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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 C-101
August 1, 2011

Permit 286697

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 30-015-47460

4. Property Code	5. Property Name	6. Well No.
329348	Potato Baby State Com	705H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
F	34	26S	28E	2	380	S	1355	W	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
C	22	26S	28E	C	200	N	1430	W	Eddy

9. Pool Information

PURPLE SAGE;WOLFCAMP (GAS)	98220

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	GAS		State	3082
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	21803	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	21803	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	705H

7 OGRID No.	8 Operator Name	9 Elevation
229137	COG OPERATING LLC	3082'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	34	26-S	28-E		380'	SOUTH	1355'	WEST	EDDY

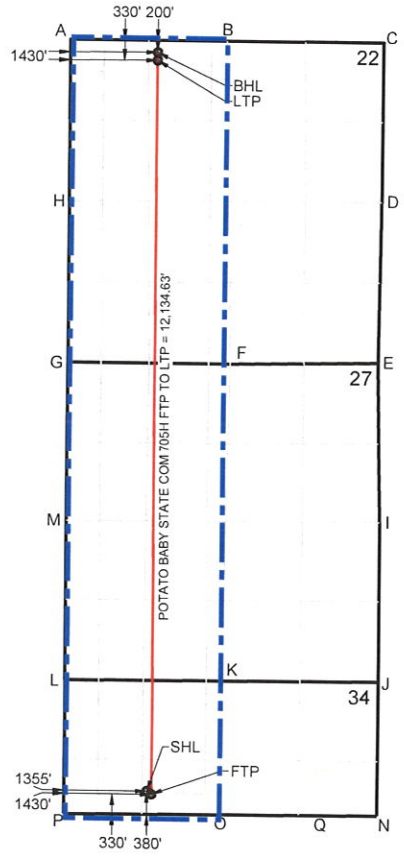
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	22	26-S	28-E		200'	NORTH	1430'	WEST	EDDY

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

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

16



CORNER DATA
NEW MEXICO EAST - NAD 83
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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'
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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=620230.98
Y=376293.38
LAT.= 32.03425490° N
LONG.= 104.07873410° W
330' FNL, 1430' FWL
SECTION 22

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST - NAD 83
X=620230.44
Y=376423.38
LAT.= 32.03461227° N
LONG.= 104.07873487° W
200' FNL, 1430' FWL
SECTION 22

SURFACE HOLE LOCATION (SHL)
NEW MEXICO EAST - NAD 83
X=620183.35
Y=364208.40
LAT.= 32.00103398° N
LONG.= 104.07897960° W
380' FSL, 1355' FWL
SECTION 34

FIRST TAKE POINT (FTP)
NEW MEXICO EAST - NAD 83
X=620258.76
Y=364158.78
LAT.= 32.00089708° N
LONG.= 104.07873670° W
330' FSL, 1430' FWL
SECTION 34

17 OPERATOR CERTIFICATION

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

Stan Wagner 9/17/2020
Signature Date

Stan Wagner
Printed Name

E-mail Address

18 SURVEYOR CERTIFICATION

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

Date of Survey

Signature and Seal of Professional Surveyor

GARRETT J SMELKER
NEW MEXICO
25036
07/08/2020
PROFESSIONAL SURVEYOR

Certificate Number

Intent [X] As Drilled [ ]

API #
30-015-

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

Kick Off Point (KOP)

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

Latitude	Longitude	NAD
		83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
F	34	26S	28E	2	330	South	1430	West	Eddy

Latitude	Longitude	NAD
32.00089708	-104.07873670	NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	22	26S	28E		330	North	1430	West	Eddy

Latitude	Longitude	NAD
32.03425490	-104.07873410	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	705H

KZ 06/29/2018

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GAS CAPTURE PLAN

Date: 9/24/2020

☒ Original

☐ Amended - Reason for Amendment:

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

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

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

Well(s)/Production Facility – Name of facility

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

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Potato Baby State Com #705H	30-015-47460	F-34-26S-28E	0380S 1355W	5700	None	Sec 35-Blk 57, T2, Culberson Co., Texas Red Bluff low pressure gathering system.

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to ETC FIELD SERVICES LLC and will be connected to ETC FIELD SERVICES LLC Low Pressure gathering system located in Eddy County, New Mexico. It will require 0' of pipeline to connect the facility to Low Pressure gathering system. COG OPERATING LLC provides (periodically) to ETC FIELD SERVICES LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, COG OPERATING LLC and ETC FIELD SERVICES LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at ETC FIELD SERVICES LLC Processing Plant located in Sec. 34, Twn. 26S, Rng. 34E, 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 286697

PERMIT COMMENTS

Operator Name and Address:	API Number:
COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701	30-015-47460
	Well: Potato Baby State Com #705H

Created By	Comment	Comment Date

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Santa Fe, NM 87505

Form APD Conditions

Permit 286697

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701	30-015-47460
	Well: Potato Baby State Com #705H

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	705H

7 OGRID No.	8 Operator Name	9 Elevation
229137	COG OPERATING LLC	3082'

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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.

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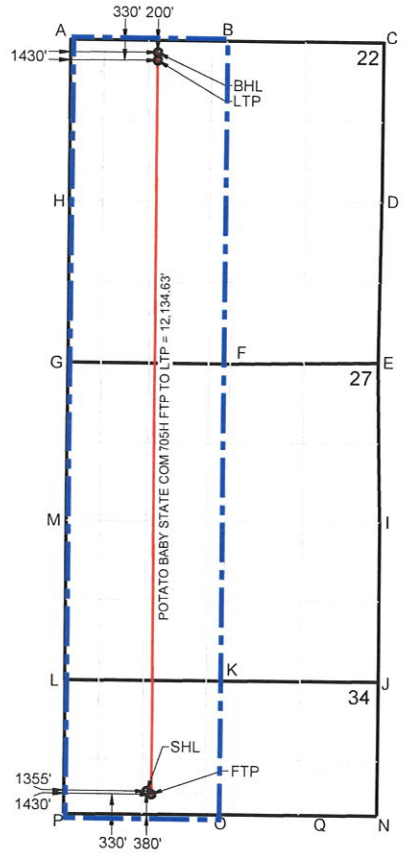

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SECTION 34

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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	705H

Kick Off Point (KOP)

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

Latitude	Longitude	NAD
		83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
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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
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Latitude	Longitude	NAD
32.03425490	-104.07873410	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	705H

KZ 06/29/2018

Potato Baby State Com #705H

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#	21803’	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 21803’ 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

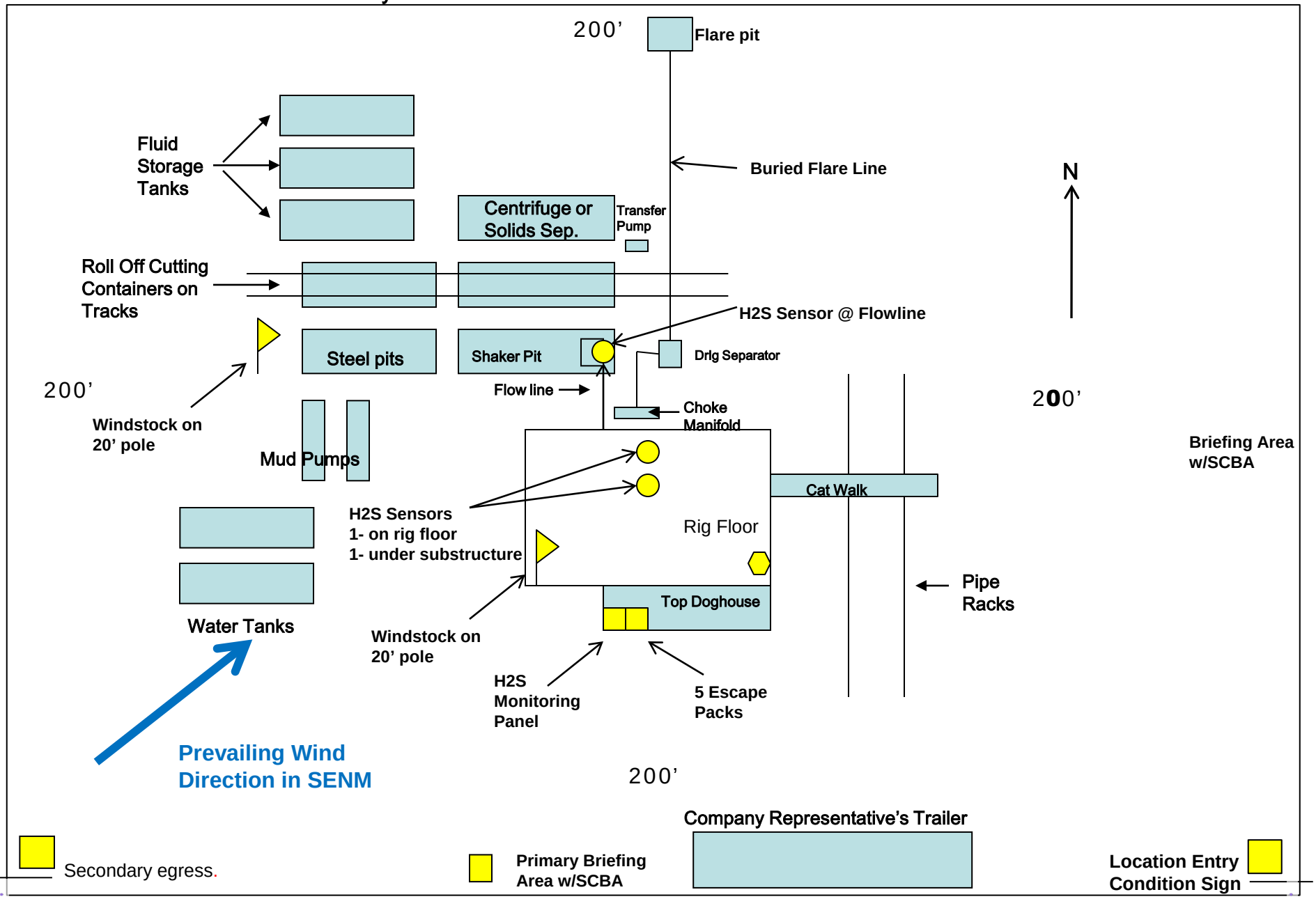
	OFFICE	MOBILE
COG OPERATING LLC OFFICE	575-748-6940	
SETH WILD	432-683-7443	432-528-3633
WALTER ROYE	575-748-6940	432-934-1886

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 #705H

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 #705H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3112.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	KB=30' @ 3112.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #705H	**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	9,003.7	PWP2 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
9,003.7	21,803.8	PWP2 (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
POTATO BABY STATE PROJECT (ATLAS 2628)						
DIAMONDBACK 22 STATE COM #6H - OWB - ACTUAL						Out of range
POTATO BABY ST COM #703H - OWB - PWP2						Out of range
POTATO BABY ST COM #704H - OWB - PWP2	2,416.3	2,417.3	30.1	17.7	2.431	CC
POTATO BABY ST COM #704H - OWB - PWP2	2,500.0	2,501.0	30.1	17.4	2.371	ES, SF
POTATO BABY ST COM #706H - OWB - PWP2	2,500.0	2,500.0	29.9	17.2	2.358	CC, ES, SF

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
0.0	0.0	1.0	1.0	3.0	3.0	89.54	0.2	30.1	30.1				
100.0	100.0	101.0	101.0	3.0	3.0	89.54	0.2	30.1	30.1	24.1	6.00	5.009	
200.0	200.0	201.0	201.0	3.0	3.0	89.54	0.2	30.1	30.1	24.0	6.04	4.978	
300.0	300.0	301.0	301.0	3.0	3.1	89.54	0.2	30.1	30.1	23.9	6.12	4.912	
400.0	400.0	401.0	401.0	3.0	3.2	89.54	0.2	30.1	30.1	23.8	6.24	4.818	
500.0	500.0	501.0	501.0	3.1	3.4	89.54	0.2	30.1	30.1	23.7	6.40	4.700	
600.0	600.0	601.0	601.0	3.1	3.6	89.54	0.2	30.1	30.1	23.5	6.59	4.566	
700.0	700.0	701.0	701.0	3.1	3.8	89.54	0.2	30.1	30.1	23.3	6.80	4.422	
800.0	800.0	801.0	801.0	3.2	4.0	89.54	0.2	30.1	30.1	23.0	7.04	4.272	
900.0	900.0	901.0	901.0	3.2	4.2	89.54	0.2	30.1	30.1	22.8	7.30	4.121	
1,000.0	1,000.0	1,001.0	1,001.0	3.2	4.5	89.54	0.2	30.1	30.1	22.5	7.57	3.972	
1,100.0	1,100.0	1,101.0	1,101.0	3.3	4.8	89.54	0.2	30.1	30.1	22.2	7.86	3.826	
1,200.0	1,200.0	1,201.0	1,201.0	3.4	5.1	89.54	0.2	30.1	30.1	21.9	8.16	3.685	
1,300.0	1,300.0	1,301.0	1,301.0	3.4	5.4	89.54	0.2	30.1	30.1	21.6	8.47	3.549	
1,400.0	1,400.0	1,401.0	1,401.0	3.5	5.7	89.54	0.2	30.1	30.1	21.3	8.79	3.420	
1,500.0	1,500.0	1,501.0	1,501.0	3.5	6.0	89.54	0.2	30.1	30.1	21.0	9.12	3.297	
1,600.0	1,600.0	1,601.0	1,601.0	3.6	6.3	89.54	0.2	30.1	30.1	20.6	9.46	3.180	
1,700.0	1,700.0	1,701.0	1,701.0	3.7	6.6	89.54	0.2	30.1	30.1	20.3	9.80	3.069	
1,800.0	1,800.0	1,801.0	1,801.0	3.8	6.9	89.54	0.2	30.1	30.1	19.9	10.14	2.964	
1,900.0	1,900.0	1,901.0	1,901.0	3.9	7.2	89.54	0.2	30.1	30.1	19.6	10.50	2.865	
2,000.0	2,000.0	2,001.0	2,001.0	3.9	7.6	89.54	0.2	30.1	30.1	19.2	10.85	2.771	

