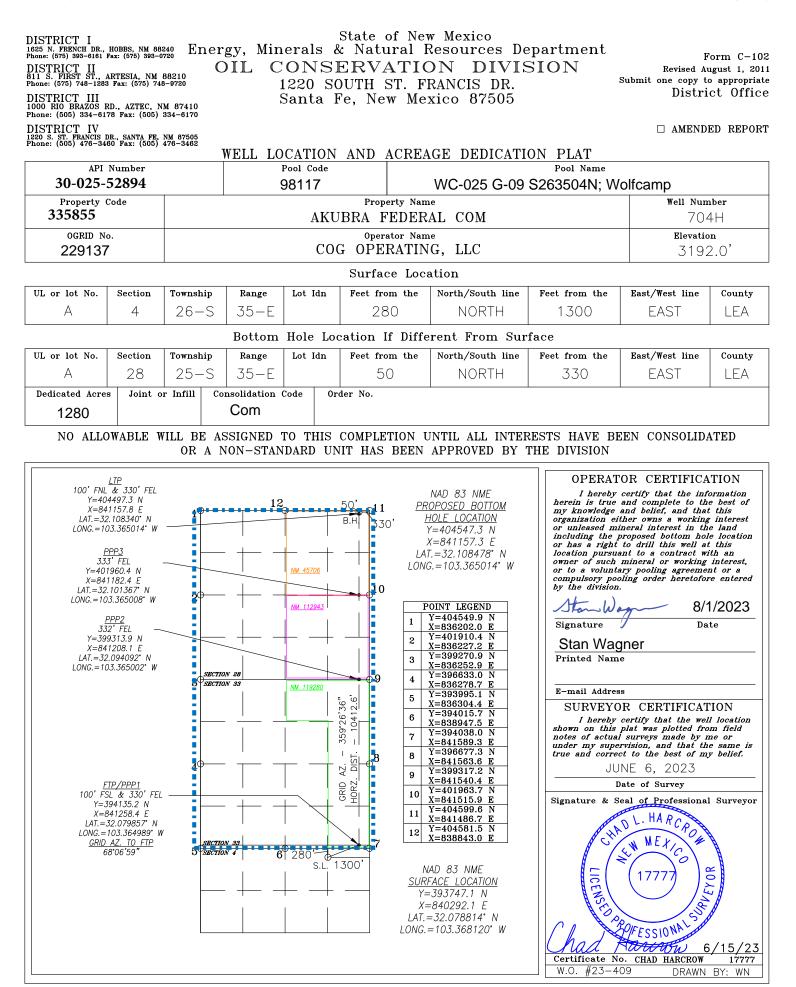
| Form 3160-3 (June 2015) UNITED STATES | FORM A OMB No Expires: Jar | . 1004-0 | 137 | | | | |
|---|---|-----------------------|--|-------------------------------|-------------------------|------------|-------------------|
| DEPARTMENT OF THE I BUREAU OF LAND MAN | 5. Lease Serial No. | | | | | | |
| APPLICATION FOR PERMIT TO D | 6. If Indian, Allotee of | or Tribe 1 | Name | | | | |
| 1a. Type of work: DRILL | EENTER | | | | 7. If Unit or CA Agre | eement, 1 | Name and No. |
| 1b. Type of Well: Oil Well Gas Well O 1c. Type of Completion: Hydraulic Fracturing Si | 8. Lease Name and V | Well No. | | | | | |
| 2. Name of Operator | | | | | 9. API Well No. | 0.025 | -52894 |
| 3a. Address | e) | 10. Field and Pool, o | | | | | |
| 4. Location of Well <i>(Report location clearly and in accordance v</i> At surface At proposed prod. zone | | 11. Sec., T. R. M. or | Blk. and | Survey or Area | | | |
| 14. Distance in miles and direction from nearest town or post off | ìce* | | | | 12. County or Parish | | 13. State |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) | location to nearest property or lease line, ft. | | | | ng Unit dedicated to th | is well | |
| Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. | 19. Proposed Depth 20. BLM | | | 20. BLM | /BIA Bond No. in file | | |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) | 22. App | oroxim | ate date work will | start* 23. Estimated duration | | | |
| | 24. A | ttach | ments | | 1 | | |
| The following, completed in accordance with the requirements of (as applicable) | f Onshore | Oil aı | nd Gas Order No. 1 | , and the H | Hydraulic Fracturing ru | ile per 43 | 3 CFR 3162.3-3 |
| Well plat certified by a registered surveyor. A Drilling Plan. | | | Item 20 above). | - | as unless covered by an | existing | bond on file (see |
| 3. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office | | | Operator certific Such other site sp BLM. | | mation and/or plans as | may be re | equested by the |
| 25. Signature | Na | Name (Printed/Typed) | | | | Date | |
| Title | I | | | | | | |
| Approved by (Signature) | | | Printed/Typed) | | | Date | |
| Title Office | | | | | | | |
| Application approval does not warrant or certify that the applicar applicant to conduct operations thereon. Conditions of approval, if any, are attached. | nt holds leg | gal or | equitable title to the | iose rights | in the subject lease wh | nich wou | ld entitle the |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n of the United States any false, fictitious or fraudulent statements | | | | | | ny depar | tment or agency |
| | | | | | | | |



*(Instructions on page 2)

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(Continued on page 2)



Submit Electronically Via E-permitting

Date: 07/31/2023

Energy, Minerals and Natural Resources Department Oil Conservation Division

State of New Mexico

1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

<u>Section 1 – Plan Description</u> <u>Effective May 25, 2021</u>

OGRID: 229137

I. Operator: <u>COG Operating LLC</u>

II. Type: ⊠ Original □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other.

If Other, please describe:

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

| Well Name | API | ULSTR | Footages | Anticipated | Anticipated | Anticipated |
|-------------------------|---------|-------------|-----------------------|-------------|-------------|----------------|
| | | | | Oil BBL/D | Gas MCF/D | Produced Water |
| | | | | | | BBL/D |
| Akubra Federal Com 602H | 30-025- | B-4-26S-35E | 280 FNL & 1390 FEL | ± 1100 | ± 1225 | ± 3225 |
| Akubra Federal Com 603H | 30-025- | B-4-26S-35E | 280 FNL & 1330 FEL | ± 1100 | ± 1225 | ± 3225 |
| Akubra Federal Com 703H | 30-025- | B-4-26S-35E | 280 FNL & 1360 FEL | ± 1100 | ± 1225 | ± 3225 |
| Akubra Federal Com 704H | 30-025- | B-4-26S-35E | 280 FNL & 1300 FEL | ± 1100 | ± 1225 | ± 3225 |
| Akubra Federal Com 802H | 30-025- | B-4-26S-35E | 280 FNL & 1420 | +1100 | +1225 | + 3225 |

IV. Central Delivery Point Name: <u>33 O CTB SWSE 33-25S-35E</u> [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

| Well Name | API | Spud Date | TD Reached Date | Completion Commencement Date | Initial Flow Back Date | First Production Date |
|------------------------|---------|----------------|------------------------|---------------------------------|---------------------------|--------------------------|
| Akubra Federal Com | Pending | $\pm 8/1/2024$ | ± 25 days from spud | TBD | TBD | TBD |
| 601H, 701H, 702H, 801H | | | | | | |

VI. Separation Equipment: 🛛 Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: \boxtimes Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: 🛛 Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

 \boxtimes Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

| Well | API | Anticipated Average Natural Gas Rate MCF/D | Anticipated Volume of Natural Gas for the First Year MCF | |
|------|-----|---|---|--|
| | | | | |
| | | | | |

X. Natural Gas Gathering System (NGGS):

| Operator | System | ULSTR of Tie-in | Anticipated Gathering Start Date | Available Maximum Daily Capacity of System Segment Tie-in |
|----------|--------|-----------------|-------------------------------------|--|
| | | | | |
| | | | | |

XI. Map. \Box Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system \Box will \Box will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator \Box does \Box does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

□ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: \Box Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

<u>Section 3 - Certifications</u> <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

 \boxtimes Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

 \Box Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. *If Operator checks this box, Operator will select one of the following:*

Well Shut-In. \Box Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. \Box Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

| Signature: Ston Wagn | | | | | |
|--|--|--|--|--|--|
| Printed Name: Stan Wagner | | | | | |
| Title: Regulatory Advisor | | | | | |
| E-mail Address: stan.s.wagner@conocophillips.com | | | | | |
| Date: 07/31/2023 | | | | | |
| Phone: 432-253-9685 | | | | | |
| OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form) | | | | | |
| Approved By: | | | | | |
| Title: | | | | | |
| Approval Date: | | | | | |
| Conditions of Approval: | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

All ConocoPhillips production facility equipment will be sized per industry standards (API 12J) with adequate retention time to effectively separate all phases of production. Each project will take into consideration the number of wells and type curves for each formation pool to ensure adequate facility capacity. Design considerations will also include review of all piping, tanks, VRU's and associated equipment to ensure optimized gas capture minimized risk of release.

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

- B. Drilling Operations
 - During drilling, flare stacks will be located a minimum of 100 feet from the nearest surface hole location. All gas is captured or combusted. If an emergency or malfunction occurs, gas will be flared or vented for public health, safety, and the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
 - Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.
- C. Completion Operations
 - During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.
 - Individual well test separators will be set to properly separate gas and liquids. A temporary test separator will be utilized initially to process volumes. In addition, separators will be tied into flowback tanks which will be tied into the gas processing equipment for sales down a pipeline.
- D. Venting and flaring during production operations
 - During each phase of well life (drilling, completion and production) of a ConocoPhillips well, COP personnel will follow all necessary procedures to ensure both the operation and the equipment are within the NMAC 19.15.27.8 Subsection D guidelines.
 - During well operations that require unloading of the well to atmospheric pressure, all reasonable actions will be taken to minimize vented gas
 - Through the life of the well all flaring shall be measured, and venting events quantified using the data available and industry best practice.
- E. Performance standards for separation, storage tank and flare equipment
 - All storage tanks and separation equipment are designed minimize risk of liquid or vapor release and optimize gas capture. This includes automation for automatic gauging and pressure monitoring.

- All flare stacks are equipped with auto ignition devices and/or continuous pilots and are designed to operate at maximum combustion efficiency pursuant NMAC 19.15.27.8 Subsection E. Flares will follow COP spacing guidelines to ensure they are a safe distance from combustibles and operations equipment.
- COP personnel will conduct routine AVO inspections on a regular basis per NMAC 19.15.27.8 Subsection E guidelines.
- F. Measurement of vented and flared natural gas.
 - Measurement equipment will be installed to quantify gas flared during drilling, completion and production of the well.
 - All measurement devices installed will meet accuracy ratings per AGA and API standards.
 - Measurement devices will be installed without manifolds that allow diversion of gas around the metering element, except for the sole purpose of inspection of servicing the measurement device.

