300.0	2,299.0	2,299.0	8.6	8.6	89.73	0.1	30.0	30.0	12.9	17.11	1.754	Advise and Monitor
2,400.0	2,400.0	2,399.0	2,399.0	8.9	8.9	89.73	0.1	30.0	30.0	12.2	17.78	1.687	Advise and Monitor
2,500.0	2,500.0	2,499.0	2,499.0	9.2	9.2	89.73	0.1	30.0	30.0	11.5	18.46	1.625	Advise and Monitor, CC, ES, SF
2,600.0	2,600.0	2,599.0	2,599.0	9.6	9.5	-153.47	-1.6	30.0	31.5	12.4	19.11	1.651	Advise and Monitor
2,700.0	2,699.8	2,698.8	2,698.6	9.9	9.9	-148.92	-6.8	29.8	36.3	16.6	19.73	1.842	Advise and Monitor
2,750.0	2,749.7	2,748.6	2,748.4	10.0	10.0	-146.80	-10.2	29.7	40.0	19.9	20.04	1.995	Advise and Monitor
2,800.0	2,799.5	2,798.5	2,798.1	10.2	10.2	-145.39	-13.7	29.6	44.0	23.7	20.36	2.164	
2,900.0	2,899.1	2,898.1	2,897.5	10.5	10.5	-143.24	-20.7	29.4	52.2	31.2	20.99	2.488	
3,000.0	2,998.7	2,997.8	2,996.9	10.8	10.8	-141.67	-27.6	29.2	60.5	38.8	21.63	2.795	
3,100.0	3,098.4	3,097.4	3,096.3	11.2	11.1	-140.48	-34.5	29.0	68.7	46.4	22.27	3.085	
3,200.0	3,198.0	3,197.1	3,195.7	11.5	11.4	-139.54	-41.5	28.8	77.0	54.1	22.92	3.359	
3,300.0	3,297.6	3,296.7	3,295.1	11.8	11.8	-138.79	-48.4	28.6	85.3	61.7	23.58	3.618	
3,400.0	3,397.2	3,396.4	3,394.5	12.2	12.1	-138.17	-55.4	28.5	93.6	69.4	24.23	3.863	
3,500.0	3,496.8	3,496.0	3,493.9	12.5	12.4	-137.65	-62.3	28.3	102.0	77.1	24.90	4.095	
3,600.0	3,596.4	3,595.7	3,593.3	12.9	12.7	-137.21	-69.3	28.1	110.3	84.7	25.56	4.314	
3,700.0	3,696.1	3,695.3	3,692.7	13.2	13.1	-136.83	-76.2	27.9	118.6	92.4	26.23	4.522	
3,800.0	3,795.7	3,795.0	3,792.1	13.5	13.4	-136.50	-83.2	27.7	127.0	100.1	26.90	4.719	
3,900.0	3,895.3	3,894.6	3,891.5	13.9	13.7	-136.21	-90.1	27.5	135.3	107.7	27.58	4.906	
4,000.0	3,994.9	3,994.3	3,990.9	14.2	14.1	-135.96	-97.1	27.3	143.7	115.4	28.26	5.084	
4,100.0	4,094.5	4,093.9	4,090.4	14.6	14.4	-135.73	-104.0	27.1	152.0	123.1	28.94	5.253	
4,200.0	4,194.2	4,193.6	4,189.8	14.9	14.7	-135.53	-111.0	26.9	160.4	130.7	29.62	5.414	
4,300.0	4,293.8	4,293.2	4,289.2	15.3	15.1	-135.34	-117.9	26.7	168.7	138.4	30.30	5.568	
4,400.0	4,393.4	4,392.9	4,388.6	15.6	15.4	-135.18	-124.9	26.5	177.1	146.1	30.99	5.714	
4,500.0	4,493.0	4,492.5	4,488.0	16.0	15.8	-135.03	-131.8	26.3	185.4	153.8	31.68	5.854	
4,600.0	4,592.6	4,592.2	4,587.4	16.3	16.1	-134.89	-138.8	26.1	193.8	161.4	32.37	5.988	
4,700.0	4,692.3	4,691.8	4,686.8	16.6	16.5	-134.76	-145.7	25.9	202.2	169.1	33.06	6.115	
4,800.0	4,791.9	4,791.5	4,786.2	17.0	16.8	-134.65	-152.7	25.7	210.5	176.8	33.75	6.237	
4,900.0	4,891.5	4,891.1	4,885.6	17.3	17.1	-134.54	-159.6	25.6	218.9	184.4	34.44	6.354	

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 #703H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3105.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3105.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #703H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #702H - 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	4,990.7	4,985.0	17.7	17.5	-134.44	-166.6	25.4	227.2	192.1	35.14	6.467	
5,100.0	5,090.7	5,090.4	5,084.4	18.1	17.8	-134.35	-173.5	25.2	235.6	199.8	35.84	6.574	
5,200.0	5,190.4	5,190.0	5,183.8	18.4	18.2	-134.26	-180.5	25.0	244.0	207.4	36.53	6.678	
5,300.0	5,290.0	5,289.7	5,283.2	18.8	18.5	-134.18	-187.4	24.8	252.3	215.1	37.23	6.777	
5,400.0	5,389.6	5,389.3	5,382.6	19.1	18.9	-134.10	-194.4	24.6	260.7	222.8	37.93	6.872	
5,500.0	5,489.2	5,489.0	5,482.0	19.5	19.2	-134.03	-201.3	24.4	269.1	230.4	38.64	6.964	
5,600.0	5,588.8	5,588.6	5,581.4	19.8	19.6	-133.97	-208.3	24.2	277.4	238.1	39.34	7.052	
5,700.0	5,688.5	5,688.3	5,680.9	20.2	19.9	-133.90	-215.2	24.0	285.8	245.7	40.04	7.137	
5,800.0	5,788.1	5,787.9	5,780.3	20.5	20.3	-133.84	-222.2	23.8	294.2	253.4	40.74	7.220	
5,900.0	5,887.7	5,890.8	5,883.0	20.9	20.6	-134.05	-227.8	23.7	302.0	260.6	41.47	7.283	
6,000.0	5,987.3	5,994.0	5,986.2	21.2	21.0	-134.90	-229.9	23.6	308.8	266.6	42.19	7.320	
6,100.0	6,086.9	6,093.8	6,085.9	21.6	21.3	-136.03	-229.9	23.6	315.0	272.1	42.88	7.346	
6,200.0	6,186.6	6,193.4	6,185.6	22.0	21.7	-137.10	-229.9	23.6	321.4	277.8	43.58	7.375	
6,300.0	6,286.2	6,293.0	6,285.2	22.3	22.0	-138.14	-229.9	23.6	327.8	283.5	44.27	7.405	
6,400.0	6,385.8	6,392.7	6,384.8	22.7	22.3	-139.13	-229.9	23.6	334.4	289.4	44.97	7.436	
6,500.0	6,485.4	6,492.3	6,484.4	23.0	22.7	-140.09	-229.9	23.6	341.0	295.3	45.66	7.468	
6,600.0	6,585.0	6,591.9	6,584.0	23.4	23.0	-141.01	-229.9	23.6	347.8	301.4	46.36	7.501	
6,700.0	6,684.7	6,691.5	6,683.7	23.7	23.4	-141.89	-229.9	23.6	354.6	307.5	47.06	7.535	
6,800.0	6,784.3	6,791.1	6,783.3	24.1	23.7	-142.75	-229.9	23.6	361.5	313.7	47.75	7.570	
6,900.0	6,883.9	6,890.8	6,882.9	24.5	24.1	-143.57	-229.9	23.6	368.5	320.0	48.45	7.605	
7,000.0	6,983.5	6,990.4	6,982.5	24.8	24.4	-144.35	-229.9	23.6	375.5	326.4	49.15	7.640	
7,100.0	7,083.1	7,090.0	7,082.1	25.2	24.7	-145.11	-229.9	23.6	382.7	332.8	49.85	7.676	
7,200.0	7,182.7	7,189.6	7,181.7	25.5	25.1	-145.85	-229.9	23.6	389.8	339.3	50.55	7.712	
7,300.0	7,282.4	7,289.2	7,281.4	25.9	25.4	-146.55	-229.9	23.6	397.1	345.8	51.25	7.748	
7,400.0	7,382.0	7,388.9	7,381.0	26.2	25.8	-147.23	-229.9	23.6	404.4	352.4	51.95	7.784	
7,500.0	7,481.6	7,488.5	7,480.6	26.6	26.1	-147.89	-229.9	23.6	411.8	359.1	52.66	7.820	
7,600.0	7,581.2	7,588.1	7,580.2	27.0	26.5	-148.52	-229.9	23.6	419.2	365.8	53.36	7.856	
7,700.0	7,680.8	7,687.7	7,679.8	27.3	26.8	-149.13	-229.9	23.6	426.6	372.6	54.06	7.892	
7,800.0	7,780.5	7,787.3	7,779.5	27.7	27.2	-149.72	-229.9	23.6	434.2	379.4	54.76	7.928	
7,900.0	7,880.1	7,887.0	7,879.1	28.0	27.5	-150.29	-229.9	23.6	441.7	386.2	55.47	7.963	
8,000.0	7,979.7	7,986.6	7,978.7	28.4	27.9	-150.84	-229.9	23.6	449.3	393.1	56.17	7.999	
8,100.0	8,079.3	8,086.2	8,078.3	28.8	28.2	-151.37	-229.9	23.6	456.9	400.1	56.88	8.034	
8,200.0	8,178.9	8,185.8	8,177.9	29.1	28.5	-151.89	-229.9	23.6	464.6	407.0	57.58	8.069	
8,300.0	8,278.6	8,285.4	8,277.6	29.5	28.9	-152.38	-229.9	23.6	472.3	414.0	58.29	8.104	
8,400.0	8,378.2	8,385.1	8,377.2	29.8	29.2	-152.87	-229.9	23.6	480.1	421.1	58.99	8.138	
8,500.0	8,477.8	8,484.7	8,476.8	30.2	29.6	-153.33	-229.9	23.6	487.9	428.2	59.70	8.172	
8,600.0	8,577.4	8,584.3	8,576.4	30.6	29.9	-153.78	-229.9	23.6	495.7	435.3	60.41	8.206	
8,700.0	8,677.0	8,683.9	8,676.0	30.9	30.3	-154.22	-229.9	23.6	503.5	442.4	61.11	8.239	
8,800.0	8,776.7	8,783.5	8,775.7	31.3	30.6	-154.65	-229.9	23.6	511.4	449.6	61.82	8.272	
8,900.0	8,876.3	8,883.2	8,875.3	31.7	31.0	-155.06	-229.9	23.6	519.3	456.7	62.53	8.305	
9,000.0	8,975.9	8,982.8	8,974.9	32.0	31.3	-155.46	-229.9	23.6	527.2	464.0	63.23	8.337	
9,065.9	9,041.5	9,048.4	9,040.5	32.3	31.6	-155.71	-229.9	23.6	532.4	468.7	63.70	8.358	
9,100.0	9,075.5	9,082.1	9,074.2	32.4	31.7	167.33	-229.5	23.6	535.4	471.5	63.94	8.374	
9,150.0	9,125.1	9,131.0	9,123.0	32.6	31.8	138.39	-225.8	23.6	540.9	476.6	64.28	8.414	
9,200.0	9,174.1	9,179.8	9,171.1	32.7	32.0	126.36	-218.0	23.6	547.6	483.0	64.62	8.474	
9,250.0	9,222.1	9,228.3	9,218.1	32.9	32.2	119.95	-206.2	23.6	555.5	490.6	64.95	8.553	
9,300.0	9,268.9	9,276.5	9,263.7	33.1	32.3	115.76	-190.5	23.6	564.5	499.3	65.26	8.651	
9,350.0	9,313.9	9,324.5	9,307.6	33.2	32.5	112.63	-171.1	23.6	574.6	509.0	65.56	8.764	
9,400.0	9,356.9	9,372.3	9,349.6	33.3	32.6	110.06	-148.3	23.7	585.7	519.8	65.85	8.894	
9,450.0	9,397.6	9,419.8	9,389.3	33.5	32.8	107.81	-122.2	23.7	597.6	531.5	66.12	9.038	
9,500.0	9,435.6	9,467.1	9,426.5	33.6	32.9	105.76	-93.1	23.7	610.4	544.0	66.38	9.195	

