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

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

Form C-101
August 1, 2011

Permit 286677

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 30-015-47458

4. Property Code	5. Property Name	6. Well No.
329348	Potato Baby State Com	701H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	34	26S	28E	4	300	S	1180	E	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	27	26S	28E	A	200	N	330	E	Eddy

9. Pool Information

PURPLE SAGE;WOLFCAMP (GAS)	98220

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	GAS		State	3073
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	16722	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	16722	1000	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	701H

7 OGRID No.	8 Operator Name	9 Elevation
229137	COG OPERATING LLC	3073'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	34	26-S	28-E		300'	SOUTH	1180'	EAST	EDDY

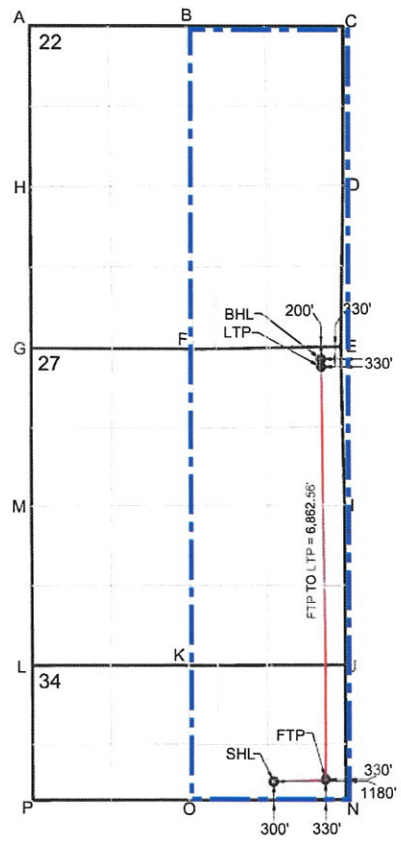
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	27	26-S	28-E		200'	NORTH	330'	EAST	EDDY

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

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

[16]



CORNER DATA
NEW MEXICO EAST - NAD 83
A - FOUND IRON PIPE W/ BRASS CAP N:376622.59' E:618799.59'
B - FOUND IRON PIPE W/ BRASS CAP N:376624.01' E:621366.59'
C - FOUND IRON PIPE W/ BRASS. CAP N:376625.57' E:623933.68'
D - FOUND IRON PIPE W/ BRASS CAP N:374020.30' E:623931.34'
E - FOUND IRON PIPE W/ BRASS CAP N:371372.64' E:623894.95'
F - FOUND IRON PIPE W/ BRASS CAP N:371325.17' E:621481.50'
G - FOUND IRON PIPE W/ BRASS CAP N:371328.78' E:618821.83'
H - FOUND IRON PIPE W/ BRASS CAP N:373976.13' E:618810.67'
I - FOUND IRON PIPE W/ BRASS CAP N:368720.47' E:623950.18'
J - FOUND IRON PIPE W/ BRASS CAP N:366069.65' E:623952.49'
K - CALCULATED CORNER N:366058.22' E:621388.44'
L - FOUND IRON PIPE W/ BRASS CAP N:366046.79' E:618824.39'
M - FOUND IRON PIPE W/ BRASS CAP N:368688.50' E:618819.64'
N - FOUND IRON PIPE W/ BRASS CAP N:363845.40' E:623957.83'
O - CALCULATED CORNER N:363833.89' E:621393.73'
P - FOUND IRON PIPE W/ BRASS CAP N:363822.34' E:618829.54'

LAST TAKE PO INT (LTP)
NEW MEXICO EAST - NAD 83
X=623571.89
Y=371036.22
LAT.= 32.01978106° N
LONG.= 104.06799434° W
330' FNL, 330' FEL
SECTION 27

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST - NAD 83
X=623569.18
Y=371166.19
LAT.= 32.02013836° N
LONG.= 104.06800205° W
200' FNL, 330' FEL
SECTION 27

SURFACE HOLE LOCATION (SHL)
NEW MEXICO EAST - NAD 83
X=622777.12
Y=364140.12
LAT.= 32.00082922° N
LONG.= 104.07061282° W
300' FSL, 1180' FEL
SECTION 34

FIRST TAKE PO INT (FTP)
NEW MEXICO EAST - NAD 83
X=623627.04
Y=364173.93
LAT.= 32.00091644° N
LONG.= 104.06787077° W
330' FSL, 330' FEL
SECTION 34

17 OPERATOR CERTIFICATION

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

Stan Wagner 9/17/20
Signature Date

Stan Wagner
Printed Name

E-mail Address

[18] SURVEYOR CERTIFICATION

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

Date of Survey

Signature and Seal of Professional Surveyor

GARRETT J SMELKER
NEW MEXICO
25036
09/04/2020
PROFESSIONAL SURVEYOR

Certificate Number

Intent [X] As Drilled [ ]

API #
30-015-

Operator Name:	Property Name:	Well Number
COG Operating LLC	Potato Baby State	701H

Kick Off Point (KOP)

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

Latitude	Longitude	NAD
		83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
H	34	26S	28E	4	330	South	330	East	Eddy

Latitude	Longitude	NAD
32.00091644	-104.06787077	NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	27	26S	28E		330	North	330	East	Eddy

Latitude	Longitude	NAD
32.01978106	-104.06799434	NAD 83

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

Is this well an infill well? YES

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

API #
30-015-

Operator Name:	Property Name:	Well Number
COG Operating LLC	Potato Baby State	703H

KZ 06/29/2018

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GAS CAPTURE PLAN

Date: 9/24/2020

☒ Original
☐ Amended - Reason for Amendment:

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

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

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

Well(s)/Production Facility – Name of facility

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

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Potato Baby State Com #701H	30-015-47458	H-34-26S-28E	0300S 1180E	4100	None	Red Bluff low pressure gathering plant. Sec 35-Blk 57, T2, Culberson Co., Texas

Gathering System and Pipeline Notification

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

Flowback Strategy

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

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

Alternatives to Reduce Flaring

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

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

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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 286677

PERMIT COMMENTS

Operator Name and Address:	API Number:
COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701	30-015-47458
	Well: Potato Baby State Com #701H

Created By	Comment	Comment Date

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

Form APD Conditions

Permit 286677

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
COG OPERATING LLC [229137] 600 W Illinois Ave Midland, TX 79701	30-015-47458
	Well: Potato Baby State Com #701H

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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OIL CONSERVATION DIVISION
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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	701H

7 OGRID No.	8 Operator Name	9 Elevation
229137	COG OPERATING LLC	3073'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	34	26-S	28-E		300'	SOUTH	1180'	EAST	EDDY

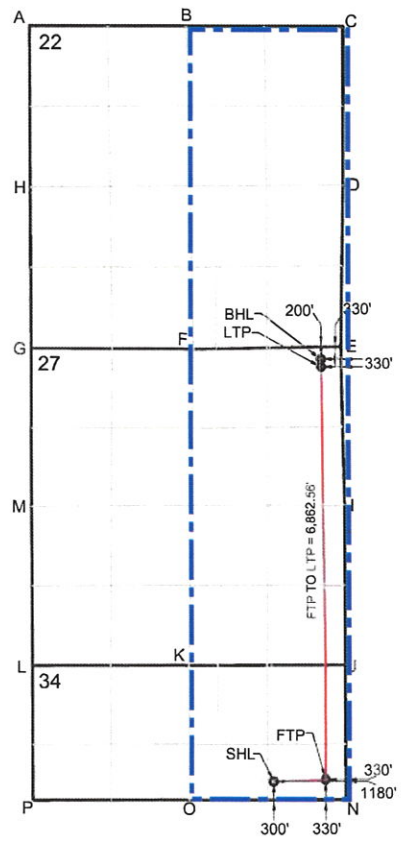
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	27	26-S	28-E		200'	NORTH	330'	EAST	EDDY

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

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

[16]



CORNER DATA
NEW MEXICO EAST - NAD 83
A - FOUND IRON PIPE W/ BRASS CAP N:376622.59' E:618799.59'
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LAST TAKE PO INT (LTP)
NEW MEXICO EAST - NAD 83
X=623571.89
Y=371036.22
LAT.= 32.01978106° N
LONG.= 104.06799434° W
330' FNL, 330' FEL
SECTION 27

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST - NAD 83
X=623569.18
Y=371166.19
LAT.= 32.02013836° N
LONG.= 104.06800205° W
200' FNL, 330' FEL
SECTION 27

SURFACE HOLE LOCATION (SHL)
NEW MEXICO EAST - NAD 83
X=622777.12
Y=364140.12
LAT.= 32.00082922° N
LONG.= 104.07061282° W
300' FSL, 1180' FEL
SECTION 34

FIRST TAKE PO INT (FTP)
NEW MEXICO EAST - NAD 83
X=623627.04
Y=364173.93
LAT.= 32.00091644° N
LONG.= 104.06787077° W
330' FSL, 330' FEL
SECTION 34

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Stan Wagner 9/17/20
Signature Date

Stan Wagner
Printed Name

E-mail Address

[18] SURVEYOR CERTIFICATION

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

Date of Survey

Signature and Seal of Professional Surveyor

GARRETT J SMELKER
NEW MEXICO
25036
09/04/2020
PROFESSIONAL SURVEYOR

Certificate Number

Intent [X] As Drilled [ ]

API #
30-015-

Operator Name:	Property Name:	Well Number
COG Operating LLC	Potato Baby State	701H

Kick Off Point (KOP)

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

Latitude	Longitude	NAD
		83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
H	34	26S	28E	4	330	South	330	East	Eddy

Latitude	Longitude	NAD
32.00091644	-104.06787077	NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	27	26S	28E		330	North	330	East	Eddy

Latitude	Longitude	NAD
32.01978106	-104.06799434	NAD 83

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

Is this well an infill well? YES

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

API #
30-015-

Operator Name:	Property Name:	Well Number
COG Operating LLC	Potato Baby State	703H

KZ 06/29/2018

Potato Baby State Com #701H

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”	20#	16722’	1000	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 16722’ with OBM. Run 5-1/2” 20# 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

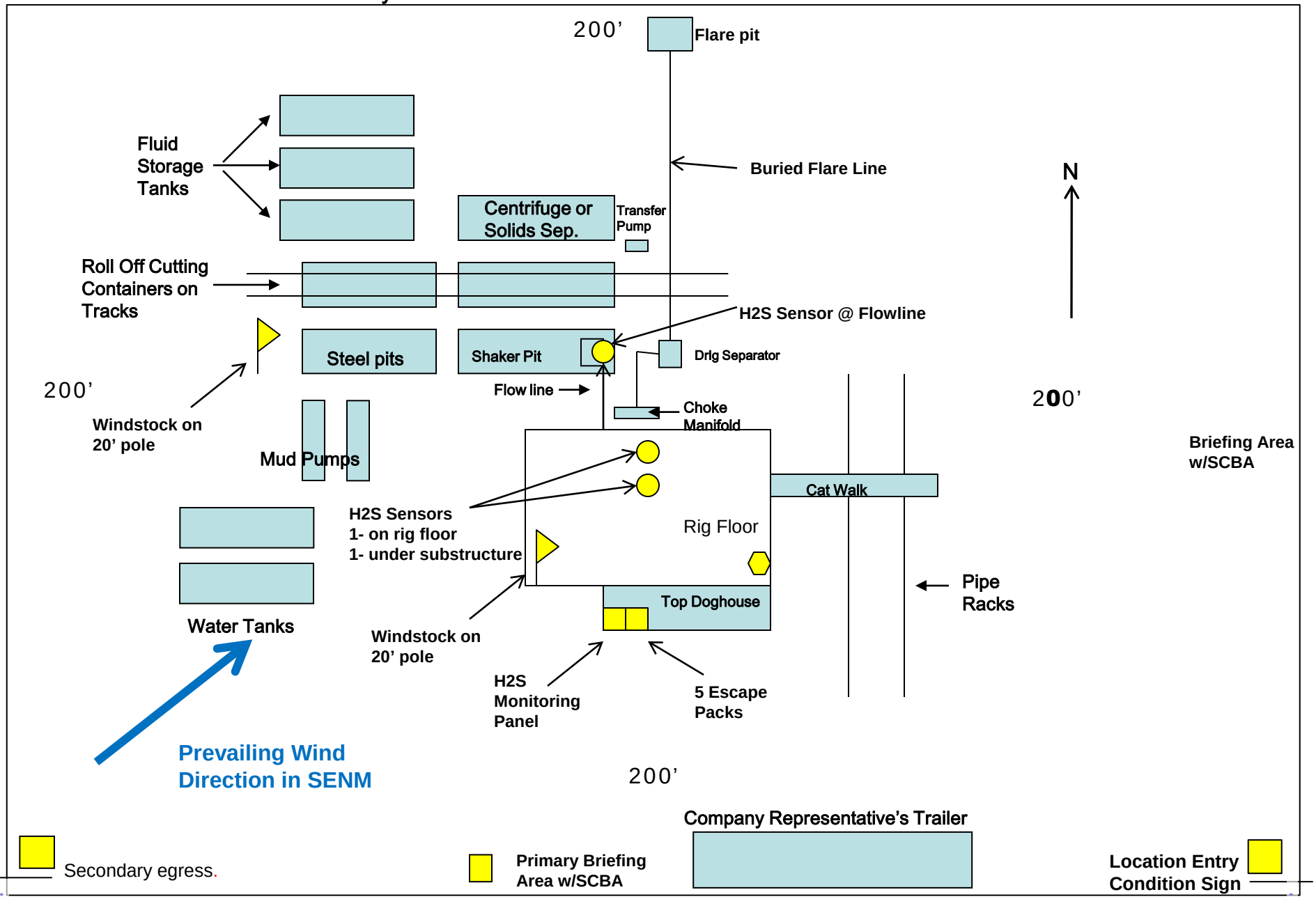
	OFFICE	MOBILE
COG OPERATING LLC OFFICE	575-748-6940	
SETH WILD	432-683-7443	432-528-3633
WALTER ROYE	575-748-6940	432-934-1886