VIII. Best Management Practices

- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize blowdowns to atmosphere
- When feasible, Operator will use electric or air actuated equipment to reduce bleed emissions

1. Geologic Formations

| TVD of target | 12,600' EOL | Pilot hole depth | NA |
|---------------|-------------|-------------------------------|------|
| MD at TD: | 23,275' | Deepest expected fresh water: | 118' |

| Formation | Depth (TVD) from KB | Water/Mineral Bearing/ Target Zone? | Hazards* |
|--------------------------------|------------------------|--|----------|
| Quaternary Fill | Surface | Water | |
| Rustler | 1029 | Alluvium | |
| Top of Salt | 1361 | Salt | |
| Base of Salt | 4915 | Anhydrite | |
| Lamar | 5291 | Limestone | |
| Bell Canyon | 5306 | Sandstone | |
| Cherry Canyon | 6228 | Sandstone | |
| Brushy Canyon | 7828 | Sandstone | |
| Bone Spring | 9151 | Shale | |
| Bone Spring 1st Sand - BS1S | 10399 | Sandstone | |
| Bone Spring Shale - BS1SH | 10545 | Limestone | |
| Bone Spring 2nd Sand - BS2S | 10910 | Sandstone | |
| Bone Spring 3rd Carb - BS3C | 11407 | Limestone | |
| Bone Spring 3rd Sand - BS3S | 12013 | Sandstone | |
| WFMP A | 12530 | Oil/Gas | |

2. Casing Program

| Hole Size | Casing | g Interval | Csq. Size | Weight | Grade | Conn. | SF | SF Burst | SF | SF |
|-----------|--------|------------|-----------|--------|-----------|-------------|-------|----------|--------------------|--------------------|
| Hole Size | From | То | CSy. 5126 | (Ibs) | Grade | Grade Conn. | | SF Buist | Body | Joint |
| 14.75" | 0 | 1099 | 10.75" | 45.5 | J55 | BTC | 4.16 | 1.14 | 14.30 | 15.92 |
| 9.875" | 0 | 8500 | 7.625" | 29.7 | HCL80 | BTC | 1.48 | 1.06 | 2.88 | 2.88 |
| 8.750" | 8500 | 12,000 | 7.625" | 29.7 | HCP110 | W513 | 1.31 | 1.60 | 3.00 | 1.80 |
| 6.75" | 0 | 11,500 | 5.5" | 23 | P110 | TXP BTC | 1.95 | 2.30 | 2.76 | 2.76 |
| 6.75" | 11500 | 23,275 | 5.5" | 23 | P110 | W441 | 1.78 | 2.10 | 2.52 | 2.52 |
| | | | | BLM M | inimum Sa | fety Factor | 1.125 | 1 | 1.6 Dry 1.8 Wet | 1.6 Dry 1.8 Wet |

Intermediate casing will be kept at least 1/3 full while running casing.to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

The 5 1/2" talon casing will be run back 200' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

COG Operating, LLC - AKUBRA FED COM #704H

| | Y or N |
|---|--------|
| Is casing new? If used, attach certification as required in Onshore Order #1 | Y |
| Does casing meet API specifications? If no, attach casing specification sheet. | Y |
| Is premium or uncommon casing planned? If yes attach casing specification sheet. | Y |
| Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria). | Y |
| Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing? | Y |
| In well to each doubt him Operation Depate | |
| Is well located within Capitan Reef? If yes, does production casing cement tie back a minimum of 50' above the Reef? Is well within the designated 4 string boundary? | N |
| | |
| Is well located in SOPA but not in R-111-P? | Ν |
| If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back | |
| 500' into previous casing? | |
| Is well located in R-111-P and SOPA? | N |
| If yes, are the first three strings cemented to surface? | |
| Is 2 nd string set 100' to 600' below the base of salt? | |
| Is well located in high Cave/Karst? | N |
| If yes, are there two strings cemented to surface? | |
| (For 2 string wells) If yes, is there a contingency casing if lost circulation occurs? | |
| | |
| Is well located in critical Cave/Karst? | Ν |
| If yes, are there three strings cemented to surface? | |

.

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3. Cementing Program

| Casing | # Sks | Wt. lb/ gal | YId ft3/ sack | H₂0 gal/sk | 500# Comp. Strength (hours) | Slurry Description |
|---------|-------|----------------|------------------|------------|-----------------------------------|-----------------------------------|
| Surf. | 530 | 13.5 | 1.73 | 9.22 | 12 | Lead: Class C + 4% Gel + 1% CaCl2 |
| Sun. | 250 | 14.8 | 1.35 | 6.45 | 8 | Tail: Class C + 2% CaCl2 |
| Inter. | 790 | 10.5 | 3.6 | 22.81 | 72 | NeoCem-C |
| Stage 1 | 210 | 14.8 | 1.35 | 6.6 | 8 | HalCem-C |
| Prod | 620 | 12.5 | 1.71 | 9.32 | 72 | VersaCem |
| FIUU | 900 | 13.2 | 1.48 | 7.49 | 19 | NeoCem-C |

If losses are encountered in the intermediate section a DV/ECP tool will be run ~50' above the Lamar Lime top, cement will be adjusted accordingly if this contingency is necessary.

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

| Casing String | TOC | % Excess |
|------------------------------|---------|--------------------------------|
| Surface | 0' | 50% |
| 1 st Intermediate | 0' | 50% |
| Production | 11,500' | 35% OH in Lateral (KOP to EOL) |

4. Pressure Control Equipment

| N A variance is requested for the use of a diverter on the surface casing. See attached for schematic. |
|---|
|---|

| BOP installed and tested before drilling which hole? | Size? | Min. Required WP | Туре | | x | Tested to: |
|---|---------|---|--------|--------|---------|---------------|
| | | | Ann | ular | Х | 2500psi |
| 9-7/8" | | | Blind | Ram | | |
| | 13-5/8" | I3-5/8" 3M Pipe Ram Double Ran Other* | Pipe | Ram | Х | 3000psi |
| | | | e Ram | Х | 3000psi | |
| | | | Other* | | | |
| | | | 5M Ai | nnular | Х | 2500psi |
| 6-3/4" | | | Blind | Ram | | 5000mai |
| | 13-5/8" | 5M | Pipe | Ram | Х | |
| | | | Double | e Ram | Х | 5000psi |
| | | | Other* | | | |

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

| | Formation integrity test will be performed per Onshore Order #2. | | |
|---|--|--|--|
| Y | On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i. | | |
| Y | A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart. | | |
| | N Are anchors required by manufacturer? | | |
| Y | A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. | | |

COG Operating, LLC - AKUBRA FED COM #704H

5. Mud Program

| Depth | | Туре | Weight | Viscosity | Water Loss | |
|-----------------|-----------------|--------------------------|------------|-----------|------------|--|
| From | То | туре | (ppg) | viscosity | Water Loss | |
| 0 | Surf. Shoe | FW Gel | 8.6 - 8.8 | 28-34 | N/C | |
| Surf csg | 7-5/8" Int shoe | Brine Diesel Emulsion | 8.4 - 9 | 28-34 | N/C | |
| 7-5/8" Int shoe | Lateral TD | OBM | 9.6 - 12.5 | 35-45 | <20 | |

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

| What will be used to monitor the loss or gain of fluid? | PVT/Pason/Visual Monitoring |
|---|-----------------------------|

6. Logging and Testing Procedures

| Logging, Coring and Testing. | |
|------------------------------|---|
| Y | Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM. |
| Y | No Logs are planned based on well control or offset log information. |
| N | Drill stem test? If yes, explain. |
| N | Coring? If yes, explain. |

| Additional logs planned | | Interval | | |
|-------------------------|-------------|--|--|--|
| Ν | Resistivity | Pilot Hole TD to ICP | | |
| Ν | Density | Pilot Hole TD to ICP | | |
| Y | CBL | Production casing (If cement not circulated to surface) | | |
| Υ | Mud log | Intermediate shoe to TD | | |
| Ν | PEX | | | |

COG Operating, LLC - AKUBRA FED COM #704H

7. Drilling Conditions

| Condition | Specify what type and where? |
|----------------------------|------------------------------|
| BH Pressure at deepest TVD | 8190 psi at 12600' TVD |
| Abnormal Temperature | NO 180 Deg. F. |

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

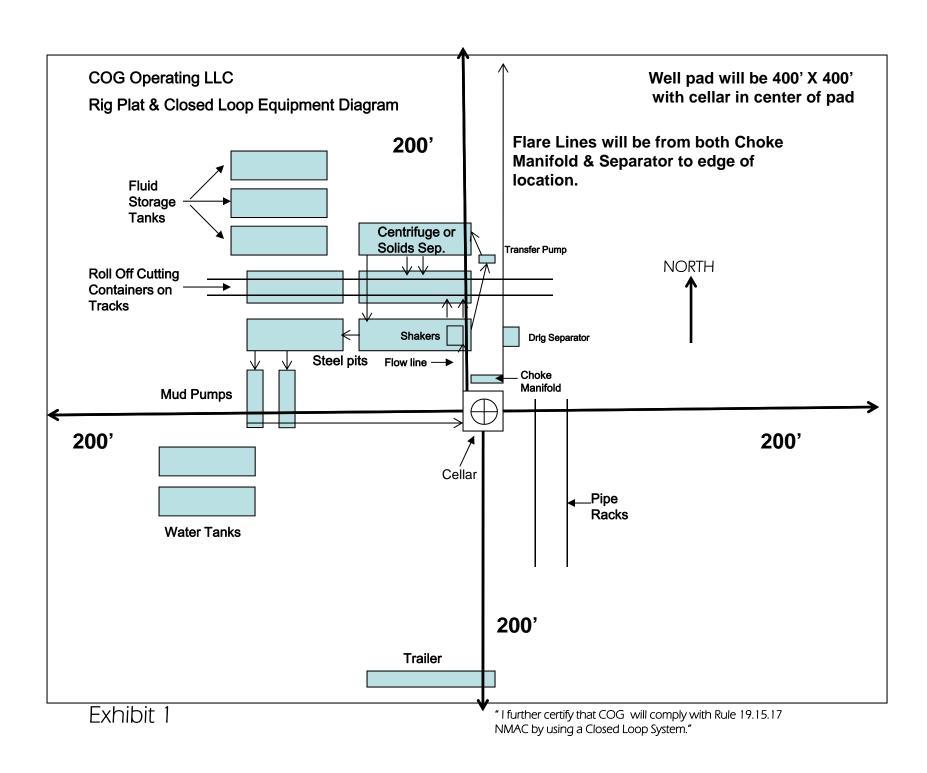
Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N H2S is presentY H2S Plan attached

8. Other Facets of Operation

| Y | Is it a walking operation? |
|---|----------------------------|
| Y | Is casing pre-set? |

| x | H2S Plan. |
|---|-------------------------|
| x | BOP & Choke Schematics. |
| x | Directional Plan |



DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E) AKUBRA PROJECT AKUBRA FED COM #704H

OWB PWP1

Anticollision Report

04 July, 2023

Anticollision Report

| Company: | DELAWARE BASIN EAST | Local Co-ordinate Reference: | Well AKUBRA FED COM #704H - Slot | | | |
|--|----------------------------------|------------------------------|----------------------------------|--|--|--|
| | | | AKUBRA FED COM #704H | | | |
| Project: | BULLDOG PROSPECT (NM-E) | TVD Reference: | RKB=25ft @ 3217.0usft | | | |
| Reference Site: | AKUBRA PROJECT | MD Reference: | RKB=25ft @ 3217.0usft | | | |
| Site Error: | 0.0 usft | North Reference: | Grid | | | |
| Reference Well: | AKUBRA FED COM #704H | Survey Calculation Method: | Minimum Curvature | | | |
| Well Error: | 3.0 usft | Output errors are at | 2.00 sigma | | | |
| Reference Wellbore | OWB | Database: | EDT 17 Central Planning Prod | | | |
| Reference Design: | PWP1 | Offset TVD Reference: | Offset Datum | | | |
| | | | | | | |
| Reference | PWP1 | | | | | |
| Filter type: NO GLOBAL FILTER: Using user defined selection & filtering criteria | | | | | | |
| Filter type: | 0 | ction & intering chiefla | | | | |
| Interpolation Method: | MD + Stations Interval 100.0usft | Error Model: | ISCWSA | | | |
| Depth Range: | Unlimited | Scan Method: | Closest Approach 3D | | | |

| Results Limited by: Warning Levels Evaluated | | ntre distance of 1,000.0usft 2.79 Sigma | Error Surface: Casing Method: | Combined Pedal Curve Added to Error Values |
|---|-----------|--|----------------------------------|---|
| Depth Range: | Unlimited | | Scan Method: | Closest Approach 3D |

| Survey Tool Program | | Date | 7/4/2023 | | |
|----------------------------|---------------------------------|--------|------------|---|--|
| From (usft) | To (usft) | Survey | (Wellbore) | Tool Name | Description |
| 0.0 1,200.0 12,201.1 | 1,200.0 12,201.1 23,274.5 | ``` | OWB) | r.5 SDI_KPR_WL_NS-CT r.5 MWD+IFR1 r.5 MWD+IFR1+MS | SDI Keeper Wireline Gyrocomp-Initilzd Cont. rev.5 OWSG MWD + IFR1 rev.5 OWSG MWD + IFR1 + Multi-Station Correction rev.5 |