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 #703H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3105.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3105.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #703H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #702H - 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
9,550.0	9,470.7	9,514.2	9,461.1	33.7	33.0	103.84	-61.1	23.7	623.8	557.2	66.62	9.363	
9,600.0	9,502.5	9,561.2	9,492.9	33.8	33.1	102.01	-26.4	23.8	637.9	571.0	66.85	9.541	
9,650.0	9,530.9	9,608.2	9,521.6	33.9	33.2	100.26	10.6	23.8	652.4	585.3	67.07	9.728	
9,700.0	9,555.6	9,655.1	9,547.3	34.0	33.3	98.58	49.9	23.8	667.3	600.1	67.26	9.921	
9,750.0	9,576.5	9,702.0	9,569.6	34.1	33.4	96.96	91.2	23.9	682.5	615.1	67.45	10.119	
9,800.0	9,593.3	9,749.1	9,588.5	34.1	33.5	95.41	134.3	23.9	697.9	630.3	67.62	10.321	
9,850.0	9,606.0	9,796.4	9,603.9	34.2	33.6	93.93	178.9	23.9	713.3	645.5	67.77	10.526	
9,900.0	9,614.4	9,843.9	9,615.6	34.3	33.6	92.52	225.0	24.0	728.7	660.8	67.91	10.730	
9,950.0	9,618.6	9,891.7	9,623.5	34.3	33.7	91.19	272.1	24.0	743.8	675.8	68.03	10.934	
9,971.4	9,619.0	9,912.3	9,625.7	34.4	33.7	90.65	292.6	24.0	750.2	682.2	68.07	11.021	
10,000.0	9,619.1	9,940.0	9,627.5	34.4	33.7	90.78	320.3	24.1	758.6	690.5	68.13	11.135	
10,100.0	9,619.3	10,036.6	9,628.1	34.5	33.8	90.77	416.9	24.1	785.8	717.4	68.34	11.498	
10,200.0	9,619.5	10,133.8	9,628.3	34.7	33.9	90.74	514.0	24.2	809.5	740.9	68.58	11.803	
10,300.0	9,619.7	10,231.7	9,628.6	34.9	34.1	90.72	611.9	24.3	829.9	761.0	68.87	12.049	
10,400.0	9,619.9	10,330.2	9,628.8	35.1	34.2	90.69	710.4	24.4	846.8	777.6	69.20	12.237	
10,500.0	9,620.1	10,429.3	9,629.0	35.3	34.4	90.68	809.5	24.5	860.3	790.7	69.57	12.365	
10,600.0	9,620.4	10,528.8	9,629.2	35.5	34.6	90.66	909.0	24.5	870.3	800.3	69.98	12.436	
10,700.0	9,620.6	10,628.6	9,629.4	35.7	34.8	90.65	1,008.8	24.6	876.8	806.4	70.43	12.449	
10,800.0	9,620.8	10,728.5	9,629.7	36.0	35.1	90.65	1,108.8	24.7	879.8	808.9	70.91	12.407	
10,837.1	9,620.9	10,765.6	9,629.8	36.1	35.2	90.64	1,145.8	24.7	880.1	809.0	71.10	12.378	
10,900.0	9,621.0	10,828.5	9,629.9	36.2	35.3	90.64	1,208.8	24.8	880.1	808.6	71.43	12.321	
11,000.0	9,621.2	10,928.5	9,630.1	36.5	35.6	90.65	1,308.8	24.9	880.1	808.1	71.99	12.225	
11,100.0	9,621.4	11,028.5	9,630.3	36.8	35.9	90.65	1,408.8	25.0	880.1	807.5	72.58	12.125	
11,200.0	9,621.6	11,128.5	9,630.6	37.1	36.2	90.65	1,508.8	25.0	880.1	806.8	73.21	12.021	
11,300.0	9,621.8	11,228.5	9,630.8	37.5	36.5	90.65	1,608.8	25.1	880.1	806.2	73.87	11.913	
11,400.0	9,622.1	11,328.5	9,631.0	37.8	36.9	90.65	1,708.8	25.2	880.0	805.5	74.57	11.802	
11,500.0	9,622.3	11,428.5	9,631.2	38.2	37.3	90.65	1,808.8	25.3	880.0	804.8	75.30	11.688	
11,600.0	9,622.5	11,528.5	9,631.5	38.5	37.6	90.65	1,908.8	25.4	880.0	804.0	76.06	11.571	
11,611.0	9,622.5	11,539.5	9,631.5	38.6	37.7	90.65	1,919.7	25.4	880.0	803.9	76.14	11.558	
11,611.0	9,622.5	11,539.5	9,631.5	38.6	37.7	90.65	1,919.8	25.4	880.0	803.9	76.14	11.558	
11,616.0	9,622.5	11,544.7	9,631.5	38.6	37.7	90.65	1,925.0	25.4	880.1	803.9	76.18	11.552	
11,700.0	9,622.7	11,630.0	9,631.7	38.9	38.0	90.65	2,010.3	25.3	880.1	803.2	76.86	11.450	
11,800.0	9,622.9	11,730.0	9,631.9	39.3	38.4	90.65	2,110.3	25.2	880.1	802.4	77.68	11.329	
11,900.0	9,623.1	11,830.0	9,632.1	39.8	38.9	90.65	2,210.3	25.1	880.1	801.5	78.53	11.206	
12,000.0	9,623.3	11,930.0	9,632.3	40.2	39.3	90.65	2,310.3	25.0	880.1	800.7	79.41	11.082	
12,100.0	9,623.5	12,030.0	9,632.5	40.7	39.8	90.65	2,410.3	24.9	880.1	799.7	80.32	10.957	
12,200.0	9,623.7	12,130.0	9,632.7	41.1	40.2	90.65	2,510.3	24.9	880.1	798.8	81.25	10.831	
12,300.0	9,623.9	12,230.0	9,632.9	41.6	40.7	90.65	2,610.3	24.8	880.1	797.9	82.21	10.705	
12,400.0	9,624.1	12,330.0	9,633.1	42.1	41.2	90.65	2,710.3	24.7	880.1	796.9	83.20	10.578	
12,500.0	9,624.3	12,430.0	9,633.3	42.6	41.7	90.65	2,810.3	24.6	880.1	795.9	84.20	10.452	
12,600.0	9,624.6	12,530.0	9,633.5	43.1	42.2	90.65	2,910.3	24.5	880.1	794.9	85.23	10.326	
12,700.0	9,624.8	12,630.0	9,633.8	43.6	42.7	90.65	3,010.3	24.4	880.1	793.8	86.28	10.200	
12,800.0	9,625.0	12,730.0	9,634.0	44.2	43.3	90.65	3,110.3	24.3	880.1	792.7	87.36	10.075	
12,900.0	9,625.2	12,830.0	9,634.2	44.7	43.8	90.65	3,210.3	24.2	880.1	791.6	88.45	9.950	
13,000.0	9,625.4	12,930.0	9,634.4	45.3	44.4	90.65	3,310.3	24.1	880.1	790.5	89.56	9.827	
13,100.0	9,625.6	13,030.0	9,634.6	45.8	45.0	90.65	3,410.3	24.1	880.1	789.4	90.69	9.704	
13,200.0	9,625.8	13,130.0	9,634.8	46.4	45.5	90.65	3,510.3	24.0	880.1	788.3	91.84	9.583	
13,300.0	9,626.0	13,230.0	9,635.0	47.0	46.1	90.65	3,610.3	23.9	880.1	787.1	93.01	9.463	
13,400.0	9,626.2	13,330.0	9,635.2	47.6	46.7	90.65	3,710.3	23.8	880.1	785.9	94.19	9.344	
13,500.0	9,626.4	13,430.0	9,635.4	48.2	47.3	90.65	3,810.3	23.7	880.1	784.7	95.39	9.226	
13,600.0	9,626.6	13,530.0	9,635.6	48.8	47.9	90.65	3,910.3	23.6	880.1	783.5	96.61	9.110	

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 #703H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3105.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3105.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #703H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #702H - 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
13,700.0	9,626.8	13,630.0	9,635.8	49.4	48.5	90.65	4,010.3	23.5	880.1	782.3	97.84	8.995	
13,800.0	9,627.0	13,730.0	9,636.0	50.0	49.2	90.65	4,110.3	23.4	880.1	781.0	99.09	8.882	
13,900.0	9,627.3	13,830.0	9,636.2	50.6	49.8	90.65	4,210.3	23.3	880.1	779.8	100.35	8.771	
14,000.0	9,627.5	13,930.0	9,636.5	51.3	50.4	90.65	4,310.3	23.3	880.1	778.5	101.62	8.661	
14,100.0	9,627.7	14,030.0	9,636.7	51.9	51.1	90.65	4,410.3	23.2	880.1	777.2	102.91	8.553	
14,200.0	9,627.9	14,130.0	9,636.9	52.5	51.7	90.65	4,510.3	23.1	880.1	775.9	104.20	8.446	
14,258.0	9,628.0	14,188.1	9,637.0	52.9	52.1	90.65	4,568.3	23.0	880.1	775.2	104.96	8.385	
14,300.0	9,628.1	14,246.6	9,637.1	53.2	52.5	90.65	4,626.8	22.5	880.1	774.4	105.66	8.330	
14,309.8	9,628.1	14,260.7	9,637.1	53.3	52.6	90.65	4,640.9	22.1	880.0	774.2	105.82	8.316	
14,315.5	9,628.1	14,263.3	9,637.1	53.3	52.6	90.65	4,643.5	22.1	880.1	774.2	105.87	8.312	
14,400.0	9,628.3	14,347.7	9,637.3	53.9	53.2	90.65	4,727.9	20.3	880.1	773.1	107.00	8.225	
14,500.0	9,628.5	14,447.7	9,637.5	54.5	53.8	90.65	4,827.9	18.2	880.1	771.7	108.33	8.124	
14,600.0	9,628.7	14,547.7	9,637.7	55.2	54.5	90.65	4,927.9	16.1	880.1	770.4	109.68	8.024	
14,700.0	9,628.9	14,647.7	9,637.9	55.9	55.2	90.65	5,027.9	14.0	880.1	769.0	111.04	7.925	
14,800.0	9,629.1	14,747.7	9,638.2	56.5	55.9	90.65	5,127.8	11.9	880.1	767.6	112.41	7.829	
14,900.0	9,629.3	14,847.7	9,638.4	57.2	56.6	90.65	5,227.8	9.8	880.1	766.3	113.79	7.734	
15,000.0	9,629.5	14,947.7	9,638.6	57.9	57.3	90.65	5,327.8	7.7	880.1	764.9	115.18	7.641	
15,100.0	9,629.7	15,047.7	9,638.8	58.6	58.0	90.65	5,427.8	5.6	880.1	763.5	116.58	7.549	
15,200.0	9,629.9	15,147.7	9,639.0	59.3	58.7	90.65	5,527.7	3.5	880.1	762.1	117.98	7.459	
15,300.0	9,630.1	15,247.7	9,639.2	60.0	59.4	90.65	5,627.7	1.4	880.1	760.7	119.40	7.371	
15,400.0	9,630.3	15,347.7	9,639.4	60.7	60.1	90.65	5,727.7	-0.7	880.1	759.2	120.82	7.284	
15,500.0	9,630.6	15,447.7	9,639.6	61.5	60.8	90.66	5,827.7	-2.8	880.1	757.8	122.25	7.199	
15,600.0	9,630.8	15,547.7	9,639.8	62.2	61.5	90.66	5,927.7	-4.9	880.1	756.4	123.69	7.115	
15,700.0	9,631.0	15,647.7	9,640.0	62.9	62.2	90.66	6,027.6	-7.0	880.1	754.9	125.13	7.033	
15,800.0	9,631.2	15,747.7	9,640.2	63.6	63.0	90.66	6,127.6	-9.1	880.1	753.5	126.58	6.953	
15,900.0	9,631.4	15,847.7	9,640.5	64.3	63.7	90.66	6,227.6	-11.2	880.1	752.0	128.04	6.873	
16,000.0	9,631.6	15,947.7	9,640.7	65.1	64.4	90.66	6,327.6	-13.3	880.1	750.6	129.50	6.796	
16,100.0	9,631.8	16,047.7	9,640.9	65.8	65.2	90.66	6,427.5	-15.4	880.1	749.1	130.97	6.719	
16,200.0	9,632.0	16,147.7	9,641.1	66.5	65.9	90.66	6,527.5	-17.5	880.1	747.6	132.45	6.644	
16,300.0	9,632.2	16,247.7	9,641.3	67.3	66.7	90.66	6,627.5	-19.6	880.1	746.1	133.93	6.571	
16,400.0	9,632.4	16,347.7	9,641.5	68.0	67.4	90.66	6,727.5	-21.7	880.1	744.6	135.42	6.499	
16,500.0	9,632.6	16,447.7	9,641.7	68.8	68.2	90.66	6,827.5	-23.7	880.1	743.1	136.92	6.428	
16,600.0	9,632.8	16,547.7	9,641.9	69.5	68.9	90.66	6,927.4	-25.8	880.1	741.6	138.42	6.358	
16,700.0	9,633.0	16,647.7	9,642.1	70.3	69.7	90.66	7,027.4	-27.9	880.1	740.1	139.92	6.290	
16,800.0	9,633.2	16,747.7	9,642.3	71.0	70.4	90.66	7,127.4	-30.0	880.1	738.6	141.43	6.223	
16,882.6	9,633.4	16,829.0	9,642.5	71.6	71.0	90.66	7,208.6	-31.8	880.1	737.4	142.67	6.169	
16,895.9	9,633.4	16,840.2	9,642.5	71.7	71.1	90.66	7,219.9	-32.0	880.1	737.2	142.85	6.161	
16,900.0	9,633.4	16,843.3	9,642.5	71.8	71.1	90.66	7,223.0	-32.0	880.1	737.2	142.90	6.159	
16,988.1	9,633.6	16,910.7	9,642.7	72.4	71.6	90.65	7,290.3	-32.3	879.6	735.6	144.00	6.109	
17,000.0	9,633.6	16,919.8	9,642.7	72.5	71.7	90.65	7,299.5	-32.2	879.6	735.4	144.14	6.102	
17,041.2	9,633.7	16,956.6	9,642.8	72.8	72.0	90.65	7,336.2	-31.7	879.5	734.8	144.70	6.078	
17,100.0	9,633.8	17,015.4	9,642.9	73.3	72.4	90.65	7,395.0	-30.7	879.5	733.9	145.59	6.041	
17,200.0	9,634.1	17,115.4	9,643.1	74.0	73.2	90.65	7,495.0	-29.2	879.5	732.4	147.11	5.979	
17,300.0	9,634.3	17,215.4	9,643.3	74.8	74.0	90.65	7,595.0	-27.6	879.5	730.9	148.63	5.917	
17,400.0	9,634.5	17,315.4	9,643.5	75.6	74.7	90.65	7,694.9	-26.0	879.5	729.3	150.16	5.857	
17,500.0	9,634.7	17,415.4	9,643.7	76.3	75.5	90.65	7,794.9	-24.4	879.5	727.8	151.69	5.798	
17,600.0	9,634.9	17,515.4	9,643.9	77.1	76.3	90.65	7,894.9	-22.8	879.5	726.3	153.23	5.740	
17,700.0	9,635.1	17,615.4	9,644.1	77.9	77.0	90.65	7,994.9	-21.3	879.5	724.7	154.77	5.683	
17,800.0	9,635.3	17,715.4	9,644.3	78.6	77.8	90.65	8,094.9	-19.7	879.5	723.2	156.31	5.627	
17,900.0	9,635.5	17,815.4	9,644.6	79.4	78.6	90.65	8,194.9	-18.1	879.5	721.7	157.86	5.572	
18,000.0	9,635.7	17,915.4	9,644.8	80.2	79.4	90.65	8,294.9	-16.5	879.5	720.1	159.41	5.517	