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 #705H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3112.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	KB=30' @ 3112.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #705H	**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
2,100.0	2,100.0	2,101.0	2,101.0	4.0	7.9	89.54	0.2	30.1	30.1	18.9	11.21	2.682	
2,200.0	2,200.0	2,201.0	2,201.0	4.1	8.2	89.54	0.2	30.1	30.1	18.5	11.57	2.598	
2,300.0	2,300.0	2,301.0	2,301.0	4.2	8.6	89.54	0.2	30.1	30.1	18.1	11.94	2.519	
2,400.0	2,400.0	2,401.0	2,401.0	4.3	8.9	89.54	0.2	30.1	30.1	17.8	12.31	2.443	
2,416.3	2,416.3	2,417.3	2,417.3	4.3	9.0	89.54	0.2	30.1	30.1	17.7	12.37	2.431	CC
2,500.0	2,500.0	2,501.0	2,501.0	4.4	9.2	89.54	0.2	30.1	30.1	17.4	12.68	2.371	ES, SF
2,600.0	2,600.0	2,600.0	2,600.0	4.5	9.6	90.90	-0.5	31.7	31.7	18.6	13.04	2.430	
2,700.0	2,700.0	2,698.8	2,698.6	4.6	9.9	94.21	-2.7	36.3	36.5	23.1	13.38	2.728	
2,800.0	2,800.0	2,797.8	2,797.3	4.7	10.2	97.98	-6.1	43.7	44.3	30.6	13.74	3.225	
2,900.0	2,900.0	2,897.4	2,896.5	4.8	10.5	100.75	-9.8	51.6	52.7	38.6	14.12	3.733	
3,000.0	3,000.0	2,997.0	2,995.8	4.9	10.8	102.76	-13.5	59.5	61.2	46.7	14.51	4.219	
3,100.0	3,100.0	3,096.7	3,095.0	5.0	11.2	104.28	-17.1	67.3	69.7	54.8	14.89	4.682	
3,200.0	3,200.0	3,196.3	3,194.3	5.1	11.5	105.46	-20.8	75.2	78.3	63.0	15.29	5.124	
3,300.0	3,300.0	3,295.9	3,293.5	5.2	11.8	106.42	-24.5	83.1	86.9	71.2	15.68	5.544	
3,400.0	3,400.0	3,395.5	3,392.7	5.3	12.2	107.20	-28.1	90.9	95.6	79.5	16.07	5.945	
3,500.0	3,500.0	3,495.1	3,492.0	5.4	12.5	107.85	-31.8	98.8	104.2	87.7	16.47	6.326	
3,600.0	3,600.0	3,594.8	3,591.2	5.5	12.8	108.40	-35.5	106.7	112.8	96.0	16.87	6.689	
3,700.0	3,700.0	3,694.4	3,690.5	5.7	13.2	108.87	-39.2	114.5	121.5	104.2	17.27	7.035	
3,800.0	3,800.0	3,794.0	3,789.7	5.8	13.5	109.28	-42.8	122.4	130.2	112.5	17.67	7.366	
3,900.0	3,900.0	3,893.6	3,889.0	5.9	13.9	109.64	-46.5	130.3	138.9	120.8	18.08	7.681	
4,000.0	4,000.0	3,993.2	3,988.2	6.0	14.2	109.95	-50.2	138.2	147.5	129.1	18.48	7.982	
4,100.0	4,100.0	4,092.9	4,087.4	6.1	14.5	110.24	-53.8	146.0	156.2	137.3	18.89	8.269	
4,200.0	4,200.0	4,192.5	4,186.7	6.2	14.9	110.49	-57.5	153.9	164.9	145.6	19.30	8.544	
4,300.0	4,300.0	4,292.1	4,285.9	6.3	15.2	110.71	-61.2	161.8	173.6	153.9	19.71	8.807	
4,400.0	4,400.0	4,391.7	4,385.2	6.5	15.6	110.92	-64.8	169.6	182.3	162.2	20.12	9.058	
4,500.0	4,500.0	4,491.3	4,484.4	6.6	15.9	111.10	-68.5	177.5	191.0	170.4	20.54	9.300	
4,600.0	4,600.0	4,591.0	4,583.6	6.7	16.3	111.27	-72.2	185.4	199.7	178.7	20.95	9.531	
4,700.0	4,700.0	4,690.6	4,682.9	6.8	16.6	111.43	-75.8	193.2	208.4	187.0	21.37	9.752	
4,800.0	4,800.0	4,790.2	4,782.1	6.9	17.0	111.57	-79.5	201.1	217.1	195.3	21.78	9.965	
4,900.0	4,900.0	4,889.8	4,881.4	7.0	17.3	111.71	-83.2	209.0	225.8	203.6	22.20	10.170	
5,000.0	5,000.0	4,989.4	4,980.6	7.2	17.7	111.83	-86.9	216.8	234.5	211.9	22.62	10.366	
5,100.0	5,100.0	5,089.1	5,079.8	7.3	18.0	111.94	-90.5	224.7	243.2	220.1	23.04	10.555	
5,200.0	5,200.0	5,188.7	5,179.1	7.4	18.4	112.05	-94.2	232.6	251.9	228.4	23.46	10.737	
5,300.0	5,300.0	5,288.3	5,278.3	7.5	18.7	112.15	-97.9	240.4	260.6	236.7	23.88	10.911	
5,400.0	5,400.0	5,387.9	5,377.6	7.6	19.1	112.24	-101.5	248.3	269.3	245.0	24.30	11.080	
5,500.0	5,500.0	5,487.5	5,476.8	7.8	19.4	112.32	-105.2	256.2	278.0	253.3	24.73	11.242	
5,600.0	5,600.0	5,587.2	5,576.1	7.8	19.8	-51.48	-108.9	264.1	285.6	260.5	25.12	11.372	
5,692.8	5,692.7	5,679.9	5,668.4	7.8	20.1	-52.05	-112.3	271.4	290.8	265.3	25.44	11.429	
5,700.0	5,699.8	5,687.0	5,675.5	7.8	20.1	-52.12	-112.5	271.9	291.1	265.6	25.47	11.431	
5,800.0	5,799.6	5,786.8	5,774.9	7.7	20.5	-53.05	-116.2	279.8	295.7	269.9	25.81	11.457	
5,900.0	5,899.4	5,886.6	5,874.3	7.7	20.8	-53.94	-119.9	287.7	300.4	274.3	26.17	11.481	
6,000.0	5,999.2	5,986.4	5,973.7	7.6	21.2	-54.81	-123.6	295.6	305.2	278.7	26.53	11.505	
6,100.0	6,098.9	6,086.1	6,073.1	7.6	21.5	-55.65	-127.2	303.5	310.0	283.1	26.90	11.527	
6,200.0	6,198.7	6,185.9	6,172.5	7.6	21.9	-56.47	-130.9	311.4	314.9	287.7	27.27	11.548	
6,300.0	6,298.5	6,285.7	6,271.9	7.5	22.3	-57.26	-134.6	319.2	319.9	292.2	27.65	11.569	
6,400.0	6,398.3	6,385.5	6,371.3	7.5	22.6	-58.03	-138.3	327.1	324.9	296.9	28.04	11.589	
6,500.0	6,498.0	6,485.3	6,470.7	7.5	23.0	-58.77	-141.9	335.0	330.0	301.6	28.43	11.608	
6,600.0	6,597.8	6,585.0	6,570.1	7.4	23.3	-59.49	-145.6	342.9	335.1	306.3	28.82	11.627	
6,700.0	6,697.6	6,684.8	6,669.5	7.4	23.7	-60.19	-149.3	350.8	340.3	311.1	29.22	11.646	
6,800.0	6,797.3	6,784.6	6,768.9	7.4	24.0	-60.87	-153.0	358.6	345.5	315.9	29.63	11.664	
6,900.0	6,897.1	6,884.4	6,868.3	7.4	24.4	-61.53	-156.7	366.5	350.8	320.8	30.03	11.681	

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 #705H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3112.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	KB=30' @ 3112.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #705H	**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
7,000.0	6,996.9	6,984.2	6,967.7	7.4	24.8	-62.17	-160.3	374.4	356.2	325.7	30.44	11.699	
7,100.0	7,096.7	7,083.9	7,067.1	7.4	25.1	-62.79	-164.0	382.3	361.5	330.7	30.86	11.716	
7,200.0	7,196.4	7,183.7	7,166.5	7.3	25.5	-63.39	-167.7	390.2	366.9	335.7	31.27	11.733	
7,300.0	7,296.2	7,283.5	7,265.9	7.3	25.8	-63.97	-171.4	398.1	372.4	340.7	31.69	11.750	
7,400.0	7,396.0	7,383.3	7,365.3	7.3	26.2	-64.54	-175.0	405.9	377.9	345.7	32.11	11.767	
7,500.0	7,495.8	7,483.1	7,464.7	7.3	26.5	-65.09	-178.7	413.8	383.4	350.8	32.54	11.784	
7,600.0	7,595.5	7,582.8	7,564.1	7.3	26.9	-65.63	-182.4	421.7	388.9	356.0	32.96	11.800	
7,700.0	7,695.3	7,682.6	7,663.5	7.3	27.3	-66.15	-186.1	429.6	394.5	361.1	33.39	11.817	
7,800.0	7,795.1	7,782.4	7,762.9	7.3	27.6	-66.65	-189.7	437.5	400.1	366.3	33.82	11.833	
7,900.0	7,894.9	7,882.2	7,862.3	7.3	28.0	-67.14	-193.4	445.3	405.8	371.6	34.24	11.850	
8,000.0	7,994.6	7,982.0	7,961.7	7.3	28.3	-67.62	-197.1	453.2	411.5	376.8	34.68	11.866	
8,100.0	8,094.4	8,081.7	8,061.1	7.3	28.7	-68.08	-200.8	461.1	417.2	382.1	35.11	11.883	
8,200.0	8,194.2	8,181.5	8,160.5	7.3	29.1	-68.54	-204.4	469.0	422.9	387.4	35.54	11.899	
8,300.0	8,294.0	8,281.3	8,259.9	7.4	29.4	-68.98	-208.1	476.9	428.7	392.7	35.98	11.915	
8,400.0	8,393.7	8,381.1	8,359.3	7.4	29.8	-69.41	-211.8	484.7	434.5	398.0	36.41	11.932	
8,500.0	8,493.5	8,480.9	8,458.7	7.4	30.1	-69.82	-215.5	492.6	440.3	403.4	36.85	11.948	
8,600.0	8,593.3	8,580.6	8,558.1	7.4	30.5	-70.23	-219.1	500.5	446.1	408.8	37.29	11.964	
8,700.0	8,693.0	8,680.4	8,657.5	7.4	30.8	-70.62	-222.8	508.4	452.0	414.2	37.72	11.980	
8,800.0	8,792.8	8,780.2	8,756.9	7.5	31.2	-71.01	-226.5	516.3	457.8	419.7	38.16	11.996	
8,900.0	8,892.6	8,880.0	8,856.3	7.5	31.6	-71.39	-230.2	524.2	463.7	425.1	38.60	12.012	
9,003.7	8,996.1	8,983.5	8,959.5	7.6	31.9	-71.77	-234.0	532.3	469.9	430.8	39.00	12.046	
9,050.0	9,042.3	9,029.7	9,005.4	7.6	32.1	42.48	-235.7	536.0	472.7	433.5	39.18	12.065	
9,100.0	9,092.2	9,076.7	9,052.3	7.6	32.3	81.74	-237.3	539.7	475.9	436.5	39.36	12.091	
9,150.0	9,141.6	9,116.3	9,091.7	7.6	32.4	86.59	-236.8	543.6	480.1	440.5	39.53	12.144	
9,200.0	9,190.3	9,156.0	9,131.0	7.6	32.6	88.49	-233.7	548.3	485.5	445.8	39.71	12.227	
9,250.0	9,237.7	9,200.0	9,174.0	7.7	32.7	89.61	-227.3	554.7	492.2	452.4	39.89	12.340	
9,300.0	9,283.5	9,235.8	9,208.5	7.7	32.8	90.15	-219.7	560.6	500.1	460.1	40.07	12.483	
9,350.0	9,327.5	9,275.8	9,246.3	7.8	33.0	90.54	-208.9	568.0	509.2	469.0	40.25	12.653	
9,400.0	9,369.2	9,316.0	9,283.3	7.8	33.1	90.77	-195.5	576.3	519.5	479.1	40.43	12.849	
9,450.0	9,408.3	9,356.3	9,319.2	7.9	33.2	90.87	-179.7	585.4	530.8	490.2	40.61	13.071	
9,500.0	9,444.6	9,400.0	9,356.6	7.9	33.3	90.96	-159.8	596.1	543.2	502.4	40.80	13.314	
9,550.0	9,477.8	9,437.7	9,387.4	8.0	33.4	90.78	-140.5	605.9	556.6	515.6	40.99	13.580	
9,600.0	9,507.6	9,478.8	9,419.4	8.1	33.5	90.61	-117.2	617.3	570.9	529.7	41.18	13.864	
9,650.0	9,533.8	9,520.4	9,449.7	8.2	33.6	90.36	-91.5	629.4	586.0	544.6	41.37	14.163	
9,700.0	9,556.1	9,562.5	9,478.2	8.2	33.7	90.06	-63.4	642.3	601.8	560.2	41.57	14.475	
9,750.0	9,574.5	9,605.1	9,504.8	8.3	33.8	89.69	-32.9	655.8	618.3	576.5	41.78	14.798	
9,800.0	9,588.8	9,648.5	9,529.2	8.4	33.9	89.28	0.1	670.0	635.3	593.3	42.00	15.128	
9,850.0	9,598.8	9,692.8	9,551.2	8.5	34.0	88.84	35.5	684.9	652.8	610.6	42.22	15.462	
9,900.0	9,604.5	9,738.1	9,570.7	8.6	34.0	88.37	73.3	700.4	670.6	628.1	42.45	15.796	
9,939.6	9,606.0	9,774.9	9,584.0	8.8	34.1	87.99	105.1	713.2	684.8	642.2	42.63	16.062	
10,000.0	9,606.1	9,833.7	9,600.8	9.0	34.2	89.50	157.6	733.8	706.6	663.7	42.94	16.455	
10,100.0	9,606.3	9,938.2	9,616.1	9.5	34.3	90.77	254.2	770.2	742.2	698.6	43.51	17.056	
10,200.0	9,606.5	10,060.9	9,617.2	10.0	34.5	90.79	370.0	810.7	775.5	731.3	44.19	17.548	
10,300.0	9,606.7	10,193.0	9,617.5	10.6	34.6	90.75	496.4	848.9	804.6	759.6	44.97	17.890	
10,400.0	9,606.9	10,328.6	9,617.7	11.2	34.9	90.72	627.9	881.9	829.2	783.3	45.84	18.088	
10,500.0	9,607.2	10,467.2	9,618.0	11.9	35.1	90.70	763.8	909.2	849.1	802.3	46.78	18.153	
10,600.0	9,607.4	10,608.3	9,618.3	12.6	35.4	90.68	903.2	930.3	864.3	816.5	47.76	18.094	
10,700.0	9,607.6	10,751.1	9,618.6	13.3	35.7	90.67	1,045.3	944.5	874.5	825.7	48.79	17.921	
10,800.0	9,607.8	10,895.0	9,618.9	14.0	36.1	90.67	1,189.1	951.7	879.7	829.9	49.85	17.648	
10,900.0	9,608.0	11,019.0	9,619.2	14.7	36.4	90.66	1,313.0	952.5	880.4	829.6	50.88	17.303	
11,000.0	9,608.2	11,119.0	9,619.4	15.4	36.7	90.66	1,413.0	952.3	880.4	828.5	51.91	16.960	