| Site Name Offset Well - Wellbore - Design | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Dista Between Centres (usft) | nce Between Ellipses (usft) | Separation Factor | Warning |
|--|--|---------------------------------------|---------------------------------------|--------------------------------------|----------------------|---------|
| AKUBRA PROJECT | | | | | | |
| AKUBRA FED COM #602H - OWB - PWP1 | 1,166.3 | 1,167.5 | 90.0 | 81.3 | 10.298 CC | |
| AKUBRA FED COM #602H - OWB - PWP1 | 1,200.0 | 1,201.2 | 90.0 | 81.2 | 10.226 ES | |
| AKUBRA FED COM #602H - OWB - PWP1 | 1,300.0 | 1,300.0 | 92.5 | 83.5 | 10.212 SF | |
| AKUBRA FED COM #603H - OWB - PWP1 | 1,231.6 | 1,232.1 | 30.0 | 21.1 | 3.377 CC | |
| AKUBRA FED COM #603H - OWB - PWP1 | 1,600.0 | 1,603.4 | 30.4 | 19.9 | 2.897 ES | |
| AKUBRA FED COM #603H - OWB - PWP1 | 1,700.0 | 1,703.8 | 31.0 | 20.0 | 2.834 SF | |
| AKUBRA FED COM #703H - OWB - PWP1 | 1,166.4 | 1,167.3 | 60.0 | 51.3 | 6.865 CC | |
| AKUBRA FED COM #703H - OWB - PWP1 | 1,200.0 | 1,200.9 | 60.0 | 51.2 | 6.818 ES, S | F |
| AKUBRA FED COM #802H - OWB - PWP1 | 1,166.1 | 1,167.7 | 120.0 | 111.3 | 13.730 CC | |
| AKUBRA FED COM #802H - OWB - PWP1 | 1,200.0 | 1,201.6 | 120.0 | 111.2 | 13.634 ES | |
| AKUBRA FED COM #802H - OWB - PWP1 | 1,300.0 | 1,298.4 | 122.6 | 113.6 | 13.528 SF | |

Summary

Anticollision Report

| Company: DELA | AWARE BASIN EAST | Local Co-ordinate Reference: | Well AKUBRA FED COM #704H - Slot AKUBRA FED COM #704H |
|------------------------|----------------------|------------------------------|--|
| Project: BULL | LDOG PROSPECT (NM-E) | TVD Reference: | RKB=25ft @ 3217.0usft |
| Reference Site: AKUE | IBRA PROJECT | MD Reference: | RKB=25ft @ 3217.0usft |
| Site Error: 0.0 us | usft | North Reference: | Grid |
| Reference Well: AKUE | IBRA FED COM #704H | Survey Calculation Method: | Minimum Curvature |
| Well Error: 3.0 us | usft | Output errors are at | 2.00 sigma |
| Reference Wellbore OWB | 3 | Database: | EDT 17 Central Planning Prod |
| Reference Design: PWP | 21 | Offset TVD Reference: | Offset Datum |

| TD Summary | | | | | | |
|--|--|--|------------------------------|-------------------------------|----------------------|--|
| | Reference | Offset | Dista | nce | | |
| Site Name Offset Well - Wellbore - Design | Measured Depth (usft) | Measured Depth (usft) | Between Centres (usft) | Between Ellipses (usft) | Separation Factor | Warning |
| AKUBRA PROJECT | | | | | | |
| AKUBRA FED COM #602H - OWB - PWP1 AKUBRA FED COM #603H - OWB - PWP1 AKUBRA FED COM #703H - OWB - PWP1 AKUBRA FED COM #802H - OWB - PWP1 | 23,274.5 23,274.5 23,274.5 23,274.5 | 23,054.7 22,948.2 23,307.9 23,817.0 | 759.7 | 587.6 | 4.413 | Out of Range @TD Out of Range @TD Out of Range @TD |

| Offset Des | sign: AK | UBRA PRO | DJECT - A | KUBRA FE | D COM # | 602H - OWB - | PWP1 | | | | | | Offset Site Error: | 0.0 usf |
|-------------------|-------------------|------------------|-----------------|---------------------|----------------------|----------------|--------------|------------|----------------|------------------|------------|------------|--------------------|---------|
| Survey Progr | ram: 0-r. | .5 SDI_KPR_V | VL_NS-CT, 1 | 200-r.5 MWD+ | IFR1, 11893- | r.5 MWD+IFR1+M | 3 | | | Rule Assi | gned: | | Offset Well Error: | 3.0 usf |
| Refer Measured | rence Vertical | Off: Measured | set Vertical | Semi M Reference | lajor Axis Offset | Highside | Offset Wellb | ore Centre | Dis Between | tance Between | Minimum | Separation | Warning | |
| Depth | Depth | Depth | Depth | | | Toolface | +N/-S | +E/-W | Centres | Ellipses | Separation | Factor | Warning | |
| (usft) | (usft) | (usft) | (usft) | (usft) | (usft) | (°) | (usft) | (usft) | (usft) | (usft) | (usft) | | | |
| 0.0 | 0.0 | 1.2 | 1.2 | 3.0 | 3.0 | -90.45 | -0.7 | -90.0 | 90.0 | | | | | |
| 100.0 | 100.0 | 101.2 | 101.2 | 3.1 | 3.1 | -90.45 | -0.7 | -90.0 | 90.0 | 83.5 | 6.54 | 13.763 | | |
| 200.0 | 200.0 | 201.2 | 201.2 | 3.2 | 3.2 | -90.45 | -0.7 | -90.0 | 90.0 | 83.2 | 6.78 | 13.276 | | |
| 300.0 | 300.0 | 301.2 | 301.2 | 3.3 | 3.3 | -90.45 | -0.7 | -90.0 | 90.0 | 83.0 | 7.01 | 12.840 | | |
| 400.0 | 400.0 | 401.2 | 401.2 | 3.4 | 3.4 | -90.45 | -0.7 | -90.0 | 90.0 | 82.8 | 7.23 | 12.444 | | |
| 500.0 | 500.0 | 501.2 | 501.2 | 3.6 | 3.6 | -90.45 | -0.7 | -90.0 | 90.0 | 82.6 | 7.45 | 12.084 | | |
| 600.0 | 600.0 | 601.2 | 601.2 | 3.7 | 3.7 | -90.45 | -0.7 | -90.0 | 90.0 | 82.3 | 7.66 | 11.755 | | |
| 700.0 | 700.0 | 701.2 | 701.2 | 3.8 | 3.8 | -90.45 | -0.7 | -90.0 | 90.0 | 82.1 | 7.86 | 11.451 | | |
| 800.0 | 800.0 | 801.2 | 801.2 | 3.9 | 3.9 | -90.45 | -0.7 | -90.0 | 90.0 | 81.9 | 8.06 | 11.170 | | |
| 900.0 | 900.0 | 901.2 | 901.2 | 4.0 | 4.0 | -90.45 | -0.7 | -90.0 | 90.0 | 81.8 | 8.25 | 10.909 | | |
| 1,000.0 | 1,000.0 | 1,001.2 | 1,001.2 | 4.2 | 4.2 | -90.45 | -0.7 | -90.0 | 90.0 | 81.6 | 8.44 | 10.666 | | |
| 1,100.0 | 1,100.0 | 1,101.2 | 1,101.2 | 4.3 | 4.3 | -90.45 | -0.7 | -90.0 | 90.0 | 81.4 | 8.62 | 10.439 | | |
| 1,166.3 | 1,166.3 | 1,167.5 | 1,167.5 | 4.4 | 4.4 | -90.45 | -0.7 | -90.0 | 90.0 | 81.3 | 8.74 | 10.298 CC | | |
| 1,200.0 | 1,200.0 | 1,201.2 | 1,201.2 | 4.4 | 4.4 | -90.45 | -0.7 | -90.0 | 90.0 | 81.2 | 8.80 | 10.226 ES | | |
| 1,300.0 | 1,300.0 | 1,300.0 | 1,300.0 | 4.5 | 4.5 | 179.22 | -1.3 | -91.2 | 92.5 | 83.5 | 9.06 | 10.212 SF | | |
| 1,400.0 | 1,399.9 | 1,396.5 | 1,396.4 | 4.7 | 4.7 | 178.37 | -2.8 | -94.6 | 100.0 | 90.5 | 9.49 | 10.530 | | |
| 1,500.0 | 1,499.7 | 1,493.2 | 1,492.9 | 4.8 | 4.9 | 177.19 | -5.5 | -100.2 | 112.4 | 102.4 | 9.96 | 11.288 | | |
| 1,600.0 | 1,599.3 | 1,588.8 | 1,588.2 | 5.1 | 5.1 | 175.92 | -9.1 | -107.9 | 129.7 | 119.3 | 10.45 | 12.417 | | |
| 1,700.0 | 1,698.6 | 1,683.0 | 1,681.7 | 5.4 | 5.4 | 174.71 | -13.6 | -117.6 | 152.0 | 141.0 | 10.97 | 13.856 | | |
| 1,800.0 | 1,797.5 | 1,776.0 | 1,773.8 | 5.7 | 5.6 | 173.71 | -18.8 | -129.2 | 179.0 | 167.6 | 11.45 | 15.639 | | |
| 1,866.7 | 1,863.3 | 1,837.5 | 1,834.7 | 5.9 | 5.7 | 173.45 | -21.6 | -137.9 | 199.3 | 187.6 | 11.76 | 16.949 | | |
| 1,900.0 | 1,896.1 | 1,868.0 | 1,864.8 | 5.9 | 5.8 | 173.44 | -22.7 | -142.4 | 210.0 | 198.1 | 11.91 | 17.627 | | |
| 2,000.0 | 1,994.6 | 1,958.8 | 1,954.4 | 6.3 | 6.1 | 173.69 | -25.2 | -157.0 | 243.1 | 230.6 | 12.45 | 19.523 | | |
| 2,100.0 | 2,093.1 | 2,052.0 | 2,046.2 | 6.6 | 6.4 | 174.14 | -26.6 | -173.1 | 277.1 | 264.1 | 13.04 | 21.248 | | |
| 2,200.0 | 2,191.6 | 2,146.0 | 2,138.7 | 6.9 | 6.7 | 174.50 | -28.0 | -189.3 | 311.3 | 297.6 | 13.70 | 22.724 | | |
| 2,300.0 | 2,290.0 | 2,239.9 | 2,231.3 | 7.3 | 7.0 | 174.80 | -29.4 | -205.6 | 345.4 | 331.0 | 14.37 | 24.042 | | |