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 #701H

OWB
PWP5

Anticollision Report

10 September, 2020

Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #701H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3103.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3103.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #701H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP5	**Offset TVD Reference:**	Offset Datum

Reference PWP5

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

Survey Tool Program **Date** 9/10/2020

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	8,968.0	PWP5 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
8,968.0	16,722.5	PWP5 (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)						
COTTONMOUTH 23 FED COM #2H - OWB - ACTUAL V						Out of range
DIAMONDBACK 22 ST COM 3H - OWB - AWP						Out of range
DIAMONDBACK 22 STATE COM #5H - OWB - ACTUAL						Out of range
DIAMONDBACK 22 STATE COM #6H - OWB - ACTUAL						Out of range
POTATO BABY ST COM #702H - OWB - PWP5	2,416.3	2,417.3	30.0	17.6	2.424	CC
POTATO BABY ST COM #702H - OWB - PWP5	2,500.0	2,501.0	30.0	17.3	2.365	ES, SF
POTATO BABY ST COM #703H - OWB - PWP2	2,416.0	2,418.0	60.0	47.6	4.849	CC
POTATO BABY ST COM #703H - OWB - PWP2	2,500.0	2,502.0	60.0	47.3	4.729	ES, SF
POTATO BABY ST COM #704H - OWB - PWP2						Out of range
POTATO BABY ST COM #705H - OWB - PWP2						Out of range
POTATO BABY ST COM #706H - OWB - PWP2						Out of range

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #702H - OWB - PWP5 — **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	-90.25	-0.1	-30.0	30.0				
100.0	100.0	101.0	101.0	3.0	3.0	-90.25	-0.1	-30.0	30.0	24.0	6.00	4.996	
200.0	200.0	201.0	201.0	3.0	3.0	-90.25	-0.1	-30.0	30.0	23.9	6.04	4.965	
300.0	300.0	301.0	301.0	3.0	3.1	-90.25	-0.1	-30.0	30.0	23.9	6.12	4.899	
400.0	400.0	401.0	401.0	3.0	3.2	-90.25	-0.1	-30.0	30.0	23.7	6.24	4.805	
500.0	500.0	501.0	501.0	3.1	3.4	-90.25	-0.1	-30.0	30.0	23.6	6.40	4.687	
600.0	600.0	601.0	601.0	3.1	3.6	-90.25	-0.1	-30.0	30.0	23.4	6.59	4.554	
700.0	700.0	701.0	701.0	3.1	3.8	-90.25	-0.1	-30.0	30.0	23.2	6.80	4.410	
800.0	800.0	801.0	801.0	3.2	4.0	-90.25	-0.1	-30.0	30.0	23.0	7.04	4.261	
900.0	900.0	901.0	901.0	3.2	4.2	-90.25	-0.1	-30.0	30.0	22.7	7.30	4.110	
1,000.0	1,000.0	1,001.0	1,001.0	3.2	4.5	-90.25	-0.1	-30.0	30.0	22.4	7.57	3.961	
1,100.0	1,100.0	1,101.0	1,101.0	3.3	4.8	-90.25	-0.1	-30.0	30.0	22.1	7.86	3.816	
1,200.0	1,200.0	1,201.0	1,201.0	3.4	5.1	-90.25	-0.1	-30.0	30.0	21.8	8.16	3.675	
1,300.0	1,300.0	1,301.0	1,301.0	3.4	5.4	-90.25	-0.1	-30.0	30.0	21.5	8.47	3.540	
1,400.0	1,400.0	1,401.0	1,401.0	3.5	5.7	-90.25	-0.1	-30.0	30.0	21.2	8.79	3.411	

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 #701H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3103.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3103.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #701H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP5	**Offset TVD Reference:**	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #702H - OWB - PWP5 — **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
1,500.0	1,500.0	1,501.0	1,501.0	3.5	6.0	-90.25	-0.1	-30.0	30.0	20.9	9.12	3.288	
1,600.0	1,600.0	1,601.0	1,601.0	3.6	6.3	-90.25	-0.1	-30.0	30.0	20.5	9.46	3.172	
1,700.0	1,700.0	1,701.0	1,701.0	3.7	6.6	-90.25	-0.1	-30.0	30.0	20.2	9.80	3.061	
1,800.0	1,800.0	1,801.0	1,801.0	3.8	6.9	-90.25	-0.1	-30.0	30.0	19.8	10.14	2.957	
1,900.0	1,900.0	1,901.0	1,901.0	3.9	7.2	-90.25	-0.1	-30.0	30.0	19.5	10.50	2.858	
2,000.0	2,000.0	2,001.0	2,001.0	3.9	7.6	-90.25	-0.1	-30.0	30.0	19.1	10.85	2.764	
2,100.0	2,100.0	2,101.0	2,101.0	4.0	7.9	-90.25	-0.1	-30.0	30.0	18.8	11.21	2.675	
2,200.0	2,200.0	2,201.0	2,201.0	4.1	8.2	-90.25	-0.1	-30.0	30.0	18.4	11.57	2.591	
2,300.0	2,300.0	2,301.0	2,301.0	4.2	8.6	-90.25	-0.1	-30.0	30.0	18.1	11.94	2.512	
2,400.0	2,400.0	2,401.0	2,401.0	4.3	8.9	-90.25	-0.1	-30.0	30.0	17.7	12.31	2.436	
2,416.3	2,416.3	2,417.3	2,417.3	4.3	9.0	-90.25	-0.1	-30.0	30.0	17.6	12.37	2.424	CC
2,500.0	2,500.0	2,501.0	2,501.0	4.4	9.2	-90.25	-0.1	-30.0	30.0	17.3	12.68	2.365	ES, SF
2,600.0	2,600.0	2,600.9	2,600.9	4.4	9.6	152.87	-1.9	-30.0	31.6	18.6	13.04	2.426	
2,700.0	2,699.8	2,700.6	2,700.5	4.4	9.9	148.35	-7.2	-30.2	36.8	23.3	13.41	2.741	
2,750.0	2,749.7	2,750.5	2,750.2	4.4	10.0	146.34	-10.6	-30.3	40.6	27.0	13.60	2.986	
2,800.0	2,799.5	2,800.3	2,799.9	4.5	10.2	145.04	-14.1	-30.4	44.9	31.1	13.79	3.253	
2,900.0	2,899.1	2,899.9	2,899.2	4.5	10.5	143.06	-21.0	-30.6	53.4	39.3	14.18	3.769	
3,000.0	2,998.7	2,999.5	2,998.6	4.5	10.8	141.63	-28.0	-30.8	62.0	47.5	14.57	4.259	
3,100.0	3,098.4	3,099.1	3,098.0	4.5	11.1	140.55	-34.9	-31.0	70.7	55.7	14.96	4.725	
3,200.0	3,198.0	3,198.8	3,197.4	4.5	11.4	139.70	-41.9	-31.2	79.3	64.0	15.36	5.167	
3,300.0	3,297.6	3,298.4	3,296.8	4.5	11.8	139.02	-48.8	-31.3	88.0	72.3	15.75	5.587	
3,400.0	3,397.2	3,398.0	3,396.1	4.6	12.1	138.46	-55.8	-31.5	96.7	80.5	16.16	5.985	
3,500.0	3,496.8	3,497.6	3,495.5	4.6	12.4	138.00	-62.7	-31.7	105.4	88.8	16.56	6.364	
3,600.0	3,596.4	3,597.2	3,594.9	4.6	12.7	137.60	-69.7	-31.9	114.1	97.1	16.97	6.723	
3,700.0	3,696.1	3,696.8	3,694.3	4.7	13.1	137.26	-76.6	-32.1	122.8	105.4	17.38	7.065	
3,800.0	3,795.7	3,796.5	3,793.6	4.7	13.4	136.97	-83.6	-32.3	131.5	113.7	17.79	7.391	
3,900.0	3,895.3	3,896.1	3,893.0	4.8	13.7	136.71	-90.5	-32.5	140.2	122.0	18.21	7.700	
4,000.0	3,994.9	3,995.7	3,992.4	4.8	14.1	136.48	-97.5	-32.7	148.9	130.3	18.62	7.995	
4,100.0	4,094.5	4,095.3	4,091.8	4.9	14.4	136.28	-104.4	-32.9	157.6	138.6	19.04	8.276	
4,200.0	4,194.2	4,194.9	4,191.1	4.9	14.7	136.10	-111.3	-33.1	166.3	146.9	19.47	8.545	
4,300.0	4,293.8	4,294.6	4,290.5	5.0	15.1	135.94	-118.3	-33.3	175.0	155.2	19.89	8.801	
4,400.0	4,393.4	4,394.2	4,389.9	5.1	15.4	135.79	-125.2	-33.5	183.8	163.4	20.32	9.045	
4,500.0	4,493.0	4,493.8	4,489.3	5.1	15.8	135.66	-132.2	-33.7	192.5	171.7	20.74	9.279	
4,600.0	4,592.6	4,593.4	4,588.6	5.2	16.1	135.53	-139.1	-33.9	201.2	180.0	21.17	9.502	
4,700.0	4,692.3	4,693.0	4,688.0	5.3	16.5	135.42	-146.1	-34.1	209.9	188.3	21.61	9.716	
4,800.0	4,791.9	4,792.6	4,787.4	5.4	16.8	135.32	-153.0	-34.2	218.6	196.6	22.04	9.920	
4,900.0	4,891.5	4,892.3	4,886.8	5.4	17.1	135.22	-160.0	-34.4	227.4	204.9	22.48	10.116	
5,000.0	4,991.1	4,991.9	4,986.1	5.5	17.5	135.13	-166.9	-34.6	236.1	213.2	22.91	10.304	
5,100.0	5,090.7	5,091.5	5,085.5	5.6	17.8	135.05	-173.9	-34.8	244.8	221.5	23.35	10.484	
5,200.0	5,190.4	5,191.1	5,184.9	5.7	18.2	134.97	-180.8	-35.0	253.5	229.7	23.79	10.657	
5,300.0	5,290.0	5,290.7	5,284.3	5.8	18.5	134.90	-187.8	-35.2	262.3	238.0	24.23	10.823	
5,400.0	5,389.6	5,390.4	5,383.6	5.8	18.9	134.84	-194.7	-35.4	271.0	246.3	24.67	10.983	
5,500.0	5,489.2	5,490.0	5,483.0	5.9	19.2	134.77	-201.6	-35.6	279.7	254.6	25.12	11.136	
5,600.0	5,588.8	5,589.6	5,582.4	6.0	19.6	134.71	-208.6	-35.8	288.4	262.9	25.56	11.284	
5,700.0	5,688.5	5,689.2	5,681.8	6.1	19.9	134.66	-215.5	-36.0	297.1	271.1	26.01	11.425	
5,800.0	5,788.1	5,788.8	5,781.1	6.2	20.3	134.61	-222.5	-36.2	305.9	279.4	26.45	11.562	
5,900.0	5,887.7	5,892.3	5,884.4	6.3	20.6	134.82	-228.2	-36.3	314.0	287.1	26.91	11.669	
6,000.0	5,987.3	5,996.1	5,988.2	6.4	21.0	135.64	-230.1	-36.4	320.9	293.6	27.36	11.729	
6,100.0	6,086.9	6,095.8	6,087.9	6.5	21.3	136.70	-230.1	-36.4	327.2	299.4	27.80	11.773	
6,200.0	6,186.6	6,195.4	6,187.6	6.6	21.7	137.73	-230.1	-36.4	333.6	305.4	28.23	11.818	
6,300.0	6,286.2	6,295.0	6,287.2	6.7	22.0	138.72	-230.1	-36.4	340.2	311.5	28.67	11.865	