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 #703H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3105.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3105.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #703H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #702H - 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
18,100.0	9,635.9	18,015.4	9,645.0	80.9	80.1	90.65	8,394.9	-14.9	879.5	718.5	160.96	5.464	
18,200.0	9,636.1	18,115.4	9,645.2	81.7	80.9	90.66	8,494.8	-13.4	879.5	717.0	162.52	5.412	
18,300.0	9,636.3	18,215.4	9,645.4	82.5	81.7	90.66	8,594.8	-11.8	879.5	715.4	164.08	5.360	
18,400.0	9,636.5	18,315.4	9,645.6	83.3	82.5	90.66	8,694.8	-10.2	879.5	713.9	165.64	5.310	
18,500.0	9,636.7	18,415.4	9,645.8	84.0	83.3	90.66	8,794.8	-8.6	879.5	712.3	167.20	5.260	
18,600.0	9,636.9	18,515.4	9,646.0	84.8	84.0	90.66	8,894.8	-7.0	879.5	710.7	168.77	5.211	
18,700.0	9,637.2	18,615.4	9,646.2	85.6	84.8	90.66	8,994.8	-5.5	879.5	709.2	170.34	5.163	
18,800.0	9,637.4	18,715.4	9,646.4	86.4	85.6	90.66	9,094.8	-3.9	879.5	707.6	171.92	5.116	
18,900.0	9,637.6	18,815.4	9,646.6	87.2	86.4	90.66	9,194.8	-2.3	879.5	706.0	173.49	5.069	
19,000.0	9,637.8	18,915.4	9,646.8	88.0	87.2	90.66	9,294.7	-0.7	879.5	704.4	175.07	5.024	
19,100.0	9,638.0	19,015.4	9,647.1	88.8	88.0	90.66	9,394.7	0.9	879.5	702.9	176.66	4.979	
19,200.0	9,638.2	19,115.4	9,647.3	89.6	88.8	90.66	9,494.7	2.4	879.5	701.3	178.24	4.934	
19,301.6	9,638.4	19,217.0	9,647.5	90.4	89.6	90.66	9,596.3	4.0	879.5	699.7	179.85	4.890	
19,301.6	9,638.4	19,217.0	9,647.5	90.4	89.6	90.66	9,596.3	4.0	879.5	699.7	179.85	4.890	
19,345.1	9,638.5	19,273.6	9,647.6	90.7	90.0	90.66	9,653.0	4.6	879.6	698.9	180.72	4.867	
19,400.0	9,638.6	19,328.6	9,647.7	91.1	90.5	90.66	9,707.9	4.7	879.6	698.0	181.59	4.844	
19,500.0	9,638.8	19,428.6	9,647.9	91.9	91.3	90.66	9,807.9	4.7	879.6	696.5	183.19	4.802	
19,600.0	9,639.0	19,528.6	9,648.1	92.7	92.1	90.66	9,907.9	4.8	879.7	694.9	184.78	4.760	
19,700.0	9,639.2	19,628.6	9,648.3	93.5	92.9	90.66	10,007.9	4.9	879.7	693.3	186.38	4.720	
19,800.0	9,639.4	19,728.6	9,648.5	94.3	93.7	90.66	10,107.9	5.0	879.7	691.7	187.99	4.680	
19,900.0	9,639.7	19,828.6	9,648.7	95.1	94.5	90.66	10,207.9	5.0	879.7	690.1	189.59	4.640	
20,000.0	9,639.9	19,928.6	9,648.9	95.9	95.3	90.66	10,307.9	5.1	879.7	688.5	191.19	4.601	
20,100.0	9,640.1	20,028.6	9,649.1	96.7	96.1	90.66	10,407.9	5.2	879.7	686.9	192.80	4.563	
20,200.0	9,640.3	20,128.6	9,649.3	97.5	96.9	90.66	10,507.9	5.3	879.8	685.3	194.41	4.525	
20,300.0	9,640.5	20,228.6	9,649.6	98.3	97.7	90.66	10,607.9	5.4	879.8	683.7	196.02	4.488	
20,400.0	9,640.7	20,328.6	9,649.8	99.1	98.5	90.66	10,707.9	5.4	879.8	682.2	197.63	4.452	
20,500.0	9,640.9	20,428.6	9,650.0	99.9	99.3	90.65	10,807.9	5.5	879.8	680.6	199.25	4.416	
20,600.0	9,641.1	20,528.6	9,650.2	100.8	100.1	90.65	10,907.9	5.6	879.8	679.0	200.87	4.380	
20,700.0	9,641.3	20,628.6	9,650.4	101.6	100.9	90.65	11,007.9	5.7	879.8	677.3	202.48	4.345	
20,800.0	9,641.5	20,728.6	9,650.6	102.4	101.7	90.65	11,107.9	5.7	879.8	675.7	204.10	4.311	
20,900.0	9,641.7	20,828.6	9,650.8	103.2	102.6	90.65	11,207.9	5.8	879.9	674.1	205.72	4.277	
21,000.0	9,642.0	20,928.6	9,651.0	104.0	103.4	90.65	11,307.9	5.9	879.9	672.5	207.35	4.244	
21,100.0	9,642.2	21,028.6	9,651.2	104.8	104.2	90.65	11,407.9	6.0	879.9	670.9	208.97	4.211	
21,200.0	9,642.4	21,128.6	9,651.4	105.6	105.0	90.65	11,507.9	6.0	879.9	669.3	210.60	4.178	
21,300.0	9,642.6	21,228.6	9,651.6	106.4	105.8	90.65	11,607.9	6.1	879.9	667.7	212.22	4.146	
21,400.0	9,642.8	21,328.6	9,651.8	107.2	106.6	90.65	11,707.9	6.2	879.9	666.1	213.85	4.115	
21,500.0	9,643.0	21,428.6	9,652.0	108.1	107.4	90.65	11,807.9	6.3	880.0	664.5	215.48	4.084	
21,600.0	9,643.2	21,528.6	9,652.2	108.9	108.3	90.65	11,907.9	6.4	880.0	662.9	217.11	4.053	
21,700.0	9,643.4	21,628.6	9,652.4	109.7	109.1	90.65	12,007.9	6.4	880.0	661.2	218.75	4.023	
21,800.0	9,643.6	21,728.6	9,652.6	110.5	109.9	90.65	12,107.9	6.5	880.0	659.6	220.38	3.993	
21,900.0	9,643.8	21,828.6	9,652.8	111.3	110.7	90.65	12,207.9	6.6	880.0	658.0	222.02	3.964	
21,975.6	9,644.0	21,904.2	9,653.0	111.9	111.3	90.65	12,283.5	6.6	880.0	656.8	223.25	3.942	

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3105.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3105.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #703H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #704H - 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
9,971.4	9,619.0	10,200.0	9,617.5	34.4	34.6	-89.26	571.7	-1,683.0	996.4	927.5	68.91	14.460	
10,000.0	9,619.1	10,200.0	9,617.5	34.4	34.6	-89.27	571.7	-1,683.0	981.0	912.1	68.93	14.232	
10,100.0	9,619.3	10,271.6	9,617.6	34.5	34.8	-89.26	641.0	-1,664.9	930.6	861.5	69.13	13.462	
10,200.0	9,619.5	10,339.3	9,617.8	34.7	34.9	-89.25	706.9	-1,649.4	885.4	816.0	69.35	12.767	
10,300.0	9,619.7	10,400.0	9,617.9	34.9	35.0	-89.24	766.3	-1,636.9	845.5	775.9	69.59	12.149	
10,400.0	9,619.9	10,482.6	9,618.1	35.1	35.1	-89.23	847.5	-1,621.8	811.1	741.2	69.90	11.603	
10,500.0	9,620.1	10,557.6	9,618.2	35.3	35.3	-89.22	921.6	-1,610.2	782.5	712.2	70.24	11.140	
10,600.0	9,620.4	10,634.3	9,618.4	35.5	35.5	-89.21	997.7	-1,600.3	759.8	689.2	70.61	10.761	
10,700.0	9,620.6	10,712.4	9,618.6	35.7	35.6	-89.20	1,075.4	-1,592.3	743.2	672.2	71.01	10.467	
10,800.0	9,620.8	10,800.0	9,618.7	36.0	35.8	-89.20	1,162.7	-1,585.9	732.9	661.4	71.46	10.256	
10,837.1	9,620.9	10,821.0	9,618.8	36.1	35.9	-89.20	1,183.7	-1,584.8	730.5	658.9	71.61	10.201	
10,900.0	9,621.0	10,871.1	9,618.9	36.2	36.0	-89.20	1,233.7	-1,582.7	727.9	656.0	71.90	10.124	
11,000.0	9,621.2	10,950.8	9,619.1	36.5	36.2	-89.20	1,313.5	-1,581.1	726.1	653.7	72.39	10.031	
11,016.0	9,621.2	10,963.6	9,619.1	36.6	36.3	-89.20	1,326.2	-1,581.1	726.0	653.6	72.47	10.019	
11,100.0	9,621.4	11,045.2	9,619.3	36.8	36.5	-89.20	1,407.8	-1,581.3	726.3	653.4	72.94	9.957	
11,200.0	9,621.6	11,145.2	9,619.5	37.1	36.8	-89.20	1,507.8	-1,581.5	726.6	653.1	73.54	9.880	
11,300.0	9,621.8	11,245.2	9,619.7	37.5	37.1	-89.20	1,607.8	-1,581.7	726.9	652.7	74.18	9.799	
11,400.0	9,622.1	11,345.2	9,619.9	37.8	37.4	-89.20	1,707.8	-1,582.0	727.2	652.4	74.85	9.715	
11,500.0	9,622.3	11,445.2	9,620.1	38.2	37.7	-89.20	1,807.8	-1,582.2	727.6	652.0	75.56	9.629	
11,600.0	9,622.5	11,545.2	9,620.3	38.5	38.1	-89.20	1,907.8	-1,582.4	727.9	651.6	76.30	9.540	
11,611.0	9,622.5	11,556.2	9,620.3	38.6	38.1	-89.20	1,918.8	-1,582.4	727.9	651.5	76.38	9.530	
11,616.0	9,622.5	11,561.3	9,620.3	38.6	38.2	-89.20	1,923.9	-1,582.5	727.9	651.5	76.42	9.525	
11,700.0	9,622.7	11,645.2	9,620.5	38.9	38.5	-89.20	2,007.8	-1,582.6	728.0	651.0	77.07	9.447	
11,800.0	9,622.9	11,745.2	9,620.7	39.3	38.9	-89.20	2,107.8	-1,582.9	728.2	650.3	77.87	9.352	
11,900.0	9,623.1	11,845.2	9,620.9	39.8	39.3	-89.20	2,207.8	-1,583.1	728.3	649.6	78.69	9.255	
12,000.0	9,623.3	11,945.2	9,621.1	40.2	39.7	-89.20	2,307.8	-1,583.3	728.4	648.9	79.55	9.157	
12,100.0	9,623.5	12,045.2	9,621.4	40.7	40.1	-89.20	2,407.8	-1,583.6	728.6	648.1	80.44	9.058	
12,200.0	9,623.7	12,145.2	9,621.6	41.1	40.6	-89.20	2,507.8	-1,583.8	728.7	647.4	81.35	8.958	
12,300.0	9,623.9	12,245.2	9,621.8	41.6	41.0	-89.20	2,607.8	-1,584.0	728.9	646.6	82.29	8.858	
12,400.0	9,624.1	12,345.2	9,622.0	42.1	41.5	-89.20	2,707.8	-1,584.3	729.0	645.7	83.25	8.757	
12,500.0	9,624.3	12,445.2	9,622.2	42.6	42.0	-89.20	2,807.8	-1,584.5	729.1	644.9	84.24	8.656	
12,600.0	9,624.6	12,545.2	9,622.4	43.1	42.5	-89.20	2,907.8	-1,584.7	729.3	644.0	85.25	8.555	
12,700.0	9,624.8	12,645.2	9,622.6	43.6	43.0	-89.20	3,007.8	-1,585.0	729.4	643.1	86.28	8.454	
12,800.0	9,625.0	12,745.2	9,622.8	44.2	43.5	-89.20	3,107.8	-1,585.2	729.5	642.2	87.33	8.354	
12,900.0	9,625.2	12,845.2	9,623.0	44.7	44.0	-89.20	3,207.8	-1,585.4	729.7	641.3	88.41	8.254	
13,000.0	9,625.4	12,945.2	9,623.2	45.3	44.5	-89.20	3,307.8	-1,585.6	729.8	640.3	89.50	8.154	
13,100.0	9,625.6	13,045.2	9,623.4	45.8	45.1	-89.20	3,407.8	-1,585.9	730.0	639.3	90.62	8.056	
13,200.0	9,625.8	13,145.2	9,623.7	46.4	45.7	-89.20	3,507.8	-1,586.1	730.1	638.4	91.75	7.958	
13,300.0	9,626.0	13,245.2	9,623.9	47.0	46.2	-89.20	3,607.8	-1,586.3	730.2	637.3	92.90	7.861	
13,400.0	9,626.2	13,345.2	9,624.1	47.6	46.8	-89.20	3,707.8	-1,586.6	730.4	636.3	94.07	7.764	
13,500.0	9,626.4	13,445.2	9,624.3	48.2	47.4	-89.20	3,807.8	-1,586.8	730.5	635.3	95.25	7.669	
13,600.0	9,626.6	13,545.2	9,624.5	48.8	48.0	-89.20	3,907.8	-1,587.0	730.7	634.2	96.45	7.575	
13,700.0	9,626.8	13,645.2	9,624.7	49.4	48.6	-89.20	4,007.8	-1,587.3	730.8	633.1	97.67	7.482	
13,800.0	9,627.0	13,745.2	9,624.9	50.0	49.2	-89.21	4,107.8	-1,587.5	730.9	632.0	98.90	7.391	
13,900.0	9,627.3	13,845.2	9,625.1	50.6	49.8	-89.21	4,207.8	-1,587.7	731.1	630.9	100.15	7.300	
14,000.0	9,627.5	13,945.2	9,625.3	51.3	50.4	-89.21	4,307.8	-1,588.0	731.2	629.8	101.41	7.211	
14,100.0	9,627.7	14,045.2	9,625.5	51.9	51.0	-89.21	4,407.8	-1,588.2	731.3	628.7	102.68	7.123	
14,200.0	9,627.9	14,145.2	9,625.7	52.5	51.7	-89.21	4,507.8	-1,588.4	731.5	627.5	103.96	7.036	
14,258.0	9,628.0	14,203.3	9,625.9	52.9	52.1	-89.21	4,565.9	-1,588.6	731.6	626.8	104.71	6.986	
14,300.0	9,628.1	14,245.2	9,626.0	53.2	52.3	-89.20	4,607.8	-1,588.6	731.3	626.1	105.26	6.948	
14,315.5	9,628.1	14,260.8	9,626.0	53.3	52.4	-89.20	4,623.3	-1,588.7	731.1	625.6	105.46	6.932	