7/4/2023 1:27:01PM

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

Anticollision Report

| Company: | DELAWARE BASIN EAST | Local Co-ordinate Reference: | Well AKUBRA FED COM #704H - Slot AKUBRA FED COM #704H |
|--------------------|-------------------------|------------------------------|--|
| Project: | BULLDOG PROSPECT (NM-E) | TVD Reference: | RKB=25ft @ 3217.0usft |
| Reference Site: | AKUBRA PROJECT | MD Reference: | RKB=25ft @ 3217.0usft |
| Site Error: | 0.0 usft | North Reference: | Grid |
| Reference Well: | AKUBRA FED COM #704H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.0 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OWB | Database: | EDT 17 Central Planning Prod |
| Reference Design: | PWP1 | Offset TVD Reference: | Offset Datum |

| Survey Progr | am: 0-r | 5 SDL KPR V | VI NS-CT 1 | 200-r 5 MWD+I | FR1 11893 | r.5 MWD+IFR1+MS | 3 | | | Rule Assi | ned. | | Offset Well Error: | 3.0 usft |
|-----------------|-----------------|-----------------|-----------------|---------------|------------|-----------------|--------------|------------|-------------------|--------------------|----------------------|------------|--------------------|----------|
| Refe | rence | Off | set | Semi N | lajor Axis | | Offset Wellb | ore Centre | | tance | - | | | 0.0 401 |
| Measured | Vertical | Measured | Vertical | Reference | Offset | Highside | +N/-S | +E/-W | Between | Between | Minimum | Separation | Warning | |
| Depth (usft) | Depth (usft) | Depth (usft) | Depth (usft) | (usft) | (usft) | Toolface (°) | (usft) | (usft) | Centres (usft) | Ellipses (usft) | Separation (usft) | Factor | | |
| 2,400.0 | 2,388.5 | 2,333.9 | 2,323.8 | 7.7 | 7.3 | 175.04 | -30.9 | -221.8 | 379.5 | 364.5 | 15.06 | 25.209 | | |
| 2,500.0 | 2,487.0 | 2,427.9 | 2,416.4 | 8.0 | 7.7 | 175.24 | -32.3 | -238.1 | 413.7 | 397.9 | 15.76 | 26.245 | | |
| 2,600.0 | 2,585.5 | 2,521.9 | 2,508.9 | 8.4 | 8.0 | 175.41 | -33.7 | -254.4 | 447.8 | 431.3 | 16.48 | 27.168 | | |
| 2,700.0 | 2,684.0 | 2,615.9 | 2,601.5 | 8.8 | 8.4 | 175.55 | -35.1 | -270.6 | 482.0 | 464.8 | 17.22 | 27.992 | | |
| 2,800.0 | 2,782.4 | 2,709.8 | 2,694.0 | 9.2 | 8.8 | 175.68 | -36.6 | -286.9 | 516.1 | 498.2 | 17.96 | 28.730 | | |
| 2,900.0 | 2,880.9 | 2,803.8 | 2,786.6 | 9.6 | 9.1 | 175.79 | -38.0 | -303.1 | 550.3 | 531.6 | 18.72 | 29.394 | | |
| 3,000.0 | 2,979.4 | 2,897.8 | 2,879.1 | 10.0 | 9.5 | 175.89 | -39.4 | -319.4 | 584.4 | 565.0 | 19.49 | 29.993 | | |
| 3,100.0 | 3,077.9 | 2,991.8 | 2,971.7 | 10.5 | 9.9 | 175.97 | -40.8 | -335.6 | 618.6 | 598.3 | 20.26 | 30.534 | | |
| 3,200.0 | 3,176.4 | 3,085.8 | 3,064.2 | 10.9 | 10.3 | 176.05 | -42.2 | -351.9 | 652.8 | 631.7 | 21.04 | 31.025 | | |
| 3,300.0 | 3,274.8 | 3,179.7 | 3,156.8 | 11.3 | 10.7 | 176.12 | -43.7 | -368.2 | 686.9 | 665.1 | 21.83 | 31.473 | | |
| 3,400.0 | 3,373.3 | 3,273.7 | 3,249.3 | 11.7 | 11.1 | 176.19 | -45.1 | -384.4 | 721.1 | 698.5 | 22.62 | 31.881 | | |
| 3,500.0 | 3,471.8 | 3,367.7 | 3,341.9 | 12.1 | 11.4 | 176.24 | -46.5 | -400.7 | 755.3 | 731.8 | 23.41 | 32.255 | | |
| 3,600.0 | 3,570.3 | 3,461.7 | 3,434.4 | 12.6 | 11.8 | 176.30 | -47.9 | -416.9 | 789.4 | 765.2 | 24.22 | 32.599 | | |
| 3,700.0 | 3,668.8 | 3,555.7 | 3,527.0 | 13.0 | 12.2 | 176.34 | -49.4 | -433.2 | 823.6 | 798.6 | 25.02 | 32.915 | | |
| 3,800.0 | 3,767.2 | 3,649.6 | 3,619.6 | 13.4 | 12.6 | 176.39 | -50.8 | -449.4 | 857.7 | 831.9 | 25.83 | 33.206 | | |
| 3,900.0 | 3,865.7 | 3,743.6 | 3,712.1 | 13.9 | 13.0 | 176.43 | -52.2 | -465.7 | 891.9 | 865.3 | 26.64 | 33.476 | | |
| 4,000.0 | 3,964.2 | 3,837.6 | 3,804.7 | 14.3 | 13.5 | 176.47 | -53.6 | -482.0 | 926.1 | 898.6 | 27.46 | 33.726 | | |
| 4,100.0 | 4,062.7 | 3,931.6 | 3,897.2 | 14.7 | 13.9 | 176.50 | -55.0 | -498.2 | 960.2 | 932.0 | 28.28 | 33.959 | | |
| 4,200.0 | 4,161.2 | 4,025.6 | 3,989.8 | 15.2 | 14.3 | 176.54 | -56.5 | -514.5 | 994.4 | 965.3 | 29.10 | 34.175 | | |

Anticollision Report

| Company: | DELAWARE BASIN EAST | Local Co-ordinate Reference: | Well AKUBRA FED COM #704H - Slot AKUBRA FED COM #704H |
|--------------------|-------------------------|------------------------------|--|
| Project: | BULLDOG PROSPECT (NM-E) | TVD Reference: | RKB=25ft @ 3217.0usft |
| Reference Site: | AKUBRA PROJECT | MD Reference: | RKB=25ft @ 3217.0usft |
| Site Error: | 0.0 usft | North Reference: | Grid |
| Reference Well: | AKUBRA FED COM #704H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.0 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OWB | Database: | EDT 17 Central Planning Prod |
| Reference Design: | PWP1 | Offset TVD Reference: | Offset Datum |