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 #701H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3103.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3103.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #701H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP5	**Offset TVD Reference:**	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #702H - OWB - PWP5 — **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
6,400.0	6,385.8	6,394.7	6,386.8	6.8	22.4	139.66	-230.1	-36.4	346.8	317.7	29.11	11.913	
6,500.0	6,485.4	6,494.3	6,486.4	6.9	22.7	140.58	-230.1	-36.4	353.5	323.9	29.55	11.962	
6,600.0	6,585.0	6,593.9	6,586.0	7.0	23.0	141.46	-230.1	-36.4	360.2	330.3	29.99	12.012	
6,700.0	6,684.7	6,693.5	6,685.7	7.1	23.4	142.30	-230.1	-36.4	367.1	336.7	30.43	12.063	
6,800.0	6,784.3	6,793.1	6,785.3	7.2	23.7	143.12	-230.1	-36.4	374.1	343.2	30.88	12.114	
6,900.0	6,883.9	6,892.8	6,884.9	7.3	24.1	143.90	-230.1	-36.4	381.1	349.7	31.32	12.165	
7,000.0	6,983.5	6,992.4	6,984.5	7.4	24.4	144.66	-230.1	-36.4	388.2	356.4	31.77	12.217	
7,100.0	7,083.1	7,092.0	7,084.1	7.5	24.8	145.39	-230.1	-36.4	395.3	363.1	32.22	12.269	
7,200.0	7,182.7	7,191.6	7,183.7	7.6	25.1	146.09	-230.1	-36.4	402.5	369.8	32.67	12.321	
7,300.0	7,282.4	7,291.2	7,283.4	7.7	25.4	146.77	-230.1	-36.4	409.8	376.7	33.12	12.373	
7,400.0	7,382.0	7,390.9	7,383.0	7.8	25.8	147.43	-230.1	-36.4	417.1	383.5	33.57	12.425	
7,500.0	7,481.6	7,490.5	7,482.6	7.9	26.1	148.06	-230.1	-36.4	424.5	390.5	34.02	12.477	
7,600.0	7,581.2	7,590.1	7,582.2	8.0	26.5	148.67	-230.1	-36.4	431.9	397.4	34.48	12.528	
7,700.0	7,680.8	7,689.7	7,681.8	8.2	26.8	149.26	-230.1	-36.4	439.4	404.5	34.93	12.579	
7,800.0	7,780.5	7,789.3	7,781.5	8.3	27.2	149.83	-230.1	-36.4	446.9	411.5	35.39	12.630	
7,900.0	7,880.1	7,889.0	7,881.1	8.4	27.5	150.38	-230.1	-36.4	454.5	418.6	35.84	12.680	
8,000.0	7,979.7	7,988.6	7,980.7	8.5	27.9	150.92	-230.1	-36.4	462.1	425.8	36.30	12.730	
8,100.0	8,079.3	8,088.2	8,080.3	8.6	28.2	151.43	-230.1	-36.4	469.7	433.0	36.76	12.779	
8,200.0	8,178.9	8,187.8	8,179.9	8.7	28.6	151.93	-230.1	-36.4	477.4	440.2	37.22	12.828	
8,300.0	8,278.6	8,287.4	8,279.6	8.8	28.9	152.42	-230.1	-36.4	485.1	447.4	37.67	12.877	
8,400.0	8,378.2	8,387.1	8,379.2	8.9	29.2	152.89	-230.1	-36.4	492.9	454.7	38.13	12.924	
8,500.0	8,477.8	8,486.7	8,478.8	9.1	29.6	153.34	-230.1	-36.4	500.7	462.1	38.60	12.972	
8,600.0	8,577.4	8,586.3	8,578.4	9.2	29.9	153.78	-230.1	-36.4	508.5	469.4	39.06	13.018	
8,700.0	8,677.0	8,685.9	8,678.0	9.3	30.3	154.21	-230.1	-36.4	516.3	476.8	39.52	13.065	
8,800.0	8,776.7	8,785.5	8,777.7	9.4	30.6	154.62	-230.1	-36.4	524.2	484.2	39.98	13.110	
8,900.0	8,876.3	8,885.2	8,877.3	9.5	31.0	155.02	-230.1	-36.4	532.1	491.6	40.45	13.155	
9,000.0	8,975.9	8,984.8	8,976.9	9.6	31.3	155.41	-230.1	-36.4	540.0	499.1	40.88	13.208	
9,073.5	9,049.1	9,057.9	9,050.0	9.6	31.6	155.70	-230.1	-36.4	545.8	504.7	41.15	13.265	
9,100.0	9,075.5	9,084.0	9,076.1	9.6	31.7	-174.43	-229.3	-36.4	548.1	506.9	41.24	13.289	
9,150.0	9,125.2	9,132.8	9,124.7	9.6	31.9	-140.65	-224.6	-36.4	553.4	511.9	41.43	13.358	
9,200.0	9,174.3	9,181.4	9,172.4	9.7	32.0	-126.87	-215.8	-36.4	559.8	518.2	41.61	13.454	
9,250.0	9,222.5	9,229.5	9,218.9	9.7	32.2	-119.74	-203.1	-36.4	567.5	525.7	41.80	13.577	
9,300.0	9,269.5	9,277.4	9,263.8	9.7	32.3	-115.17	-186.7	-36.4	576.2	534.2	41.98	13.725	
9,350.0	9,314.8	9,324.8	9,306.9	9.8	32.5	-111.79	-166.8	-36.3	586.0	543.8	42.17	13.896	
9,400.0	9,358.2	9,372.0	9,347.8	9.8	32.6	-109.04	-143.6	-36.3	596.7	554.4	42.36	14.088	
9,450.0	9,399.3	9,418.8	9,386.5	9.8	32.7	-106.66	-117.2	-36.3	608.3	565.8	42.54	14.299	
9,500.0	9,437.7	9,465.3	9,422.7	9.9	32.9	-104.51	-88.0	-36.3	620.7	577.9	42.73	14.526	
9,550.0	9,473.3	9,511.6	9,456.2	10.0	33.0	-102.51	-56.1	-36.2	633.7	590.8	42.91	14.767	
9,600.0	9,505.7	9,557.6	9,487.0	10.0	33.1	-100.63	-21.8	-36.2	647.3	604.2	43.10	15.018	
9,650.0	9,534.6	9,603.6	9,514.7	10.1	33.2	-98.85	14.7	-36.2	661.4	618.1	43.29	15.279	
9,700.0	9,559.9	9,650.0	9,539.8	10.2	33.3	-97.14	53.9	-36.2	675.8	632.4	43.48	15.545	
9,750.0	9,581.4	9,695.2	9,561.0	10.3	33.4	-95.51	93.8	-36.1	690.5	646.9	43.67	15.813	
9,800.0	9,598.9	9,741.1	9,579.2	10.4	33.5	-93.96	135.8	-36.1	705.4	661.5	43.86	16.083	
9,850.0	9,612.3	9,787.0	9,594.1	10.5	33.5	-92.49	179.3	-36.1	720.3	676.2	44.05	16.350	
9,900.0	9,621.4	9,833.2	9,605.5	10.6	33.6	-91.10	224.0	-36.0	735.1	690.8	44.25	16.612	
9,950.0	9,626.2	9,879.6	9,613.3	10.8	33.6	-89.81	269.7	-36.0	749.7	705.3	44.45	16.868	
9,983.2	9,627.0	9,910.6	9,616.4	10.9	33.7	-89.01	300.6	-36.0	759.3	714.7	44.58	17.033	
10,000.0	9,627.0	9,926.3	9,617.3	10.9	33.7	-89.09	316.3	-35.9	764.1	719.4	44.65	17.114	
10,100.0	9,626.5	10,022.3	9,617.8	11.3	33.8	-89.21	412.2	-35.9	790.5	745.4	45.10	17.528	
10,200.0	9,626.1	10,119.5	9,617.6	11.7	33.9	-89.26	509.5	-35.8	813.6	768.0	45.62	17.835	
10,300.0	9,625.6	10,217.6	9,617.5	12.2	34.0	-89.31	607.5	-35.7	833.3	787.1	46.21	18.034	

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 #701H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3103.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3103.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #701H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP5	**Offset TVD Reference:**	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #702H - OWB - PWP5

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
10,400.0	9,625.1	10,316.2	9,617.3	12.7	34.2	-89.36	706.2	-35.6	849.6	802.7	46.85	18.133	
10,500.0	9,624.7	10,415.4	9,617.1	13.2	34.4	-89.40	805.4	-35.5	862.4	814.8	47.56	18.134	
10,600.0	9,624.2	10,515.0	9,616.9	13.8	34.6	-89.43	904.9	-35.5	871.7	823.4	48.31	18.044	
10,700.0	9,623.8	10,614.8	9,616.7	14.4	34.8	-89.46	1,004.7	-35.4	877.6	828.4	49.11	17.869	
10,800.0	9,623.3	10,714.8	9,616.5	15.0	35.0	-89.49	1,104.7	-35.3	879.9	830.0	49.96	17.614	
10,817.7	9,623.2	10,732.5	9,616.5	15.1	35.1	-89.50	1,122.4	-35.3	880.0	829.9	50.11	17.562	
10,900.0	9,622.9	10,814.8	9,616.3	15.6	35.3	-89.51	1,204.7	-35.2	880.0	829.1	50.84	17.310	
11,000.0	9,622.4	10,914.8	9,616.2	16.3	35.6	-89.53	1,304.7	-35.1	880.0	828.2	51.76	17.000	
11,100.0	9,622.0	11,014.8	9,616.0	16.9	35.9	-89.54	1,404.7	-35.0	880.0	827.3	52.73	16.690	
11,200.0	9,621.5	11,114.8	9,615.8	17.6	36.2	-89.56	1,504.7	-35.0	880.0	826.3	53.72	16.380	
11,300.0	9,621.1	11,214.8	9,615.6	18.3	36.5	-89.58	1,604.7	-34.9	880.0	825.2	54.75	16.072	
11,400.0	9,620.6	11,314.8	9,615.4	19.0	36.8	-89.60	1,704.7	-34.8	880.0	824.2	55.81	15.767	
11,500.0	9,620.2	11,414.8	9,615.2	19.8	37.2	-89.61	1,804.7	-34.7	880.0	823.1	56.90	15.465	
11,600.0	9,619.7	11,514.8	9,615.0	20.5	37.6	-89.63	1,904.7	-34.6	880.0	822.0	58.02	15.168	
11,600.2	9,619.7	11,515.0	9,615.0	20.5	37.6	-89.63	1,904.9	-34.6	880.0	822.0	58.02	15.167	
11,624.0	9,619.6	11,537.7	9,615.0	20.7	37.7	-89.63	1,927.6	-34.6	880.0	821.7	58.28	15.100	
11,629.0	9,619.6	11,542.3	9,615.0	20.7	37.7	-89.64	1,932.2	-34.6	880.0	821.7	58.33	15.086	
11,700.0	9,619.3	11,613.2	9,614.9	21.2	38.0	-89.65	2,003.2	-34.7	880.0	820.9	59.14	14.879	
11,800.0	9,618.8	11,713.2	9,614.7	22.0	38.4	-89.67	2,103.2	-34.8	880.0	819.7	60.31	14.592	
11,900.0	9,618.4	11,813.2	9,614.5	22.8	38.8	-89.68	2,203.2	-34.9	880.0	818.5	61.49	14.310	
12,000.0	9,617.9	11,913.2	9,614.3	23.5	39.3	-89.70	2,303.2	-34.9	880.0	817.3	62.70	14.035	
12,100.0	9,617.5	12,013.2	9,614.1	24.3	39.7	-89.72	2,403.2	-35.0	880.0	816.1	63.93	13.765	
12,200.0	9,617.0	12,113.2	9,613.9	25.1	40.2	-89.73	2,503.2	-35.1	880.0	814.8	65.18	13.502	
12,300.0	9,616.6	12,213.2	9,613.7	25.9	40.7	-89.75	2,603.2	-35.2	880.0	813.6	66.44	13.245	
12,400.0	9,616.1	12,313.2	9,613.6	26.6	41.1	-89.77	2,703.2	-35.3	880.0	812.3	67.72	12.995	
12,500.0	9,615.7	12,413.2	9,613.4	27.4	41.7	-89.79	2,803.2	-35.4	880.0	811.0	69.02	12.750	
12,600.0	9,615.2	12,513.2	9,613.2	28.2	42.2	-89.80	2,903.2	-35.5	880.0	809.7	70.33	12.512	
12,700.0	9,614.8	12,613.2	9,613.0	29.0	42.7	-89.82	3,003.2	-35.6	880.0	808.4	71.66	12.281	
12,800.0	9,614.3	12,713.2	9,612.8	29.8	43.2	-89.84	3,103.2	-35.7	880.0	807.0	73.00	12.055	
12,900.0	9,613.9	12,813.2	9,612.6	30.6	43.8	-89.85	3,203.2	-35.8	880.0	805.7	74.36	11.835	
13,000.0	9,613.4	12,913.2	9,612.4	31.4	44.3	-89.87	3,303.2	-35.8	880.0	804.3	75.72	11.622	
13,100.0	9,613.0	13,013.2	9,612.3	32.3	44.9	-89.89	3,403.2	-35.9	880.0	802.9	77.10	11.414	
13,200.0	9,612.5	13,113.2	9,612.1	33.1	45.5	-89.91	3,503.2	-36.0	880.0	801.6	78.50	11.211	
13,300.0	9,612.1	13,213.2	9,611.9	33.9	46.1	-89.92	3,603.2	-36.1	880.1	800.2	79.90	11.015	
13,400.0	9,611.6	13,313.2	9,611.7	34.7	46.7	-89.94	3,703.2	-36.2	880.1	798.7	81.31	10.823	
13,500.0	9,611.2	13,413.2	9,611.5	35.5	47.3	-89.96	3,803.2	-36.3	880.1	797.3	82.74	10.637	
13,600.0	9,610.7	13,513.2	9,611.3	36.4	47.9	-89.97	3,903.2	-36.4	880.1	795.9	84.17	10.456	
13,700.0	9,610.3	13,613.2	9,611.2	37.2	48.5	-89.99	4,003.2	-36.5	880.1	794.5	85.61	10.280	
13,800.0	9,609.8	13,713.2	9,611.0	38.0	49.1	-90.01	4,103.2	-36.6	880.1	793.0	87.06	10.109	
13,900.0	9,609.4	13,813.2	9,610.8	38.8	49.7	-90.03	4,203.2	-36.6	880.1	791.5	88.52	9.942	
14,000.0	9,608.9	13,913.2	9,610.6	39.7	50.4	-90.04	4,303.2	-36.7	880.1	790.1	89.99	9.780	
14,100.0	9,608.5	14,013.2	9,610.4	40.5	51.0	-90.06	4,403.2	-36.8	880.1	788.6	91.46	9.622	
14,200.0	9,608.0	14,113.2	9,610.2	41.3	51.7	-90.08	4,503.2	-36.9	880.1	787.1	92.95	9.469	
14,205.4	9,608.0	14,118.7	9,610.2	41.4	51.7	-90.08	4,508.6	-36.9	880.1	787.1	93.03	9.460	
14,274.2	9,607.7	14,186.4	9,610.1	41.9	52.2	-90.09	4,576.3	-37.0	880.1	786.0	94.04	9.358	
14,300.0	9,607.6	14,206.1	9,610.1	42.1	52.3	-90.10	4,596.0	-37.1	880.1	785.7	94.37	9.326	
14,332.0	9,607.4	14,230.6	9,610.0	42.4	52.4	-90.10	4,620.5	-37.4	880.0	785.2	94.77	9.285	
14,360.3	9,607.3	14,255.9	9,610.0	42.6	52.6	-90.11	4,645.8	-37.9	880.0	784.8	95.17	9.247	
14,400.0	9,607.1	14,295.5	9,609.9	43.0	52.9	-90.11	4,685.5	-38.8	880.0	784.2	95.76	9.190	
14,500.0	9,606.7	14,395.5	9,609.7	43.8	53.5	-90.13	4,785.4	-40.9	880.0	782.7	97.27	9.047	
14,600.0	9,606.3	14,495.5	9,609.5	44.6	54.2	-90.15	4,885.4	-43.0	880.0	781.2	98.78	8.909	