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 #703H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3105.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3105.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #703H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #704H - 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
14,400.0	9,628.3	14,345.2	9,626.2	53.9	53.0	-89.20	4,707.8	-1,588.9	729.5	622.9	106.57	6.845	
14,500.0	9,628.5	14,445.2	9,626.4	54.5	53.6	-89.20	4,807.8	-1,589.1	727.6	619.7	107.90	6.744	
14,600.0	9,628.7	14,545.2	9,626.6	55.2	54.3	-89.20	4,907.8	-1,589.3	725.7	616.5	109.23	6.644	
14,700.0	9,628.9	14,645.2	9,626.8	55.9	55.0	-89.20	5,007.8	-1,589.6	723.9	613.3	110.58	6.546	
14,800.0	9,629.1	14,745.1	9,627.0	56.5	55.6	-89.19	5,107.7	-1,589.8	722.0	610.1	111.93	6.450	
14,900.0	9,629.3	14,845.1	9,627.2	57.2	56.3	-89.19	5,207.7	-1,590.0	720.1	606.8	113.30	6.356	
15,000.0	9,629.5	14,945.1	9,627.4	57.9	57.0	-89.19	5,307.7	-1,590.3	718.3	603.6	114.67	6.264	
15,100.0	9,629.7	15,045.1	9,627.6	58.6	57.7	-89.19	5,407.7	-1,590.5	716.4	600.4	116.06	6.173	
15,200.0	9,629.9	15,145.1	9,627.8	59.3	58.4	-89.19	5,507.7	-1,590.7	714.5	597.1	117.45	6.084	
15,300.0	9,630.1	15,245.1	9,628.0	60.0	59.1	-89.19	5,607.6	-1,591.0	712.7	593.8	118.85	5.996	
15,400.0	9,630.3	15,345.0	9,628.3	60.7	59.8	-89.18	5,707.6	-1,591.2	710.8	590.5	120.26	5.911	
15,500.0	9,630.6	15,445.0	9,628.5	61.5	60.5	-89.18	5,807.6	-1,591.4	708.9	587.3	121.68	5.826	
15,600.0	9,630.8	15,545.0	9,628.7	62.2	61.2	-89.18	5,907.6	-1,591.6	707.1	584.0	123.10	5.744	
15,700.0	9,631.0	15,645.0	9,628.9	62.9	61.9	-89.18	6,007.6	-1,591.9	705.2	580.7	124.54	5.663	
15,800.0	9,631.2	15,745.0	9,629.1	63.6	62.6	-89.18	6,107.6	-1,592.1	703.3	577.3	125.98	5.583	
15,900.0	9,631.4	15,845.0	9,629.3	64.3	63.3	-89.17	6,207.5	-1,592.3	701.5	574.0	127.42	5.505	
16,000.0	9,631.6	15,944.9	9,629.5	65.1	64.0	-89.17	6,307.5	-1,592.6	699.6	570.7	128.88	5.428	
16,100.0	9,631.8	16,044.9	9,629.7	65.8	64.8	-89.17	6,407.5	-1,592.8	697.7	567.4	130.34	5.353	
16,200.0	9,632.0	16,144.9	9,629.9	66.5	65.5	-89.17	6,507.5	-1,593.0	695.9	564.0	131.80	5.279	
16,300.0	9,632.2	16,244.9	9,630.1	67.3	66.2	-89.17	6,607.5	-1,593.3	694.0	560.7	133.28	5.207	
16,400.0	9,632.4	16,344.9	9,630.3	68.0	66.9	-89.16	6,707.4	-1,593.5	692.1	557.4	134.76	5.136	
16,500.0	9,632.6	16,444.8	9,630.6	68.8	67.7	-89.16	6,807.4	-1,593.7	690.2	554.0	136.24	5.066	
16,600.0	9,632.8	16,544.8	9,630.8	69.5	68.4	-89.16	6,907.4	-1,594.0	688.4	550.6	137.73	4.998	
16,700.0	9,633.0	16,644.8	9,631.0	70.3	69.2	-89.16	7,007.4	-1,594.2	686.5	547.3	139.23	4.931	
16,800.0	9,633.2	16,744.8	9,631.2	71.0	69.9	-89.16	7,107.4	-1,594.4	684.6	543.9	140.73	4.865	
16,882.6	9,633.4	16,827.4	9,631.4	71.6	70.5	-89.15	7,190.0	-1,594.6	683.1	541.1	141.97	4.812	
16,900.0	9,633.4	16,844.8	9,631.4	71.8	70.7	-89.16	7,207.4	-1,594.7	682.8	540.6	142.23	4.801	
16,936.2	9,633.5	16,881.0	9,631.5	72.0	70.9	-89.16	7,243.5	-1,594.7	682.6	539.8	142.77	4.781	CC
16,988.1	9,633.6	16,932.8	9,631.6	72.4	71.3	-89.16	7,295.4	-1,594.9	683.1	539.5	143.56	4.758	
17,000.0	9,633.6	16,944.8	9,631.6	72.5	71.4	-89.16	7,307.4	-1,594.9	683.3	539.5	143.74	4.754	
17,100.0	9,633.8	17,044.8	9,631.8	73.3	72.2	-89.16	7,407.3	-1,595.1	685.1	539.8	145.25	4.717	
17,200.0	9,634.1	17,144.7	9,632.0	74.0	72.9	-89.16	7,507.3	-1,595.3	686.9	540.1	146.76	4.680	
17,300.0	9,634.3	17,244.7	9,632.2	74.8	73.7	-89.17	7,607.3	-1,595.6	688.7	540.4	148.28	4.645	
17,400.0	9,634.5	17,344.7	9,632.4	75.6	74.4	-89.17	7,707.3	-1,595.8	690.5	540.7	149.80	4.610	
17,500.0	9,634.7	17,444.7	9,632.6	76.3	75.2	-89.17	7,807.3	-1,596.0	692.3	541.0	151.33	4.575	
17,600.0	9,634.9	17,544.7	9,632.9	77.1	76.0	-89.17	7,907.3	-1,596.3	694.1	541.3	152.86	4.541	
17,700.0	9,635.1	17,644.7	9,633.1	77.9	76.7	-89.18	8,007.2	-1,596.5	696.0	541.6	154.40	4.508	
17,800.0	9,635.3	17,744.6	9,633.3	78.6	77.5	-89.18	8,107.2	-1,596.7	697.8	541.8	155.94	4.475	
17,900.0	9,635.5	17,844.6	9,633.5	79.4	78.3	-89.18	8,207.2	-1,597.0	699.6	542.1	157.48	4.442	
18,000.0	9,635.7	17,944.6	9,633.7	80.2	79.0	-89.18	8,307.2	-1,597.2	701.4	542.4	159.03	4.411	
18,100.0	9,635.9	18,044.6	9,633.9	80.9	79.8	-89.19	8,407.2	-1,597.4	703.2	542.6	160.58	4.379	
18,200.0	9,636.1	18,144.6	9,634.1	81.7	80.6	-89.19	8,507.2	-1,597.7	705.0	542.9	162.13	4.348	
18,300.0	9,636.3	18,244.6	9,634.3	82.5	81.4	-89.19	8,607.1	-1,597.9	706.8	543.1	163.69	4.318	
18,400.0	9,636.5	18,344.5	9,634.5	83.3	82.2	-89.19	8,707.1	-1,598.1	708.6	543.4	165.25	4.288	
18,500.0	9,636.7	18,444.5	9,634.7	84.0	82.9	-89.19	8,807.1	-1,598.3	710.4	543.6	166.81	4.259	
18,600.0	9,636.9	18,544.5	9,634.9	84.8	83.7	-89.20	8,907.1	-1,598.6	712.3	543.9	168.38	4.230	
18,700.0	9,637.2	18,644.5	9,635.1	85.6	84.5	-89.20	9,007.1	-1,598.8	714.1	544.1	169.94	4.202	
18,800.0	9,637.4	18,744.5	9,635.4	86.4	85.3	-89.20	9,107.0	-1,599.0	715.9	544.4	171.52	4.174	
18,900.0	9,637.6	18,844.5	9,635.6	87.2	86.1	-89.20	9,207.0	-1,599.3	717.7	544.6	173.09	4.146	
19,000.0	9,637.8	18,944.4	9,635.8	88.0	86.9	-89.21	9,307.0	-1,599.5	719.5	544.8	174.67	4.119	
19,100.0	9,638.0	19,044.4	9,636.0	88.8	87.6	-89.21	9,407.0	-1,599.7	721.3	545.1	176.25	4.093	

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 #703H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3105.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3105.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #703H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #704H - 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
19,200.0	9,638.2	19,144.4	9,636.2	89.6	88.4	-89.21	9,507.0	-1,600.0	723.1	545.3	177.83	4.066	
19,301.6	9,638.4	19,246.0	9,636.4	90.4	89.2	-89.21	9,608.6	-1,600.2	725.0	545.5	179.44	4.040	
19,345.1	9,638.5	19,289.5	9,636.5	90.7	89.6	-89.21	9,652.1	-1,600.3	725.4	545.3	180.13	4.027	
19,400.0	9,638.6	19,344.4	9,636.6	91.1	90.0	-89.21	9,707.0	-1,600.4	725.6	544.6	181.00	4.009	
19,500.0	9,638.8	19,444.4	9,636.8	91.9	90.8	-89.21	9,807.0	-1,600.7	725.9	543.3	182.59	3.975	
19,600.0	9,639.0	19,544.4	9,637.0	92.7	91.6	-89.21	9,907.0	-1,600.9	726.2	542.0	184.19	3.943	
19,700.0	9,639.2	19,644.4	9,637.2	93.5	92.4	-89.21	10,007.0	-1,601.1	726.5	540.7	185.78	3.910	
19,800.0	9,639.4	19,744.4	9,637.4	94.3	93.2	-89.21	10,107.0	-1,601.3	726.8	539.4	187.38	3.878	
19,900.0	9,639.7	19,844.4	9,637.7	95.1	94.0	-89.21	10,207.0	-1,601.6	727.0	538.1	188.98	3.847	
20,000.0	9,639.9	19,944.4	9,637.9	95.9	94.8	-89.21	10,307.0	-1,601.8	727.3	536.8	190.58	3.816	
20,100.0	9,640.1	20,044.4	9,638.1	96.7	95.6	-89.21	10,407.0	-1,602.0	727.6	535.4	192.19	3.786	
20,200.0	9,640.3	20,144.4	9,638.3	97.5	96.4	-89.21	10,507.0	-1,602.3	727.9	534.1	193.79	3.756	
20,300.0	9,640.5	20,244.4	9,638.5	98.3	97.2	-89.21	10,607.0	-1,602.5	728.2	532.8	195.40	3.727	
20,400.0	9,640.7	20,344.4	9,638.7	99.1	98.0	-89.21	10,707.0	-1,602.7	728.5	531.5	197.01	3.698	
20,500.0	9,640.9	20,444.4	9,638.9	99.9	98.8	-89.21	10,807.0	-1,603.0	728.8	530.2	198.62	3.669	
20,600.0	9,641.1	20,544.4	9,639.1	100.8	99.6	-89.21	10,907.0	-1,603.2	729.1	528.9	200.24	3.641	
20,700.0	9,641.3	20,644.4	9,639.3	101.6	100.4	-89.21	11,006.9	-1,603.4	729.4	527.5	201.85	3.613	
20,800.0	9,641.5	20,744.4	9,639.5	102.4	101.2	-89.22	11,106.9	-1,603.7	729.7	526.2	203.47	3.586	
20,900.0	9,641.7	20,844.4	9,639.7	103.2	102.0	-89.22	11,206.9	-1,603.9	730.0	524.9	205.09	3.559	
21,000.0	9,642.0	20,944.4	9,640.0	104.0	102.9	-89.22	11,306.9	-1,604.1	730.3	523.5	206.71	3.533	
21,100.0	9,642.2	21,044.4	9,640.2	104.8	103.7	-89.22	11,406.9	-1,604.3	730.5	522.2	208.33	3.507	
21,200.0	9,642.4	21,144.4	9,640.4	105.6	104.5	-89.22	11,506.9	-1,604.6	730.8	520.9	209.95	3.481	
21,300.0	9,642.6	21,244.4	9,640.6	106.4	105.3	-89.22	11,606.9	-1,604.8	731.1	519.6	211.58	3.456	
21,400.0	9,642.8	21,344.4	9,640.8	107.2	106.1	-89.22	11,706.9	-1,605.0	731.4	518.2	213.21	3.431	
21,500.0	9,643.0	21,444.4	9,641.0	108.1	106.9	-89.22	11,806.9	-1,605.3	731.7	516.9	214.83	3.406	
21,600.0	9,643.2	21,544.4	9,641.2	108.9	107.7	-89.22	11,906.9	-1,605.5	732.0	515.5	216.46	3.382	
21,700.0	9,643.4	21,644.4	9,641.4	109.7	108.5	-89.22	12,006.9	-1,605.7	732.3	514.2	218.09	3.358	
21,800.0	9,643.6	21,744.4	9,641.6	110.5	109.4	-89.22	12,106.9	-1,606.0	732.6	512.9	219.73	3.334	
21,900.0	9,643.8	21,844.4	9,641.8	111.3	110.2	-89.22	12,206.9	-1,606.2	732.9	511.5	221.36	3.311	
21,975.6	9,644.0	21,920.0	9,642.0	111.9	110.8	-89.22	12,282.5	-1,606.4	733.1	510.5	222.59	3.293	ES, SF