| Offset Des | sign: Ał | (UBRA PRO | OJECT - A | AKUBRA FE | D COM # | 603H - OWB - F | PWP1 | | | | | | Offset Site Error: | 0.0 usft |
|--------------------|--------------------|--------------------|--------------------|---------------------|----------------------|------------------|----------------|----------------|----------------|------------------|----------------|-------------------|--------------------|----------|
| Survey Progr | | | | | | r.5 MWD+IFR1+MS | | | | Rule Assi | gned: | | Offset Well Error: | 3.0 usft |
| Refer Measured | ence Vertical | Off Measured | iset Vertical | Semi M Reference | lajor Axis Offset | Highside | Offset Wellb | ore Centre | Dis Between | tance Between | Minimum | Separation | Warning | |
| Depth | Depth | Depth | Depth | | | Toolface | +N/-S | +E/-W | Centres | Ellipses | Separation | Factor | | |
| (usft) | (usft) | (usft) | (usft) | (usft) | (usft) | (°) | (usft) | (usft) | (usft) | (usft) | (usft) | | | |
| 0.0 | 0.0 | 0.3 | 0.3 | 3.0 | 3.0 | -90.57 | -0.3 | -30.0 | 30.0 | 00.5 | | 4 500 | | |
| 100.0 200.0 | 100.0 200.0 | 100.3 200.3 | 100.3 200.3 | 3.1 3.2 | 3.1 3.2 | -90.57 -90.57 | -0.3 -0.3 | -30.0 -30.0 | 30.0 30.0 | 23.5 23.2 | 6.54 6.78 | 4.588 4.426 | | |
| 300.0 | 300.0 | 300.3 | 300.3 | 3.2 | 3.2 | -90.57 | -0.3 | -30.0 | 30.0 | 23.2 | 7.01 | 4.420 | | |
| 400.0 | 400.0 | 400.3 | 400.3 | 3.4 | 3.4 | -90.57 | -0.3 | -30.0 | 30.0 | 20.0 | 7.23 | 4.149 | | |
| 500.0 | 500.0 | 500.3 | 500.3 | 3.6 | 3.6 | -90.57 | -0.3 | -30.0 | 30.0 | 22.6 | 7.45 | 4.029 | | |
| | | | | | | | | | | | | | | |
| 600.0 | 600.0 | 600.3 | 600.3 | 3.7 | 3.7 | -90.57 | -0.3 | -30.0 | 30.0 | 22.3 | 7.66 | 3.919 | | |
| 700.0 | 700.0 | 700.3 | 700.3 | 3.8 | 3.8 | -90.57 | -0.3 | -30.0 | 30.0 | 22.1 | 7.86 | 3.817 | | |
| 800.0 | 800.0 | 800.3 | 800.3 | 3.9 | 3.9 | -90.57 | -0.3 | -30.0 | 30.0 | 21.9 | 8.06 | 3.724 | | |
| 900.0 | 900.0 | 900.3 | 900.3 | 4.0 | 4.0 | -90.57 | -0.3 | -30.0 | 30.0 | 21.8 | 8.25 | 3.637 | | |
| 1,000.0 | 1,000.0 | 1,000.3 | 1,000.3 | 4.2 | 4.2 | -90.57 | -0.3 | -30.0 | 30.0 | 21.6 | 8.44 | 3.556 | | |
| 1,100.0 | 1,100.0 | 1,100.3 | 1,100.3 | 4.3 | 4.3 | -90.57 | -0.3 | -30.0 | 30.0 | 21.4 | 8.62 | 3.480 | | |
| 1,200.0 | 1,200.0 | 1,200.3 | 1,200.3 | 4.4 | 4.4 | -90.57 | -0.3 | -30.0 | 30.0 | 21.2 | 8.80 | 3.409 | | |
| 1,231.6 | 1,231.6 | 1,232.1 | 1,232.1 | 4.4 | 4.4 | 179.38 | -0.3 | -29.9 | 30.0 | 21.1 | 8.88 | 3.377 CC | | |
| 1,300.0 | 1,300.0 | 1,301.1 | 1,301.1 | 4.5 | 4.5 | 178.98 | -0.5 | -28.7 | 30.0 | 20.9 | 9.07 | 3.310 | | |
| 1,400.0 | 1,399.9 | 1,401.9 | 1,401.8 | 4.7 | 4.7 | 177.66 | -1.2 | -24.7 | 30.0 | 20.5 | 9.51 | 3.158 | | |
| 1 500 0 | 1 400 7 | 1 500 0 | 1,502.3 | 4.0 | 4.9 | 175 47 | -2.4 | -18.2 | 30.2 | 20.2 | 0.00 | 3.019 | | |
| 1,500.0 1,600.0 | 1,499.7 1,599.3 | 1,502.6 1,603.4 | 1,502.3 | 4.8 5.1 | 4.9 5.1 | 175.47 172.45 | -2.4 -4.0 | -18.2 -9.0 | 30.2 30.4 | 20.2 19.9 | 9.99 10.49 | 3.019 2.897 ES | | |
| 1,700.0 | 1,698.6 | 1,703.8 | 1,702.4 | 5.4 | 5.3 | 168.77 | -4.0 | -9.0 | 30.4 | 20.0 | 10.49 | 2.834 SF | | |
| 1,800.0 | 1,797.5 | 1,803.8 | 1,801.6 | 5.7 | 5.6 | 166.02 | -8.1 | 14.5 | 33.7 | 20.0 | 11.48 | 2.940 | | |
| 1,866.7 | 1,863.3 | 1,870.4 | 1,867.7 | 5.9 | 5.8 | 165.02 | -9.6 | 22.5 | 37.0 | 25.2 | 11.81 | 3.135 | | |
| 1,000.1 | 1,000.0 | 1,010.1 | 1,001.1 | 0.0 | 0.0 | 100.02 | 0.0 | 22.0 | 01.0 | 20.2 | | 0.100 | | |
| 1,900.0 | 1,896.1 | 1,903.6 | 1,900.7 | 5.9 | 5.9 | 164.71 | -10.3 | 26.5 | 39.0 | 27.0 | 11.97 | 3.254 | | |
| 2,000.0 | 1,994.6 | 2,003.5 | 1,999.8 | 6.3 | 6.2 | 163.92 | -12.4 | 38.5 | 44.7 | 32.2 | 12.56 | 3.564 | | |
| 2,100.0 | 2,093.1 | 2,103.3 | 2,098.9 | 6.6 | 6.5 | 163.32 | -14.5 | 50.4 | 50.5 | 37.4 | 13.16 | 3.839 | | |
| 2,200.0 | 2,191.6 | 2,203.1 | 2,198.0 | 6.9 | 6.8 | 162.84 | -16.6 | 62.4 | 56.3 | 42.5 | 13.79 | 4.085 | | |
| 2,300.0 | 2,290.0 | 2,303.0 | 2,297.1 | 7.3 | 7.2 | 162.45 | -18.7 | 74.4 | 62.1 | 47.7 | 14.44 | 4.304 | | |
| 2,400.0 | 2,388.5 | 2,402.8 | 2,396.1 | 7.7 | 7.5 | 162.12 | -20.8 | 86.4 | 67.9 | 52.8 | 15.10 | 4.500 | | |
| 2,500.0 | 2,487.0 | 2,502.6 | 2,495.2 | 8.0 | 7.9 | 161.85 | -22.9 | 98.4 | 73.7 | 58.0 | 15.77 | 4.676 | | |
| 2,600.0 | 2,585.5 | 2,602.5 | 2,594.3 | 8.4 | 8.2 | 161.62 | -25.0 | 110.4 | 79.6 | 63.1 | 16.46 | 4.834 | | |
| 2,700.0 | 2,684.0 | 2,702.3 | 2,693.4 | 8.8 | 8.6 | 161.41 | -27.2 | 122.3 | 85.4 | 68.2 | 17.15 | 4.977 | | |
| 2,800.0 | 2,782.4 | 2,802.1 | 2,792.5 | 9.2 | 8.9 | 161.24 | -29.3 | 134.3 | 91.2 | 73.3 | 17.86 | 5.106 | | |
| | | 0 004 0 | 0.004.0 | | | 101.00 | | | 07.0 | | 40.57 | 5 000 | | |
| 2,900.0 3,000.0 | 2,880.9 2,979.4 | 2,901.9 3,001.8 | 2,891.6 2,990.7 | 9.6 10.0 | 9.3 9.7 | 161.08 160.95 | -31.4 -33.5 | 146.3 158.3 | 97.0 102.8 | 78.4 83.5 | 18.57 19.29 | 5.223 5.329 | | |
| 3,100.0 | 3,077.9 | 3,001.8 | 3,089.8 | 10.0 | 10.1 | 160.82 | -35.6 | 138.3 | 102.8 | 88.6 | 20.01 | 5.426 | | |
| 3,200.0 | 3,176.4 | 3,201.4 | 3,188.8 | 10.9 | 10.1 | 160.71 | -37.7 | 182.2 | 114.4 | 93.7 | 20.74 | 5.515 | | |
| 3,300.0 | 3,274.8 | 3,201.4 | 3,287.9 | 11.3 | 10.8 | 160.61 | -39.8 | 194.2 | 120.2 | 98.7 | 21.47 | 5.598 | | |
| | | ··· – | | - | | | | | | | | | | |
| 3,400.0 | 3,373.3 | 3,400.0 | 3,386.0 | 11.7 | 11.3 | 160.63 | -41.8 | 205.6 | 126.5 | 104.1 | 22.32 | 5.666 | | |
| 3,500.0 | 3,471.8 | 3,498.9 | 3,484.3 | 12.1 | 11.7 | 160.83 | -43.7 | 216.2 | 133.4 | 110.4 | 23.07 | 5.784 | | |
| 3,600.0 | 3,570.3 | 3,597.5 | 3,582.4 | 12.6 | 12.1 | 161.17 | -45.4 | 225.9 | 141.2 | 117.3 | 23.83 | 5.923 | | |
| 3,700.0 | 3,668.8 | 3,696.1 | 3,680.5 | 13.0 | 12.4 | 161.63 | -47.0 | 234.7 | 149.7 | 125.1 | 24.61 | 6.083 | | |
| 3,800.0 | 3,767.2 | 3,794.5 | 3,778.6 | 13.4 | 12.8 | 162.19 | -48.4 | 242.8 | 158.9 | 133.5 | 25.39 | 6.261 | | |
| 3,900.0 | 3,865.7 | 3,892.7 | 3,876.6 | 13.9 | 13.2 | 162.81 | -49.7 | 250.0 | 169.0 | 142.8 | 26.17 | 6.457 | | |
| 4,000.0 | 3,964.2 | 3,990.7 | 3,974.4 | 14.3 | 13.5 | 163.49 | -50.8 | 256.3 | 179.8 | 152.8 | 26.95 | 6.670 | | |
| 4,100.0 | 4,062.7 | 4,088.6 | 4,072.1 | 14.7 | 13.8 | 164.19 | -51.8 | 261.8 | 191.4 | 163.7 | 27.74 | 6.900 | | |
| 4,200.0 | 4,161.2 | 4,186.3 | 4,169.7 | 15.2 | 14.1 | 164.92 | -52.6 | 266.5 | 203.8 | 175.3 | 28.51 | 7.147 | | |
| 4,300.0 | 4,259.7 | 4,283.8 | 4,267.1 | 15.6 | 14.5 | 165.66 | -53.3 | 270.3 | 217.0 | 187.7 | 29.28 | 7.411 | | |
| 4 400 0 | 4 050 1 | 4 004 - | 4 00 4 0 | | | 400.00 | 50 0 | 070 4 | 004.0 | 001.0 | ~~~ | 7 000 | | |
| 4,400.0 4,500.0 | 4,358.1 4,456.6 | 4,381.0 4,478.0 | 4,364.2 4,461.2 | 16.0 16.5 | 14.8 15.0 | 166.39 167.11 | -53.8 -54.2 | 273.4 275.6 | 231.0 245.8 | 201.0 215.0 | 30.04 30.78 | 7.690 7.987 | | |
| 4,500.0 4,600.0 | 4,456.6 | 4,478.0 4,574.7 | 4,461.2 | 16.5 16.9 | 15.0 | 167.82 | -54.2 -54.4 | 275.6 | 245.8 261.4 | 215.0 229.9 | 30.78 31.49 | 7.987 8.301 | | |
| 4,800.0 | 4,653.6 | 4,574.7 | 4,557.9 | 16.9 | 15.3 | 167.82 | -54.4 -54.5 | 277.6 | 201.4 | 229.9 245.7 | 31.49 | 8.647 | | |
| 4,800.0 | 4,055.0 | 4,071.2 | 4,054.4 | 17.4 | 15.6 | 169.18 | -54.5 | 277.6 | 294.9 | 243.7 | 32.15 | 9.003 | | |
| .,500.0 | .,, 02.1 | .,, 00.1 | .,. 02.4 | 17.0 | 10.0 | | 34.0 | 211.0 | 204.0 | 202.1 | 52.10 | 0.000 | | |

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation 7/4/2023 1:27:01PM

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COMPASS 5000.17 Build

Anticollision Report

| Company: | DELAWARE BASIN EAST | Local Co-ordinate Reference: | Well AKUBRA FED COM #704H - Slot AKUBRA FED COM #704H |
|--------------------|-------------------------|------------------------------|--|
| Project: | BULLDOG PROSPECT (NM-E) | TVD Reference: | RKB=25ft @ 3217.0usft |
| Reference Site: | AKUBRA PROJECT | MD Reference: | RKB=25ft @ 3217.0usft |
| Site Error: | 0.0 usft | North Reference: | Grid |
| Reference Well: | AKUBRA FED COM #704H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.0 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OWB | Database: | EDT 17 Central Planning Prod |
| Reference Design: | PWP1 | Offset TVD Reference: | Offset Datum |