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 #705H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3112.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	KB=30' @ 3112.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #705H	**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
11,100.0	9,608.4	11,219.0	9,619.6	16.2	37.0	90.66	1,513.0	952.0	880.4	827.5	52.97	16.621	
11,200.0	9,608.6	11,319.0	9,619.8	17.0	37.3	90.66	1,613.0	951.8	880.4	826.4	54.05	16.288	
11,300.0	9,608.8	11,419.0	9,620.0	17.7	37.7	90.66	1,713.0	951.6	880.4	825.3	55.17	15.960	
11,400.0	9,609.0	11,519.0	9,620.3	18.5	38.0	90.66	1,813.0	951.3	880.4	824.1	56.30	15.638	
11,500.0	9,609.3	11,619.0	9,620.5	19.3	38.4	90.66	1,913.0	951.1	880.4	823.0	57.46	15.323	
11,600.0	9,609.5	11,719.0	9,620.7	20.1	38.8	90.66	2,013.0	950.9	880.4	821.8	58.64	15.015	
11,700.0	9,609.7	11,819.0	9,620.9	20.9	39.2	90.66	2,113.0	950.7	880.4	820.6	59.84	14.714	
11,800.0	9,609.9	11,919.0	9,621.1	21.7	39.6	90.66	2,213.0	950.4	880.4	819.3	61.05	14.420	
11,900.0	9,610.1	12,019.0	9,621.3	22.5	40.0	90.66	2,313.0	950.2	880.4	818.1	62.29	14.134	
12,000.0	9,610.3	12,119.0	9,621.5	23.3	40.4	90.66	2,413.0	950.0	880.4	816.9	63.54	13.855	
12,100.0	9,610.5	12,219.0	9,621.7	24.2	40.9	90.66	2,513.0	949.7	880.4	815.6	64.81	13.583	
12,200.0	9,610.7	12,319.0	9,621.9	25.0	41.4	90.66	2,613.0	949.5	880.4	814.3	66.10	13.319	
12,300.0	9,610.9	12,419.0	9,622.1	25.8	41.8	90.66	2,713.0	949.3	880.4	813.0	67.40	13.062	
12,400.0	9,611.2	12,519.0	9,622.3	26.6	42.3	90.66	2,813.0	949.0	880.4	811.7	68.72	12.811	
12,500.0	9,611.4	12,619.0	9,622.6	27.4	42.8	90.66	2,913.0	948.8	880.4	810.3	70.05	12.568	
12,600.0	9,611.6	12,719.0	9,622.8	28.3	43.3	90.66	3,013.0	948.6	880.4	809.0	71.39	12.331	
12,700.0	9,611.8	12,819.0	9,623.0	29.1	43.9	90.66	3,113.0	948.3	880.4	807.6	72.75	12.102	
12,800.0	9,612.0	12,919.0	9,623.2	29.9	44.4	90.66	3,213.0	948.1	880.4	806.3	74.12	11.878	
12,900.0	9,612.2	13,019.0	9,623.4	30.8	44.9	90.66	3,313.0	947.9	880.4	804.9	75.50	11.661	
13,000.0	9,612.4	13,119.0	9,623.6	31.6	45.5	90.66	3,413.0	947.7	880.4	803.5	76.89	11.450	
13,100.0	9,612.6	13,219.0	9,623.8	32.4	46.1	90.66	3,513.0	947.4	880.4	802.1	78.29	11.245	
13,200.0	9,612.8	13,319.0	9,624.0	33.3	46.6	90.66	3,613.0	947.2	880.4	800.7	79.70	11.046	
13,300.0	9,613.1	13,419.0	9,624.2	34.1	47.2	90.66	3,713.0	947.0	880.3	799.2	81.12	10.852	
13,400.0	9,613.3	13,519.0	9,624.4	34.9	47.8	90.66	3,813.0	946.7	880.3	797.8	82.55	10.664	
13,500.0	9,613.5	13,619.0	9,624.6	35.8	48.4	90.66	3,913.0	946.5	880.3	796.3	83.99	10.481	
13,600.0	9,613.7	13,719.0	9,624.9	36.6	49.0	90.66	4,013.0	946.3	880.3	794.9	85.44	10.304	
13,700.0	9,613.9	13,819.0	9,625.1	37.5	49.6	90.66	4,113.0	946.0	880.3	793.4	86.90	10.131	
13,800.0	9,614.1	13,919.0	9,625.3	38.3	50.3	90.66	4,213.0	945.8	880.3	792.0	88.36	9.963	
13,900.0	9,614.3	14,019.0	9,625.5	39.2	50.9	90.66	4,313.0	945.6	880.3	790.5	89.83	9.799	
14,000.0	9,614.5	14,119.0	9,625.7	40.0	51.5	90.66	4,413.0	945.3	880.3	789.0	91.31	9.641	
14,100.0	9,614.7	14,219.0	9,625.9	40.8	52.2	90.66	4,513.0	945.1	880.3	787.5	92.80	9.486	
14,200.0	9,615.0	14,319.0	9,626.1	41.7	52.8	90.66	4,613.0	944.9	880.3	786.0	94.30	9.336	
14,300.0	9,615.2	14,419.0	9,626.3	42.5	53.5	90.66	4,713.0	944.7	880.3	784.5	95.80	9.189	
14,400.0	9,615.4	14,519.0	9,626.5	43.4	54.1	90.66	4,813.0	944.4	880.3	783.0	97.30	9.047	
14,500.0	9,615.6	14,619.0	9,626.7	44.2	54.8	90.66	4,913.0	944.2	880.3	781.5	98.81	8.909	
14,600.0	9,615.8	14,719.0	9,626.9	45.1	55.4	90.66	5,013.0	944.0	880.3	780.0	100.33	8.774	
14,700.0	9,616.0	14,819.0	9,627.2	45.9	56.1	90.66	5,113.0	943.7	880.3	778.4	101.86	8.642	
14,800.0	9,616.2	14,919.0	9,627.4	46.8	56.8	90.66	5,213.0	943.5	880.3	776.9	103.39	8.515	
14,900.0	9,616.4	15,019.0	9,627.6	47.6	57.5	90.66	5,313.0	943.3	880.3	775.4	104.92	8.390	
15,000.0	9,616.6	15,119.0	9,627.8	48.5	58.2	90.66	5,413.0	943.0	880.3	773.8	106.46	8.269	
15,100.0	9,616.9	15,219.0	9,628.0	49.3	58.9	90.66	5,513.0	942.8	880.3	772.3	108.01	8.150	
15,200.0	9,617.1	15,319.0	9,628.2	50.2	59.6	90.66	5,613.0	942.6	880.3	770.7	109.55	8.035	
15,300.0	9,617.3	15,419.0	9,628.4	51.0	60.3	90.66	5,713.0	942.3	880.3	769.2	111.11	7.923	
15,400.0	9,617.5	15,519.0	9,628.6	51.9	61.0	90.66	5,813.0	942.1	880.3	767.6	112.67	7.813	
15,500.0	9,617.7	15,619.0	9,628.8	52.7	61.7	90.66	5,913.0	941.9	880.3	766.0	114.23	7.706	
15,600.0	9,617.9	15,719.0	9,629.0	53.6	62.4	90.66	6,013.0	941.6	880.3	764.5	115.79	7.602	
15,700.0	9,618.1	15,819.0	9,629.2	54.4	63.1	90.66	6,113.0	941.4	880.3	762.9	117.36	7.500	
15,800.0	9,618.3	15,919.0	9,629.5	55.3	63.8	90.66	6,213.0	941.2	880.3	761.3	118.94	7.401	
15,900.0	9,618.5	16,019.0	9,629.7	56.1	64.6	90.66	6,313.0	941.0	880.3	759.7	120.51	7.304	
16,000.0	9,618.8	16,119.0	9,629.9	57.0	65.3	90.66	6,413.0	940.7	880.2	758.2	122.10	7.210	
16,100.0	9,619.0	16,219.0	9,630.1	57.8	66.0	90.66	6,513.0	940.5	880.2	756.6	123.68	7.117	

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 #705H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3112.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	KB=30' @ 3112.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #705H	**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
16,200.0	9,619.2	16,319.0	9,630.3	58.7	66.8	90.66	6,613.0	940.3	880.2	755.0	125.27	7.027	
16,300.0	9,619.4	16,419.0	9,630.5	59.5	67.5	90.66	6,713.0	940.0	880.2	753.4	126.86	6.939	
16,400.0	9,619.6	16,519.0	9,630.7	60.4	68.2	90.66	6,813.0	939.8	880.2	751.8	128.45	6.853	
16,500.0	9,619.8	16,619.0	9,630.9	61.2	69.0	90.66	6,913.0	939.6	880.2	750.2	130.05	6.769	
16,600.0	9,620.0	16,719.0	9,631.1	62.1	69.7	90.66	7,013.0	939.3	880.2	748.6	131.65	6.686	
16,700.0	9,620.2	16,819.0	9,631.3	62.9	70.5	90.66	7,113.0	939.1	880.2	747.0	133.25	6.606	
16,800.0	9,620.4	16,919.0	9,631.5	63.8	71.2	90.66	7,213.0	938.9	880.2	745.4	134.85	6.527	
16,900.0	9,620.7	17,019.0	9,631.8	64.6	72.0	90.66	7,313.0	938.6	880.2	743.8	136.46	6.450	
17,000.0	9,620.9	17,119.0	9,632.0	65.5	72.7	90.66	7,413.0	938.4	880.2	742.1	138.07	6.375	
17,100.0	9,621.1	17,219.0	9,632.2	66.4	73.5	90.66	7,513.0	938.2	880.2	740.5	139.68	6.301	
17,200.0	9,621.3	17,319.0	9,632.4	67.2	74.2	90.66	7,613.0	938.0	880.2	738.9	141.30	6.229	
17,300.0	9,621.5	17,419.0	9,632.6	68.1	75.0	90.66	7,713.0	937.7	880.2	737.3	142.91	6.159	
17,400.0	9,621.7	17,519.0	9,632.8	68.9	75.8	90.66	7,813.0	937.5	880.2	735.7	144.53	6.090	
17,500.0	9,621.9	17,619.0	9,633.0	69.8	76.5	90.66	7,913.0	937.3	880.2	734.0	146.15	6.022	
17,600.0	9,622.1	17,719.0	9,633.2	70.6	77.3	90.66	8,013.0	937.0	880.2	732.4	147.78	5.956	
17,700.0	9,622.3	17,819.0	9,633.4	71.5	78.1	90.66	8,113.0	936.8	880.2	730.8	149.40	5.891	
17,800.0	9,622.6	17,919.0	9,633.6	72.3	78.8	90.66	8,213.0	936.6	880.2	729.2	151.03	5.828	
17,900.0	9,622.8	18,019.0	9,633.8	73.2	79.6	90.66	8,313.0	936.3	880.2	727.5	152.66	5.766	
18,000.0	9,623.0	18,119.0	9,634.1	74.0	80.4	90.66	8,413.0	936.1	880.2	725.9	154.29	5.705	
18,100.0	9,623.2	18,219.0	9,634.3	74.9	81.2	90.66	8,513.0	935.9	880.2	724.2	155.92	5.645	
18,200.0	9,623.4	18,319.0	9,634.5	75.8	82.0	90.66	8,613.0	935.6	880.2	722.6	157.56	5.586	
18,300.0	9,623.6	18,419.0	9,634.7	76.6	82.7	90.66	8,713.0	935.4	880.2	721.0	159.19	5.529	
18,400.0	9,623.8	18,519.0	9,634.9	77.5	83.5	90.66	8,813.0	935.2	880.2	719.3	160.83	5.473	
18,500.0	9,624.0	18,619.0	9,635.1	78.3	84.3	90.66	8,913.0	935.0	880.2	717.7	162.47	5.417	
18,600.0	9,624.2	18,719.0	9,635.3	79.2	85.1	90.66	9,013.0	934.7	880.2	716.0	164.11	5.363	
18,700.0	9,624.5	18,819.0	9,635.5	80.0	85.9	90.66	9,113.0	934.5	880.1	714.4	165.75	5.310	
18,800.0	9,624.7	18,919.0	9,635.7	80.9	86.7	90.65	9,213.0	934.3	880.1	712.7	167.40	5.258	
18,900.0	9,624.9	19,019.0	9,635.9	81.7	87.4	90.65	9,313.0	934.0	880.1	711.1	169.04	5.207	
19,000.0	9,625.1	19,119.0	9,636.1	82.6	88.2	90.65	9,413.0	933.8	880.1	709.4	170.69	5.156	
19,100.0	9,625.3	19,219.0	9,636.4	83.5	89.0	90.65	9,513.0	933.6	880.1	707.8	172.34	5.107	
19,200.0	9,625.5	19,319.0	9,636.6	84.3	89.8	90.65	9,613.0	933.3	880.1	706.1	173.99	5.059	
19,300.0	9,625.7	19,419.0	9,636.8	85.2	90.6	90.65	9,713.0	933.1	880.1	704.5	175.64	5.011	
19,400.0	9,625.9	19,519.0	9,637.0	86.0	91.4	90.65	9,813.0	932.9	880.1	702.8	177.29	4.964	
19,500.0	9,626.1	19,619.0	9,637.2	86.9	92.2	90.65	9,913.0	932.6	880.1	701.2	178.94	4.918	
19,600.0	9,626.4	19,719.0	9,637.4	87.7	93.0	90.65	10,013.0	932.4	880.1	699.5	180.60	4.873	
19,700.0	9,626.6	19,819.0	9,637.6	88.6	93.8	90.65	10,113.0	932.2	880.1	697.9	182.25	4.829	
19,800.0	9,626.8	19,919.0	9,637.8	89.4	94.6	90.65	10,213.0	932.0	880.1	696.2	183.91	4.786	
19,900.0	9,627.0	20,019.0	9,638.0	90.3	95.4	90.65	10,313.0	931.7	880.1	694.5	185.57	4.743	
20,000.0	9,627.2	20,119.0	9,638.2	91.2	96.2	90.65	10,413.0	931.5	880.1	692.9	187.23	4.701	
20,100.0	9,627.4	20,219.0	9,638.4	92.0	97.0	90.65	10,513.0	931.3	880.1	691.2	188.88	4.659	
20,200.0	9,627.6	20,319.0	9,638.7	92.9	97.8	90.65	10,613.0	931.0	880.1	689.5	190.55	4.619	
20,300.0	9,627.8	20,419.0	9,638.9	93.7	98.6	90.65	10,713.0	930.8	880.1	687.9	192.21	4.579	
20,400.0	9,628.0	20,519.0	9,639.1	94.6	99.4	90.65	10,813.0	930.6	880.1	686.2	193.87	4.540	
20,500.0	9,628.2	20,619.0	9,639.3	95.4	100.2	90.65	10,913.0	930.3	880.1	684.6	195.53	4.501	
20,600.0	9,628.5	20,719.0	9,639.5	96.3	101.0	90.65	11,013.0	930.1	880.1	682.9	197.20	4.463	
20,700.0	9,628.7	20,819.0	9,639.7	97.2	101.8	90.65	11,113.0	929.9	880.1	681.2	198.86	4.426	
20,800.0	9,628.9	20,919.0	9,639.9	98.0	102.6	90.65	11,213.0	929.6	880.1	679.5	200.53	4.389	
20,900.0	9,629.1	21,019.0	9,640.1	98.9	103.5	90.65	11,313.0	929.4	880.1	677.9	202.20	4.353	
21,000.0	9,629.3	21,119.0	9,640.3	99.7	104.3	90.65	11,413.0	929.2	880.1	676.2	203.86	4.317	
21,100.0	9,629.5	21,219.0	9,640.5	100.6	105.1	90.65	11,513.0	929.0	880.1	674.5	205.53	4.282	
21,200.0	9,629.7	21,319.0	9,640.7	101.4	105.9	90.65	11,613.0	928.7	880.1	672.9	207.20	4.247	

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 #705H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3112.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	KB=30' @ 3112.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #705H	**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
21,300.0	9,629.9	21,419.0	9,640.9	102.3	106.7	90.65	11,713.0	928.5	880.1	671.2	208.87	4.213	
21,400.0	9,630.1	21,519.0	9,641.2	103.2	107.5	90.65	11,813.0	928.3	880.1	669.5	210.54	4.180	
21,500.0	9,630.4	21,619.0	9,641.4	104.0	108.3	90.65	11,913.0	928.0	880.0	667.8	212.22	4.147	
21,600.0	9,630.6	21,719.0	9,641.6	104.9	109.1	90.65	12,013.0	927.8	880.0	666.2	213.89	4.114	
21,700.0	9,630.8	21,819.0	9,641.8	105.7	110.0	90.65	12,113.0	927.6	880.0	664.5	215.56	4.083	
21,801.3	9,631.0	21,920.3	9,642.0	106.6	110.8	90.65	12,214.3	927.3	880.0	662.8	217.26	4.051	
21,803.8	9,631.0	21,921.2	9,642.0	106.6	110.8	90.65	12,215.2	927.3	880.0	662.7	217.29	4.050	

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #705H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3112.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	KB=30' @ 3112.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