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 #701H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3103.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3103.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #701H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP5	**Offset TVD Reference:**	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #702H - OWB - PWP5

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
14,700.0	9,605.8	14,595.5	9,609.3	45.5	54.9	-90.16	4,985.4	-45.1	880.0	779.7	100.29	8.774	
14,800.0	9,605.4	14,695.5	9,609.1	46.3	55.6	-90.18	5,085.4	-47.2	880.0	778.2	101.82	8.643	
14,900.0	9,605.0	14,795.5	9,609.0	47.2	56.3	-90.20	5,185.4	-49.3	880.0	776.6	103.35	8.515	
15,000.0	9,604.5	14,895.5	9,608.8	48.0	57.0	-90.21	5,285.3	-51.4	880.0	775.1	104.88	8.390	
15,100.0	9,604.1	14,995.5	9,608.6	48.8	57.7	-90.23	5,385.3	-53.5	880.0	773.6	106.42	8.269	
15,200.0	9,603.7	15,095.5	9,608.4	49.7	58.4	-90.24	5,485.3	-55.6	880.0	772.0	107.96	8.151	
15,300.0	9,603.2	15,195.5	9,608.2	50.5	59.1	-90.26	5,585.3	-57.7	880.0	770.5	109.51	8.035	
15,400.0	9,602.8	15,295.5	9,608.0	51.4	59.8	-90.28	5,685.2	-59.8	880.0	768.9	111.07	7.923	
15,500.0	9,602.3	15,395.5	9,607.8	52.2	60.5	-90.29	5,785.2	-61.9	880.0	767.3	112.63	7.813	
15,600.0	9,601.9	15,495.5	9,607.7	53.0	61.2	-90.31	5,885.2	-64.0	880.0	765.8	114.19	7.706	
15,700.0	9,601.5	15,595.5	9,607.5	53.9	61.9	-90.33	5,985.2	-66.1	880.0	764.2	115.76	7.602	
15,800.0	9,601.0	15,695.5	9,607.3	54.7	62.7	-90.34	6,085.2	-68.2	880.0	762.6	117.33	7.500	
15,900.0	9,600.6	15,795.5	9,607.1	55.6	63.4	-90.36	6,185.1	-70.3	880.0	761.1	118.90	7.401	
16,000.0	9,600.2	15,895.5	9,606.9	56.4	64.1	-90.38	6,285.1	-72.4	880.0	759.5	120.48	7.304	
16,100.0	9,599.7	15,995.5	9,606.7	57.3	64.9	-90.39	6,385.1	-74.5	880.0	757.9	122.07	7.209	
16,200.0	9,599.3	16,095.5	9,606.5	58.1	65.6	-90.41	6,485.1	-76.6	880.0	756.3	123.65	7.116	
16,300.0	9,598.8	16,195.5	9,606.4	59.0	66.4	-90.42	6,585.0	-78.7	880.0	754.7	125.24	7.026	
16,400.0	9,598.4	16,295.5	9,606.2	59.8	67.1	-90.44	6,685.0	-80.8	880.0	753.1	126.84	6.938	
16,500.0	9,598.0	16,395.5	9,606.0	60.7	67.8	-90.46	6,785.0	-82.9	880.0	751.5	128.43	6.852	
16,600.0	9,597.5	16,495.5	9,605.8	61.5	68.6	-90.47	6,885.0	-85.0	880.0	749.9	130.03	6.767	
16,700.0	9,597.1	16,595.5	9,605.6	62.4	69.3	-90.49	6,985.0	-87.1	880.0	748.3	131.63	6.685	
16,722.5	9,597.0	16,618.0	9,605.6	62.5	69.5	-90.49	7,007.5	-87.5	880.0	748.0	131.99	6.667	

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 #701H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3103.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3103.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #701H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP5	**Offset TVD Reference:**	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #703H - OWB - PWP2

Offset Site Error: 3.0 usft

Survey Program: 0-MWD+IFR1+FDIR

Offset Well Error: 3.0 usft

Reference 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	2.0	2.0	3.0	3.0	-90.26	-0.3	-60.0	60.0				
100.0	100.0	102.0	102.0	3.0	3.0	-90.26	-0.3	-60.0	60.0	54.0	6.00	9.993	
200.0	200.0	202.0	202.0	3.0	3.0	-90.26	-0.3	-60.0	60.0	53.9	6.04	9.930	
300.0	300.0	302.0	302.0	3.0	3.1	-90.26	-0.3	-60.0	60.0	53.9	6.12	9.798	
400.0	400.0	402.0	402.0	3.0	3.2	-90.26	-0.3	-60.0	60.0	53.7	6.24	9.609	
500.0	500.0	502.0	502.0	3.1	3.4	-90.26	-0.3	-60.0	60.0	53.6	6.40	9.374	
600.0	600.0	602.0	602.0	3.1	3.6	-90.26	-0.3	-60.0	60.0	53.4	6.59	9.107	
700.0	700.0	702.0	702.0	3.1	3.8	-90.26	-0.3	-60.0	60.0	53.2	6.80	8.819	
800.0	800.0	802.0	802.0	3.2	4.0	-90.26	-0.3	-60.0	60.0	52.9	7.04	8.520	
900.0	900.0	902.0	902.0	3.2	4.2	-90.26	-0.3	-60.0	60.0	52.7	7.30	8.219	
1,000.0	1,000.0	1,002.0	1,002.0	3.2	4.5	-90.26	-0.3	-60.0	60.0	52.4	7.57	7.921	
1,100.0	1,100.0	1,102.0	1,102.0	3.3	4.8	-90.26	-0.3	-60.0	60.0	52.1	7.86	7.630	
1,200.0	1,200.0	1,202.0	1,202.0	3.4	5.1	-90.26	-0.3	-60.0	60.0	51.8	8.16	7.348	
1,300.0	1,300.0	1,302.0	1,302.0	3.4	5.4	-90.26	-0.3	-60.0	60.0	51.5	8.48	7.078	
1,400.0	1,400.0	1,402.0	1,402.0	3.5	5.7	-90.26	-0.3	-60.0	60.0	51.2	8.80	6.820	
1,500.0	1,500.0	1,502.0	1,502.0	3.5	6.0	-90.26	-0.3	-60.0	60.0	50.9	9.12	6.575	
1,600.0	1,600.0	1,602.0	1,602.0	3.6	6.3	-90.26	-0.3	-60.0	60.0	50.5	9.46	6.342	
1,700.0	1,700.0	1,702.0	1,702.0	3.7	6.6	-90.26	-0.3	-60.0	60.0	50.2	9.80	6.121	
1,800.0	1,800.0	1,802.0	1,802.0	3.8	6.9	-90.26	-0.3	-60.0	60.0	49.8	10.15	5.912	
1,900.0	1,900.0	1,902.0	1,902.0	3.9	7.2	-90.26	-0.3	-60.0	60.0	49.5	10.50	5.714	
2,000.0	2,000.0	2,002.0	2,002.0	3.9	7.6	-90.26	-0.3	-60.0	60.0	49.1	10.85	5.527	
2,100.0	2,100.0	2,102.0	2,102.0	4.0	7.9	-90.26	-0.3	-60.0	60.0	48.8	11.21	5.350	
2,200.0	2,200.0	2,202.0	2,202.0	4.1	8.2	-90.26	-0.3	-60.0	60.0	48.4	11.58	5.182	
2,300.0	2,300.0	2,302.0	2,302.0	4.2	8.6	-90.26	-0.3	-60.0	60.0	48.0	11.94	5.023	
2,400.0	2,400.0	2,402.0	2,402.0	4.3	8.9	-90.26	-0.3	-60.0	60.0	47.7	12.31	4.872	
2,416.0	2,416.0	2,418.0	2,418.0	4.3	9.0	-90.26	-0.3	-60.0	60.0	47.6	12.37	4.849	CC
2,500.0	2,500.0	2,502.0	2,502.0	4.4	9.2	-90.26	-0.3	-60.0	60.0	47.3	12.68	4.729	ES, SF
2,600.0	2,600.0	2,600.0	2,600.0	4.4	9.6	154.71	-1.0	-61.6	63.2	50.1	13.04	4.847	
2,700.0	2,699.8	2,697.5	2,697.3	4.4	9.9	154.68	-3.1	-66.2	72.6	59.3	13.37	5.431	
2,750.0	2,749.7	2,745.8	2,745.5	4.4	10.0	154.66	-4.7	-69.5	79.7	66.1	13.54	5.885	
2,800.0	2,799.5	2,795.1	2,794.6	4.5	10.2	154.69	-6.5	-73.4	87.5	73.8	13.72	6.382	
2,900.0	2,899.1	2,893.8	2,892.9	4.5	10.5	154.72	-10.2	-81.2	103.3	89.2	14.08	7.335	
3,000.0	2,998.7	2,992.6	2,991.3	4.5	10.8	154.75	-13.8	-89.0	119.0	104.6	14.45	8.237	
3,100.0	3,098.4	3,091.3	3,089.7	4.5	11.1	154.77	-17.4	-96.8	134.8	120.0	14.83	9.089	
3,200.0	3,198.0	3,190.1	3,188.1	4.5	11.5	154.78	-21.1	-104.6	150.5	135.3	15.21	9.896	
3,300.0	3,297.6	3,288.8	3,286.5	4.5	11.8	154.80	-24.7	-112.4	166.3	150.7	15.60	10.660	
3,400.0	3,397.2	3,387.6	3,384.8	4.6	12.1	154.81	-28.4	-120.2	182.0	166.0	15.99	11.384	
3,500.0	3,496.8	3,486.3	3,483.2	4.6	12.5	154.82	-32.0	-128.0	197.8	181.4	16.39	12.069	
3,600.0	3,596.4	3,585.1	3,581.6	4.6	12.8	154.82	-35.6	-135.8	213.5	196.7	16.79	12.719	
3,700.0	3,696.1	3,683.8	3,680.0	4.7	13.1	154.83	-39.3	-143.6	229.3	212.1	17.19	13.336	
3,800.0	3,795.7	3,782.6	3,778.3	4.7	13.5	154.83	-42.9	-151.4	245.0	227.4	17.60	13.921	
3,900.0	3,895.3	3,881.3	3,876.7	4.8	13.8	154.84	-46.5	-159.2	260.8	242.8	18.01	14.476	
4,000.0	3,994.9	3,980.1	3,975.1	4.8	14.2	154.84	-50.2	-167.0	276.5	258.1	18.43	15.004	
4,100.0	4,094.5	4,078.8	4,073.5	4.9	14.5	154.85	-53.8	-174.8	292.3	273.4	18.85	15.506	
4,200.0	4,194.2	4,177.6	4,171.8	4.9	14.8	154.85	-57.5	-182.6	308.0	288.7	19.27	15.984	
4,300.0	4,293.8	4,276.3	4,270.2	5.0	15.2	154.85	-61.1	-190.4	323.8	304.1	19.70	16.439	
4,400.0	4,393.4	4,375.1	4,368.6	5.1	15.5	154.86	-64.7	-198.2	339.5	319.4	20.12	16.872	
4,500.0	4,493.0	4,473.8	4,467.0	5.1	15.9	154.86	-68.4	-206.0	355.3	334.7	20.55	17.285	
4,600.0	4,592.6	4,572.6	4,565.3	5.2	16.2	154.86	-72.0	-213.8	371.0	350.0	20.99	17.679	
4,700.0	4,692.3	4,671.3	4,663.7	5.3	16.5	154.86	-75.6	-221.6	386.8	365.3	21.42	18.055	
4,800.0	4,791.9	4,770.1	4,762.1	5.4	16.9	154.87	-79.3	-229.4	402.5	380.6	21.86	18.414	