| Offset De | sign: Al | KUBRA PRO | DJECT - | AKUBRA FE | ED COM # | 603H - OWB - F | PWP1 | | | | | | Offset Site Error: | 0.0 usft |
|------------------|-------------------|------------------|-----------------|---------------------|----------------------|-----------------|-----------------|-----------------|-------------------|--------------------|----------------------|------------|--------------------|----------|
| Survey Prog | | | | | | r.5 MWD+IFR1+MS | | | | Rule Assi | gned: | | Offset Well Error: | 3.0 usft |
| Refe Measured | rence Vertical | Off: Measured | set Vertical | Semi I Reference | Major Axis Offset | Highside | Offset Wellb | | Dis Between | tance Between | Minimum | Separation | Warning | |
| Depth (usft) | Depth (usft) | Depth (usft) | Depth (usft) | (usft) | (usft) | Toolface (°) | +N/-S (usft) | +E/-W (usft) | Centres (usft) | Ellipses (usft) | Separation (usft) | Factor | | |
| 4,900.0 | 4,850.5 | | 4,850.8 | 18.2 | 15.6 | 169.78 | -54.5 | 277.6 | 311.9 | 278.6 | 33.34 | 9.358 | | |
| 5,000.0 | 4,949.0 | | 4,949.3 | 18.7 | 15.7 | 170.31 | -54.5 | 277.6 | 329.1 | 295.2 | 33.89 | 9.708 | | |
| 5,100.0 | 5,047.5 | 5,064.6 | 5,047.8 | 19.1 | 15.7 | 170.80 | -54.5 | 277.6 | 346.2 | 311.7 | 34.45 | 10.049 | | |
| 5,200.0 | 5,146.0 | 5,163.1 | 5,146.3 | 19.6 | 15.8 | 171.24 | -54.5 | 277.6 | 363.4 | 328.3 | 35.01 | 10.379 | | |
| 5,300.0 | 5,244.5 | | 5,244.8 | 20.0 | 15.8 | 171.63 | -54.5 | 277.6 | 380.5 | 345.0 | 35.57 | 10.699 | | |
| 5,400.0 | 5,342.9 | 5,360.0 | 5,343.2 | 20.5 | 15.8 | 172.00 | -54.5 | 277.6 | 397.7 | 361.6 | 36.13 | 11.010 | | |
| 5,500.0 | 5,441.4 | 5,458.5 | 5,441.7 | 20.9 | 15.9 | 172.33 | -54.5 | 277.6 | 414.9 | 378.2 | 36.68 | 11.311 | | |
| 5,600.0 | 5,539.9 | 5,557.0 | 5,540.2 | 21.4 | 15.9 | 172.64 | -54.5 | 277.6 | 432.2 | 394.9 | 37.25 | 11.603 | | |
| 5,700.0 | 5,638.4 | 5,655.5 | 5,638.7 | 21.8 | 16.0 | 172.92 | -54.5 | 277.6 | 449.4 | 411.6 | 37.81 | 11.886 | | |
| 5,800.0 | 5,736.9 | | 5,737.2 | 22.3 | 16.0 | 173.18 | -54.5 | 277.6 | 466.6 | 428.3 | 38.37 | 12.161 | | |
| 5,900.0 | 5,835.3 | 5,852.4 | 5,835.6 | 22.7 | 16.1 | 173.43 | -54.5 | 277.6 | 483.9 | 444.9 | 38.94 | 12.428 | | |
| 6,000.0 | 5,933.8 | 5,950.9 | 5,934.1 | 23.2 | 16.1 | 173.66 | -54.5 | 277.6 | 501.1 | 461.6 | 39.50 | 12.686 | | |
| 6,100.0 | 6,032.3 | 6,049.4 | 6,032.6 | 23.6 | 16.2 | 173.87 | -54.5 | 277.6 | 518.4 | 478.3 | 40.07 | 12.937 | | |
| 6,148.4 | 6,080.0 | | 6,080.3 | 23.8 | 16.2 | 173.97 | -54.5 | 277.6 | 526.8 | 486.4 | 40.34 | 13.059 | | |
| 6,200.0 | 6,130.8 | 6,147.9 | 6,131.1 | 24.0 | 16.2 | 174.07 | -54.5 | 277.6 | 535.6 | 494.9 | 40.62 | 13.185 | | |
| 6,300.0 | 6,229.4 | 6,246.5 | 6,229.7 | 24.5 | 16.3 | 174.26 | -54.5 | 277.6 | 552.0 | 510.8 | 41.18 | 13.402 | | |
| 6,400.0 | 6,328.2 | 6,345.3 | 6,328.5 | 24.9 | 16.3 | 174.42 | -54.5 | 277.6 | 567.5 | 525.8 | 41.74 | 13.595 | | |
| 6,500.0 | 6,427.1 | 6,444.2 | 6,427.4 | 25.4 | 16.4 | 174.57 | -54.5 | 277.6 | 582.2 | 539.9 | 42.30 | 13.764 | | |
| 6,600.0 | 6,526.1 | 6,543.2 | 6,526.4 | 25.8 | 16.4 | 174.70 | -54.5 | 277.6 | 596.1 | 553.2 | 42.85 | 13.910 | | |
| 6,700.0 | 6,625.3 | | 6,625.6 | 26.2 | 16.5 | 174.82 | -54.5 | 277.6 | 609.0 | 565.7 | 43.39 | 14.035 | | |
| 6,800.0 | 6,724.5 | 6,741.6 | 6,724.8 | 26.6 | 16.5 | 174.93 | -54.5 | 277.6 | 621.2 | 577.2 | 43.93 | 14.139 | | |
| 6,900.0 | 6,823.9 | 6,841.0 | 6,824.2 | 27.0 | 16.6 | 175.02 | -54.5 | 277.6 | 632.4 | 588.0 | 44.46 | 14.224 | | |
| 7,000.0 | 6,923.4 | 6,940.4 | 6,923.7 | 27.4 | 16.6 | 175.11 | -54.5 | 277.6 | 642.8 | 597.9 | 44.99 | 14.290 | | |
| 7,100.0 | 7,022.9 | 7,040.0 | 7,023.2 | 27.8 | 16.7 | 175.18 | -54.5 | 277.6 | 652.4 | 606.9 | 45.50 | 14.338 | | |
| 7,200.0 | 7,122.5 | | 7,122.8 | 28.2 | 16.7 | 175.25 | -54.5 | 277.6 | 661.0 | 615.0 | 46.00 | 14.369 | | |
| 7,300.0 | 7,222.2 | 7,239.3 | 7,222.5 | 28.6 | 16.8 | 175.31 | -54.5 | 277.6 | 668.9 | 622.4 | 46.50 | 14.384 | | |
| 7,400.0 | 7,322.0 | 7,339.0 | 7,322.3 | 29.0 | 16.8 | 175.36 | -54.5 | 277.6 | 675.8 | 628.8 | 46.98 | 14.384 | | |
| 7,500.0 | 7,421.8 | 7,438.9 | 7,422.1 | 29.3 | 16.9 | 175.40 | -54.5 | 277.6 | 681.9 | 634.4 | 47.45 | 14.369 | | |
| 7,600.0 | 7,521.6 | | 7,521.9 | 29.7 | 16.9 | 175.44 | -54.5 | 277.6 | 687.1 | 639.2 | 47.91 | 14.341 | | |
| 7,700.0 | 7,621.5 | | 7,621.8 | 30.0 | 17.0 | 175.47 | -54.5 | 277.6 | 691.4 | 643.1 | 48.35 | 14.300 | | |
| 7,800.0 | 7,721.5 | 7,738.6 | 7,721.8 | 30.3 | 17.0 | 175.50 | -54.5 | 277.6 | 694.9 | 646.1 | 48.77 | 14.248 | | |
| 7,900.0 | 7,821.5 | 7,838.5 | 7,821.8 | 30.6 | 17.1 | 175.51 | -54.5 | 277.6 | 697.5 | 648.3 | 49.17 | 14.186 | | |
| 8,000.0 | 7,921.4 | 7,938.5 | 7,921.7 | 30.9 | 17.1 | 175.53 | -54.5 | 277.6 | 699.2 | 649.7 | 49.53 | 14.116 | | |
| 8,100.0 | 8,021.4 | 8,038.5 | 8,021.7 | 31.1 | 17.2 | 175.53 | -54.5 | 277.6 | 700.0 | 650.2 | 49.84 | 14.045 | | |
| 8,148.4 | 8,069.9 | | 8,070.2 | 31.2 | 17.2 | -94.47 | -54.5 | 277.6 | 700.1 | 650.2 | 49.92 | 14.025 | | |
| 8,200.0 | 8,121.4 | 8,138.5 | 8,121.7 | 31.2 | 17.2 | -94.47 | -54.5 | 277.6 | 700.1 | 650.2 | 49.94 | 14.018 | | |
| 8,300.0 | 8,221.4 | 8,238.5 | 8,221.7 | 31.2 | 17.3 | -94.47 | -54.5 | 277.6 | 700.1 | 650.1 | 50.01 | 14.000 | | |
| 8,400.0 | 8,321.4 | 8,338.5 | 8,321.7 | 31.2 | 17.4 | -94.47 | -54.5 | 277.6 | 700.1 | 650.1 | 50.08 | 13.982 | | |
| 8,500.0 | 8,421.4 | 8,438.5 | 8,421.7 | 31.2 | 17.4 | -94.47 | -54.5 | 277.6 | 700.1 | 650.0 | 50.14 | 13.963 | | |
| 8,600.0 | 8,521.4 | 8,538.5 | 8,521.7 | 31.3 | 17.5 | -94.47 | -54.5 | 277.6 | 700.1 | 649.9 | 50.21 | 13.945 | | |
| 8,700.0 | 8,621.4 | 8,638.5 | 8,621.7 | 31.3 | 17.5 | -94.47 | -54.5 | 277.6 | 700.1 | 649.9 | 50.28 | 13.926 | | |
| 8,800.0 | 8,721.4 | 8,738.5 | 8,721.7 | 31.3 | 17.6 | -94.47 | -54.5 | 277.6 | 700.1 | 649.8 | 50.34 | 13.907 | | |
| 8,900.0 | 8,821.4 | | 8,821.7 | 31.3 | 17.6 | -94.47 | -54.5 | 277.6 | 700.1 | 649.7 | 50.41 | 13.888 | | |
| 9,000.0 | 8,921.4 | 8,938.5 | 8,921.7 | 31.4 | 17.7 | -94.47 | -54.5 | 277.6 | 700.1 | 649.7 | 50.48 | 13.870 | | |
| 9,100.0 | 9,021.4 | | 9,021.7 | 31.4 | 17.7 | -94.47 | -54.5 | 277.6 | 700.1 | 649.6 | 50.55 | 13.851 | | |
| 9,200.0 | 9,121.4 | 9,138.5 | 9,121.7 | 31.4 | 17.8 | -94.47 | -54.5 | 277.6 | 700.1 | 649.5 | 50.62 | 13.832 | | |
| 9,300.0 | 9,221.4 | 9,238.5 | 9,221.7 | 31.4 | 17.8 | -94.47 | -54.5 | 277.6 | 700.1 | 649.5 | 50.69 | 13.813 | | |
| 9,400.0 | 9,321.4 | | 9,321.7 | 31.5 | 17.9 | -94.47 | -54.5 | 277.6 | 700.1 | 649.4 | 50.76 | 13.794 | | |
| 9,500.0 | 9,421.4 | 9,438.5 | 9,421.7 | 31.5 | 18.0 | -94.47 | -54.5 | 277.6 | 700.1 | 649.3 | 50.83 | 13.774 | | |
| 9,600.0 | 9,521.4 | | 9,521.7 | 31.5 | 18.0 | -94.47 | -54.5 | 277.6 | 700.1 | 649.2 | 50.90 | 13.755 | | |
| 9,700.0 | 9,621.4 | 9,638.5 | 9,621.7 | 31.5 | 18.1 | -94.47 | -54.5 | 277.6 | 700.1 | 649.2 | 50.97 | 13.736 | | |
| | | | | | | | | | | | | | | |

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation 7/4/2023 1:27:01PM

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Anticollision Report

| Company: | DELAWARE BASIN EAST | Local Co-ordinate Reference: | Well AKUBRA FED COM #704H - Slot AKUBRA FED COM #704H |
|--------------------|-------------------------|------------------------------|--|
| Project: | BULLDOG PROSPECT (NM-E) | TVD Reference: | RKB=25ft @ 3217.0usft |
| Reference Site: | AKUBRA PROJECT | MD Reference: | RKB=25ft @ 3217.0usft |
| Site Error: | 0.0 usft | North Reference: | Grid |
| Reference Well: | AKUBRA FED COM #704H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.0 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OWB | Database: | EDT 17 Central Planning Prod |
| Reference Design: | PWP1 | Offset TVD Reference: | Offset Datum |