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

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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-90.33	-0.2	-29.9	29.9				
100.0	100.0	100.0	100.0	3.0	3.0	-90.33	-0.2	-29.9	29.9	23.9	6.00	4.981	
200.0	200.0	200.0	200.0	3.0	3.0	-90.33	-0.2	-29.9	29.9	23.9	6.04	4.950	
300.0	300.0	300.0	300.0	3.0	3.1	-90.33	-0.2	-29.9	29.9	23.8	6.12	4.885	
400.0	400.0	400.0	400.0	3.0	3.2	-90.33	-0.2	-29.9	29.9	23.7	6.24	4.791	
500.0	500.0	500.0	500.0	3.1	3.4	-90.33	-0.2	-29.9	29.9	23.5	6.40	4.675	
600.0	600.0	600.0	600.0	3.1	3.6	-90.33	-0.2	-29.9	29.9	23.3	6.58	4.542	
700.0	700.0	700.0	700.0	3.1	3.8	-90.33	-0.2	-29.9	29.9	23.1	6.80	4.398	
800.0	800.0	800.0	800.0	3.2	4.0	-90.33	-0.2	-29.9	29.9	22.9	7.04	4.249	
900.0	900.0	900.0	900.0	3.2	4.2	-90.33	-0.2	-29.9	29.9	22.6	7.29	4.099	
1,000.0	1,000.0	1,000.0	1,000.0	3.2	4.5	-90.33	-0.2	-29.9	29.9	22.3	7.57	3.951	
1,100.0	1,100.0	1,100.0	1,100.0	3.3	4.8	-90.33	-0.2	-29.9	29.9	22.0	7.86	3.806	
1,200.0	1,200.0	1,200.0	1,200.0	3.4	5.1	-90.33	-0.2	-29.9	29.9	21.7	8.16	3.665	
1,300.0	1,300.0	1,300.0	1,300.0	3.4	5.3	-90.33	-0.2	-29.9	29.9	21.4	8.47	3.530	
1,400.0	1,400.0	1,400.0	1,400.0	3.5	5.6	-90.33	-0.2	-29.9	29.9	21.1	8.79	3.402	
1,500.0	1,500.0	1,500.0	1,500.0	3.5	6.0	-90.33	-0.2	-29.9	29.9	20.8	9.12	3.279	
1,600.0	1,600.0	1,600.0	1,600.0	3.6	6.3	-90.33	-0.2	-29.9	29.9	20.4	9.45	3.163	
1,700.0	1,700.0	1,700.0	1,700.0	3.7	6.6	-90.33	-0.2	-29.9	29.9	20.1	9.79	3.053	
1,800.0	1,800.0	1,800.0	1,800.0	3.8	6.9	-90.33	-0.2	-29.9	29.9	19.8	10.14	2.949	
1,900.0	1,900.0	1,900.0	1,900.0	3.9	7.2	-90.33	-0.2	-29.9	29.9	19.4	10.49	2.850	
2,000.0	2,000.0	2,000.0	2,000.0	3.9	7.6	-90.33	-0.2	-29.9	29.9	19.1	10.85	2.756	
2,100.0	2,100.0	2,100.0	2,100.0	4.0	7.9	-90.33	-0.2	-29.9	29.9	18.7	11.21	2.668	
2,200.0	2,200.0	2,200.0	2,200.0	4.1	8.2	-90.33	-0.2	-29.9	29.9	18.3	11.57	2.584	
2,300.0	2,300.0	2,300.0	2,300.0	4.2	8.6	-90.33	-0.2	-29.9	29.9	18.0	11.94	2.505	
2,400.0	2,400.0	2,400.0	2,400.0	4.3	8.9	-90.33	-0.2	-29.9	29.9	17.6	12.31	2.430	
2,500.0	2,500.0	2,500.0	2,500.0	4.4	9.2	-90.33	-0.2	-29.9	29.9	17.2	12.68	2.358	CC, ES, SF
2,600.0	2,600.0	2,599.0	2,599.0	4.5	9.6	-91.63	-0.9	-31.5	31.5	18.4	13.03	2.415	
2,700.0	2,700.0	2,697.8	2,697.6	4.6	9.9	-94.84	-3.1	-36.1	36.3	22.9	13.38	2.713	
2,800.0	2,800.0	2,796.8	2,796.3	4.7	10.2	-98.50	-6.5	-43.5	44.1	30.4	13.74	3.211	
2,900.0	2,900.0	2,896.4	2,895.6	4.8	10.5	-101.20	-10.2	-51.3	52.5	38.4	14.12	3.721	
3,000.0	3,000.0	2,996.0	2,994.8	4.9	10.8	-103.16	-13.8	-59.2	61.0	46.5	14.51	4.207	
3,100.0	3,100.0	3,095.7	3,094.0	5.0	11.2	-104.63	-17.5	-67.1	69.6	54.7	14.89	4.672	
3,200.0	3,200.0	3,195.3	3,193.3	5.1	11.5	-105.78	-21.2	-75.0	78.2	62.9	15.29	5.114	
3,300.0	3,300.0	3,294.9	3,292.5	5.2	11.8	-106.70	-24.8	-82.8	86.8	71.1	15.68	5.535	
3,400.0	3,400.0	3,394.5	3,391.8	5.3	12.2	-107.46	-28.5	-90.7	95.4	79.4	16.07	5.936	
3,500.0	3,500.0	3,494.1	3,491.0	5.4	12.5	-108.09	-32.2	-98.6	104.1	87.6	16.47	6.318	
3,600.0	3,600.0	3,593.8	3,590.2	5.5	12.8	-108.62	-35.9	-106.4	112.7	95.9	16.87	6.682	
3,700.0	3,700.0	3,693.4	3,689.5	5.7	13.2	-109.08	-39.5	-114.3	121.4	104.1	17.27	7.029	
3,800.0	3,800.0	3,793.0	3,788.7	5.8	13.5	-109.47	-43.2	-122.2	130.1	112.4	17.67	7.359	
3,900.0	3,900.0	3,892.6	3,888.0	5.9	13.9	-109.82	-46.9	-130.0	138.7	120.7	18.08	7.674	
4,000.0	4,000.0	3,992.2	3,987.2	6.0	14.2	-110.12	-50.5	-137.9	147.4	128.9	18.48	7.976	
4,100.0	4,100.0	4,091.9	4,086.4	6.1	14.5	-110.40	-54.2	-145.8	156.1	137.2	18.89	8.263	
4,200.0	4,200.0	4,191.5	4,185.7	6.2	14.9	-110.64	-57.9	-153.6	164.8	145.5	19.30	8.538	
4,300.0	4,300.0	4,291.1	4,284.9	6.3	15.2	-110.86	-61.5	-161.5	173.5	153.8	19.71	8.802	
4,400.0	4,400.0	4,390.7	4,384.2	6.5	15.6	-111.06	-65.2	-169.4	182.2	162.1	20.12	9.053	
4,500.0	4,500.0	4,490.3	4,483.4	6.6	15.9	-111.24	-68.9	-177.2	190.9	170.3	20.54	9.295	
4,600.0	4,600.0	4,590.0	4,582.6	6.7	16.3	-111.40	-72.5	-185.1	199.6	178.6	20.95	9.526	
4,700.0	4,700.0	4,689.6	4,681.9	6.8	16.6	-111.55	-76.2	-193.0	208.3	186.9	21.37	9.748	
4,800.0	4,800.0	4,789.2	4,781.1	6.9	17.0	-111.69	-79.9	-200.9	217.0	195.2	21.78	9.961	
4,900.0	4,900.0	4,888.8	4,880.4	7.0	17.3	-111.82	-83.6	-208.7	225.7	203.5	22.20	10.165	
5,000.0	5,000.0	4,988.4	4,979.6	7.2	17.7	-111.94	-87.2	-216.6	234.4	211.8	22.62	10.362	

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 #705H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3112.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	KB=30' @ 3112.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 3.0 usft

Survey Program: 0-MWD+IFR1+FDIR

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,100.0	5,088.1	5,078.8	7.3	18.0	-112.05	-90.9	-224.5	243.1	220.1	23.04	10.551	
5,200.0	5,200.0	5,187.7	5,178.1	7.4	18.4	-112.15	-94.6	-232.3	251.8	228.3	23.46	10.733	
5,300.0	5,300.0	5,287.3	5,277.3	7.5	18.7	-112.24	-98.2	-240.2	260.5	236.6	23.88	10.908	
5,400.0	5,400.0	5,386.9	5,376.6	7.6	19.1	-112.33	-101.9	-248.1	269.2	244.9	24.30	11.076	
5,500.0	5,500.0	5,486.5	5,475.8	7.8	19.4	-112.42	-105.6	-255.9	277.9	253.2	24.73	11.239	
5,600.0	5,600.0	5,586.2	5,575.0	7.8	19.8	83.95	-109.2	-263.8	286.4	261.3	25.13	11.400	
5,692.8	5,692.7	5,678.6	5,667.1	7.8	20.1	84.64	-112.6	-271.1	294.1	268.6	25.46	11.549	
5,700.0	5,699.8	5,685.7	5,674.2	7.8	20.1	84.73	-112.9	-271.7	294.6	269.1	25.49	11.560	
5,800.0	5,799.6	5,785.2	5,773.3	7.7	20.5	85.89	-116.6	-279.5	302.8	276.9	25.85	11.716	
5,900.0	5,899.4	5,884.7	5,872.4	7.7	20.8	86.99	-120.2	-287.4	311.1	284.9	26.21	11.868	
6,000.0	5,999.2	5,984.2	5,971.5	7.6	21.2	88.03	-123.9	-295.2	319.5	292.9	26.58	12.018	
6,100.0	6,098.9	6,083.6	6,070.6	7.6	21.5	89.02	-127.6	-303.1	327.9	301.0	26.96	12.164	
6,200.0	6,198.7	6,183.1	6,169.7	7.6	21.9	89.96	-131.2	-311.0	336.5	309.2	27.34	12.307	
6,300.0	6,298.5	6,282.6	6,268.8	7.5	22.2	90.86	-134.9	-318.8	345.2	317.5	27.73	12.448	
6,400.0	6,398.3	6,382.1	6,367.9	7.5	22.6	91.70	-138.6	-326.7	353.9	325.8	28.12	12.585	
6,500.0	6,498.0	6,481.6	6,467.0	7.5	23.0	92.51	-142.2	-334.5	362.8	334.2	28.52	12.719	
6,600.0	6,597.8	6,581.0	6,566.2	7.4	23.3	93.28	-145.9	-342.4	371.6	342.7	28.92	12.850	
6,700.0	6,697.6	6,680.5	6,665.3	7.4	23.7	94.02	-149.6	-350.3	380.6	351.3	29.32	12.979	
6,800.0	6,797.3	6,780.0	6,764.4	7.4	24.0	94.72	-153.2	-358.1	389.6	359.9	29.73	13.105	
6,900.0	6,897.1	6,879.5	6,863.5	7.4	24.4	95.38	-156.9	-366.0	398.7	368.5	30.14	13.228	
7,000.0	6,996.9	6,979.0	6,962.6	7.4	24.7	96.02	-160.5	-373.8	407.8	377.2	30.55	13.349	
7,100.0	7,096.7	7,078.5	7,061.7	7.4	25.1	96.63	-164.2	-381.7	416.9	386.0	30.96	13.467	
7,200.0	7,196.4	7,177.9	7,160.8	7.3	25.5	97.22	-167.9	-389.5	426.2	394.8	31.38	13.582	
7,300.0	7,296.2	7,277.4	7,259.9	7.3	25.8	97.78	-171.5	-397.4	435.4	403.6	31.79	13.695	
7,400.0	7,396.0	7,376.9	7,359.0	7.3	26.2	98.31	-175.2	-405.3	444.7	412.5	32.21	13.806	
7,500.0	7,495.8	7,476.4	7,458.1	7.3	26.5	98.83	-178.9	-413.1	454.0	421.4	32.63	13.914	
7,600.0	7,595.5	7,575.9	7,557.2	7.3	26.9	99.32	-182.5	-421.0	463.4	430.3	33.05	14.020	
7,700.0	7,695.3	7,675.4	7,656.3	7.3	27.2	99.79	-186.2	-428.8	472.8	439.3	33.47	14.124	
7,800.0	7,795.1	7,774.8	7,755.4	7.3	27.6	100.25	-189.9	-436.7	482.2	448.3	33.90	14.225	
7,900.0	7,894.9	7,874.3	7,854.5	7.3	28.0	100.69	-193.5	-444.6	491.7	457.3	34.32	14.325	
8,000.0	7,994.6	7,973.8	7,953.6	7.3	28.3	101.11	-197.2	-452.4	501.1	466.4	34.75	14.422	
8,100.0	8,094.4	8,073.3	8,052.7	7.3	28.7	101.51	-200.9	-460.3	510.7	475.5	35.18	14.517	
8,200.0	8,194.2	8,172.8	8,151.8	7.3	29.0	101.91	-204.5	-468.1	520.2	484.6	35.60	14.610	
8,300.0	8,294.0	8,272.3	8,250.9	7.4	29.4	102.28	-208.2	-476.0	529.7	493.7	36.03	14.701	
8,400.0	8,393.7	8,371.7	8,350.0	7.4	29.7	102.65	-211.8	-483.8	539.3	502.9	36.46	14.791	
8,500.0	8,493.5	8,471.2	8,449.1	7.4	30.1	103.00	-215.5	-491.7	548.9	512.0	36.90	14.878	
8,600.0	8,593.3	8,570.7	8,548.2	7.4	30.5	103.34	-219.2	-499.6	558.5	521.2	37.33	14.963	
8,700.0	8,693.0	8,670.2	8,647.3	7.4	30.8	103.66	-222.8	-507.4	568.2	530.4	37.76	15.047	
8,800.0	8,792.8	8,769.7	8,746.4	7.5	31.2	103.98	-226.5	-515.3	577.8	539.6	38.19	15.129	
8,900.0	8,892.6	8,869.2	8,845.6	7.5	31.5	104.29	-230.2	-523.1	587.5	548.9	38.63	15.209	
9,003.7	8,996.1	8,972.4	8,948.4	7.6	31.9	104.59	-234.0	-531.3	597.6	558.5	39.08	15.292	
9,050.0	9,042.3	9,018.4	8,994.2	7.6	32.1	-140.53	-235.7	-534.9	602.1	562.8	39.25	15.339	
9,100.0	9,092.2	9,062.8	9,038.5	7.6	32.2	-101.29	-236.9	-538.5	607.2	567.8	39.45	15.393	
9,150.0	9,141.6	9,100.0	9,075.5	7.6	32.4	-96.43	-235.6	-542.1	613.1	573.5	39.65	15.465	
9,200.0	9,190.3	9,143.9	9,118.8	7.6	32.5	-94.52	-231.1	-547.1	619.8	580.0	39.84	15.557	
9,250.0	9,237.7	9,184.6	9,158.5	7.7	32.7	-93.40	-224.1	-552.3	627.3	587.3	40.04	15.666	
9,300.0	9,283.5	9,225.4	9,197.7	7.7	32.8	-92.61	-214.3	-558.2	635.6	595.3	40.24	15.794	
9,350.0	9,327.5	9,266.4	9,236.2	7.8	32.9	-91.99	-201.7	-564.8	644.5	604.1	40.44	15.937	
9,400.0	9,369.2	9,307.7	9,273.8	7.8	33.1	-91.45	-186.3	-571.9	654.1	613.5	40.64	16.096	
9,450.0	9,408.3	9,350.0	9,311.1	7.9	33.2	-90.99	-167.9	-579.8	664.3	623.5	40.83	16.268	
9,500.0	9,444.6	9,391.1	9,345.7	7.9	33.3	-90.54	-147.4	-587.9	675.0	634.0	41.03	16.451	

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 #705H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3112.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	KB=30' @ 3112.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 3.0 usft