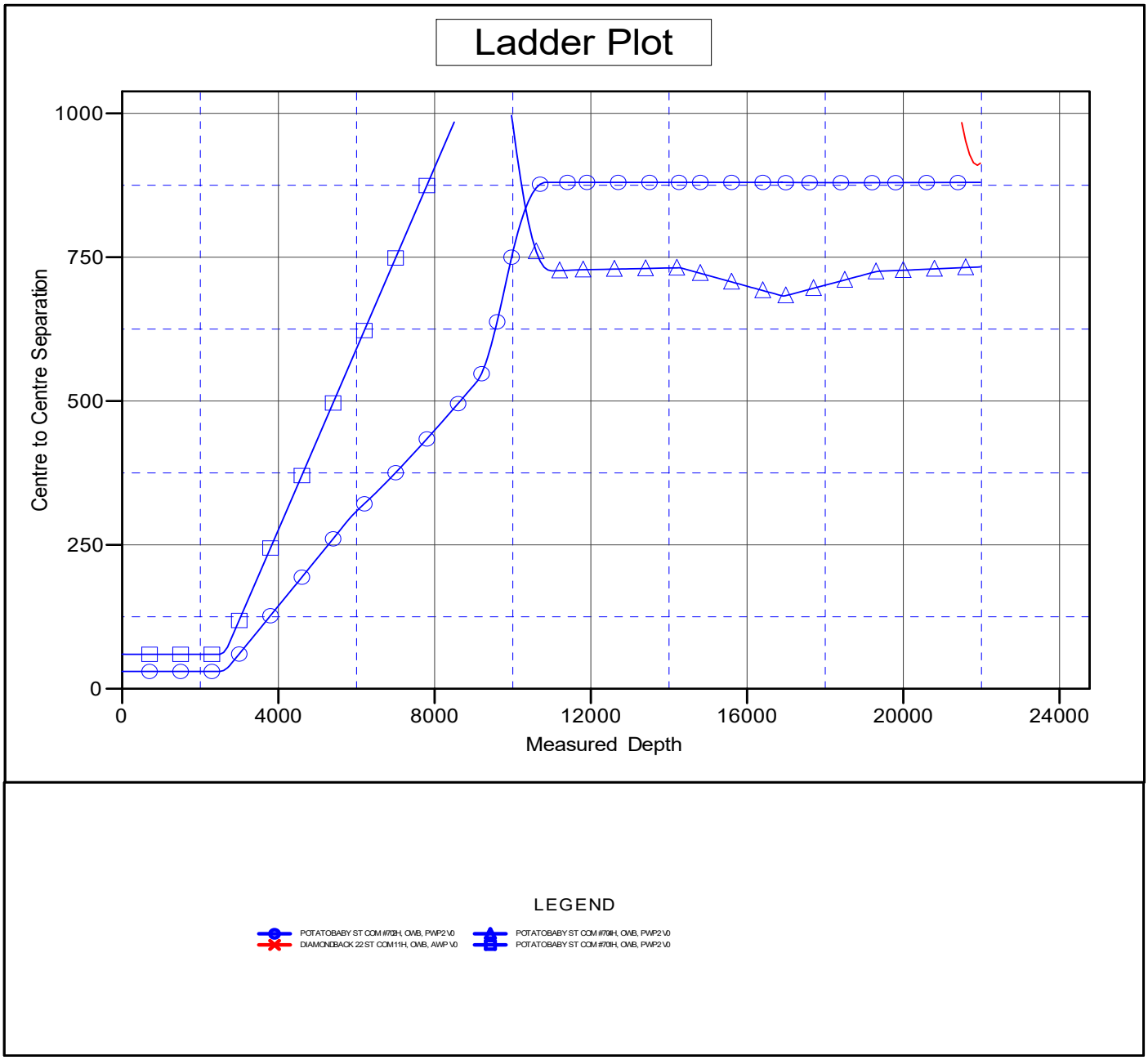
Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3105.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3105.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #703H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to *KB=30' @ 3105.0usft (TBD)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: POTATO BABY ST COM #703H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.14°



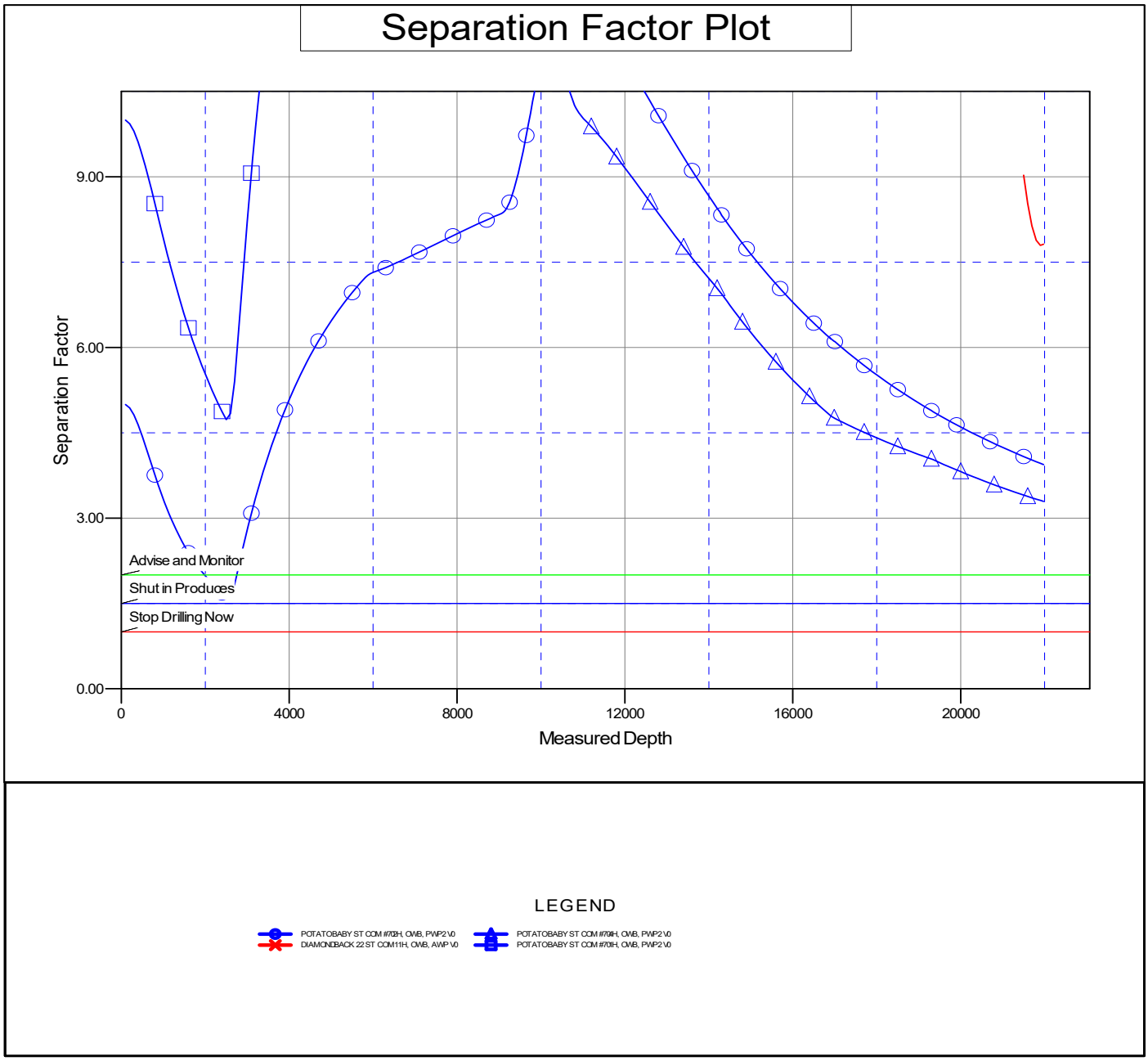
Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3105.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3105.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #703H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to *KB=30' @ 3105.0usft (TBD)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: POTATO BABY ST COM #703H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.14°



DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)
POTATO BABY STATE PROJECT (ATLAS 2628)
POTATO BABY ST COM #703H

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 #703H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3105.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3105.0usft (TBD)
Well:	POTATO BABY ST COM #703H	**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 #703H

Well Position	**+N/-S**	0.0 usft	**Northing:**	364,082.79 usft	**Latitude:**	32° 0' 2.536 N
	+E/-W	0.0 usft	**Easting:**	581,531.90 usft	**Longitude:**	104° 4' 13.156 W
Position Uncertainty		3.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,075.0 usft

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	7/21/2020	6.86	59.65	47,405.54341073

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	355.93

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

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	21,975.6	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 #703H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3105.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3105.0usft (TBD)
Well:	POTATO BABY ST COM #703H	**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	245.00	2,600.0	-0.7	-1.6	-0.6	2.00	2.00	0.00
2,700.0	4.00	245.00	2,699.8	-2.9	-6.3	-2.5	2.00	2.00	0.00
2,750.0	5.00	245.00	2,749.7	-4.6	-9.9	-3.9	2.00	2.00	0.00
Start 6315.9 hold at 2750.0 MD									
2,800.0	5.00	245.00	2,799.5	-6.4	-13.8	-5.5	0.00	0.00	0.00
2,900.0	5.00	245.00	2,899.1	-10.1	-21.7	-8.6	0.00	0.00	0.00
3,000.0	5.00	245.00	2,998.7	-13.8	-29.6	-11.7	0.00	0.00	0.00
3,100.0	5.00	245.00	3,098.4	-17.5	-37.5	-14.8	0.00	0.00	0.00
3,200.0	5.00	245.00	3,198.0	-21.2	-45.4	-17.9	0.00	0.00	0.00
3,300.0	5.00	245.00	3,297.6	-24.9	-53.3	-21.0	0.00	0.00	0.00
3,400.0	5.00	245.00	3,397.2	-28.5	-61.2	-24.1	0.00	0.00	0.00
3,500.0	5.00	245.00	3,496.8	-32.2	-69.1	-27.2	0.00	0.00	0.00
3,600.0	5.00	245.00	3,596.4	-35.9	-77.0	-30.4	0.00	0.00	0.00
3,700.0	5.00	245.00	3,696.1	-39.6	-84.9	-33.5	0.00	0.00	0.00
3,800.0	5.00	245.00	3,795.7	-43.3	-92.8	-36.6	0.00	0.00	0.00
3,900.0	5.00	245.00	3,895.3	-47.0	-100.7	-39.7	0.00	0.00	0.00
4,000.0	5.00	245.00	3,994.9	-50.6	-108.6	-42.8	0.00	0.00	0.00
4,100.0	5.00	245.00	4,094.5	-54.3	-116.5	-45.9	0.00	0.00	0.00
4,200.0	5.00	245.00	4,194.2	-58.0	-124.4	-49.0	0.00	0.00	0.00
4,300.0	5.00	245.00	4,293.8	-61.7	-132.3	-52.2	0.00	0.00	0.00
4,400.0	5.00	245.00	4,393.4	-65.4	-140.2	-55.3	0.00	0.00	0.00
4,500.0	5.00	245.00	4,493.0	-69.1	-148.1	-58.4	0.00	0.00	0.00
4,600.0	5.00	245.00	4,592.6	-72.7	-156.0	-61.5	0.00	0.00	0.00
4,700.0	5.00	245.00	4,692.3	-76.4	-163.9	-64.6	0.00	0.00	0.00
4,800.0	5.00	245.00	4,791.9	-80.1	-171.8	-67.7	0.00	0.00	0.00
4,900.0	5.00	245.00	4,891.5	-83.8	-179.7	-70.8	0.00	0.00	0.00
5,000.0	5.00	245.00	4,991.1	-87.5	-187.6	-74.0	0.00	0.00	0.00
5,100.0	5.00	245.00	5,090.7	-91.2	-195.5	-77.1	0.00	0.00	0.00
5,200.0	5.00	245.00	5,190.4	-94.8	-203.4	-80.2	0.00	0.00	0.00
5,300.0	5.00	245.00	5,290.0	-98.5	-211.3	-83.3	0.00	0.00	0.00
5,400.0	5.00	245.00	5,389.6	-102.2	-219.2	-86.4	0.00	0.00	0.00
5,500.0	5.00	245.00	5,489.2	-105.9	-227.1	-89.5	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3105.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3105.0usft (TBD)
Well:	POTATO BABY ST COM #703H	**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	245.00	5,588.8	-109.6	-235.0	-92.6	0.00	0.00	0.00
5,700.0	5.00	245.00	5,688.5	-113.3	-242.9	-95.8	0.00	0.00	0.00
5,800.0	5.00	245.00	5,788.1	-116.9	-250.8	-98.9	0.00	0.00	0.00
5,900.0	5.00	245.00	5,887.7	-120.6	-258.7	-102.0	0.00	0.00	0.00
6,000.0	5.00	245.00	5,987.3	-124.3	-266.6	-105.1	0.00	0.00	0.00
6,100.0	5.00	245.00	6,086.9	-128.0	-274.5	-108.2	0.00	0.00	0.00
6,200.0	5.00	245.00	6,186.6	-131.7	-282.4	-111.3	0.00	0.00	0.00
6,300.0	5.00	245.00	6,286.2	-135.4	-290.3	-114.4	0.00	0.00	0.00
6,400.0	5.00	245.00	6,385.8	-139.0	-298.2	-117.6	0.00	0.00	0.00
6,500.0	5.00	245.00	6,485.4	-142.7	-306.1	-120.7	0.00	0.00	0.00
6,600.0	5.00	245.00	6,585.0	-146.4	-314.0	-123.8	0.00	0.00	0.00
6,700.0	5.00	245.00	6,684.7	-150.1	-321.9	-126.9	0.00	0.00	0.00
6,800.0	5.00	245.00	6,784.3	-153.8	-329.8	-130.0	0.00	0.00	0.00
6,900.0	5.00	245.00	6,883.9	-157.5	-337.7	-133.1	0.00	0.00	0.00
7,000.0	5.00	245.00	6,983.5	-161.1	-345.6	-136.2	0.00	0.00	0.00
7,100.0	5.00	245.00	7,083.1	-164.8	-353.5	-139.4	0.00	0.00	0.00
7,200.0	5.00	245.00	7,182.7	-168.5	-361.4	-142.5	0.00	0.00	0.00
7,300.0	5.00	245.00	7,282.4	-172.2	-369.3	-145.6	0.00	0.00	0.00
7,400.0	5.00	245.00	7,382.0	-175.9	-377.2	-148.7	0.00	0.00	0.00
7,500.0	5.00	245.00	7,481.6	-179.6	-385.1	-151.8	0.00	0.00	0.00
7,600.0	5.00	245.00	7,581.2	-183.3	-393.0	-154.9	0.00	0.00	0.00
7,700.0	5.00	245.00	7,680.8	-186.9	-400.9	-158.0	0.00	0.00	0.00
7,800.0	5.00	245.00	7,780.5	-190.6	-408.8	-161.1	0.00	0.00	0.00
7,900.0	5.00	245.00	7,880.1	-194.3	-416.7	-164.3	0.00	0.00	0.00
8,000.0	5.00	245.00	7,979.7	-198.0	-424.6	-167.4	0.00	0.00	0.00
8,100.0	5.00	245.00	8,079.3	-201.7	-432.5	-170.5	0.00	0.00	0.00
8,200.0	5.00	245.00	8,178.9	-205.4	-440.4	-173.6	0.00	0.00	0.00
8,300.0	5.00	245.00	8,278.6	-209.0	-448.3	-176.7	0.00	0.00	0.00
8,400.0	5.00	245.00	8,378.2	-212.7	-456.2	-179.8	0.00	0.00	0.00
8,500.0	5.00	245.00	8,477.8	-216.4	-464.1	-182.9	0.00	0.00	0.00
8,600.0	5.00	245.00	8,577.4	-220.1	-472.0	-186.1	0.00	0.00	0.00
8,700.0	5.00	245.00	8,677.0	-223.8	-479.9	-189.2	0.00	0.00	0.00
8,800.0	5.00	245.00	8,776.7	-227.5	-487.8	-192.3	0.00	0.00	0.00
8,900.0	5.00	245.00	8,876.3	-231.1	-495.7	-195.4	0.00	0.00	0.00
9,000.0	5.00	245.00	8,975.9	-234.8	-503.6	-198.5	0.00	0.00	0.00
9,065.9	5.00	245.00	9,041.5	-237.2	-508.8	-200.6	0.00	0.00	0.00
Start DLS 10.00 TFO 97.72									
9,100.0	5.66	281.75	9,075.5	-237.5	-511.8	-200.6	10.00	1.94	107.63
9,200.0	13.66	321.84	9,174.1	-227.2	-523.9	-189.5	10.00	8.00	40.09
9,300.0	23.25	331.10	9,268.9	-200.6	-540.8	-161.7	10.00	9.59	9.26
9,400.0	33.07	335.09	9,356.9	-158.5	-561.9	-118.2	10.00	9.83	3.99
9,500.0	42.97	337.41	9,435.6	-102.1	-586.5	-60.2	10.00	9.90	2.31
9,600.0	52.90	338.99	9,502.5	-33.2	-614.0	10.4	10.00	9.93	1.58
9,700.0	62.85	340.20	9,555.6	46.1	-643.4	91.6	10.00	9.95	1.21