| Offset De | sign: AK | (UBRA PRO | DJECT - | AKUBRA FE | ED COM # | 603H - OWB - F | PWP1 | | | | | | Offset Site Error: | 0.0 usft |
|----------------------|----------------------|----------------------|----------------------|---------------------|----------------------|------------------|-----------------|-----------------|-------------------|--------------------|----------------------|------------------|--------------------|----------|
| Survey Prog | | | | | | r.5 MWD+IFR1+MS | | | | Rule Assi | gned: | | Offset Well Error: | 3.0 usft |
| Refe Measured | rence Vertical | Offs Measured | set Vertical | Semi I Reference | Major Axis Offset | Highside | Offset Wellb | ore Centre | Dis Between | tance Between | Minimum | Separation | Warning | |
| Depth (usft) | Depth (usft) | Depth (usft) | Depth (usft) | (usft) | (usft) | Toolface (°) | +N/-S (usft) | +E/-W (usft) | Centres (usft) | Ellipses (usft) | Separation (usft) | Factor | | |
| 9,800.0 | 9,721.4 | 9,738.5 | 9,721.7 | | 18.1 | -94.47 | -54.5 | 277.6 | 700.1 | 649.1 | 51.04 | 13.717 | | |
| 9,900.0 | 9,821.4 | 9,838.5 | 9,821.7 | | 18.2 | -94.47 | -54.5 | 277.6 | 700.1 | 649.0 | 51.12 | 13.697 | | |
| 10,000.0 | 9,921.4 | 9,938.5 | 9,921.7 | 31.6 | 18.2 | -94.47 | -54.5 | 277.6 | 700.1 | 649.0 | 51.19 | 13.678 | | |
| 10,100.0 | 10,021.4 | 10,038.5 | 10,021.7 | 31.6 | 18.3 | -94.47 | -54.5 | 277.6 | 700.1 | 648.9 | 51.26 | 13.658 | | |
| 10,200.0 | 10,121.4 | 10,138.5 | 10,121.7 | 31.7 | 18.4 | -94.47 | -54.5 | 277.6 | 700.1 | 648.8 | 51.34 | 13.639 | | |
| 10,300.0 | 10,221.4 | 10,238.5 | 10,221.7 | 31.7 | 18.4 | -94.47 | -54.5 | 277.6 | 700.1 | 648.7 | 51.41 | 13.619 | | |
| 10,400.0 | 10,321.4 | 10,338.5 | 10,321.7 | 31.7 | 18.5 | -94.47 | -54.5 | 277.6 | 700.1 | 648.7 | 51.48 | 13.600 | | |
| 10,500.0 | 10,421.4 | 10,438.5 | 10,421.7 | 31.8 | 18.5 | -94.47 | -54.5 | 277.6 | 700.1 | 648.6 | 51.56 | 13.580 | | |
| 10,600.0 | 10,521.4 | 10,538.5 | 10,521.7 | 31.8 | 18.6 | -94.47 | -54.5 | 277.6 | 700.1 | 648.5 | 51.63 | 13.560 | | |
| 10,700.0 | 10,621.4 | 10,638.5 | 10,621.7 | | 18.6 | -94.47 | -54.5 | 277.6 | 700.1 | 648.4 | 51.71 | 13.540 | | |
| 10,800.0 | 10,721.4 | 10,738.5 | 10,721.7 | 31.8 | 18.7 | -94.47 | -54.5 | 277.6 | 700.1 | 648.4 | 51.78 | 13.520 | | |
| 10,900.0 | 10,821.4 | 10,838.5 | 10,821.7 | 31.9 | 18.8 | -94.47 | -54.5 | 277.6 | 700.1 | 648.3 | 51.86 | 13.501 | | |
| 11,000.0 | 10,921.4 | 10,938.5 | 10,921.7 | 31.9 | 18.8 | -94.47 | -54.5 | 277.6 | 700.1 | 648.2 | 51.94 | 13.481 | | |
| 11,100.0 | 11,021.4 | 11,038.5 | 11,021.7 | 31.9 | 18.9 | -94.47 | -54.5 | 277.6 | 700.1 | 648.1 | 52.01 | 13.461 | | |
| 11,200.0 | 11,121.4 | 11,138.5 | 11,121.7 | | 18.9 | -94.47 | -54.5 | 277.6 | 700.1 | 648.1 | 52.09 | 13.441 | | |
| 11,300.0 | 11,221.4 | 11,238.5 | 11,221.7 | 32.0 | 19.0 | -94.47 | -54.5 | 277.6 | 700.1 | 648.0 | 52.17 | 13.421 | | |
| 11,400.0 | 11,321.4 | 11,338.5 | 11,321.7 | 32.0 | 19.1 | -94.47 | -54.5 | 277.6 | 700.1 | 647.9 | 52.25 | 13.401 | | |
| 11,500.0 | 11,421.4 | 11,438.5 | 11,421.7 | 32.0 | 19.1 | -94.47 | -54.5 | 277.6 | 700.1 | 647.8 | 52.33 | 13.380 | | |
| 11,600.0 | 11,521.4 | 11,538.5 | 11,521.7 | 32.1 | 19.2 | -94.47 | -54.5 | 277.6 | 700.1 | 647.7 | 52.40 | 13.360 | | |
| 11,700.0 | 11,621.4 | 11,638.5 | 11,621.7 | 32.1 | 19.2 | -94.47 | -54.5 | 277.6 | 700.1 | 647.7 | 52.48 | 13.340 | | |
| 11,800.0 | 11,721.4 | 11,738.5 | 11,721.7 | 32.1 | 19.3 | -94.47 | -54.5 | 277.6 | 700.1 | 647.6 | 52.56 | 13.320 | | |
| 11,900.0 | 11,821.4 | 11,839.8 | 11,823.0 | 32.2 | 19.3 | -94.45 | -54.4 | 277.6 | 700.1 | 647.5 | 52.64 | 13.300 | | |
| 12,000.0 | 11,921.4 | 11,948.2 | 11,930.2 | 32.2 | 19.4 | -93.22 | -39.3 | 277.5 | 699.3 | 646.5 | 52.79 | 13.247 | | |
| 12,097.0 | 12,018.4 | 12,042.7 | 12,018.7 | 32.2 | 19.4 | -90.56 | -6.8 | 277.2 | 698.5 | 645.7 | 52.86 | 13.215 | | |
| 12,100.0 | 12,021.4 | 12,045.4 | 12,021.2 | 32.2 | 19.4 | -90.46 | -5.6 | 277.1 | 698.5 | 645.7 | 52.86 | 13.215 | | |
| 12,200.0 | 12,121.4 | 12,126.6 | 12,090.6 | 32.3 | 19.4 | -87.03 | 36.2 | 276.7 | 700.5 | 647.8 | 52.72 | 13.289 | | |
| 12,201.1 | 12,122.5 | 12,127.4 | 12,091.3 | 32.3 | 19.4 | -86.99 | 36.7 | 276.7 | 700.6 | 647.9 | 52.71 | 13.291 | | |
| 12,225.0 | 12,146.4 | 12,144.6 | 12,105.0 | 32.3 | 19.4 | -85.01 | 47.1 | 276.6 | 701.8 | 649.2 | 52.61 | 13.340 | | |
| 12,250.0 | 12,171.3 | 12,162.4 | 12,118.8 | | 19.4 | -84.00 | 58.3 | 276.5 | 703.3 | 650.8 | 52.51 | 13.392 | | |
| 12,275.0 | 12,196.1 | 12,179.9 | 12,131.9 | | 19.4 | -83.00 | 69.8 | 276.4 | 705.0 | 652.6 | 52.42 | 13.450 | | |
| 12,300.0 | 12,220.7 | 12,197.2 | 12,144.5 | 32.3 | 19.4 | -82.01 | 81.7 | 276.3 | 707.0 | 654.6 | 52.32 | 13.512 | | |
| 12,325.0 | 12,245.0 | 12,214.2 | 12,156.5 | 32.3 | 19.4 | -81.03 | 93.8 | 276.2 | 709.1 | 656.9 | 52.22 | 13.577 | | |
| 12,350.0 | 12,269.0 | 12,231.1 | 12,167.8 | | 19.4 | -80.06 | 106.2 | 276.1 | 711.4 | 659.2 | 52.13 | 13.646 | | |
| 12,375.0 | 12,292.6 | 12,250.0 | 12,180.1 | 32.3 | 19.4 | -79.02 | 120.6 | 275.9 | 713.8 | 661.8 | 52.05 | 13.715 | | |
| 12,400.0 | 12,315.7 | 12,264.2 | 12,189.0 | | 19.4 | -78.17 | 131.8 | 275.8 | 716.3 | 664.4 | 51.96 | 13.785 | | |
| 12,425.0 | 12,338.3 | 12,280.6 | 12,198.7 | 32.3 | 19.4 | -77.26 | 144.9 | 275.7 | 719.0 | 667.1 | 51.89 | 13.856 | | |
| 12,450.0 | 12,360.3 | 12,300.0 | 12,209.7 | | 19.5 | -76.25 | 160.9 | 275.5 | 721.7 | 669.9 | 51.82 | 13.926 | | |
| 12,475.0 | 12,381.7 | 12,312.9 | 12,216.7 | | 19.5 | -75.49 | 171.8 | 275.4 | 724.4 | 672.7 | 51.77 | 13.993 | | |
| 12,500.0 | 12,402.3 | 12,328.9 | 12,224.8 | | 19.5 | -74.65 | 185.6 | 275.3 | 727.2 | 675.5 | 51.73 | 14.059 | | |
| 12,525.0 | 12,422.2 | 12,344.8 | 12,232.5 | | 19.5 | -73.84 | 199.5 | 275.2 | 730.0 | 678.3 | 51.69 | 14.123 | | |
| 12,550.0 | 12,441.2 | 12,360.6 | 12,239.7 | 32.3 | 19.5 | -73.05 | 213.6 | 275.0 | 732.8 | 681.1 | 51.66 | 14.184 | | |
| 12,575.0 | 12,459.4 | 12,375.0 | 12,245.8 | | 19.5 | -72.34 | 226.6 | 274.9 | 735.5 | 683.9 | 51.65 | 14.241 | | |
| 12,600.0 | 12,476.6 | 12,392.0 | 12,252.5 | | 19.5 | -71.59 | 242.2 | 274.8 | 738.2 | 686.6 | 51.64 | 14.296 | | |
| 12,625.0 | 12,492.9 | 12,407.5 | 12,258.1 | 32.3 | 19.5 | -70.90 | 256.7 | 274.6 | 740.8 | 689.2 | 51.64 | 14.346 | | |
| 12,650.0 | 12,508.2 | 12,425.0 | 12,263.9 | | 19.5 | -70.22 | 273.2 | 274.5 | 743.3 | 691.7 | 51.64 | 14.395 | | |
| 12,675.0 | 12,522.4 | 12,438.4 | 12,267.9 | 32.3 | 19.6 | -69.65 | 286.0 | 274.3 | 745.7 | 694.1 | 51.65 | 14.437 | | |
| 12,700.0 | 12,535.5 | 12,450.0 | 12,271.1 | 32.3 | 19.6 | -69.16 | 297.1 | 274.2 | 748.1 | 696.4 | 51.68 | 14.476 | | |
| 12,725.0 | 12,547.5 | 12,469.1 | 12,275.8 | | 19.6 | -68.56 | 315.6 | 274.0 | 750.2 | 698.5 | 51.69 | 14.513 | | |
| 12,750.0 12,775.0 | 12,558.3 | 12,484.4 12,500.0 | 12,279.0 | | 19.6 19.6 | -68.08 -67.63 | 330.6 345 9 | 273.9 273.7 | 752.3 | 700.5 | 51.72 51.75 | 14.545 14.573 | | |
| 12,775.0 | 12,567.9 12,576.3 | 12,500.0 12,514.8 | 12,281.8 12,283.9 | | 19.6 19.6 | -67.23 | 345.9 360.6 | 273.7 273.6 | 754.1 755.8 | 702.4 704.1 | 51.75 51.78 | 14.573 14.598 | | |
| | ,0.0.0 | ,01.1.0 | ,200.0 | 02.4 | | | 200.0 | 2.0.0 | | | 55 | | | |

7/4/2023 1:27:01PM

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

Anticollision Report

| Company: | DELAWARE BASIN EAST | Local Co-ordinate Reference: | Well AKUBRA FED COM #704H - Slot AKUBRA FED COM #704H |
|--------------------|-------------------------|------------------------------|--|
| Project: | BULLDOG PROSPECT (NM-E) | TVD Reference: | RKB=25ft @ 3217.0usft |
| Reference Site: | AKUBRA PROJECT | MD Reference: | RKB=25ft @ 3217.0usft |
| Site Error: | 0.0 usft | North Reference: | Grid |
| Reference Well: | AKUBRA FED COM #704H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.0 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OWB | Database: | EDT 17 Central Planning Prod |
| Reference Design: | PWP1 | Offset TVD Reference: | Offset Datum |