Survey Program: 0-MWD+IFR1+FDIR

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,550.0	9,477.8	9,433.4	9,379.7	8.0	33.4	-90.12	-123.8	-596.8	686.3	645.0	41.23	16.645	
9,600.0	9,507.6	9,476.1	9,412.1	8.1	33.5	-89.72	-97.5	-606.2	697.9	656.5	41.43	16.847	
9,650.0	9,533.8	9,519.5	9,442.7	8.2	33.6	-89.34	-68.5	-616.1	710.0	668.4	41.63	17.055	
9,700.0	9,556.1	9,563.5	9,471.3	8.2	33.7	-88.97	-36.8	-626.5	722.3	680.5	41.83	17.267	
9,750.0	9,574.5	9,608.2	9,497.7	8.3	33.8	-88.63	-2.3	-637.4	734.8	692.8	42.04	17.479	
9,800.0	9,588.8	9,653.9	9,521.7	8.4	33.8	-88.30	34.8	-648.7	747.5	705.3	42.26	17.691	
9,850.0	9,598.8	9,700.5	9,543.0	8.5	33.9	-88.01	74.6	-660.5	760.3	717.8	42.48	17.899	
9,900.0	9,604.5	9,748.3	9,561.2	8.6	34.0	-87.74	117.0	-672.6	773.0	730.3	42.70	18.101	
9,939.6	9,606.0	9,787.0	9,573.2	8.8	34.1	-87.55	152.4	-682.5	783.0	740.1	42.89	18.256	
10,000.0	9,606.1	9,848.5	9,587.2	9.0	34.1	-88.63	210.3	-698.1	798.1	754.9	43.19	18.479	
10,100.0	9,606.3	9,957.4	9,596.0	9.5	34.3	-89.29	315.3	-724.9	822.5	778.8	43.77	18.791	
10,200.0	9,606.5	10,095.2	9,596.3	10.0	34.4	-89.32	449.9	-754.5	843.8	799.3	44.48	18.969	
10,300.0	9,606.7	10,235.6	9,596.6	10.6	34.7	-89.34	588.3	-777.9	860.2	815.0	45.28	18.998	
10,400.0	9,606.9	10,378.0	9,596.9	11.2	34.9	-89.35	729.7	-794.7	871.8	825.7	46.15	18.892	
10,500.0	9,607.2	10,521.7	9,597.2	11.9	35.2	-89.36	873.0	-804.5	878.4	831.3	47.07	18.662	
10,600.0	9,607.4	10,657.7	9,597.5	12.6	35.5	-89.36	1,009.0	-807.2	880.1	832.1	48.02	18.328	
10,700.0	9,607.6	10,757.7	9,597.7	13.3	35.8	-89.36	1,109.0	-807.5	880.1	831.1	48.96	17.975	
10,800.0	9,607.8	10,857.7	9,597.9	14.0	36.0	-89.36	1,209.0	-807.7	880.1	830.1	49.94	17.622	
10,900.0	9,608.0	10,957.7	9,598.1	14.7	36.3	-89.36	1,309.0	-807.9	880.1	829.1	50.96	17.272	
11,000.0	9,608.2	11,057.7	9,598.3	15.4	36.6	-89.36	1,409.0	-808.1	880.1	828.1	52.00	16.925	
11,100.0	9,608.4	11,157.7	9,598.5	16.2	36.9	-89.36	1,509.0	-808.4	880.1	827.0	53.07	16.583	
11,200.0	9,608.6	11,257.7	9,598.8	17.0	37.3	-89.36	1,609.0	-808.6	880.1	825.9	54.17	16.246	
11,300.0	9,608.8	11,357.7	9,599.0	17.7	37.6	-89.36	1,709.0	-808.8	880.1	824.8	55.30	15.915	
11,400.0	9,609.0	11,457.7	9,599.2	18.5	38.0	-89.36	1,809.0	-809.0	880.1	823.6	56.45	15.591	
11,500.0	9,609.3	11,557.7	9,599.4	19.3	38.4	-89.36	1,909.0	-809.3	880.1	822.5	57.62	15.274	
11,600.0	9,609.5	11,657.7	9,599.6	20.1	38.8	-89.36	2,009.0	-809.5	880.1	821.3	58.81	14.965	
11,700.0	9,609.7	11,757.7	9,599.8	20.9	39.2	-89.36	2,109.0	-809.7	880.1	820.1	60.02	14.662	
11,800.0	9,609.9	11,857.7	9,600.0	21.7	39.6	-89.36	2,209.0	-809.9	880.1	818.8	61.25	14.368	
11,900.0	9,610.1	11,957.7	9,600.2	22.5	40.0	-89.36	2,309.0	-810.2	880.1	817.6	62.50	14.081	
12,000.0	9,610.3	12,057.7	9,600.4	23.3	40.5	-89.36	2,409.0	-810.4	880.1	816.3	63.77	13.801	
12,100.0	9,610.5	12,157.7	9,600.6	24.2	40.9	-89.36	2,509.0	-810.6	880.1	815.0	65.05	13.529	
12,200.0	9,610.7	12,257.7	9,600.9	25.0	41.4	-89.36	2,609.0	-810.9	880.1	813.7	66.35	13.264	
12,300.0	9,610.9	12,357.7	9,601.1	25.8	41.9	-89.36	2,709.0	-811.1	880.1	812.4	67.66	13.007	
12,400.0	9,611.2	12,457.7	9,601.3	26.6	42.4	-89.36	2,809.0	-811.3	880.1	811.1	68.99	12.757	
12,500.0	9,611.4	12,557.7	9,601.5	27.4	42.9	-89.36	2,909.0	-811.5	880.1	809.7	70.33	12.513	
12,600.0	9,611.6	12,657.7	9,601.7	28.3	43.5	-89.36	3,009.0	-811.8	880.1	808.4	71.68	12.277	
12,700.0	9,611.8	12,757.7	9,601.9	29.1	44.0	-89.36	3,109.0	-812.0	880.1	807.0	73.05	12.048	
12,800.0	9,612.0	12,857.7	9,602.1	29.9	44.5	-89.36	3,209.0	-812.2	880.1	805.7	74.43	11.825	
12,900.0	9,612.2	12,957.7	9,602.3	30.8	45.1	-89.36	3,309.0	-812.4	880.1	804.3	75.82	11.608	
13,000.0	9,612.4	13,057.7	9,602.5	31.6	45.7	-89.36	3,409.0	-812.7	880.1	802.9	77.22	11.398	
13,100.0	9,612.6	13,157.7	9,602.7	32.4	46.2	-89.36	3,509.0	-812.9	880.1	801.5	78.63	11.193	
13,200.0	9,612.8	13,257.7	9,602.9	33.3	46.8	-89.36	3,609.0	-813.1	880.1	800.0	80.05	10.995	
13,300.0	9,613.1	13,357.7	9,603.2	34.1	47.4	-89.36	3,709.0	-813.3	880.1	798.6	81.48	10.802	
13,400.0	9,613.3	13,457.7	9,603.4	34.9	48.0	-89.36	3,809.0	-813.6	880.1	797.2	82.92	10.614	
13,500.0	9,613.5	13,557.7	9,603.6	35.8	48.6	-89.36	3,909.0	-813.8	880.1	795.7	84.36	10.432	
13,600.0	9,613.7	13,657.7	9,603.8	36.6	49.2	-89.36	4,009.0	-814.0	880.1	794.3	85.82	10.255	
13,700.0	9,613.9	13,757.7	9,604.0	37.5	49.8	-89.36	4,109.0	-814.3	880.1	792.8	87.28	10.083	
13,800.0	9,614.1	13,857.7	9,604.2	38.3	50.5	-89.36	4,209.0	-814.5	880.1	791.3	88.75	9.916	
13,900.0	9,614.3	13,957.7	9,604.4	39.2	51.1	-89.36	4,309.0	-814.7	880.1	789.8	90.23	9.753	
14,000.0	9,614.5	14,057.7	9,604.6	40.0	51.7	-89.35	4,409.0	-814.9	880.1	788.4	91.72	9.595	
14,100.0	9,614.7	14,157.7	9,604.8	40.8	52.4	-89.35	4,509.0	-815.2	880.1	786.9	93.21	9.442	

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 #705H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3112.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	KB=30' @ 3112.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 3.0 usft

Survey Program: 0-MWD+IFR1+FDIR

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.0	9,615.0	14,257.7	9,605.0	41.7	53.0	-89.35	4,609.0	-815.4	880.1	785.4	94.71	9.292	
14,300.0	9,615.2	14,357.7	9,605.3	42.5	53.7	-89.35	4,709.0	-815.6	880.1	783.9	96.22	9.147	
14,400.0	9,615.4	14,457.7	9,605.5	43.4	54.4	-89.35	4,809.0	-815.8	880.1	782.3	97.73	9.005	
14,500.0	9,615.6	14,557.7	9,605.7	44.2	55.0	-89.35	4,909.0	-816.1	880.1	780.8	99.25	8.867	
14,600.0	9,615.8	14,657.7	9,605.9	45.1	55.7	-89.35	5,009.0	-816.3	880.1	779.3	100.77	8.733	
14,700.0	9,616.0	14,757.7	9,606.1	45.9	56.4	-89.35	5,109.0	-816.5	880.1	777.8	102.30	8.603	
14,800.0	9,616.2	14,857.7	9,606.3	46.8	57.1	-89.35	5,209.0	-816.7	880.1	776.2	103.84	8.476	
14,900.0	9,616.4	14,957.7	9,606.5	47.6	57.8	-89.35	5,309.0	-817.0	880.1	774.7	105.38	8.352	
15,000.0	9,616.6	15,057.7	9,606.7	48.5	58.5	-89.35	5,409.0	-817.2	880.1	773.1	106.92	8.231	
15,100.0	9,616.9	15,157.7	9,606.9	49.3	59.2	-89.35	5,509.0	-817.4	880.1	771.6	108.47	8.114	
15,200.0	9,617.1	15,257.7	9,607.1	50.2	59.9	-89.35	5,609.0	-817.7	880.1	770.0	110.02	7.999	
15,300.0	9,617.3	15,357.7	9,607.4	51.0	60.6	-89.35	5,709.0	-817.9	880.1	768.5	111.58	7.887	
15,400.0	9,617.5	15,457.7	9,607.6	51.9	61.3	-89.35	5,809.0	-818.1	880.1	766.9	113.14	7.778	
15,500.0	9,617.7	15,557.7	9,607.8	52.7	62.0	-89.35	5,909.0	-818.3	880.1	765.4	114.71	7.672	
15,600.0	9,617.9	15,657.7	9,608.0	53.6	62.7	-89.35	6,009.0	-818.6	880.1	763.8	116.28	7.569	
15,700.0	9,618.1	15,757.7	9,608.2	54.4	63.4	-89.35	6,109.0	-818.8	880.1	762.2	117.85	7.468	
15,800.0	9,618.3	15,857.7	9,608.4	55.3	64.2	-89.35	6,209.0	-819.0	880.1	760.6	119.43	7.369	
15,900.0	9,618.5	15,957.7	9,608.6	56.1	64.9	-89.35	6,309.0	-819.2	880.1	759.1	121.01	7.273	
16,000.0	9,618.8	16,057.7	9,608.8	57.0	65.6	-89.35	6,409.0	-819.5	880.1	757.5	122.59	7.179	
16,100.0	9,619.0	16,157.7	9,609.0	57.8	66.4	-89.35	6,509.0	-819.7	880.1	755.9	124.18	7.087	
16,200.0	9,619.2	16,257.7	9,609.2	58.7	67.1	-89.35	6,609.0	-819.9	880.1	754.3	125.77	6.997	
16,300.0	9,619.4	16,357.7	9,609.5	59.5	67.8	-89.35	6,709.0	-820.1	880.1	752.7	127.37	6.910	
16,400.0	9,619.6	16,457.7	9,609.7	60.4	68.6	-89.35	6,809.0	-820.4	880.1	751.1	128.96	6.824	
16,500.0	9,619.8	16,557.7	9,609.9	61.2	69.3	-89.35	6,909.0	-820.6	880.1	749.5	130.56	6.741	
16,600.0	9,620.0	16,657.7	9,610.1	62.1	70.1	-89.35	7,009.0	-820.8	880.1	747.9	132.16	6.659	
16,700.0	9,620.2	16,757.7	9,610.3	62.9	70.8	-89.35	7,109.0	-821.1	880.1	746.3	133.77	6.579	
16,800.0	9,620.4	16,857.7	9,610.5	63.8	71.6	-89.35	7,209.0	-821.3	880.1	744.7	135.38	6.501	
16,900.0	9,620.7	16,957.7	9,610.7	64.6	72.3	-89.35	7,309.0	-821.5	880.1	743.1	136.99	6.424	
17,000.0	9,620.9	17,057.7	9,610.9	65.5	73.1	-89.35	7,409.0	-821.7	880.1	741.5	138.60	6.350	
17,100.0	9,621.1	17,157.7	9,611.1	66.4	73.9	-89.35	7,509.0	-822.0	880.1	739.8	140.21	6.277	
17,200.0	9,621.3	17,257.7	9,611.3	67.2	74.6	-89.35	7,609.0	-822.2	880.1	738.2	141.83	6.205	
17,300.0	9,621.5	17,357.7	9,611.5	68.1	75.4	-89.35	7,709.0	-822.4	880.1	736.6	143.45	6.135	
17,400.0	9,621.7	17,457.7	9,611.8	68.9	76.2	-89.35	7,809.0	-822.6	880.1	735.0	145.07	6.066	
17,500.0	9,621.9	17,557.7	9,612.0	69.8	76.9	-89.35	7,909.0	-822.9	880.1	733.4	146.70	5.999	
17,600.0	9,622.1	17,657.7	9,612.2	70.6	77.7	-89.35	8,009.0	-823.1	880.1	731.7	148.32	5.933	
17,700.0	9,622.3	17,757.7	9,612.4	71.5	78.5	-89.35	8,109.0	-823.3	880.1	730.1	149.95	5.869	
17,800.0	9,622.6	17,857.7	9,612.6	72.3	79.2	-89.35	8,209.0	-823.5	880.1	728.5	151.58	5.806	
17,900.0	9,622.8	17,957.7	9,612.8	73.2	80.0	-89.35	8,309.0	-823.8	880.1	726.8	153.21	5.744	
18,000.0	9,623.0	18,057.7	9,613.0	74.0	80.8	-89.35	8,409.0	-824.0	880.1	725.2	154.84	5.684	
18,100.0	9,623.2	18,157.7	9,613.2	74.9	81.6	-89.35	8,509.0	-824.2	880.1	723.6	156.48	5.624	
18,200.0	9,623.4	18,257.7	9,613.4	75.8	82.4	-89.35	8,609.0	-824.5	880.1	721.9	158.11	5.566	
18,300.0	9,623.6	18,357.7	9,613.6	76.6	83.1	-89.35	8,709.0	-824.7	880.1	720.3	159.75	5.509	
18,400.0	9,623.8	18,457.7	9,613.9	77.5	83.9	-89.35	8,809.0	-824.9	880.1	718.7	161.39	5.453	
18,500.0	9,624.0	18,557.7	9,614.1	78.3	84.7	-89.35	8,909.0	-825.1	880.1	717.0	163.03	5.398	
18,600.0	9,624.2	18,657.7	9,614.3	79.2	85.5	-89.35	9,009.0	-825.4	880.1	715.4	164.67	5.344	
18,700.0	9,624.5	18,757.7	9,614.5	80.0	86.3	-89.35	9,109.0	-825.6	880.1	713.7	166.32	5.291	
18,800.0	9,624.7	18,857.7	9,614.7	80.9	87.1	-89.35	9,209.0	-825.8	880.1	712.1	167.96	5.240	
18,900.0	9,624.9	18,957.7	9,614.9	81.7	87.9	-89.35	9,309.0	-826.0	880.0	710.4	169.61	5.189	
19,000.0	9,625.1	19,057.7	9,615.1	82.6	88.7	-89.35	9,409.0	-826.3	880.0	708.8	171.26	5.139	
19,100.0	9,625.3	19,157.7	9,615.3	83.5	89.4	-89.35	9,509.0	-826.5	880.0	707.1	172.91	5.090	
19,200.0	9,625.5	19,257.7	9,615.5	84.3	90.2	-89.35	9,609.0	-826.7	880.0	705.5	174.56	5.042	

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 #705H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3112.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	KB=30' @ 3112.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #705H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP2	**Offset TVD Reference:**	Offset Datum

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

Offset Site Error: 3.0 usft

Survey Program: 0-MWD+IFR1+FDIR

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,300.0	9,625.7	19,357.7	9,615.7	85.2	91.0	-89.35	9,709.0	-827.0	880.0	703.8	176.21	4.994	
19,400.0	9,625.9	19,457.7	9,616.0	86.0	91.8	-89.35	9,809.0	-827.2	880.0	702.2	177.87	4.948	
19,500.0	9,626.1	19,557.7	9,616.2	86.9	92.6	-89.35	9,909.0	-827.4	880.0	700.5	179.52	4.902	
19,600.0	9,626.4	19,657.7	9,616.4	87.7	93.4	-89.35	10,009.0	-827.6	880.0	698.9	181.18	4.857	
19,700.0	9,626.6	19,757.7	9,616.6	88.6	94.2	-89.35	10,109.0	-827.9	880.0	697.2	182.83	4.813	
19,800.0	9,626.8	19,857.7	9,616.8	89.4	95.0	-89.35	10,209.0	-828.1	880.0	695.6	184.49	4.770	
19,900.0	9,627.0	19,957.7	9,617.0	90.3	95.8	-89.35	10,309.0	-828.3	880.0	693.9	186.15	4.728	
20,000.0	9,627.2	20,057.7	9,617.2	91.2	96.6	-89.35	10,409.0	-828.5	880.0	692.2	187.81	4.686	
20,100.0	9,627.4	20,157.7	9,617.4	92.0	97.4	-89.35	10,509.0	-828.8	880.0	690.6	189.47	4.645	
20,200.0	9,627.6	20,257.7	9,617.6	92.9	98.2	-89.35	10,609.0	-829.0	880.0	688.9	191.13	4.604	
20,300.0	9,627.8	20,357.7	9,617.8	93.7	99.1	-89.35	10,709.0	-829.2	880.0	687.2	192.79	4.565	
20,400.0	9,628.0	20,457.7	9,618.1	94.6	99.9	-89.35	10,809.0	-829.4	880.0	685.6	194.46	4.526	
20,500.0	9,628.2	20,557.7	9,618.3	95.4	100.7	-89.35	10,909.0	-829.7	880.0	683.9	196.12	4.487	
20,600.0	9,628.5	20,657.7	9,618.5	96.3	101.5	-89.35	11,009.0	-829.9	880.0	682.3	197.79	4.449	
20,700.0	9,628.7	20,757.7	9,618.7	97.2	102.3	-89.35	11,109.0	-830.1	880.0	680.6	199.45	4.412	
20,800.0	9,628.9	20,857.7	9,618.9	98.0	103.1	-89.35	11,209.0	-830.4	880.0	678.9	201.12	4.376	
20,900.0	9,629.1	20,957.7	9,619.1	98.9	103.9	-89.35	11,309.0	-830.6	880.0	677.3	202.79	4.340	
21,000.0	9,629.3	21,057.7	9,619.3	99.7	104.7	-89.35	11,409.0	-830.8	880.0	675.6	204.46	4.304	
21,100.0	9,629.5	21,157.7	9,619.5	100.6	105.5	-89.35	11,509.0	-831.0	880.0	673.9	206.13	4.269	
21,200.0	9,629.7	21,257.7	9,619.7	101.4	106.3	-89.35	11,609.0	-831.3	880.0	672.2	207.80	4.235	
21,300.0	9,629.9	21,357.7	9,619.9	102.3	107.2	-89.35	11,709.0	-831.5	880.0	670.6	209.47	4.201	
21,400.0	9,630.1	21,457.7	9,620.1	103.2	108.0	-89.35	11,809.0	-831.7	880.0	668.9	211.14	4.168	
21,500.0	9,630.4	21,557.7	9,620.4	104.0	108.8	-89.35	11,909.0	-831.9	880.0	667.2	212.82	4.135	
21,600.0	9,630.6	21,657.7	9,620.6	104.9	109.6	-89.35	12,009.0	-832.2	880.0	665.5	214.49	4.103	
21,700.0	9,630.8	21,757.7	9,620.8	105.7	110.4	-89.35	12,109.0	-832.4	880.0	663.9	216.16	4.071	
21,803.8	9,631.0	21,861.5	9,621.0	106.6	111.3	-89.35	12,212.8	-832.6	880.0	662.1	217.90	4.039	