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3105.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3105.0usft (TBD)
Well:	POTATO BABY ST COM #703H	**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	72.81	341.21	9,593.3	133.4	-674.0	180.8	10.00	9.96	1.01
9,900.0	82.77	342.11	9,614.4	226.0	-704.7	275.4	10.00	9.96	0.91
9,971.4	89.88	342.73	9,619.0	293.9	-726.2	344.6	10.00	9.96	0.87
Start DLS 2.00 TFO 90.02									
10,000.0	89.88	343.31	9,619.1	321.3	-734.5	372.5	2.00	0.00	2.00
10,100.0	89.88	345.31	9,619.3	417.5	-761.6	470.5	2.00	0.00	2.00
10,200.0	89.88	347.31	9,619.5	514.7	-785.2	569.1	2.00	0.00	2.00
10,300.0	89.88	349.31	9,619.7	612.6	-805.5	668.2	2.00	0.00	2.00
10,400.0	89.88	351.31	9,619.9	711.2	-822.4	767.7	2.00	0.00	2.00
10,500.0	89.88	353.31	9,620.1	810.3	-835.7	867.5	2.00	0.00	2.00
10,600.0	89.88	355.31	9,620.4	909.8	-845.7	967.4	2.00	0.00	2.00
10,700.0	89.88	357.31	9,620.6	1,009.6	-852.1	1,067.4	2.00	0.00	2.00
10,800.0	89.88	359.31	9,620.8	1,109.5	-855.1	1,167.3	2.00	0.00	2.00
10,837.1	89.88	0.05	9,620.9	1,146.6	-855.3	1,204.4	2.00	0.00	2.00
Start 773.9 hold at 10837.1 MD									
10,900.0	89.88	0.05	9,621.0	1,209.5	-855.2	1,267.1	0.00	0.00	0.00
11,000.0	89.88	0.05	9,621.2	1,309.5	-855.1	1,366.8	0.00	0.00	0.00
11,100.0	89.88	0.05	9,621.4	1,409.5	-855.0	1,466.6	0.00	0.00	0.00
11,200.0	89.88	0.05	9,621.6	1,509.5	-855.0	1,566.3	0.00	0.00	0.00
11,300.0	89.88	0.05	9,621.8	1,609.5	-854.9	1,666.1	0.00	0.00	0.00
11,400.0	89.88	0.05	9,622.1	1,709.5	-854.8	1,765.8	0.00	0.00	0.00
11,500.0	89.88	0.05	9,622.3	1,809.5	-854.7	1,865.6	0.00	0.00	0.00
11,600.0	89.88	0.05	9,622.5	1,909.5	-854.6	1,965.3	0.00	0.00	0.00
11,611.0	89.88	0.05	9,622.5	1,920.5	-854.6	1,976.2	0.00	0.00	0.00
Start DLS 2.00 TFO -88.59									
11,616.0	89.88	359.95	9,622.5	1,925.5	-854.6	1,981.3	2.00	0.05	-2.00
Start 2642.0 hold at 11616.0 MD									
11,700.0	89.88	359.95	9,622.7	2,009.5	-854.7	2,065.1	0.00	0.00	0.00
11,800.0	89.88	359.95	9,622.9	2,109.5	-854.8	2,164.8	0.00	0.00	0.00
11,900.0	89.88	359.95	9,623.1	2,209.5	-854.9	2,264.6	0.00	0.00	0.00
12,000.0	89.88	359.95	9,623.3	2,309.5	-855.0	2,364.3	0.00	0.00	0.00
12,100.0	89.88	359.95	9,623.5	2,409.5	-855.1	2,464.1	0.00	0.00	0.00
12,200.0	89.88	359.95	9,623.7	2,509.5	-855.2	2,563.8	0.00	0.00	0.00
12,300.0	89.88	359.95	9,623.9	2,609.5	-855.2	2,663.6	0.00	0.00	0.00
12,400.0	89.88	359.95	9,624.1	2,709.5	-855.3	2,763.3	0.00	0.00	0.00
12,500.0	89.88	359.95	9,624.3	2,809.5	-855.4	2,863.1	0.00	0.00	0.00
12,600.0	89.88	359.95	9,624.6	2,909.5	-855.5	2,962.8	0.00	0.00	0.00
12,700.0	89.88	359.95	9,624.8	3,009.5	-855.6	3,062.6	0.00	0.00	0.00
12,800.0	89.88	359.95	9,625.0	3,109.5	-855.7	3,162.4	0.00	0.00	0.00
12,900.0	89.88	359.95	9,625.2	3,209.5	-855.8	3,262.1	0.00	0.00	0.00
13,000.0	89.88	359.95	9,625.4	3,309.5	-855.9	3,361.9	0.00	0.00	0.00
13,100.0	89.88	359.95	9,625.6	3,409.5	-856.0	3,461.6	0.00	0.00	0.00
13,200.0	89.88	359.95	9,625.8	3,509.5	-856.1	3,561.4	0.00	0.00	0.00
13,300.0	89.88	359.95	9,626.0	3,609.5	-856.2	3,661.1	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3105.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3105.0usft (TBD)
Well:	POTATO BABY ST COM #703H	**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)
13,400.0	89.88	359.95	9,626.2	3,709.5	-856.3	3,760.9	0.00	0.00	0.00
13,500.0	89.88	359.95	9,626.4	3,809.5	-856.4	3,860.6	0.00	0.00	0.00
13,600.0	89.88	359.95	9,626.6	3,909.5	-856.5	3,960.4	0.00	0.00	0.00
13,700.0	89.88	359.95	9,626.8	4,009.5	-856.5	4,060.1	0.00	0.00	0.00
13,800.0	89.88	359.95	9,627.0	4,109.5	-856.6	4,159.9	0.00	0.00	0.00
13,900.0	89.88	359.95	9,627.3	4,209.5	-856.7	4,259.7	0.00	0.00	0.00
14,000.0	89.88	359.95	9,627.5	4,309.5	-856.8	4,359.4	0.00	0.00	0.00
14,100.0	89.88	359.95	9,627.7	4,409.5	-856.9	4,459.2	0.00	0.00	0.00
14,200.0	89.88	359.95	9,627.9	4,509.5	-857.0	4,558.9	0.00	0.00	0.00
14,258.0	89.88	359.95	9,628.0	4,567.5	-857.1	4,616.8	0.00	0.00	0.00
Start DLS 2.00 TFO -89.94									
14,300.0	89.88	359.11	9,628.1	4,609.5	-857.4	4,658.7	2.00	0.00	-2.00
14,315.5	89.88	358.80	9,628.1	4,625.0	-857.7	4,674.2	2.00	0.00	-2.00
Start 2567.1 hold at 14315.5 MD									
14,400.0	89.88	358.80	9,628.3	4,709.5	-859.5	4,758.6	0.00	0.00	0.00
14,500.0	89.88	358.80	9,628.5	4,809.4	-861.6	4,858.4	0.00	0.00	0.00
14,600.0	89.88	358.80	9,628.7	4,909.4	-863.7	4,958.3	0.00	0.00	0.00
14,700.0	89.88	358.80	9,628.9	5,009.4	-865.8	5,058.2	0.00	0.00	0.00
14,800.0	89.88	358.80	9,629.1	5,109.4	-867.9	5,158.1	0.00	0.00	0.00
14,900.0	89.88	358.80	9,629.3	5,209.4	-870.0	5,257.9	0.00	0.00	0.00
15,000.0	89.88	358.80	9,629.5	5,309.3	-872.1	5,357.8	0.00	0.00	0.00
15,100.0	89.88	358.80	9,629.7	5,409.3	-874.2	5,457.7	0.00	0.00	0.00
15,200.0	89.88	358.80	9,629.9	5,509.3	-876.3	5,557.6	0.00	0.00	0.00
15,300.0	89.88	358.80	9,630.1	5,609.3	-878.4	5,657.4	0.00	0.00	0.00
15,400.0	89.88	358.80	9,630.3	5,709.2	-880.5	5,757.3	0.00	0.00	0.00
15,500.0	89.88	358.80	9,630.6	5,809.2	-882.6	5,857.2	0.00	0.00	0.00
15,600.0	89.88	358.80	9,630.8	5,909.2	-884.7	5,957.1	0.00	0.00	0.00
15,700.0	89.88	358.80	9,631.0	6,009.2	-886.8	6,056.9	0.00	0.00	0.00
15,800.0	89.88	358.80	9,631.2	6,109.2	-888.9	6,156.8	0.00	0.00	0.00
15,900.0	89.88	358.80	9,631.4	6,209.1	-891.0	6,256.7	0.00	0.00	0.00
16,000.0	89.88	358.80	9,631.6	6,309.1	-893.1	6,356.6	0.00	0.00	0.00
16,100.0	89.88	358.80	9,631.8	6,409.1	-895.2	6,456.4	0.00	0.00	0.00
16,200.0	89.88	358.80	9,632.0	6,509.1	-897.3	6,556.3	0.00	0.00	0.00
16,300.0	89.88	358.80	9,632.2	6,609.0	-899.4	6,656.2	0.00	0.00	0.00
16,400.0	89.88	358.80	9,632.4	6,709.0	-901.5	6,756.1	0.00	0.00	0.00
16,500.0	89.88	358.80	9,632.6	6,809.0	-903.6	6,855.9	0.00	0.00	0.00
16,600.0	89.88	358.80	9,632.8	6,909.0	-905.7	6,955.8	0.00	0.00	0.00
16,700.0	89.88	358.80	9,633.0	7,009.0	-907.8	7,055.7	0.00	0.00	0.00
16,800.0	89.88	358.80	9,633.2	7,108.9	-909.9	7,155.6	0.00	0.00	0.00
16,882.6	89.88	358.80	9,633.4	7,191.6	-911.6	7,238.1	0.00	0.00	0.00
Start DLS 2.00 TFO 90.02									
16,900.0	89.88	359.14	9,633.4	7,208.9	-911.9	7,255.4	2.00	0.00	2.00
16,988.1	89.88	0.91	9,633.6	7,297.0	-911.9	7,343.3	2.00	0.00	2.00
Start 2313.6 hold at 16988.1 MD									