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 #701H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3103.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3103.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #701H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP5	**Offset TVD Reference:**	Offset Datum

Offset Design POTATO BABY STATE PROJECT (ATLAS 2628) - POTATO BABY ST COM #703H - OWB - PWP2

Offset Site Error: 3.0 usft

Survey Program: 0-MWD+IFR1+FDIR

Offset Well Error: 3.0 usft

Reference 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
4,900.0	4,891.5	4,868.9	4,860.5	5.4	17.2	154.87	-82.9	-237.2	418.3	396.0	22.30	18.758	
5,000.0	4,991.1	4,967.6	4,958.8	5.5	17.6	154.87	-86.6	-245.0	434.0	411.3	22.74	19.086	
5,100.0	5,090.7	5,066.4	5,057.2	5.6	17.9	154.87	-90.2	-252.8	449.8	426.6	23.18	19.401	
5,200.0	5,190.4	5,165.1	5,155.6	5.7	18.3	154.87	-93.8	-260.6	465.5	441.9	23.63	19.702	
5,300.0	5,290.0	5,263.9	5,254.0	5.8	18.6	154.87	-97.5	-268.4	481.2	457.2	24.07	19.990	
5,400.0	5,389.6	5,362.6	5,352.4	5.8	19.0	154.88	-101.1	-276.2	497.0	472.5	24.52	20.267	
5,500.0	5,489.2	5,461.4	5,450.7	5.9	19.3	154.88	-104.7	-284.0	512.7	487.8	24.97	20.533	
5,600.0	5,588.8	5,560.1	5,549.1	6.0	19.7	154.88	-108.4	-291.8	528.5	503.1	25.42	20.787	
5,700.0	5,688.5	5,658.9	5,647.5	6.1	20.0	154.88	-112.0	-299.6	544.2	518.4	25.88	21.032	
5,800.0	5,788.1	5,757.6	5,745.9	6.2	20.4	154.88	-115.7	-307.4	560.0	533.7	26.33	21.268	
5,900.0	5,887.7	5,856.4	5,844.2	6.3	20.7	154.88	-119.3	-315.2	575.7	549.0	26.79	21.494	
6,000.0	5,987.3	5,955.1	5,942.6	6.4	21.1	154.88	-122.9	-323.0	591.5	564.2	27.24	21.712	
6,100.0	6,086.9	6,053.9	6,041.0	6.5	21.4	154.88	-126.6	-330.8	607.2	579.5	27.70	21.921	
6,200.0	6,186.6	6,152.6	6,139.4	6.6	21.8	154.88	-130.2	-338.6	623.0	594.8	28.16	22.123	
6,300.0	6,286.2	6,251.4	6,237.7	6.7	22.1	154.89	-133.8	-346.4	638.7	610.1	28.62	22.318	
6,400.0	6,385.8	6,350.1	6,336.1	6.8	22.5	154.89	-137.5	-354.2	654.5	625.4	29.08	22.505	
6,500.0	6,485.4	6,448.9	6,434.5	6.9	22.8	154.89	-141.1	-362.0	670.2	640.7	29.54	22.686	
6,600.0	6,585.0	6,547.6	6,532.9	7.0	23.2	154.89	-144.8	-369.8	686.0	656.0	30.01	22.861	
6,700.0	6,684.7	6,646.4	6,631.2	7.1	23.5	154.89	-148.4	-377.6	701.7	671.3	30.47	23.029	
6,800.0	6,784.3	6,745.1	6,729.6	7.2	23.9	154.89	-152.0	-385.4	717.5	686.5	30.94	23.192	
6,900.0	6,883.9	6,843.9	6,828.0	7.3	24.3	154.89	-155.7	-393.2	733.2	701.8	31.40	23.350	
7,000.0	6,983.5	6,942.6	6,926.4	7.4	24.6	154.89	-159.3	-401.0	749.0	717.1	31.87	23.502	
7,100.0	7,083.1	7,041.4	7,024.8	7.5	25.0	154.89	-162.9	-408.8	764.7	732.4	32.34	23.649	
7,200.0	7,182.7	7,140.2	7,123.1	7.6	25.3	154.89	-166.6	-416.6	780.5	747.7	32.81	23.791	
7,300.0	7,282.4	7,238.9	7,221.5	7.7	25.7	154.89	-170.2	-424.4	796.2	762.9	33.27	23.929	
7,400.0	7,382.0	7,337.7	7,319.9	7.8	26.0	154.89	-173.9	-432.2	812.0	778.2	33.74	24.062	
7,500.0	7,481.6	7,436.4	7,418.3	7.9	26.4	154.89	-177.5	-440.0	827.7	793.5	34.22	24.192	
7,600.0	7,581.2	7,535.2	7,516.6	8.0	26.7	154.89	-181.1	-447.8	843.5	808.8	34.69	24.317	
7,700.0	7,680.8	7,633.9	7,615.0	8.2	27.1	154.89	-184.8	-455.6	859.2	824.1	35.16	24.438	
7,800.0	7,780.5	7,732.7	7,713.4	8.3	27.4	154.89	-188.4	-463.5	875.0	839.3	35.63	24.556	
7,900.0	7,880.1	7,831.4	7,811.8	8.4	27.8	154.89	-192.0	-471.3	890.7	854.6	36.10	24.670	
8,000.0	7,979.7	7,930.2	7,910.1	8.5	28.2	154.89	-195.7	-479.1	906.5	869.9	36.58	24.781	
8,100.0	8,079.3	8,028.9	8,008.5	8.6	28.5	154.89	-199.3	-486.9	922.2	885.2	37.05	24.888	
8,200.0	8,178.9	8,127.7	8,106.9	8.7	28.9	154.89	-203.0	-494.7	938.0	900.4	37.53	24.993	
8,300.0	8,278.6	8,226.4	8,205.3	8.8	29.2	154.90	-206.6	-502.5	953.7	915.7	38.00	25.094	
8,400.0	8,378.2	8,325.2	8,303.6	8.9	29.6	154.90	-210.2	-510.3	969.5	931.0	38.48	25.193	
8,500.0	8,477.8	8,423.9	8,402.0	9.1	29.9	154.90	-213.9	-518.1	985.2	946.2	38.96	25.289	

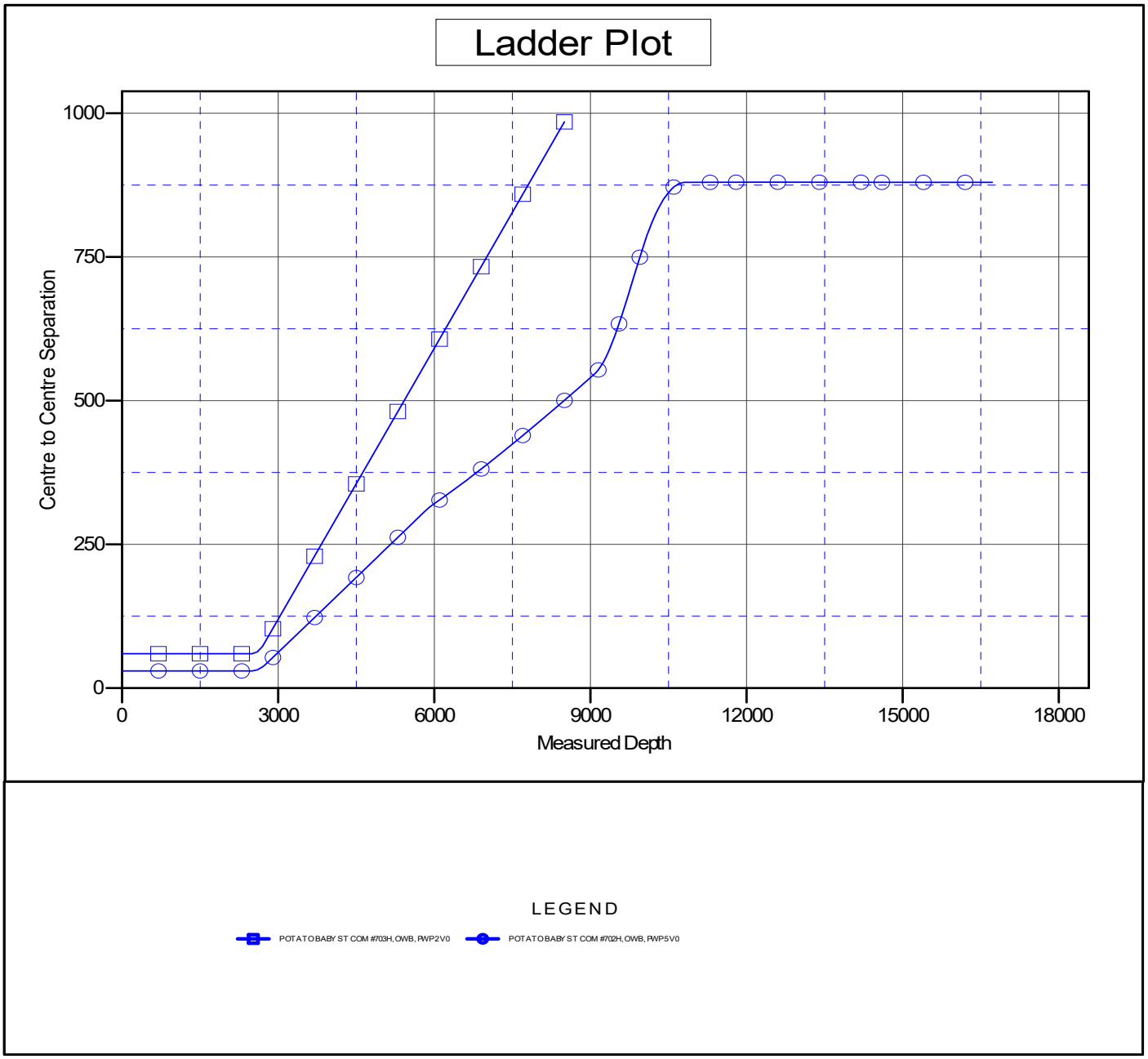
Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #701H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3103.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3103.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #701H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP5	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to *KB=30' @ 3103.0usft (TBD)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: POTATO BABY ST COM #701H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.14°