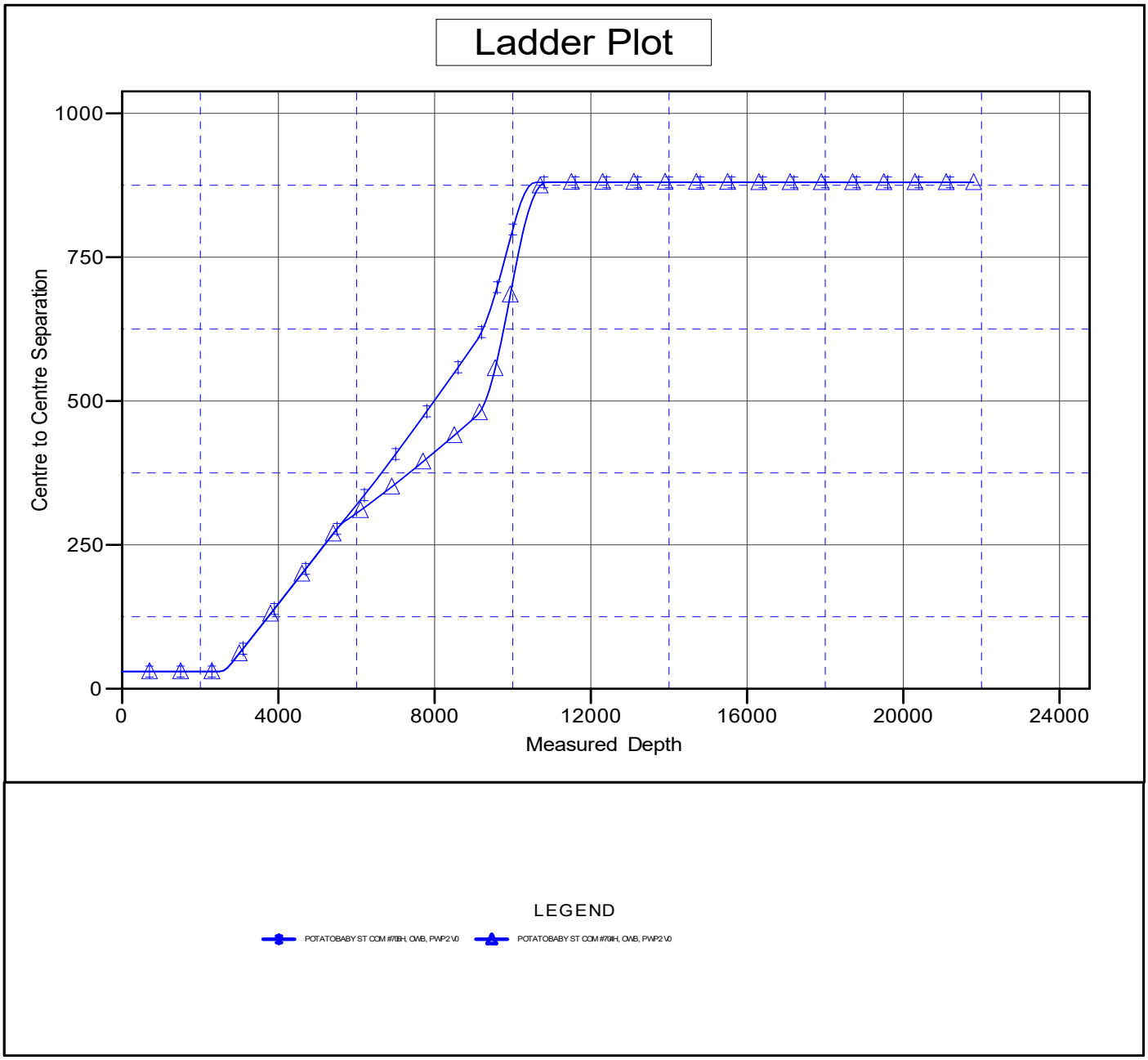
Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #705H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3112.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	KB=30' @ 3112.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #705H	**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' @ 3112.0usft (TBD)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: POTATO BABY ST COM #705H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.14°



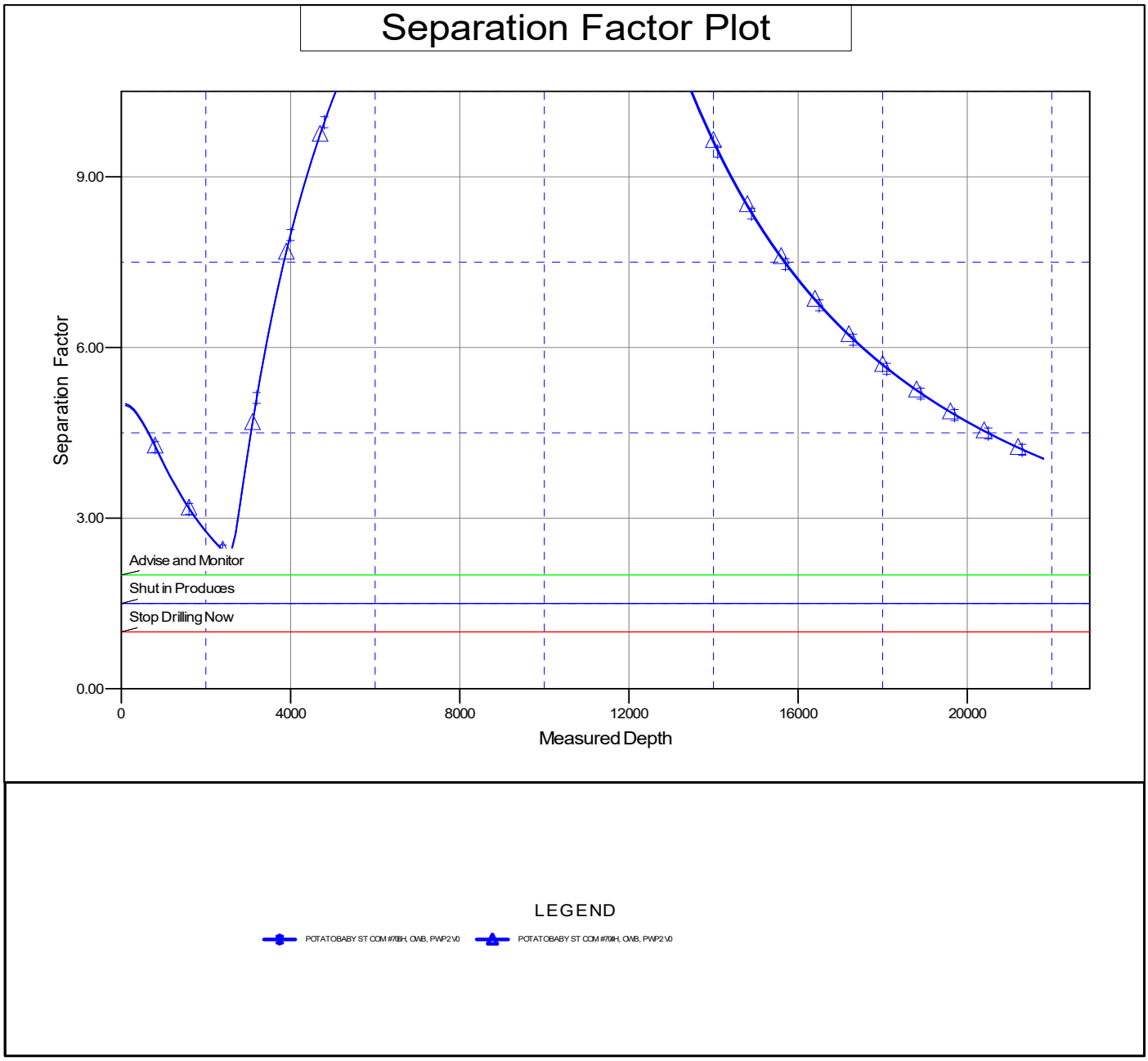
Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #705H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3112.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	KB=30' @ 3112.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #705H	**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' @ 3112.0usft (TBD)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: POTATO BABY ST COM #705H
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 #705H

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 #705H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3112.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	KB=30' @ 3112.0usft (TBD)
Well:	POTATO BABY ST COM #705H	**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 #705H				
Well Position	**+N/-S**	0.0 usft	**Northing:**	364,151.37 usft	**Latitude:**	32° 0' 3.275 N
	+E/-W	0.0 usft	**Easting:**	578,998.20 usft	**Longitude:**	104° 4' 42.578 W
Position Uncertainty		3.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,082.0 usft

Wellbore OWB

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2020	7/21/2020	6.87	59.65	47,404.74512087

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	0.22

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

From (usft)	**To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
0.0	9,003.7	PWP2 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
9,003.7	21,803.8	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 #705H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3112.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	KB=30' @ 3112.0usft (TBD)
Well:	POTATO BABY ST COM #705H	**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
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start DLS 2.00 TFO 163.73									
5,600.0	2.00	163.73	5,600.0	-1.7	0.5	-1.7	2.00	2.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #705H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3112.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	KB=30' @ 3112.0usft (TBD)
Well:	POTATO BABY ST COM #705H	**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)
5,692.8	3.86	163.73	5,692.7	-6.2	1.8	-6.2	2.00	2.00	0.00
Start 3310.9 hold at 5692.8 MD									
5,700.0	3.86	163.73	5,699.8	-6.7	2.0	-6.7	0.00	0.00	0.00
5,800.0	3.86	163.73	5,799.6	-13.1	3.8	-13.1	0.00	0.00	0.00
5,900.0	3.86	163.73	5,899.4	-19.6	5.7	-19.6	0.00	0.00	0.00
6,000.0	3.86	163.73	5,999.2	-26.1	7.6	-26.0	0.00	0.00	0.00
6,100.0	3.86	163.73	6,098.9	-32.5	9.5	-32.5	0.00	0.00	0.00
6,200.0	3.86	163.73	6,198.7	-39.0	11.4	-38.9	0.00	0.00	0.00
6,300.0	3.86	163.73	6,298.5	-45.4	13.3	-45.4	0.00	0.00	0.00
6,400.0	3.86	163.73	6,398.3	-51.9	15.1	-51.8	0.00	0.00	0.00
6,500.0	3.86	163.73	6,498.0	-58.3	17.0	-58.3	0.00	0.00	0.00
6,600.0	3.86	163.73	6,597.8	-64.8	18.9	-64.7	0.00	0.00	0.00
6,700.0	3.86	163.73	6,697.6	-71.3	20.8	-71.2	0.00	0.00	0.00
6,800.0	3.86	163.73	6,797.3	-77.7	22.7	-77.6	0.00	0.00	0.00
6,900.0	3.86	163.73	6,897.1	-84.2	24.6	-84.1	0.00	0.00	0.00
7,000.0	3.86	163.73	6,996.9	-90.6	26.4	-90.5	0.00	0.00	0.00
7,100.0	3.86	163.73	7,096.7	-97.1	28.3	-97.0	0.00	0.00	0.00
7,200.0	3.86	163.73	7,196.4	-103.5	30.2	-103.4	0.00	0.00	0.00
7,300.0	3.86	163.73	7,296.2	-110.0	32.1	-109.9	0.00	0.00	0.00
7,400.0	3.86	163.73	7,396.0	-116.5	34.0	-116.3	0.00	0.00	0.00
7,500.0	3.86	163.73	7,495.8	-122.9	35.9	-122.8	0.00	0.00	0.00
7,600.0	3.86	163.73	7,595.5	-129.4	37.8	-129.2	0.00	0.00	0.00
7,700.0	3.86	163.73	7,695.3	-135.8	39.6	-135.7	0.00	0.00	0.00
7,800.0	3.86	163.73	7,795.1	-142.3	41.5	-142.1	0.00	0.00	0.00
7,900.0	3.86	163.73	7,894.9	-148.7	43.4	-148.6	0.00	0.00	0.00
8,000.0	3.86	163.73	7,994.6	-155.2	45.3	-155.0	0.00	0.00	0.00
8,100.0	3.86	163.73	8,094.4	-161.6	47.2	-161.5	0.00	0.00	0.00
8,200.0	3.86	163.73	8,194.2	-168.1	49.1	-167.9	0.00	0.00	0.00
8,300.0	3.86	163.73	8,294.0	-174.6	50.9	-174.4	0.00	0.00	0.00
8,400.0	3.86	163.73	8,393.7	-181.0	52.8	-180.8	0.00	0.00	0.00
8,500.0	3.86	163.73	8,493.5	-187.5	54.7	-187.3	0.00	0.00	0.00
8,600.0	3.86	163.73	8,593.3	-193.9	56.6	-193.7	0.00	0.00	0.00
8,700.0	3.86	163.73	8,693.0	-200.4	58.5	-200.2	0.00	0.00	0.00
8,800.0	3.86	163.73	8,792.8	-206.8	60.4	-206.6	0.00	0.00	0.00
8,900.0	3.86	163.73	8,892.6	-213.3	62.2	-213.1	0.00	0.00	0.00
9,000.0	3.86	163.73	8,992.4	-219.8	64.1	-219.5	0.00	0.00	0.00
9,003.7	3.86	163.73	8,996.1	-220.0	64.2	-219.7	0.00	0.00	0.00
Start DLS 10.00 TFO -163.83									
9,100.0	6.02	10.11	9,092.2	-218.1	66.0	-217.9	10.00	2.24	-159.60
9,200.0	15.96	3.62	9,190.3	-199.2	67.8	-198.9	10.00	9.94	-6.48
9,300.0	25.94	2.07	9,283.5	-163.5	69.5	-163.3	10.00	9.99	-1.55
9,400.0	35.94	1.35	9,369.2	-112.2	70.9	-111.9	10.00	9.99	-0.73
9,500.0	45.93	0.91	9,444.6	-46.8	72.2	-46.5	10.00	10.00	-0.44
9,600.0	55.93	0.59	9,507.6	30.7	73.2	31.0	10.00	10.00	-0.31