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3105.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3105.0usft (TBD)
Well:	POTATO BABY ST COM #703H	**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)
17,000.0	89.88	0.91	9,633.6	7,308.9	-911.7	7,355.2	0.00	0.00	0.00
17,100.0	89.88	0.91	9,633.8	7,408.9	-910.1	7,454.8	0.00	0.00	0.00
17,200.0	89.88	0.91	9,634.1	7,508.9	-908.5	7,554.4	0.00	0.00	0.00
17,300.0	89.88	0.91	9,634.3	7,608.9	-906.9	7,654.0	0.00	0.00	0.00
17,400.0	89.88	0.91	9,634.5	7,708.9	-905.4	7,753.7	0.00	0.00	0.00
17,500.0	89.88	0.91	9,634.7	7,808.8	-903.8	7,853.3	0.00	0.00	0.00
17,600.0	89.88	0.91	9,634.9	7,908.8	-902.2	7,952.9	0.00	0.00	0.00
17,700.0	89.88	0.91	9,635.1	8,008.8	-900.6	8,052.5	0.00	0.00	0.00
17,800.0	89.88	0.91	9,635.3	8,108.8	-899.0	8,152.1	0.00	0.00	0.00
17,900.0	89.88	0.91	9,635.5	8,208.8	-897.5	8,251.8	0.00	0.00	0.00
18,000.0	89.88	0.91	9,635.7	8,308.8	-895.9	8,351.4	0.00	0.00	0.00
18,100.0	89.88	0.91	9,635.9	8,408.8	-894.3	8,451.0	0.00	0.00	0.00
18,200.0	89.88	0.91	9,636.1	8,508.8	-892.7	8,550.6	0.00	0.00	0.00
18,300.0	89.88	0.91	9,636.3	8,608.7	-891.1	8,650.3	0.00	0.00	0.00
18,400.0	89.88	0.91	9,636.5	8,708.7	-889.5	8,749.9	0.00	0.00	0.00
18,500.0	89.88	0.91	9,636.7	8,808.7	-888.0	8,849.5	0.00	0.00	0.00
18,600.0	89.88	0.91	9,636.9	8,908.7	-886.4	8,949.1	0.00	0.00	0.00
18,700.0	89.88	0.91	9,637.2	9,008.7	-884.8	9,048.8	0.00	0.00	0.00
18,800.0	89.88	0.91	9,637.4	9,108.7	-883.2	9,148.4	0.00	0.00	0.00
18,900.0	89.88	0.91	9,637.6	9,208.7	-881.6	9,248.0	0.00	0.00	0.00
19,000.0	89.88	0.91	9,637.8	9,308.7	-880.1	9,347.6	0.00	0.00	0.00
19,100.0	89.88	0.91	9,638.0	9,408.6	-878.5	9,447.3	0.00	0.00	0.00
19,200.0	89.88	0.91	9,638.2	9,508.6	-876.9	9,546.9	0.00	0.00	0.00
19,300.0	89.88	0.91	9,638.4	9,608.6	-875.3	9,646.5	0.00	0.00	0.00
19,301.6	89.88	0.91	9,638.4	9,610.2	-875.3	9,648.1	0.00	0.00	0.00
Start DLS 2.00 TFO -90.10									
19,345.1	89.88	0.04	9,638.5	9,653.8	-874.9	9,691.5	2.00	0.00	-2.00
Start 2630.5 hold at 19345.1 MD									
19,400.0	89.88	0.04	9,638.6	9,708.6	-874.9	9,746.2	0.00	0.00	0.00
19,500.0	89.88	0.04	9,638.8	9,808.6	-874.8	9,846.0	0.00	0.00	0.00
19,600.0	89.88	0.04	9,639.0	9,908.6	-874.8	9,945.7	0.00	0.00	0.00
19,700.0	89.88	0.04	9,639.2	10,008.6	-874.7	10,045.4	0.00	0.00	0.00
19,800.0	89.88	0.04	9,639.4	10,108.6	-874.7	10,145.2	0.00	0.00	0.00
19,900.0	89.88	0.04	9,639.7	10,208.6	-874.6	10,244.9	0.00	0.00	0.00
20,000.0	89.88	0.04	9,639.9	10,308.6	-874.5	10,344.7	0.00	0.00	0.00
20,100.0	89.88	0.04	9,640.1	10,408.6	-874.5	10,444.4	0.00	0.00	0.00
20,200.0	89.88	0.04	9,640.3	10,508.6	-874.4	10,544.2	0.00	0.00	0.00
20,300.0	89.88	0.04	9,640.5	10,608.6	-874.4	10,643.9	0.00	0.00	0.00
20,400.0	89.88	0.04	9,640.7	10,708.6	-874.3	10,743.7	0.00	0.00	0.00
20,500.0	89.88	0.04	9,640.9	10,808.6	-874.2	10,843.4	0.00	0.00	0.00
20,600.0	89.88	0.04	9,641.1	10,908.6	-874.2	10,943.1	0.00	0.00	0.00
20,700.0	89.88	0.04	9,641.3	11,008.6	-874.1	11,042.9	0.00	0.00	0.00
20,800.0	89.88	0.04	9,641.5	11,108.6	-874.1	11,142.6	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3105.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3105.0usft (TBD)
Well:	POTATO BABY ST COM #703H	**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)
20,900.0	89.88	0.04	9,641.7	11,208.6	-874.0	11,242.4	0.00	0.00	0.00
21,000.0	89.88	0.04	9,642.0	11,308.6	-873.9	11,342.1	0.00	0.00	0.00
21,100.0	89.88	0.04	9,642.2	11,408.6	-873.9	11,441.9	0.00	0.00	0.00
21,200.0	89.88	0.04	9,642.4	11,508.6	-873.8	11,541.6	0.00	0.00	0.00
21,300.0	89.88	0.04	9,642.6	11,608.6	-873.7	11,641.3	0.00	0.00	0.00
21,400.0	89.88	0.04	9,642.8	11,708.6	-873.7	11,741.1	0.00	0.00	0.00
21,500.0	89.88	0.04	9,643.0	11,808.6	-873.6	11,840.8	0.00	0.00	0.00
21,600.0	89.88	0.04	9,643.2	11,908.6	-873.6	11,940.6	0.00	0.00	0.00
21,700.0	89.88	0.04	9,643.4	12,008.6	-873.5	12,040.3	0.00	0.00	0.00
21,800.0	89.88	0.04	9,643.6	12,108.6	-873.4	12,140.1	0.00	0.00	0.00
21,900.0	89.88	0.04	9,643.8	12,208.6	-873.4	12,239.8	0.00	0.00	0.00
21,975.6	89.88	0.04	9,644.0	12,284.2	-873.3	12,315.2	0.00	0.00	0.00
TD at 21975.6									

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	9,619.0	26.2	-850.0	364,108.98	580,681.86	32° 0' 2.816 N	104° 4' 23.027 W
- plan misses target center by 205.0usft at 9769.8usft MD (9583.6 TVD, 106.3 N, -664.7 E)									
- Circle (radius 50.0)									
T1 (POTATO BABY S	-0.12	180.05	9,622.5	1,920.5	-854.6	366,003.25	580,677.29	32° 0' 21.563 N	104° 4' 23.027 W
- plan hits target center									
- Rectangle (sides W100.0 H2,170.0 D20.0)									
T2 (POTATO BABY S	-0.12	179.95	9,628.0	4,567.5	-857.1	368,650.31	580,674.84	32° 0' 47.760 N	104° 4' 22.981 W
- plan hits target center									
- Rectangle (sides W100.0 H2,637.0 D20.0)									
T3 (POTATO BABY S	-0.12	178.80	9,633.4	7,191.6	-911.6	371,274.34	580,620.31	32° 1' 13.730 N	104° 4' 23.541 W
- plan hits target center									
- Rectangle (sides W100.0 H2,624.0 D20.0)									
T4 (POTATO BABY S	-0.12	180.91	9,638.4	9,610.2	-875.3	373,693.03	580,656.60	32° 1' 37.666 N	104° 4' 23.052 W
- plan hits target center									
- Rectangle (sides W100.0 H2,419.0 D20.0)									
PBHL (POTATO BAB	-0.12	180.04	9,644.0	12,284.2	-873.3	376,367.01	580,658.57	32° 2' 4.129 N	104° 4' 22.954 W
- plan hits target center									
- Rectangle (sides W100.0 H2,674.0 D20.0)									
LTP (POTATO BABY S	0.00	0.00	9,644.0	12,154.2	-873.4	376,237.01	580,658.45	32° 2' 2.842 N	104° 4' 22.959 W
- plan misses target center by 0.3usft at 21845.6usft MD (9643.7 TVD, 12154.2 N, -873.4 E)									
- Point									

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #703H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3105.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3105.0usft (TBD)
Well:	POTATO BABY ST COM #703H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP2	**Database:**	edm

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 6315.9 hold at 2750.0 MD
9066	9042	-237	-509	Start DLS 10.00 TFO 97.72
9971	9619	294	-726	Start DLS 2.00 TFO 90.02
10,837	9621	1147	-855	Start 773.9 hold at 10837.1 MD
11,611	9623	1920	-855	Start DLS 2.00 TFO -88.59
11,616	9623	1926	-855	Start 2642.0 hold at 11616.0 MD
14,258	9628	4568	-857	Start DLS 2.00 TFO -89.94
14,316	9628	4625	-858	Start 2567.1 hold at 14315.5 MD
16,883	9633	7192	-912	Start DLS 2.00 TFO 90.02
16,988	9634	7297	-912	Start 2313.6 hold at 16988.1 MD
19,302	9638	9610	-875	Start DLS 2.00 TFO -90.10
19,345	9638	9654	-875	Start 2630.5 hold at 19345.1 MD
21,976	9644	12,284	-873	TD at 21975.6

Checked By: _____ Approved By: _____ Date: _____

CONCHO

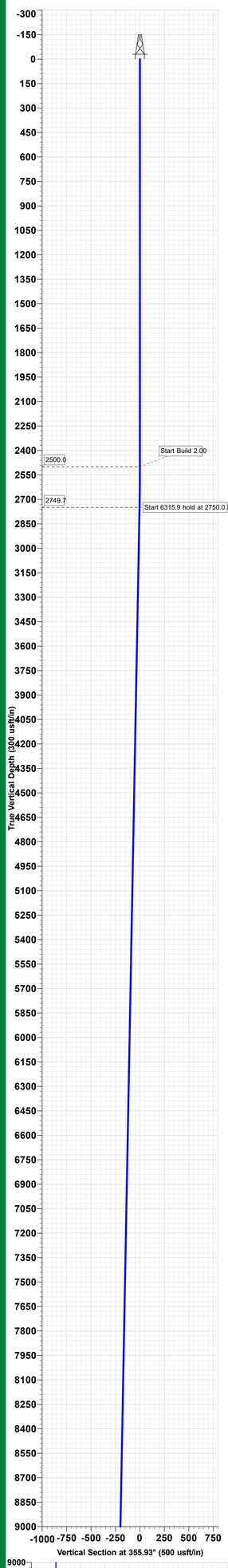
Project:	ATLAS PROSPECT (NM-E)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)
Well:	POTATO BABY ST COM #703H
Wellbore:	OWB
Design:	PWP2
GL:	3075.0
*KB=30' @ 3105.0usft (TBD)	

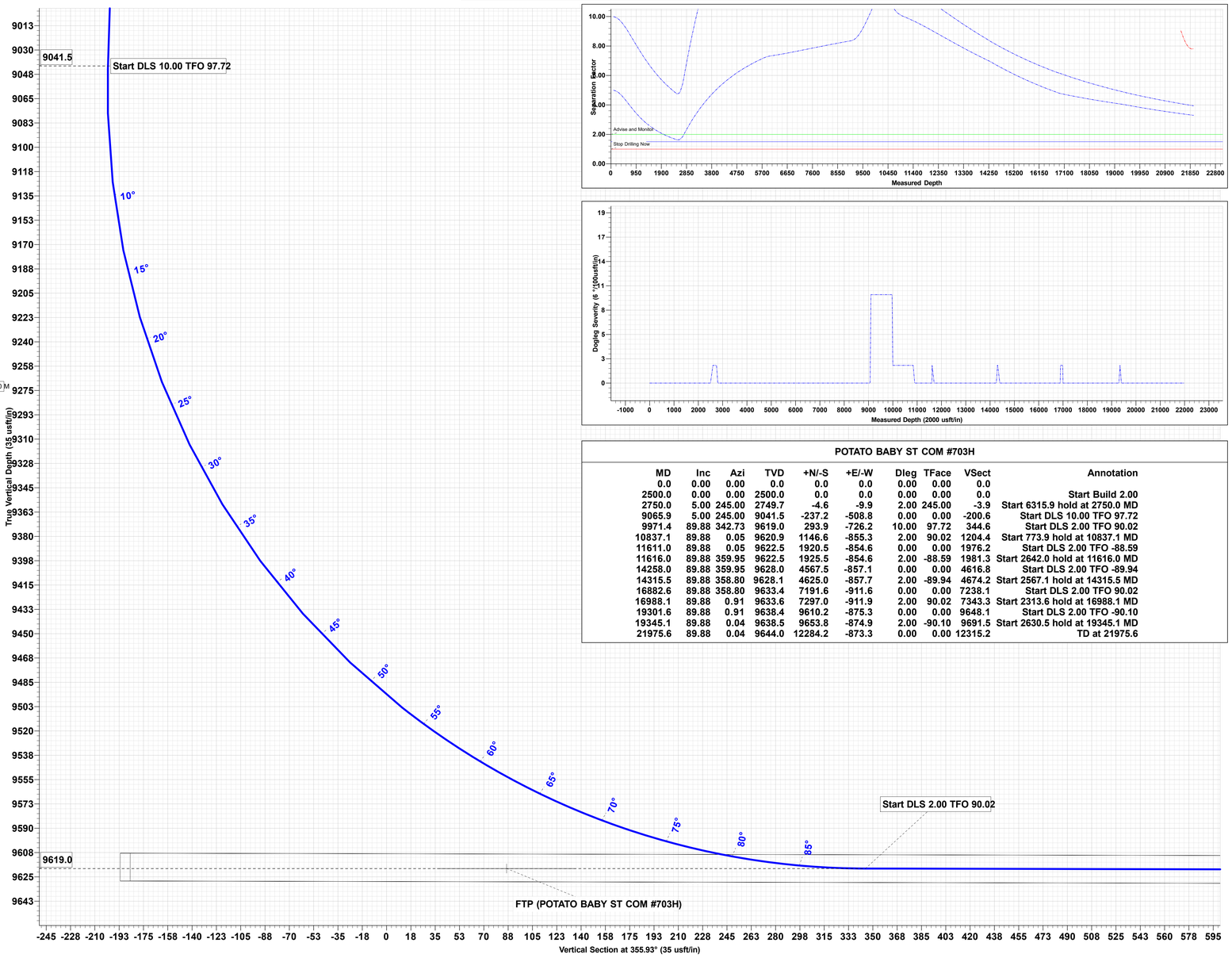
WELL DETAILS: POTATO BABY ST COM #703H

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.0	0.0	364082.79	581531.90	32° 0' 2.536 N	104° 4' 13.156 W