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

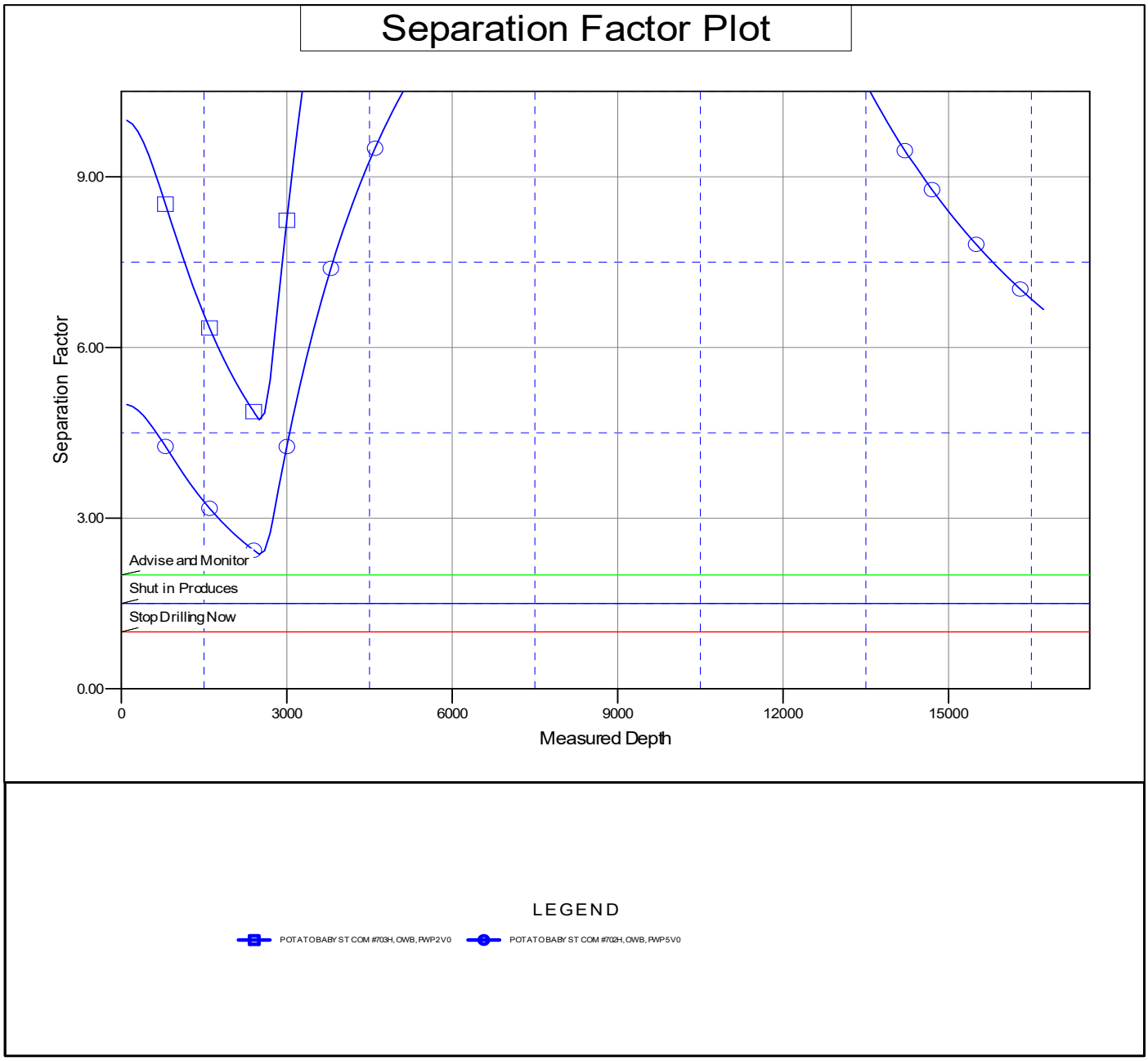
Concho Resources LLC

Anticollision Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #701H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3103.0usft (TBD)
Reference Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3103.0usft (TBD)
Site Error:	3.0 usft	**North Reference:**	Grid
Reference Well:	POTATO BABY ST COM #701H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	3.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	edm
Reference Design:	PWP5	**Offset TVD Reference:**	Offset Datum

Reference Depths are relative to *KB=30' @ 3103.0usft (TBD)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: POTATO BABY ST COM #701H
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 #701H

OWB

Plan: PWP5

Standard Survey Report

10 September, 2020

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #701H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3103.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3103.0usft (TBD)
Well:	POTATO BABY ST COM #701H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP5	**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 #701H

Well Position	**+N/-S**	0.0 usft	**Northing:**	364,083.06 usft	**Latitude:**	32° 0' 2.537 N
	+E/-W	0.0 usft	**Easting:**	581,591.89 usft	**Longitude:**	104° 4' 12.459 W
Position Uncertainty		3.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,073.0 usft

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	7/21/2020	6.86	59.65	47,405.57865953

Design PWP5

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	6.43

Survey Tool Program **Date** 9/10/2020

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	8,968.0	PWP5 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
8,968.0	16,722.5	PWP5 (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 #701H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3103.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3103.0usft (TBD)
Well:	POTATO BABY ST COM #701H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP5	**Database:**	edm

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,600.0	2.00	115.00	2,600.0	-0.7	1.6	-0.6	2.00	2.00	0.00
2,700.0	4.00	115.00	2,699.8	-2.9	6.3	-2.2	2.00	2.00	0.00
2,750.0	5.00	115.00	2,749.7	-4.6	9.9	-3.5	2.00	2.00	0.00
Start 6323.5 hold at 2750.0 MD									
2,800.0	5.00	115.00	2,799.5	-6.4	13.8	-4.9	0.00	0.00	0.00
2,900.0	5.00	115.00	2,899.1	-10.1	21.7	-7.6	0.00	0.00	0.00
3,000.0	5.00	115.00	2,998.7	-13.8	29.6	-10.4	0.00	0.00	0.00
3,100.0	5.00	115.00	3,098.4	-17.5	37.5	-13.2	0.00	0.00	0.00
3,200.0	5.00	115.00	3,198.0	-21.2	45.4	-16.0	0.00	0.00	0.00
3,300.0	5.00	115.00	3,297.6	-24.9	53.3	-18.7	0.00	0.00	0.00
3,400.0	5.00	115.00	3,397.2	-28.5	61.2	-21.5	0.00	0.00	0.00
3,500.0	5.00	115.00	3,496.8	-32.2	69.1	-24.3	0.00	0.00	0.00
3,600.0	5.00	115.00	3,596.4	-35.9	77.0	-27.1	0.00	0.00	0.00
3,700.0	5.00	115.00	3,696.1	-39.6	84.9	-29.8	0.00	0.00	0.00
3,800.0	5.00	115.00	3,795.7	-43.3	92.8	-32.6	0.00	0.00	0.00
3,900.0	5.00	115.00	3,895.3	-47.0	100.7	-35.4	0.00	0.00	0.00
4,000.0	5.00	115.00	3,994.9	-50.6	108.6	-38.2	0.00	0.00	0.00
4,100.0	5.00	115.00	4,094.5	-54.3	116.5	-40.9	0.00	0.00	0.00
4,200.0	5.00	115.00	4,194.2	-58.0	124.4	-43.7	0.00	0.00	0.00
4,300.0	5.00	115.00	4,293.8	-61.7	132.3	-46.5	0.00	0.00	0.00
4,400.0	5.00	115.00	4,393.4	-65.4	140.2	-49.3	0.00	0.00	0.00
4,500.0	5.00	115.00	4,493.0	-69.1	148.1	-52.0	0.00	0.00	0.00
4,600.0	5.00	115.00	4,592.6	-72.7	156.0	-54.8	0.00	0.00	0.00
4,700.0	5.00	115.00	4,692.3	-76.4	163.9	-57.6	0.00	0.00	0.00
4,800.0	5.00	115.00	4,791.9	-80.1	171.8	-60.4	0.00	0.00	0.00
4,900.0	5.00	115.00	4,891.5	-83.8	179.7	-63.1	0.00	0.00	0.00
5,000.0	5.00	115.00	4,991.1	-87.5	187.6	-65.9	0.00	0.00	0.00
5,100.0	5.00	115.00	5,090.7	-91.2	195.5	-68.7	0.00	0.00	0.00
5,200.0	5.00	115.00	5,190.4	-94.8	203.4	-71.5	0.00	0.00	0.00
5,300.0	5.00	115.00	5,290.0	-98.5	211.3	-74.2	0.00	0.00	0.00
5,400.0	5.00	115.00	5,389.6	-102.2	219.2	-77.0	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #701H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3103.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3103.0usft (TBD)
Well:	POTATO BABY ST COM #701H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP5	**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)
5,500.0	5.00	115.00	5,489.2	-105.9	227.1	-79.8	0.00	0.00	0.00
5,600.0	5.00	115.00	5,588.8	-109.6	235.0	-82.6	0.00	0.00	0.00
5,700.0	5.00	115.00	5,688.5	-113.3	242.9	-85.3	0.00	0.00	0.00
5,800.0	5.00	115.00	5,788.1	-116.9	250.8	-88.1	0.00	0.00	0.00
5,900.0	5.00	115.00	5,887.7	-120.6	258.7	-90.9	0.00	0.00	0.00
6,000.0	5.00	115.00	5,987.3	-124.3	266.6	-93.7	0.00	0.00	0.00
6,100.0	5.00	115.00	6,086.9	-128.0	274.5	-96.4	0.00	0.00	0.00
6,200.0	5.00	115.00	6,186.6	-131.7	282.4	-99.2	0.00	0.00	0.00
6,300.0	5.00	115.00	6,286.2	-135.4	290.3	-102.0	0.00	0.00	0.00
6,400.0	5.00	115.00	6,385.8	-139.0	298.2	-104.8	0.00	0.00	0.00
6,500.0	5.00	115.00	6,485.4	-142.7	306.1	-107.5	0.00	0.00	0.00
6,600.0	5.00	115.00	6,585.0	-146.4	314.0	-110.3	0.00	0.00	0.00
6,700.0	5.00	115.00	6,684.7	-150.1	321.9	-113.1	0.00	0.00	0.00
6,800.0	5.00	115.00	6,784.3	-153.8	329.8	-115.9	0.00	0.00	0.00
6,900.0	5.00	115.00	6,883.9	-157.5	337.7	-118.6	0.00	0.00	0.00
7,000.0	5.00	115.00	6,983.5	-161.1	345.6	-121.4	0.00	0.00	0.00
7,100.0	5.00	115.00	7,083.1	-164.8	353.5	-124.2	0.00	0.00	0.00
7,200.0	5.00	115.00	7,182.7	-168.5	361.4	-127.0	0.00	0.00	0.00
7,300.0	5.00	115.00	7,282.4	-172.2	369.3	-129.7	0.00	0.00	0.00
7,400.0	5.00	115.00	7,382.0	-175.9	377.2	-132.5	0.00	0.00	0.00
7,500.0	5.00	115.00	7,481.6	-179.6	385.1	-135.3	0.00	0.00	0.00
7,600.0	5.00	115.00	7,581.2	-183.3	393.0	-138.1	0.00	0.00	0.00
7,700.0	5.00	115.00	7,680.8	-186.9	400.9	-140.8	0.00	0.00	0.00
7,800.0	5.00	115.00	7,780.5	-190.6	408.8	-143.6	0.00	0.00	0.00
7,900.0	5.00	115.00	7,880.1	-194.3	416.7	-146.4	0.00	0.00	0.00
8,000.0	5.00	115.00	7,979.7	-198.0	424.6	-149.2	0.00	0.00	0.00
8,100.0	5.00	115.00	8,079.3	-201.7	432.5	-151.9	0.00	0.00	0.00
8,200.0	5.00	115.00	8,178.9	-205.4	440.4	-154.7	0.00	0.00	0.00
8,300.0	5.00	115.00	8,278.6	-209.0	448.3	-157.5	0.00	0.00	0.00
8,400.0	5.00	115.00	8,378.2	-212.7	456.2	-160.3	0.00	0.00	0.00
8,500.0	5.00	115.00	8,477.8	-216.4	464.1	-163.0	0.00	0.00	0.00
8,600.0	5.00	115.00	8,577.4	-220.1	472.0	-165.8	0.00	0.00	0.00
8,700.0	5.00	115.00	8,677.0	-223.8	479.9	-168.6	0.00	0.00	0.00
8,800.0	5.00	115.00	8,776.7	-227.5	487.8	-171.4	0.00	0.00	0.00
8,900.0	5.00	115.00	8,876.3	-231.1	495.7	-174.1	0.00	0.00	0.00
9,000.0	5.00	115.00	8,975.9	-234.8	503.6	-176.9	0.00	0.00	0.00
9,073.5	5.00	115.00	9,049.1	-237.5	509.4	-179.0	0.00	0.00	0.00
Start DLS 10.00 TFO -98.21									
9,100.0	5.31	85.36	9,075.5	-237.9	511.6	-179.1	10.00	1.18	-111.77
9,200.0	12.91	38.96	9,174.3	-228.8	523.3	-168.8	10.00	7.59	-46.40
9,300.0	22.46	28.85	9,269.5	-203.3	539.6	-141.6	10.00	9.55	-10.11
9,400.0	32.28	24.64	9,358.2	-162.2	560.0	-98.5	10.00	9.82	-4.21
9,500.0	42.17	22.25	9,437.7	-106.8	583.9	-40.7	10.00	9.90	-2.39
9,600.0	52.10	20.63	9,505.7	-38.6	610.6	30.1	10.00	9.93	-1.62