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #705H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3112.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	KB=30' @ 3112.0usft (TBD)
Well:	POTATO BABY ST COM #705H	**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)
9,700.0	65.93	0.35	9,556.1	118.0	73.9	118.3	10.00	10.00	-0.25
9,800.0	75.92	0.14	9,588.8	212.4	74.3	212.7	10.00	10.00	-0.21
9,900.0	85.92	359.94	9,604.5	311.0	74.4	311.3	10.00	10.00	-0.19
9,939.6	89.88	359.87	9,606.0	350.6	74.3	350.9	10.00	10.00	-0.19
Start 11864.2 hold at 9939.6 MD									
10,000.0	89.88	359.87	9,606.1	411.0	74.2	411.3	0.00	0.00	0.00
10,100.0	89.88	359.87	9,606.3	511.0	73.9	511.3	0.00	0.00	0.00
10,200.0	89.88	359.87	9,606.5	611.0	73.7	611.3	0.00	0.00	0.00
10,300.0	89.88	359.87	9,606.7	711.0	73.5	711.3	0.00	0.00	0.00
10,400.0	89.88	359.87	9,606.9	811.0	73.3	811.3	0.00	0.00	0.00
10,500.0	89.88	359.87	9,607.2	911.0	73.0	911.3	0.00	0.00	0.00
10,600.0	89.88	359.87	9,607.4	1,011.0	72.8	1,011.3	0.00	0.00	0.00
10,700.0	89.88	359.87	9,607.6	1,111.0	72.6	1,111.3	0.00	0.00	0.00
10,800.0	89.88	359.87	9,607.8	1,211.0	72.4	1,211.3	0.00	0.00	0.00
10,900.0	89.88	359.87	9,608.0	1,311.0	72.1	1,311.3	0.00	0.00	0.00
11,000.0	89.88	359.87	9,608.2	1,411.0	71.9	1,411.3	0.00	0.00	0.00
11,100.0	89.88	359.87	9,608.4	1,511.0	71.7	1,511.3	0.00	0.00	0.00
11,200.0	89.88	359.87	9,608.6	1,611.0	71.4	1,611.3	0.00	0.00	0.00
11,300.0	89.88	359.87	9,608.8	1,711.0	71.2	1,711.3	0.00	0.00	0.00
11,400.0	89.88	359.87	9,609.0	1,811.0	71.0	1,811.3	0.00	0.00	0.00
11,500.0	89.88	359.87	9,609.3	1,911.0	70.8	1,911.3	0.00	0.00	0.00
11,600.0	89.88	359.87	9,609.5	2,011.0	70.5	2,011.2	0.00	0.00	0.00
11,700.0	89.88	359.87	9,609.7	2,111.0	70.3	2,111.2	0.00	0.00	0.00
11,800.0	89.88	359.87	9,609.9	2,211.0	70.1	2,211.2	0.00	0.00	0.00
11,900.0	89.88	359.87	9,610.1	2,311.0	69.9	2,311.2	0.00	0.00	0.00
12,000.0	89.88	359.87	9,610.3	2,411.0	69.6	2,411.2	0.00	0.00	0.00
12,100.0	89.88	359.87	9,610.5	2,511.0	69.4	2,511.2	0.00	0.00	0.00
12,200.0	89.88	359.87	9,610.7	2,611.0	69.2	2,611.2	0.00	0.00	0.00
12,300.0	89.88	359.87	9,610.9	2,711.0	68.9	2,711.2	0.00	0.00	0.00
12,400.0	89.88	359.87	9,611.2	2,811.0	68.7	2,811.2	0.00	0.00	0.00
12,500.0	89.88	359.87	9,611.4	2,911.0	68.5	2,911.2	0.00	0.00	0.00
12,600.0	89.88	359.87	9,611.6	3,011.0	68.3	3,011.2	0.00	0.00	0.00
12,700.0	89.88	359.87	9,611.8	3,111.0	68.0	3,111.2	0.00	0.00	0.00
12,800.0	89.88	359.87	9,612.0	3,211.0	67.8	3,211.2	0.00	0.00	0.00
12,900.0	89.88	359.87	9,612.2	3,311.0	67.6	3,311.2	0.00	0.00	0.00
13,000.0	89.88	359.87	9,612.4	3,411.0	67.4	3,411.2	0.00	0.00	0.00
13,100.0	89.88	359.87	9,612.6	3,511.0	67.1	3,511.2	0.00	0.00	0.00
13,200.0	89.88	359.87	9,612.8	3,611.0	66.9	3,611.2	0.00	0.00	0.00
13,300.0	89.88	359.87	9,613.1	3,711.0	66.7	3,711.2	0.00	0.00	0.00
13,400.0	89.88	359.87	9,613.3	3,811.0	66.4	3,811.2	0.00	0.00	0.00
13,500.0	89.88	359.87	9,613.5	3,911.0	66.2	3,911.2	0.00	0.00	0.00
13,600.0	89.88	359.87	9,613.7	4,011.0	66.0	4,011.2	0.00	0.00	0.00
13,700.0	89.88	359.87	9,613.9	4,111.0	65.8	4,111.2	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #705H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3112.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	KB=30' @ 3112.0usft (TBD)
Well:	POTATO BABY ST COM #705H	**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)
13,800.0	89.88	359.87	9,614.1	4,211.0	65.5	4,211.2	0.00	0.00	0.00
13,900.0	89.88	359.87	9,614.3	4,311.0	65.3	4,311.2	0.00	0.00	0.00
14,000.0	89.88	359.87	9,614.5	4,411.0	65.1	4,411.2	0.00	0.00	0.00
14,100.0	89.88	359.87	9,614.7	4,511.0	64.9	4,511.2	0.00	0.00	0.00
14,200.0	89.88	359.87	9,615.0	4,611.0	64.6	4,611.2	0.00	0.00	0.00
14,300.0	89.88	359.87	9,615.2	4,711.0	64.4	4,711.2	0.00	0.00	0.00
14,400.0	89.88	359.87	9,615.4	4,811.0	64.2	4,811.2	0.00	0.00	0.00
14,500.0	89.88	359.87	9,615.6	4,911.0	63.9	4,911.2	0.00	0.00	0.00
14,600.0	89.88	359.87	9,615.8	5,011.0	63.7	5,011.2	0.00	0.00	0.00
14,700.0	89.88	359.87	9,616.0	5,111.0	63.5	5,111.2	0.00	0.00	0.00
14,800.0	89.88	359.87	9,616.2	5,211.0	63.3	5,211.2	0.00	0.00	0.00
14,900.0	89.88	359.87	9,616.4	5,311.0	63.0	5,311.2	0.00	0.00	0.00
15,000.0	89.88	359.87	9,616.6	5,411.0	62.8	5,411.2	0.00	0.00	0.00
15,100.0	89.88	359.87	9,616.9	5,511.0	62.6	5,511.2	0.00	0.00	0.00
15,200.0	89.88	359.87	9,617.1	5,611.0	62.4	5,611.2	0.00	0.00	0.00
15,300.0	89.88	359.87	9,617.3	5,711.0	62.1	5,711.2	0.00	0.00	0.00
15,400.0	89.88	359.87	9,617.5	5,811.0	61.9	5,811.2	0.00	0.00	0.00
15,500.0	89.88	359.87	9,617.7	5,911.0	61.7	5,911.2	0.00	0.00	0.00
15,600.0	89.88	359.87	9,617.9	6,011.0	61.4	6,011.2	0.00	0.00	0.00
15,700.0	89.88	359.87	9,618.1	6,111.0	61.2	6,111.2	0.00	0.00	0.00
15,800.0	89.88	359.87	9,618.3	6,211.0	61.0	6,211.2	0.00	0.00	0.00
15,900.0	89.88	359.87	9,618.5	6,311.0	60.8	6,311.2	0.00	0.00	0.00
16,000.0	89.88	359.87	9,618.8	6,411.0	60.5	6,411.2	0.00	0.00	0.00
16,100.0	89.88	359.87	9,619.0	6,511.0	60.3	6,511.2	0.00	0.00	0.00
16,200.0	89.88	359.87	9,619.2	6,611.0	60.1	6,611.2	0.00	0.00	0.00
16,300.0	89.88	359.87	9,619.4	6,711.0	59.9	6,711.1	0.00	0.00	0.00
16,400.0	89.88	359.87	9,619.6	6,811.0	59.6	6,811.1	0.00	0.00	0.00
16,500.0	89.88	359.87	9,619.8	6,911.0	59.4	6,911.1	0.00	0.00	0.00
16,600.0	89.88	359.87	9,620.0	7,011.0	59.2	7,011.1	0.00	0.00	0.00
16,700.0	89.88	359.87	9,620.2	7,111.0	58.9	7,111.1	0.00	0.00	0.00
16,800.0	89.88	359.87	9,620.4	7,211.0	58.7	7,211.1	0.00	0.00	0.00
16,900.0	89.88	359.87	9,620.7	7,311.0	58.5	7,311.1	0.00	0.00	0.00
17,000.0	89.88	359.87	9,620.9	7,411.0	58.3	7,411.1	0.00	0.00	0.00
17,100.0	89.88	359.87	9,621.1	7,511.0	58.0	7,511.1	0.00	0.00	0.00
17,200.0	89.88	359.87	9,621.3	7,611.0	57.8	7,611.1	0.00	0.00	0.00
17,300.0	89.88	359.87	9,621.5	7,711.0	57.6	7,711.1	0.00	0.00	0.00
17,400.0	89.88	359.87	9,621.7	7,811.0	57.4	7,811.1	0.00	0.00	0.00
17,500.0	89.88	359.87	9,621.9	7,911.0	57.1	7,911.1	0.00	0.00	0.00
17,600.0	89.88	359.87	9,622.1	8,011.0	56.9	8,011.1	0.00	0.00	0.00
17,700.0	89.88	359.87	9,622.3	8,111.0	56.7	8,111.1	0.00	0.00	0.00
17,800.0	89.88	359.87	9,622.6	8,211.0	56.4	8,211.1	0.00	0.00	0.00
17,900.0	89.88	359.87	9,622.8	8,311.0	56.2	8,311.1	0.00	0.00	0.00
18,000.0	89.88	359.87	9,623.0	8,411.0	56.0	8,411.1	0.00	0.00	0.00
18,100.0	89.88	359.87	9,623.2	8,511.0	55.8	8,511.1	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #705H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3112.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	KB=30' @ 3112.0usft (TBD)
Well:	POTATO BABY ST COM #705H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP2	**Database:**	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,200.0	89.88	359.87	9,623.4	8,611.0	55.5	8,611.1	0.00	0.00	0.00
18,300.0	89.88	359.87	9,623.6	8,711.0	55.3	8,711.1	0.00	0.00	0.00
18,400.0	89.88	359.87	9,623.8	8,811.0	55.1	8,811.1	0.00	0.00	0.00
18,500.0	89.88	359.87	9,624.0	8,911.0	54.9	8,911.1	0.00	0.00	0.00
18,600.0	89.88	359.87	9,624.2	9,011.0	54.6	9,011.1	0.00	0.00	0.00
18,700.0	89.88	359.87	9,624.5	9,111.0	54.4	9,111.1	0.00	0.00	0.00
18,800.0	89.88	359.87	9,624.7	9,211.0	54.2	9,211.1	0.00	0.00	0.00
18,900.0	89.88	359.87	9,624.9	9,311.0	53.9	9,311.1	0.00	0.00	0.00
19,000.0	89.88	359.87	9,625.1	9,411.0	53.7	9,411.1	0.00	0.00	0.00
19,100.0	89.88	359.87	9,625.3	9,511.0	53.5	9,511.1	0.00	0.00	0.00
19,200.0	89.88	359.87	9,625.5	9,611.0	53.3	9,611.1	0.00	0.00	0.00
19,300.0	89.88	359.87	9,625.7	9,711.0	53.0	9,711.1	0.00	0.00	0.00
19,400.0	89.88	359.87	9,625.9	9,811.0	52.8	9,811.1	0.00	0.00	0.00
19,500.0	89.88	359.87	9,626.1	9,911.0	52.6	9,911.1	0.00	0.00	0.00
19,600.0	89.88	359.87	9,626.4	10,011.0	52.4	10,011.1	0.00	0.00	0.00
19,700.0	89.88	359.87	9,626.6	10,111.0	52.1	10,111.1	0.00	0.00	0.00
19,800.0	89.88	359.87	9,626.8	10,211.0	51.9	10,211.1	0.00	0.00	0.00
19,900.0	89.88	359.87	9,627.0	10,311.0	51.7	10,311.1	0.00	0.00	0.00
20,000.0	89.88	359.87	9,627.2	10,410.9	51.4	10,411.1	0.00	0.00	0.00
20,100.0	89.88	359.87	9,627.4	10,510.9	51.2	10,511.1	0.00	0.00	0.00
20,200.0	89.88	359.87	9,627.6	10,610.9	51.0	10,611.1	0.00	0.00	0.00
20,300.0	89.88	359.87	9,627.8	10,710.9	50.8	10,711.1	0.00	0.00	0.00
20,400.0	89.88	359.87	9,628.0	10,810.9	50.5	10,811.1	0.00	0.00	0.00
20,500.0	89.88	359.87	9,628.2	10,910.9	50.3	10,911.1	0.00	0.00	0.00
20,600.0	89.88	359.87	9,628.5	11,010.9	50.1	11,011.1	0.00	0.00	0.00
20,700.0	89.88	359.87	9,628.7	11,110.9	49.9	11,111.1	0.00	0.00	0.00
20,800.0	89.88	359.87	9,628.9	11,210.9	49.6	11,211.1	0.00	0.00	0.00
20,900.0	89.88	359.87	9,629.1	11,310.9	49.4	11,311.1	0.00	0.00	0.00
21,000.0	89.88	359.87	9,629.3	11,410.9	49.2	11,411.0	0.00	0.00	0.00
21,100.0	89.88	359.87	9,629.5	11,510.9	48.9	11,511.0	0.00	0.00	0.00
21,200.0	89.88	359.87	9,629.7	11,610.9	48.7	11,611.0	0.00	0.00	0.00
21,300.0	89.88	359.87	9,629.9	11,710.9	48.5	11,711.0	0.00	0.00	0.00
21,400.0	89.88	359.87	9,630.1	11,810.9	48.3	11,811.0	0.00	0.00	0.00
21,500.0	89.88	359.87	9,630.4	11,910.9	48.0	11,911.0	0.00	0.00	0.00
21,600.0	89.88	359.87	9,630.6	12,010.9	47.8	12,011.0	0.00	0.00	0.00
21,700.0	89.88	359.87	9,630.8	12,110.9	47.6	12,111.0	0.00	0.00	0.00
21,800.0	89.88	359.87	9,631.0	12,210.9	47.4	12,211.0	0.00	0.00	0.00
21,803.8	89.88	359.87	9,631.0	12,214.7	47.3	12,214.8	0.00	0.00	0.00
TD at 21803.8									

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #705H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	KB=30' @ 3112.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	KB=30' @ 3112.0usft (TBD)
Well:	POTATO BABY ST COM #705H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP2	**Database:**	edm

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (POTATO BABY	0.00	0.00	9,606.0	-49.6	75.4	364,101.75	579,073.61	32° 0' 2.782 N	104° 4' 41.704 W
- plan misses target center by 127.0usft at 9599.7usft MD (9507.4 TVD, 30.5 N, 73.2 E)									
- Circle (radius 50.0)									
PBHL (POTATO BAB	-0.12	179.87	9,631.0	12,214.7	47.3	376,366.11	579,045.55	32° 2' 4.158 N	104° 4' 41.693 W
- plan hits target center									
- Rectangle (sides W100.0 H12,440.7 D20.0)									
LTP (POTATO BABY	0.00	0.00	9,631.0	12,084.7	47.9	376,236.11	579,046.09	32° 2' 2.872 N	104° 4' 41.691 W
- plan misses target center by 0.4usft at 21673.8usft MD (9630.7 TVD, 12084.7 N, 47.6 E)									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
5500	5500	0	0	Start DLS 2.00 TFO 163.73
5693	5693	-6	2	Start 3310.9 hold at 5692.8 MD
9004	8996	-220	64	Start DLS 10.00 TFO -163.83
9940	9606	351	74	Start 11864.2 hold at 9939.6 MD
21,804	9631	12,215	47	TD at 21803.8

Checked By: _____ Approved By: _____ Date: _____

CONCHO

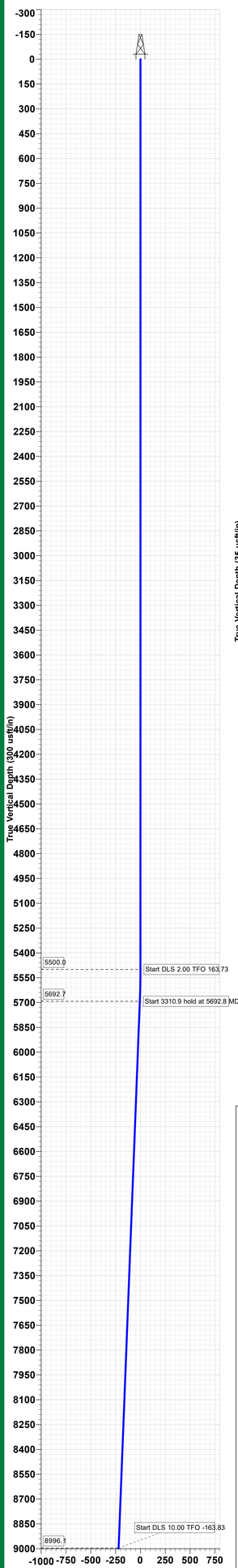
Project: ATLAS PROSPECT (NM-E)
Site: POTATO BABY STATE PROJECT (ATLAS 2628)
Well: POTATO BABY ST COM #705H
Wellbore: OWB
Design: PWP2
GL: 3082.0
KB=30' @ 3112.0usft (TBD)