DESIGN TARGET DETAILS

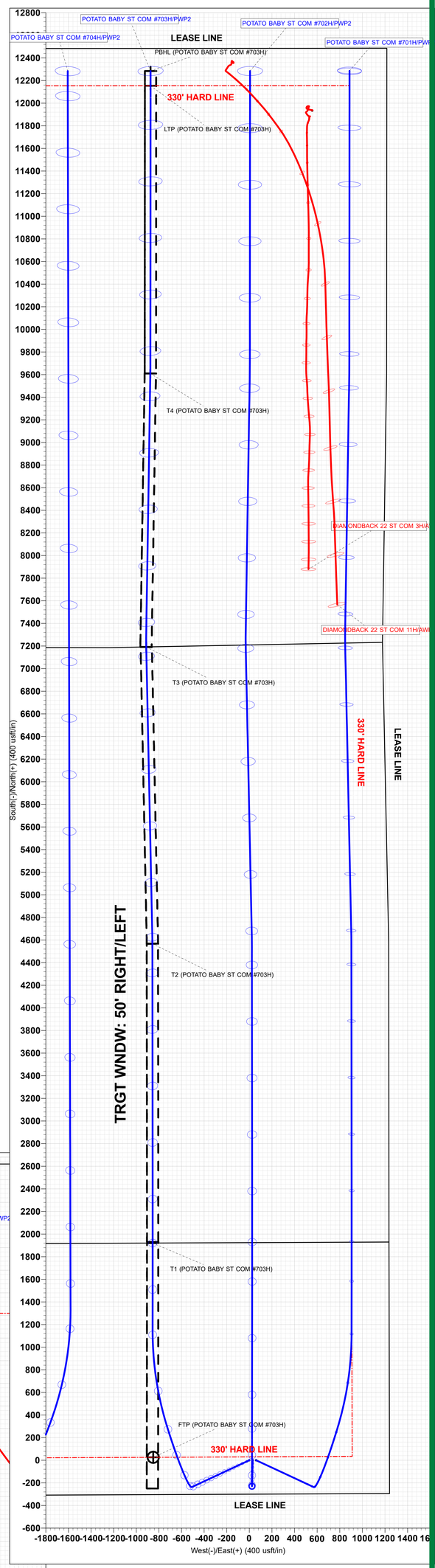
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (POTATO BABY ST COM #703H)	9619.0	26.2	-850.0	364108.98	580681.86	32° 0' 2.816 N	104° 4' 23.027 W
T1 (POTATO BABY ST COM #703H)	9622.5	1920.5	-854.6	366003.25	580677.29	32° 0' 21.563 N	104° 4' 23.027 W
T2 (POTATO BABY ST COM #703H)	9628.0	4567.5	-857.1	368650.31	580674.84	32° 0' 47.760 N	104° 4' 22.981 W
T3 (POTATO BABY ST COM #703H)	9633.4	7191.6	-911.6	371274.34	580620.31	32° 1' 13.730 N	104° 4' 23.541 W
T4 (POTATO BABY ST COM #703H)	9638.4	9610.2	-875.3	373693.03	580656.60	32° 1' 37.666 N	104° 4' 23.052 W
LTP (POTATO BABY ST COM #703H)	9644.0	12154.2	-873.5	376237.01	580658.45	32° 2' 2.842 N	104° 4' 22.959 W
PBHL (POTATO BABY ST COM #703H)	9644.0	12284.2	-873.3	376367.01	580658.57	32° 2' 4.129 N	104° 4' 22.954 W

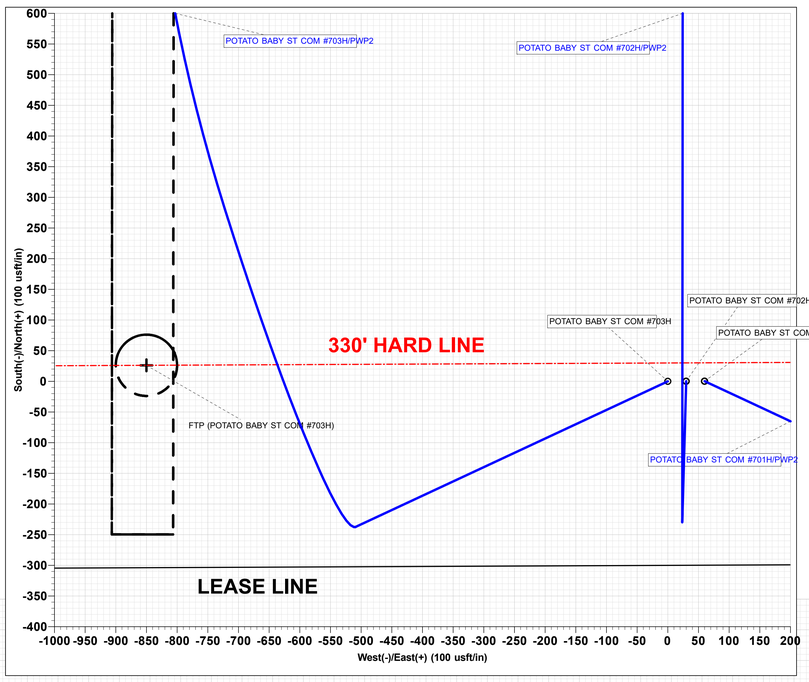


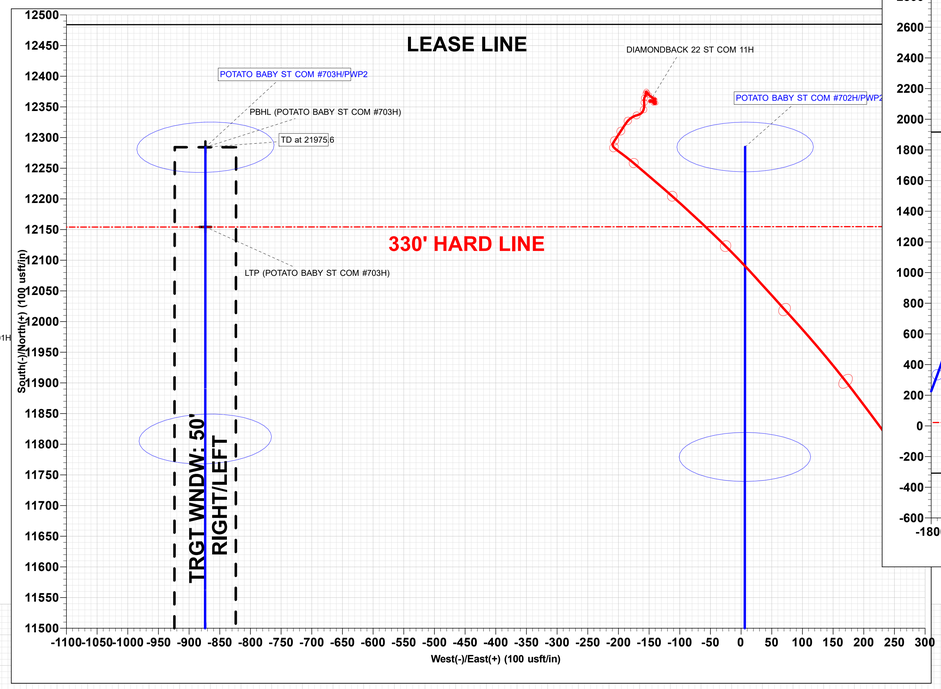


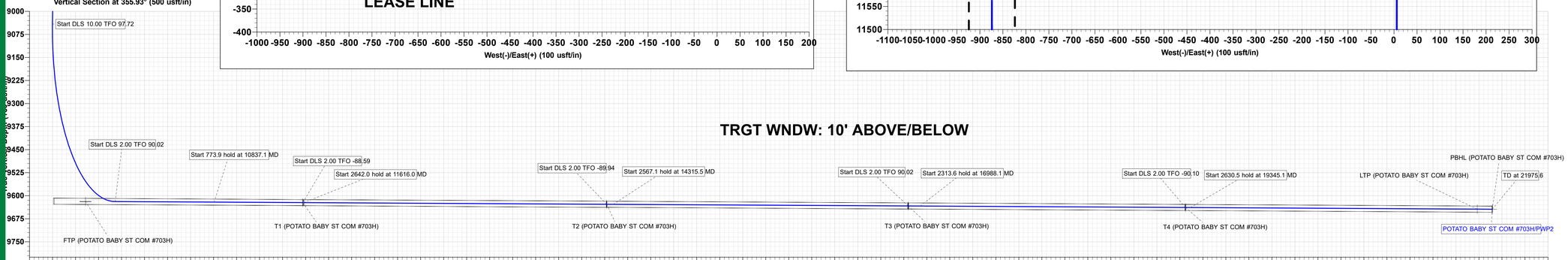
POTATO BABY ST COM #703H

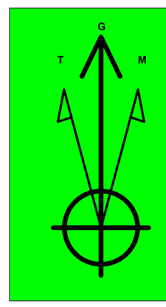
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2750.0	5.00	245.00	2749.7	-4.6	-9.9	2.00	245.00	-3.9	Start 6315.9 hold at 2750.0 MD
9065.9	5.00	245.00	9041.5	-237.2	-508.8	0.00	0.00	-200.6	Start DLS 10.00 TFO 97.72
9971.4	89.88	342.73	9619.0	293.9	-726.2	10.00	97.72	344.6	Start DLS 2.00 TFO 90.02
10837.1	89.88	0.05	9620.9	1146.6	-855.3	2.00	90.02	1204.4	Start 773.9 hold at 10837.1 MD
11611.0	89.88	0.05	9622.5	1920.5	-854.6	0.00	0.00	1976.2	Start DLS 2.00 TFO -88.59
11616.0	89.88	359.95	9622.5	1925.5	-854.6	2.00	-88.59	1981.3	Start 2642.0 hold at 11616.0 MD
14258.0	89.88	359.95	9628.0	4567.5	-857.1	0.00	0.00	4616.8	Start DLS 2.00 TFO -89.94
14315.5	89.88	358.80	9628.1	4625.0	-857.7	2.00	-89.94	4674.2	Start 2567.1 hold at 14315.5 MD
16882.6	89.88	358.80	9633.4	7191.6	-911.6	0.00	0.00	7238.1	Start DLS 2.00 TFO 90.02
16988.1	89.88	0.91	9633.6	7297.0	-911.9	2.00	90.02	7343.3	Start 2313.6 hold at 16988.1 MD
19301.6	89.88	0.91	9638.4	9610.2	-875.3	0.00	0.00	9648.1	Start DLS 2.00 TFO -90.10
19345.1	89.88	0.04	9638.5	9653.8	-874.9	2.00	-90.10	9691.5	Start 2630.5 hold at 19345.1 MD
21975.6	89.88	0.04	9644.0	12284.2	-873.3	0.00	0.00	12315.2	TD at 21975.6











Azimuths to Grid North
True North: -0.14°
Magnetic North: 6.72°

Magnetic Field
Strength: 47405.5nT
Dip Angle: 59.65°
Date: 7/21/2020
Model: IGRF2020

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.

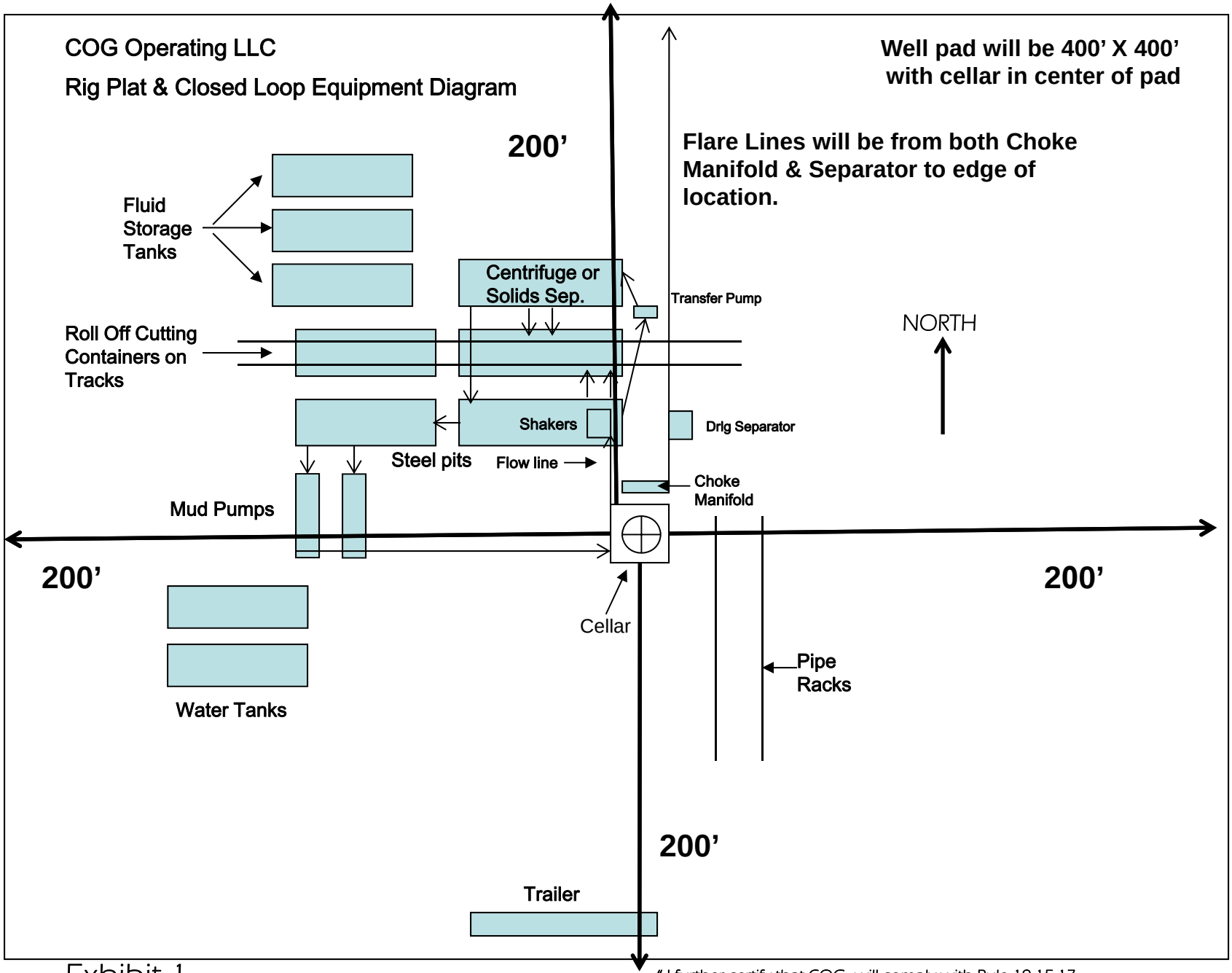


Exhibit 1

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