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #701H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3103.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3103.0usft (TBD)
Well:	POTATO BABY ST COM #701H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP5	**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	62.05	19.40	9,559.9	40.2	639.2	111.6	10.00	9.95	-1.23
9,800.0	72.01	18.37	9,598.9	127.2	668.9	201.4	10.00	9.96	-1.02
9,900.0	81.97	17.46	9,621.4	219.8	698.9	296.7	10.00	9.96	-0.91
9,983.2	90.26	16.74	9,627.0	299.1	723.3	378.3	10.00	9.96	-0.87
Start DLS 2.00 TFO -89.97									
10,000.0	90.26	16.40	9,627.0	315.2	728.0	394.8	2.00	0.00	-2.00
10,100.0	90.26	14.40	9,626.5	411.6	754.6	493.5	2.00	0.00	-2.00
10,200.0	90.26	12.40	9,626.1	508.8	777.8	592.8	2.00	0.00	-2.00
10,300.0	90.26	10.40	9,625.6	606.9	797.6	692.4	2.00	0.00	-2.00
10,400.0	90.26	8.40	9,625.1	705.5	813.9	792.3	2.00	0.00	-2.00
10,500.0	90.26	6.40	9,624.7	804.7	826.8	892.2	2.00	0.00	-2.00
10,600.0	90.26	4.40	9,624.2	904.2	836.2	992.2	2.00	0.00	-2.00
10,700.0	90.26	2.40	9,623.8	1,004.0	842.2	1,092.1	2.00	0.00	-2.00
10,800.0	90.26	0.40	9,623.3	1,104.0	844.6	1,191.7	2.00	0.00	-2.00
10,817.7	90.26	0.05	9,623.2	1,121.7	844.7	1,209.3	2.00	0.00	-2.00
Start 806.3 hold at 10817.7 MD									
10,900.0	90.26	0.05	9,622.9	1,204.0	844.7	1,291.1	0.00	0.00	0.00
11,000.0	90.26	0.05	9,622.4	1,304.0	844.8	1,390.4	0.00	0.00	0.00
11,100.0	90.26	0.05	9,622.0	1,404.0	844.9	1,489.8	0.00	0.00	0.00
11,200.0	90.26	0.05	9,621.5	1,504.0	845.0	1,589.2	0.00	0.00	0.00
11,300.0	90.26	0.05	9,621.1	1,604.0	845.1	1,688.6	0.00	0.00	0.00
11,400.0	90.26	0.05	9,620.6	1,704.0	845.2	1,788.0	0.00	0.00	0.00
11,500.0	90.26	0.05	9,620.2	1,804.0	845.3	1,887.3	0.00	0.00	0.00
11,600.0	90.26	0.05	9,619.7	1,904.0	845.4	1,986.7	0.00	0.00	0.00
11,624.0	90.26	0.05	9,619.6	1,928.0	845.4	2,010.6	0.00	0.00	0.00
Start DLS 2.00 TFO -90.80									
11,629.0	90.26	359.95	9,619.6	1,933.0	845.4	2,015.6	2.00	-0.03	-2.00
Start 2645.2 hold at 11629.0 MD									
11,700.0	90.26	359.95	9,619.3	2,004.0	845.3	2,086.1	0.00	0.00	0.00
11,800.0	90.26	359.95	9,618.8	2,104.0	845.2	2,185.4	0.00	0.00	0.00
11,900.0	90.26	359.95	9,618.4	2,204.0	845.1	2,284.8	0.00	0.00	0.00
12,000.0	90.26	359.95	9,617.9	2,304.0	845.1	2,384.2	0.00	0.00	0.00
12,100.0	90.26	359.95	9,617.5	2,404.0	845.0	2,483.5	0.00	0.00	0.00
12,200.0	90.26	359.95	9,617.0	2,504.0	844.9	2,582.9	0.00	0.00	0.00
12,300.0	90.26	359.95	9,616.6	2,604.0	844.8	2,682.2	0.00	0.00	0.00
12,400.0	90.26	359.95	9,616.1	2,704.0	844.7	2,781.6	0.00	0.00	0.00
12,500.0	90.26	359.95	9,615.7	2,804.0	844.6	2,881.0	0.00	0.00	0.00
12,600.0	90.26	359.95	9,615.2	2,904.0	844.5	2,980.3	0.00	0.00	0.00
12,700.0	90.26	359.95	9,614.8	3,004.0	844.5	3,079.7	0.00	0.00	0.00
12,800.0	90.26	359.95	9,614.3	3,104.0	844.4	3,179.0	0.00	0.00	0.00
12,900.0	90.26	359.95	9,613.9	3,204.0	844.3	3,278.4	0.00	0.00	0.00
13,000.0	90.26	359.95	9,613.4	3,304.0	844.2	3,377.8	0.00	0.00	0.00
13,100.0	90.26	359.95	9,613.0	3,404.0	844.1	3,477.1	0.00	0.00	0.00
13,200.0	90.26	359.95	9,612.5	3,504.0	844.0	3,576.5	0.00	0.00	0.00

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #701H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3103.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3103.0usft (TBD)
Well:	POTATO BABY ST COM #701H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP5	**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)
13,300.0	90.26	359.95	9,612.1	3,604.0	843.9	3,675.8	0.00	0.00	0.00
13,400.0	90.26	359.95	9,611.6	3,704.0	843.9	3,775.2	0.00	0.00	0.00
13,500.0	90.26	359.95	9,611.2	3,804.0	843.8	3,874.6	0.00	0.00	0.00
13,600.0	90.26	359.95	9,610.7	3,904.0	843.7	3,973.9	0.00	0.00	0.00
13,700.0	90.26	359.95	9,610.3	4,004.0	843.6	4,073.3	0.00	0.00	0.00
13,800.0	90.26	359.95	9,609.8	4,104.0	843.5	4,172.6	0.00	0.00	0.00
13,900.0	90.26	359.95	9,609.4	4,204.0	843.4	4,272.0	0.00	0.00	0.00
14,000.0	90.26	359.95	9,608.9	4,304.0	843.3	4,371.4	0.00	0.00	0.00
14,100.0	90.26	359.95	9,608.5	4,404.0	843.3	4,470.7	0.00	0.00	0.00
14,200.0	90.26	359.95	9,608.0	4,504.0	843.2	4,570.1	0.00	0.00	0.00
14,274.2	90.26	359.95	9,607.7	4,578.2	843.1	4,643.8	0.00	0.00	0.00
Start DLS 2.00 TFO -90.34									
14,300.0	90.25	359.44	9,607.6	4,604.0	843.0	4,669.4	2.00	-0.01	-2.00
14,332.0	90.25	358.80	9,607.4	4,636.0	842.5	4,701.2	2.00	-0.01	-2.00
Start 2390.5 hold at 14332.0 MD									
14,400.0	90.25	358.80	9,607.1	4,703.9	841.0	4,768.6	0.00	0.00	0.00
14,500.0	90.25	358.80	9,606.7	4,803.9	838.9	4,867.7	0.00	0.00	0.00
14,600.0	90.25	358.80	9,606.3	4,903.9	836.8	4,966.8	0.00	0.00	0.00
14,700.0	90.25	358.80	9,605.8	5,003.9	834.7	5,065.9	0.00	0.00	0.00
14,800.0	90.25	358.80	9,605.4	5,103.9	832.6	5,165.0	0.00	0.00	0.00
14,900.0	90.25	358.80	9,605.0	5,203.8	830.5	5,264.1	0.00	0.00	0.00
15,000.0	90.25	358.80	9,604.5	5,303.8	828.4	5,363.2	0.00	0.00	0.00
15,100.0	90.25	358.80	9,604.1	5,403.8	826.3	5,462.3	0.00	0.00	0.00
15,200.0	90.25	358.80	9,603.7	5,503.8	824.2	5,561.5	0.00	0.00	0.00
15,300.0	90.25	358.80	9,603.2	5,603.7	822.1	5,660.6	0.00	0.00	0.00
15,400.0	90.25	358.80	9,602.8	5,703.7	820.0	5,759.7	0.00	0.00	0.00
15,500.0	90.25	358.80	9,602.3	5,803.7	817.9	5,858.8	0.00	0.00	0.00
15,600.0	90.25	358.80	9,601.9	5,903.7	815.8	5,957.9	0.00	0.00	0.00
15,700.0	90.25	358.80	9,601.5	6,003.6	813.7	6,057.0	0.00	0.00	0.00
15,800.0	90.25	358.80	9,601.0	6,103.6	811.6	6,156.1	0.00	0.00	0.00
15,900.0	90.25	358.80	9,600.6	6,203.6	809.5	6,255.2	0.00	0.00	0.00
16,000.0	90.25	358.80	9,600.2	6,303.6	807.4	6,354.3	0.00	0.00	0.00
16,100.0	90.25	358.80	9,599.7	6,403.6	805.3	6,453.5	0.00	0.00	0.00
16,200.0	90.25	358.80	9,599.3	6,503.5	803.2	6,552.6	0.00	0.00	0.00
16,300.0	90.25	358.80	9,598.8	6,603.5	801.1	6,651.7	0.00	0.00	0.00
16,400.0	90.25	358.80	9,598.4	6,703.5	799.0	6,750.8	0.00	0.00	0.00
16,500.0	90.25	358.80	9,598.0	6,803.5	796.9	6,849.9	0.00	0.00	0.00
16,600.0	90.25	358.80	9,597.5	6,903.4	794.8	6,949.0	0.00	0.00	0.00
16,700.0	90.25	358.80	9,597.1	7,003.4	792.7	7,048.1	0.00	0.00	0.00
16,722.5	90.25	358.80	9,597.0	7,025.9	792.2	7,070.4	0.00	0.00	0.00
TD at 16722.5									

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	**Local Co-ordinate Reference:**	Well POTATO BABY ST COM #701H
Project:	ATLAS PROSPECT (NM-E)	**TVD Reference:**	*KB=30' @ 3103.0usft (TBD)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)	**MD Reference:**	*KB=30' @ 3103.0usft (TBD)
Well:	POTATO BABY ST COM #701H	**North Reference:**	Grid
Wellbore:	OWB	**Survey Calculation Method:**	Minimum Curvature
Design:	PWP5	**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
PBHL (POTATO BAB - plan hits target center - Rectangle (sides W100.0 H2,450.0 D20.0)	0.26	178.79	9,597.0	7,025.9	792.2	371,108.98	582,384.09	32° 1' 12.051 N	104° 4' 3.059 W
LTP (POTATO BABY - plan misses target center by 0.6usft at 16592.5usft MD (9597.6 TVD, 6896.0 N, 794.9 E) - Point	0.00	0.01	9,597.0	6,896.0	794.9	370,979.02	582,386.79	32° 1' 10.765 N	104° 4' 3.031 W
T2 (POTATO BABY S - plan hits target center - Rectangle (sides W100.0 H2,650.0 D20.0)	0.26	179.95	9,607.7	4,578.2	843.1	368,661.26	582,434.99	32° 0' 47.826 N	104° 4' 2.537 W
T1 (POTATO BABY S - plan hits target center - Rectangle (sides W100.0 H2,150.0 D20.0)	0.26	180.05	9,619.6	1,928.0	845.4	366,011.07	582,437.28	32° 0' 21.598 N	104° 4' 2.587 W
FTP (POTATO BABY - plan misses target center by 208.8usft at 9791.2usft MD (9596.1 TVD, 119.3 N, 666.3 E) - Circle (radius 50.0)	0.00	0.00	9,647.0	33.8	849.9	364,116.86	582,441.79	32° 0' 2.851 N	104° 4' 2.588 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
2500	2500	0	0	Start Build 2.00
2750	2750	-5	10	Start 6323.5 hold at 2750.0 MD
9073	9049	-238	509	Start DLS 10.00 TFO -98.21
9983	9627	299	723	Start DLS 2.00 TFO -89.97
10,818	9623	1122	845	Start 806.3 hold at 10817.7 MD
11,624	9620	1928	845	Start DLS 2.00 TFO -90.80
11,629	9620	1933	845	Start 2645.2 hold at 11629.0 MD
14,274	9608	4578	843	Start DLS 2.00 TFO -90.34
14,332	9607	4636	842	Start 2390.5 hold at 14332.0 MD
16,723	9597	7026	792	TD at 16722.5

Checked By: _____ Approved By: _____ Date: _____

CONCHO

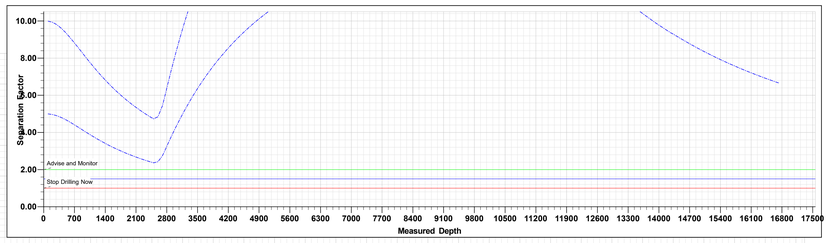
Project:	ATLAS PROSPECT (NM-E)
Site:	POTATO BABY STATE PROJECT (ATLAS 2628)
Well:	POTATO BABY ST COM #701H
Wellbore:	OWB
Design:	PWP5
GL:	3073.0
*KB=30' @ 3103.0usft (TBD)	

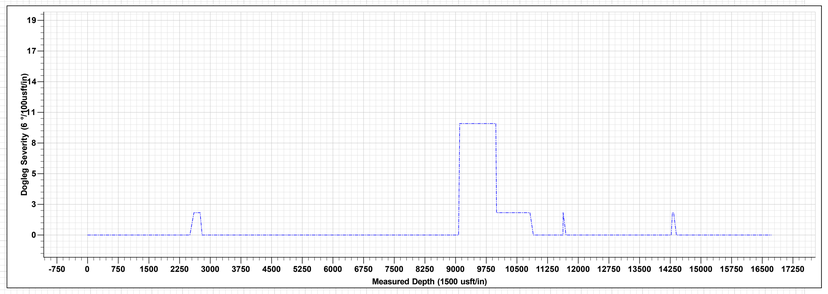
WELL DETAILS: POTATO BABY ST COM #701H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	364083.06	581591.89	32° 0' 2.537 N	104° 4' 12.459 W

DESIGN TARGET DETAILS

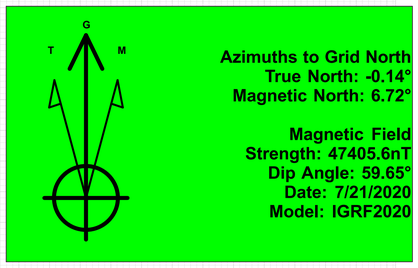
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LTP (POTATO BABY ST COM #701H)	9597.0	6896.0	794.9	370979.02	582386.79	32° 1' 10.765 N	104° 4' 3.031 W
PBHL (POTATO BABY ST COM #701H)	9597.0	7025.9	792.2	371108.98	582384.09	32° 1' 12.051 N	104° 4' 3.059 W
T2 (POTATO BABY ST COM #701H)	9607.7	4578.2	843.1	368661.26	582434.99	32° 0' 47.826 N	104° 4' 2.537 W
T1 (POTATO BABY ST COM #701H)	9619.6	1928.0	845.4	366011.07	582437.27	32° 0' 21.598 N	104° 4' 2.587 W
FTP (POTATO BABY ST COM #701H)	9647.0	33.8	849.9	364116.86	582441.79	32° 0' 2.851 N	104° 4' 2.588 W