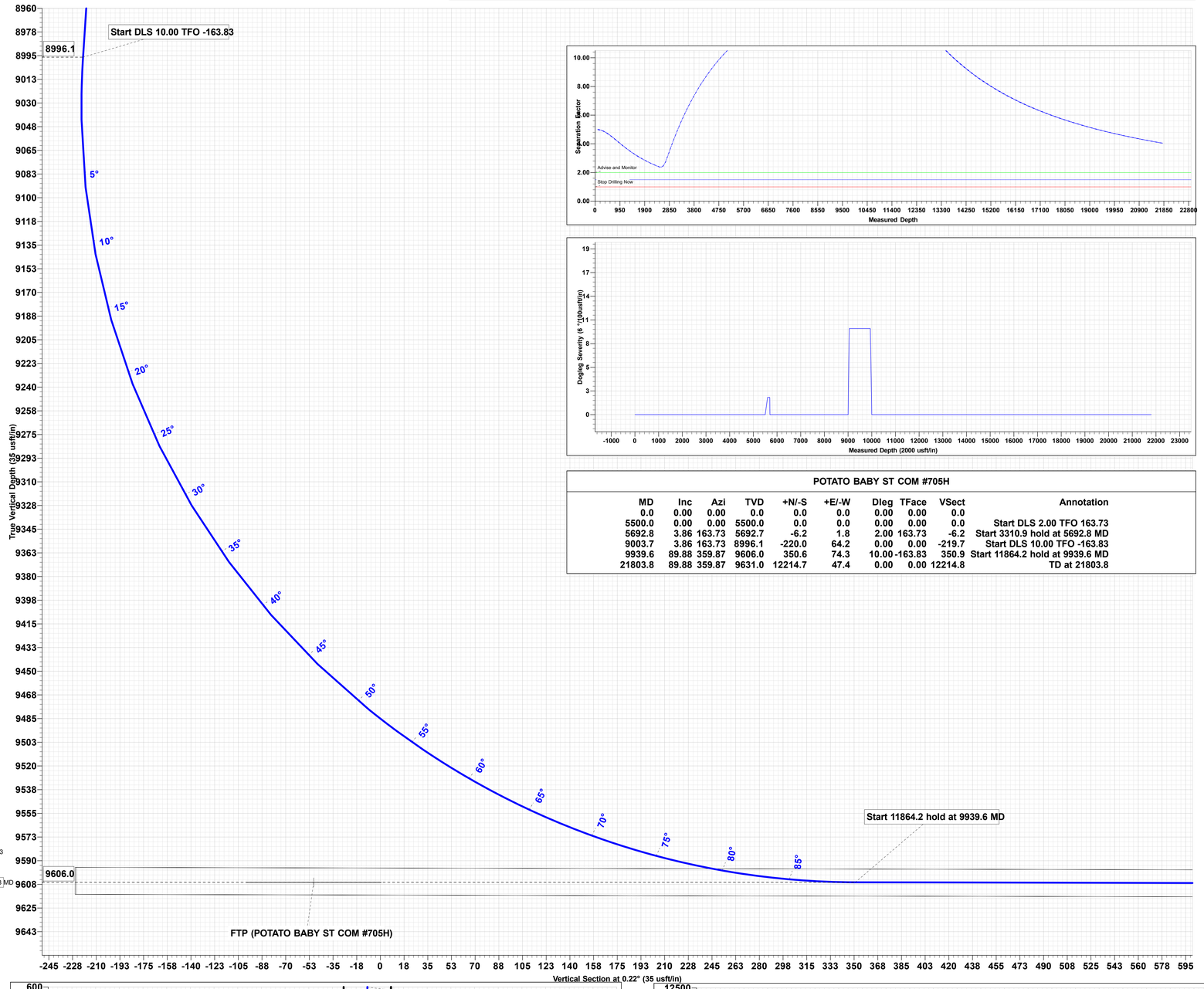
WELL DETAILS: POTATO BABY ST COM #705H

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.0	0.0	364151.37	578998.20	32° 0' 3.275 N	104° 4' 42.578 W

DESIGN TARGET DETAILS

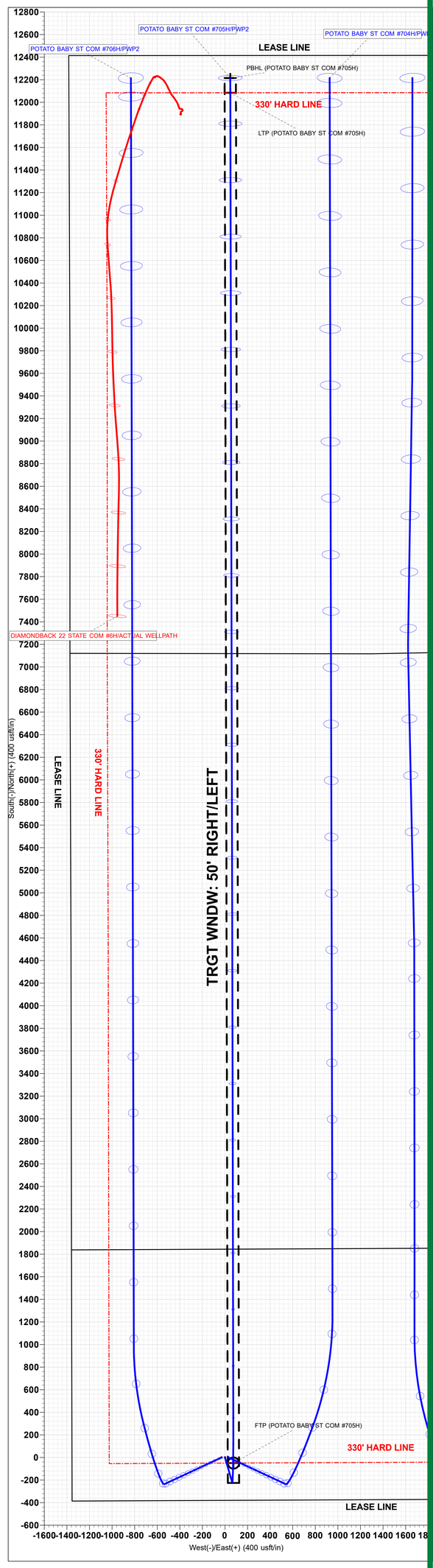
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP (POTATO BABY ST COM #705H)	9606.0	-49.6	75.4	364101.75	579073.61	32° 0' 2.782 N	104° 4' 41.704 W
LTP (POTATO BABY ST COM #705H)	9631.0	12084.7	47.9	376236.11	579046.09	32° 2' 2.872 N	104° 4' 41.691 W
PBHL (POTATO BABY ST COM #705H)	9631.0	12214.7	47.4	376366.11	579045.55	32° 2' 4.158 N	104° 4' 41.693 W

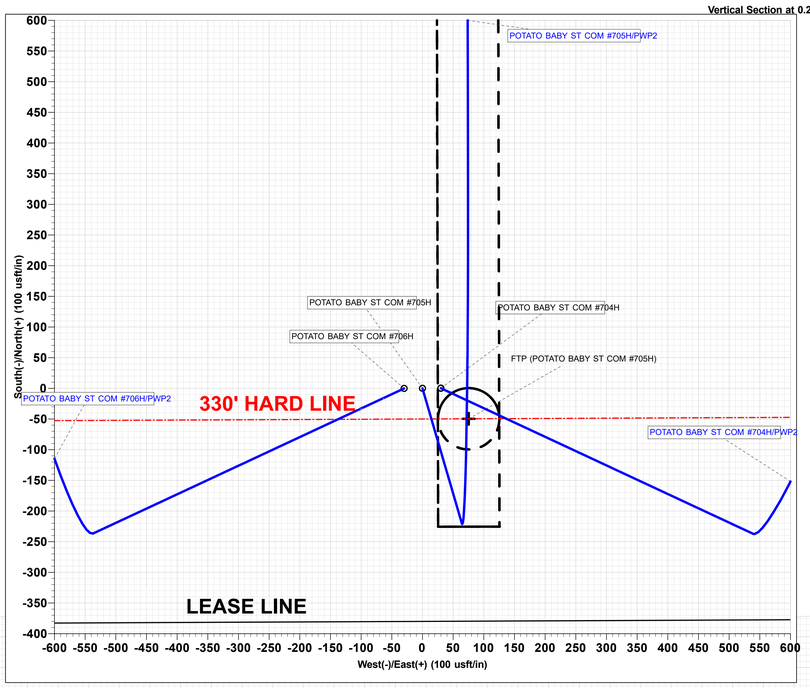


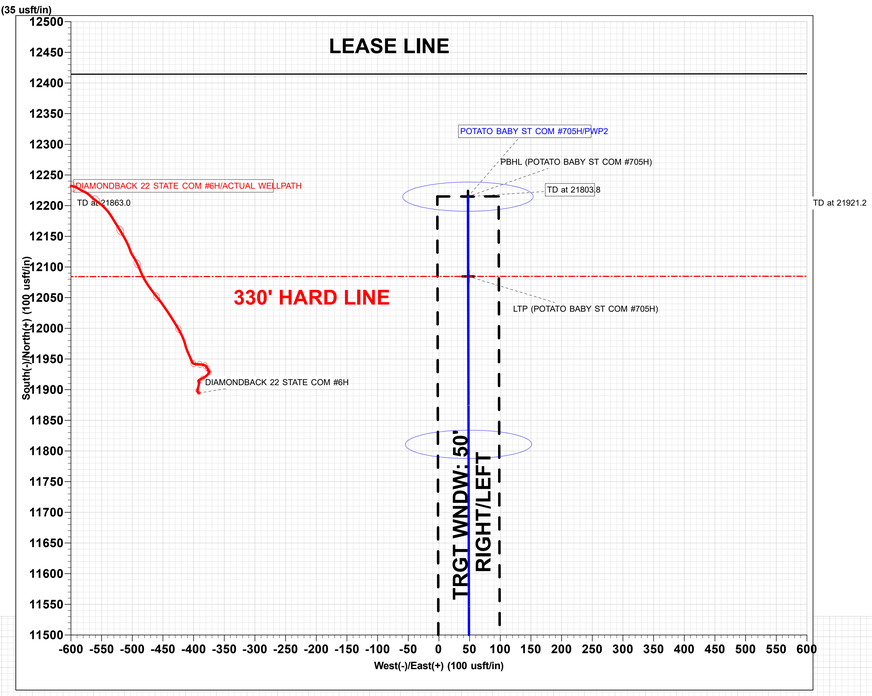


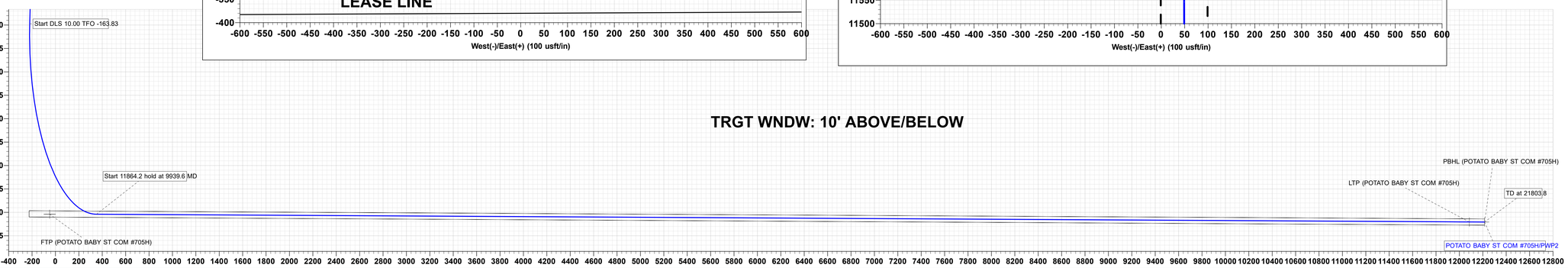
POTATO BABY ST COM #705H

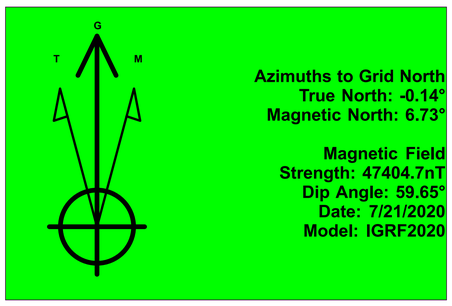
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
5500.0	0.00	0.00	5500.0	0.0	0.0	0.00	0.00	0.0	Start DLS 2.00 TFO 163.73
5692.8	3.86	163.73	5692.7	-6.2	1.8	2.00	163.73	-6.2	Start 3310.9 hold at 5692.8 MD
9003.7	3.86	163.73	8996.1	-220.0	64.2	0.00	0.00	-219.7	Start DLS 10.00 TFO -163.83
9939.6	89.88	359.87	9606.0	350.6	74.3	10.00	-163.83	350.9	Start 11864.2 hold at 9939.6 MD
21803.8	89.88	359.87	9631.0	12214.7	47.4	0.00	0.00	12214.8	TD at 21803.8











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

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

Received by OCD: 9/24/2020 5:34:02 PM

COG Operating LLC

Rig Plat & Closed Loop Equipment Diagram

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

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

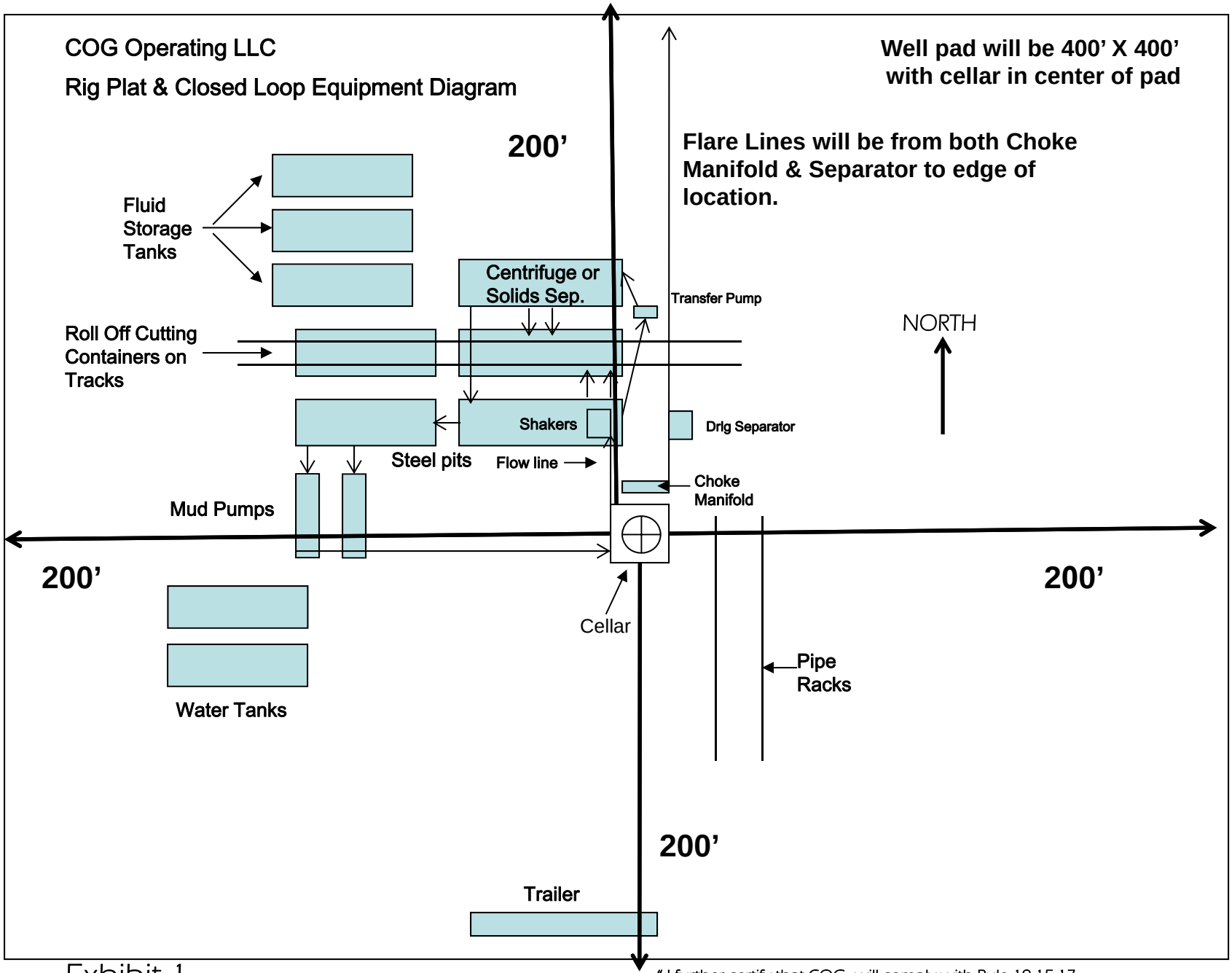


Exhibit 1

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