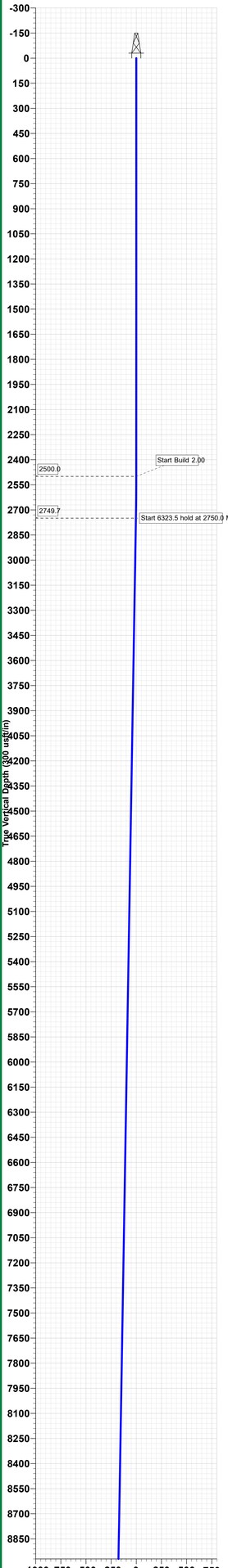
POTATO BABY ST COM #701H

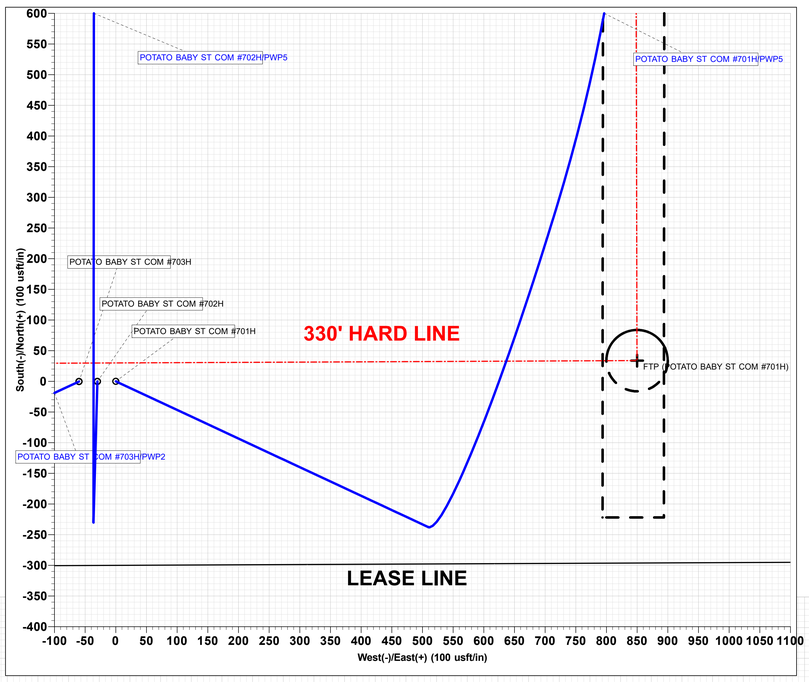
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2750.0	5.00	115.00	2749.7	-4.6	9.9	2.00	115.00	-3.5	Start 6323.5 hold at 2750.0 MD
9073.5	5.00	115.00	9049.1	-237.5	509.4	0.00	0.00	-179.0	Start DLS 10.00 TFO -98.21
9983.2	90.26	16.74	9627.0	299.1	723.3	10.00	-98.21	378.3	Start DLS 2.00 TFO -89.97
10817.7	90.26	0.05	9623.2	1121.7	844.7	2.00	-89.97	1209.3	Start 806.3 hold at 10817.7 MD
11624.0	90.26	0.05	9619.6	1928.0	845.4	0.00	0.00	2010.6	Start DLS 2.00 TFO -90.80
11629.0	90.26	359.95	9619.6	1933.0	845.4	2.00	-90.80	2015.6	Start 2645.2 hold at 11629.0 MD
14274.2	90.26	359.95	9607.7	4578.2	843.1	0.00	0.00	4643.8	Start DLS 2.00 TFO -90.34
14332.0	90.25	358.80	9607.4	4636.0	842.5	2.00	-90.34	4701.2	Start 2390.5 hold at 14332.0 MD
16722.5	90.25	358.80	9597.0	7025.9	792.2	0.00	0.00	7070.4	TD at 16722.5

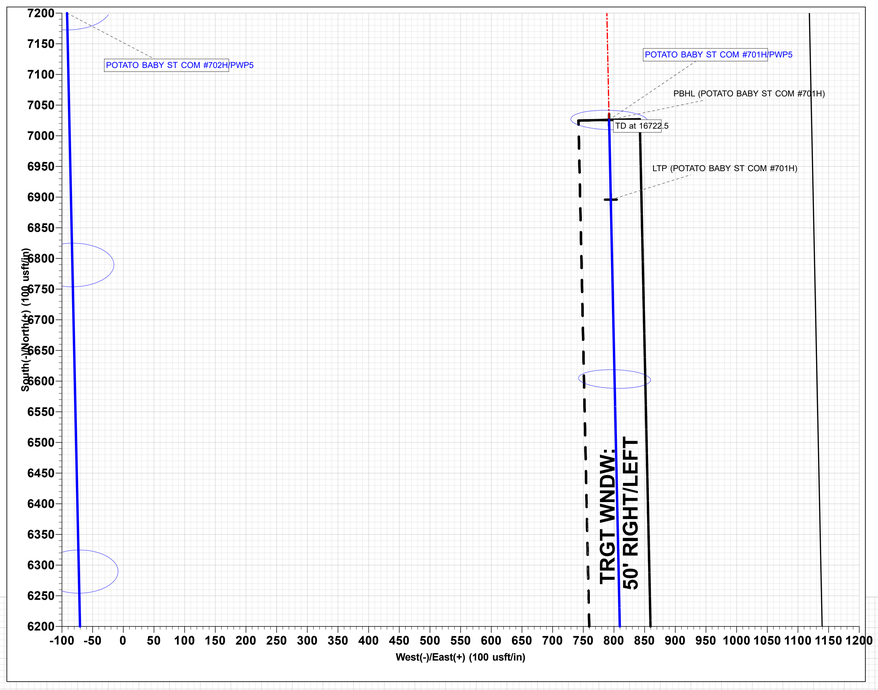


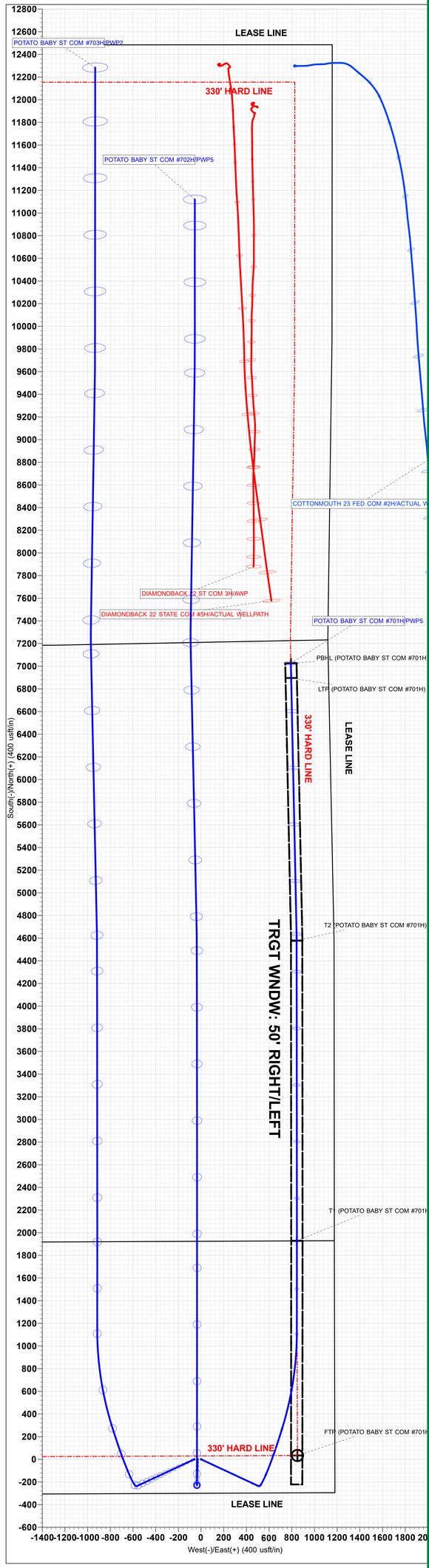
Azimuths to Grid North
True North: -0.14°
Magnetic North: 6.72°

Magnetic Field
Strength: 47405.6nT
Dip Angle: 59.65°
Date: 7/21/2020
Model: IGRF2020









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.

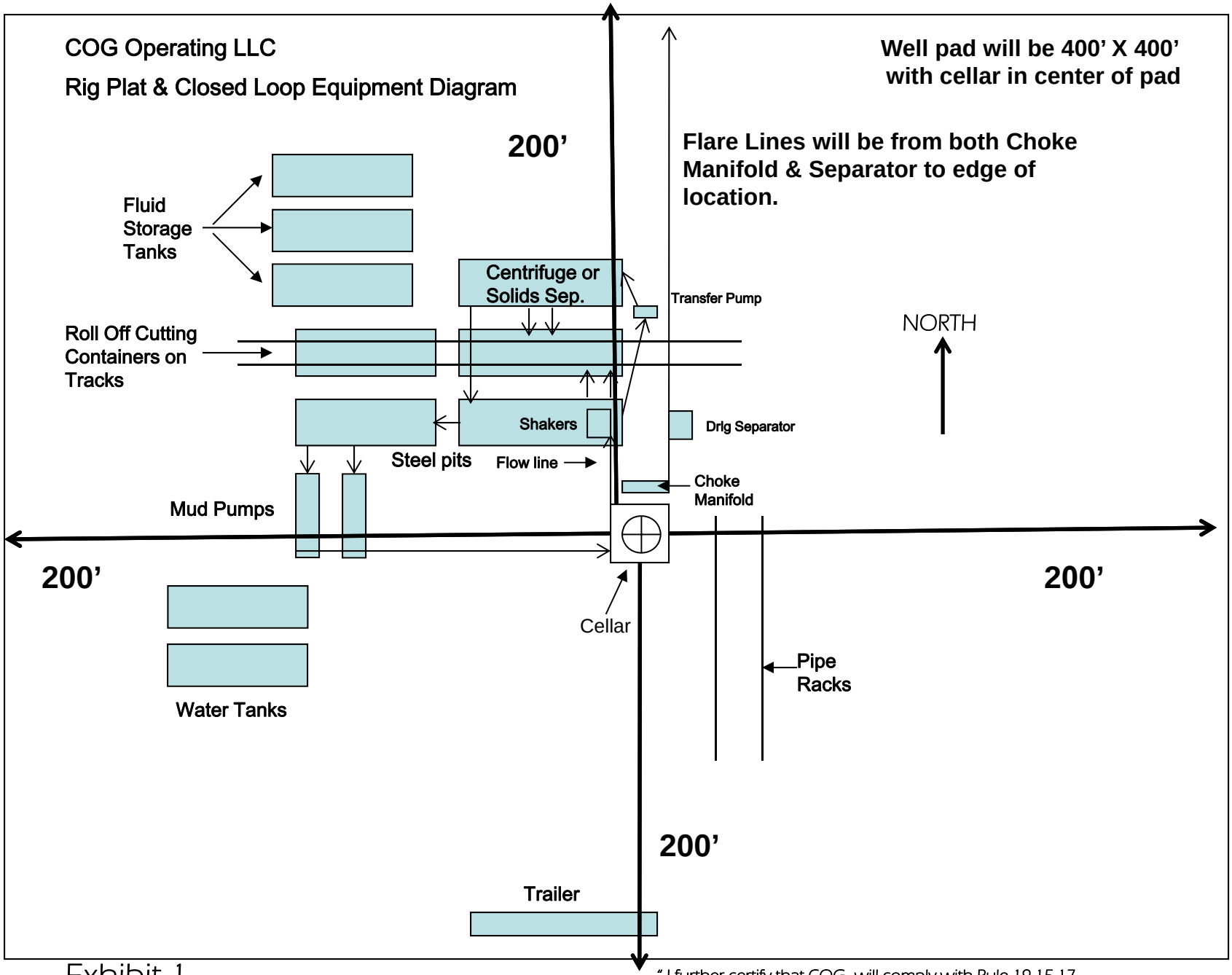


Exhibit 1

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