| Offset De | sign: Al | KUBRA PRO | DJECT - | AKUBRA FE | D COM # | 603H - OWB - F | PWP1 | | | | | | Offset Site Error: | 0.0 usft |
|----------------------|----------------------|----------------------|----------------------|---------------------|----------------------|------------------|--------------------|-----------------|-----------------|------------------|-----------------|----------------|--------------------|----------|
| Survey Prog | | | | | | r.5 MWD+IFR1+MS | | | | Rule Assi | gned: | | Offset Well Error: | 3.0 usft |
| Refe Measured | rence Vertical | Offs Measured | set Vertical | Semi I Reference | Major Axis Offset | Highside | Offset Wellb | ore Centre | Dist Between | tance Between | Minimum | Separation | Warning | |
| Depth | Depth | Depth | Depth | | | Toolface | +N/-S (usft) | +E/-W (usft) | Centres | Ellipses | Separation | Factor | - | |
| (usft) 12,825.0 | (usft) 12,583.4 | (usft) 12,530.0 | (usft) 12,285.7 | (usft) 32.4 | (usft) 19.7 | (°) -66.87 | 375.7 | 273.5 | (usft) 757.4 | (usft) 705.6 | (usft) 51.81 | 14.619 | | |
| 12,850.0 | 12,589.3 | 12,550.0 | 12,203.7 | 32.4 | 19.7 | -66.51 | 395.6 | 273.3 | 758.7 | 705.0 | 51.84 | 14.636 | | |
| 12,875.0 | 12,593.9 | 12,560.3 | 12,287.7 | 32.4 | 19.7 | -66.29 | 405.9 | 273.2 | 759.9 | 708.0 | 51.87 | 14.651 | | |
| 12,900.0 | 12,597.3 | 12,577.3 | 12,288.0 | 32.4 | 19.7 | -66.05 | 422.9 | 273.0 | 760.8 | 708.9 | 51.90 | 14.660 | | |
| 12,925.0 | 12,599.3 | 12,599.0 | 12,288.0 | 32.4 | 19.7 | -65.86 | 444.6 | 272.8 | 761.5 | 709.5 | 51.94 | 14.661 | | |
| 12,951.1 | 12,600.0 | 12,625.1 | 12,288.0 | 32.5 | 19.8 | -65.79 | 470.7 | 272.5 | 761.6 | 709.6 | 51.99 | 14.647 | | |
| 13,000.0 | 12,600.0 | 12,674.0 | 12,288.0 | 32.5 | 19.9 | -65.78 | 519.6 | 272.1 | 761.2 | 709.1 | 52.11 | 14.609 | | |
| 13,100.0 | 12,600.0 | 12,774.0 | 12,288.0 | 32.6 | 20.1 | -65.75 | 619.6 | 271.1 | 760.5 | 708.1 | 52.38 | 14.519 | | |
| 13,200.0 | 12,600.0 | 12,874.0 | 12,288.0 | 32.8 | 20.3 | -65.73 | 719.6 | 270.1 | 759.7 | 707.0 | 52.69 | 14.419 | | |
| 13,300.0 | 12,600.0 | 12,974.0 | 12,288.0 | 32.9 | 20.5 | -65.70 | 819.5 | 269.2 | 759.0 | 705.9 | 53.04 | 14.309 | | |
| 13,400.0 | 12,600.0 | 13,074.0 | 12,288.0 | 33.1 | 20.8 | -65.68 | 919.5 | 268.2 | 758.2 | 704.8 | 53.44 | 14.189 | | |
| 13,500.0 | 12,600.0 | 13,174.0 | 12,288.0 | 33.2 | 21.0 | -65.65 | 1,019.5 | 267.2 | 757.5 | 703.6 | 53.87 | 14.060 | | |
| 13,600.0 | 12,600.0 | 13,274.0 | 12,288.0 | 33.4 | 21.4 | -65.62 | 1,119.5 | 266.3 | 756.7 | 702.4 | 54.35 | 13.924 | | |
| 13,700.0 | 12,600.0 | 13,374.0 | 12,288.0 | 33.7 | 21.7 | -65.60 | 1,219.5 | 265.3 | 756.0 | 701.1 | 54.86 | 13.781 | | |
| 13,800.0 | 12,600.0 | 13,474.0 | 12,288.0 | 33.9 | 22.0 | -65.57 | 1,319.5 | 264.3 | 755.2 | 699.8 | 55.41 | 13.631 | | |
| 13,900.0 | 12,600.0 | 13,574.0 | 12,288.0 | 34.1 | 22.4 | -65.55 | 1,419.5 | 263.4 | 754.5 | 698.5 | 55.99 | 13.475 | | |
| 14,000.0 | 12,600.0 | 13,674.0 | 12,288.0 | 34.4 | 22.8 | -65.52 | 1,519.5 | 262.4 | 753.7 | 697.1 | 56.61 | 13.314 | | |
| 14,100.0 | 12,600.0 | 13,773.9 | 12,288.0 | 34.7 | 23.2 | -65.49 | 1,619.5 | 261.4 | 753.0 | 695.7 | 57.26 | 13.149 | | |
| 14,200.0 | 12,600.0 | 13,873.9 | 12,288.0 | 35.0 | 23.6 | -65.47 | 1,719.5 | 260.5 | 752.2 | 694.3 | 57.95 | 12.981 | | |
| 14,300.0 | 12,600.0 | 13,973.9 | 12,288.0 | 35.3 | 24.1 | -65.44 | 1,819.5 | 259.5 | 751.5 | 692.8 | 58.66 | 12.809 | | |
| 14,400.0 | 12,600.0 | 14,073.9 | 12,288.0 | 35.6 | 24.5 | -65.42 | 1,919.5 | 258.5 | 750.7 | 691.3 | 59.41 | 12.636 | | |
| 14,500.0 | 12,600.0 | 14,173.9 | 12,288.0 | 35.9 | 25.0 | -65.39 | 2,019.4 | 257.6 | 750.0 | 689.8 | 60.19 | 12.461 | | |
| 14,600.0 | 12,600.0 | 14,273.9 | 12,288.0 | 36.3 | 25.5 | -65.36 | 2,119.4 | 256.6 | 749.2 | 688.2 | 60.99 | 12.284 | | |
| 14,700.0 | 12,600.0 | 14,373.9 | 12,288.0 | 36.6 | 26.0 | -65.34 | 2,219.4 | 255.6 | 748.5 | 686.7 | 61.82 | 12.107 | | |
| 14,800.0 | 12,600.0 | 14,473.9 | 12,288.0 | 37.0 | 26.5 | -65.31 | 2,319.4 | 254.7 | 747.7 | 685.1 | 62.68 | 11.930 | | |
| 14,900.0 | 12,600.0 | 14,573.9 | 12,288.0 | 37.4 | 27.1 | -65.29 | 2,419.4 | 253.7 | 747.0 | 683.4 | 63.56 | 11.752 | | |
| 15,000.0 | 12,600.0 | 14,673.9 | 12,288.0 | 37.8 | 27.6 | -65.26 | 2,519.4 | 252.7 | 746.2 | 681.8 | 64.47 | 11.576 | | |
| 15,100.0 | 12,600.0 | 14,773.9 | 12,288.0 | 38.2 | 28.1 | -65.23 | 2,619.4 | 251.8 | 745.5 | 680.1 | 65.39 | 11.400 | | |
| 15,200.0 | 12,600.0 | 14,873.9 | 12,288.0 | 38.6 | 28.7 | -65.21 | 2,719.4 | 250.8 | 744.7 | 678.4 | 66.34 | 11.226 | | |
| 15,300.0 | 12,600.0 | 14,973.9 | 12,288.0 | 39.0 | 29.3 | -65.18 | 2,819.4 | 249.8 | 744.0 | 676.7 | 67.31 | 11.053 | | |
| 15,400.0 | 12,600.0 | 15,073.9 | 12,288.0 | 39.4 | 29.8 | -65.15 | 2,919.4 | 248.9 | 743.3 | 674.9 | 68.30 | 10.882 | | |
| 15,500.0 | 12,600.0 | 15,173.9 | 12,288.0 | 39.9 | 30.4 | -65.13 | 3,019.4 | 247.9 | 742.5 | 673.2 | 69.31 | 10.713 | | |
| 15,600.0 | 12,600.0 | 15,273.9 | 12,288.0 | 40.3 | 31.0 | -65.10 | 3,119.4 | 246.9 | 741.8 | 671.4 | 70.34 | 10.546 | | |
| 15,700.0 | 12,600.0 | 15,373.9 | 12,288.0 | 40.8 | 31.6 | -65.07 | 3,219.3 | 246.0 | 741.0 | 669.6 | 71.38 | 10.381 | | |
| 15,800.0 | 12,600.0 | 15,473.9 | 12,288.0 | 41.3 | 32.2 | -65.05 | 3,319.3 | 245.0 | 740.3 | 667.8 | 72.45 | 10.218 | | |
| 15,900.0 | 12,600.0 | 15,573.9 | 12,288.0 | 41.8 | 32.8 | -65.02 | 3,419.3 | 244.0 | 739.5 | 666.0 | 73.52 | 10.058 | | |
| 16,000.0 | 12,600.0 | 15,673.9 | 12,288.0 | 42.2 | 33.5 | -64.99 | 3,519.3 | 243.1 | 738.8 | 664.2 | 74.62 | 9.901 | | |
| 16,100.0 | 12,600.0 | 15,773.9 | 12,288.0 | 42.7 | 34.1 | -64.97 | 3,619.3 | 242.1 | 738.0 | 662.3 | 75.72 | 9.746 | | |
| 16,200.0 | 12,600.0 | 15,873.9 | 12,288.0 | 43.3 | 34.7 | -64.94 | 3,719.3 | 241.1 | 737.3 | 660.4 | 76.84 | 9.595 | | |
| 16,300.0 | 12,600.0 | 15,973.9 | 12,288.0 | 43.8 | 35.3 | -64.91 | 3,819.3 | 240.2 | 736.5 | 658.6 | 77.98 | 9.445 | | |
| 16,400.0 | 12,600.0 | 16,073.9 | 12,288.0 | 44.3 | 36.0 | -64.88 | 3,919.3 | 239.2 | 735.8 | 656.7 | 79.13 | 9.299 | | |
| 16,500.0 | 12,600.0 | 16,173.9 | 12,288.0 | 44.8 | 36.6 | -64.86 | 4,019.3 | 238.2 | 735.1 | 654.8 | 80.29 | 9.155 | | |
| 16,600.0 | 12,600.0 | 16,273.9 | 12,288.0 | 45.3 | 37.3 | -64.83 | 4,119.3 | 237.3 | 734.3 | 652.9 | 81.46 | 9.015 | | |
| 16,700.0 | 12,600.0 | 16,373.9 | 12,288.0 | 45.9 | 37.9 | -64.80 | 4,219.3 | 236.3 | 733.6 | 650.9 | 82.64 | 8.877 | | |
| 16,800.0 | 12,600.0 | 16,473.9 | 12,288.0 | 46.4 | 38.6 | -64.78 | 4,319.3 | 235.3 | 732.8 | 649.0 | 83.83 | 8.741 | | |
| 16,900.0 | 12,600.0 | 16,573.9 | 12,288.0 | 47.0 | 39.3 | -64.75 | 4,419.3 | 234.4 | 732.1 | 647.0 | 85.04 | 8.609 | | |
| 17,000.0 | 12,600.0 | 16,673.8 | 12,288.0 | 47.5 | 39.9 | -64.72 | 4,519.2 | 233.4 | 731.3 | 645.1 | 86.25 | 8.479 | | |
| 17,100.0 | 12,600.0 | 16,773.8 | 12,288.0 | 48.1 | 40.6 | -64.69 | 4,619.2 | 232.4 | 730.6 | 643.1 | 87.48 | 8.352 | | |
| 17,200.0 | 12,600.0 | 16,873.8 | 12,288.0 | 48.7 | 41.3 | -64.67 | 4,719.2 | 231.5 | 729.9 | 641.1 | 88.71 | 8.228 | | |
| 17,300.0 17,400.0 | 12,600.0 12,600.0 | 16,973.8 17,073.8 | 12,288.0 12,288.0 | 49.3 49.8 | 41.9 42.6 | -64.64 -64.61 | 4,819.2 4,919.2 | 230.5 229.5 | 729.1 728.4 | 639.2 637.2 | 89.95 91.20 | 8.106 7.987 | | |
| ,400.0 | ,000.0 | ,070.0 | .2,200.0 | -0.0 | 72.0 | 001 | .,010.2 | 220.0 | 720.4 | 301.2 | 51.20 | | | |

7/4/2023 1:27:01PM

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

Anticollision Report

| Company: | DELAWARE BASIN EAST | Local Co-ordinate Reference: | Well AKUBRA FED COM #704H - Slot AKUBRA FED COM #704H |
|--------------------|-------------------------|------------------------------|--|
| Project: | BULLDOG PROSPECT (NM-E) | TVD Reference: | RKB=25ft @ 3217.0usft |
| Reference Site: | AKUBRA PROJECT | MD Reference: | RKB=25ft @ 3217.0usft |
| Site Error: | 0.0 usft | North Reference: | Grid |
| Reference Well: | AKUBRA FED COM #704H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.0 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OWB | Database: | EDT 17 Central Planning Prod |
| Reference Design: | PWP1 | Offset TVD Reference: | Offset Datum |

| Offset De | sign: Ał | KUBRA PRO | OJECT - | AKUBRA FE | ED COM # | 603H - OWB - F | PWP1 | | | | | | Offset Site Error: | 0.0 usft |
|----------------------|----------------------|----------------------|----------------------|---------------------|----------------------|------------------|--------------------|-----------------|-------------------|--------------------|----------------------|----------------|--------------------|----------|
| Survey Prog | | | | | | r.5 MWD+IFR1+MS | | | | Rule Assi | gned: | | Offset Well Error: | 3.0 usft |
| Refe Measured | rence Vertical | Off Measured | set Vertical | Semi I Reference | Major Axis Offset | Highside | Offset Wellb | ore Centre | Dist Between | tance Between | Minimum | Separation | Warning | |
| Depth (usft) | Depth (usft) | Depth (usft) | Depth (usft) | (usft) | (usft) | Toolface (°) | +N/-S (usft) | +E/-W (usft) | Centres (usft) | Ellipses (usft) | Separation (usft) | Factor | - | |
| 17,500.0 | 12,600.0 | 17,173.8 | 12,288.0 | | 43.3 | -64.58 | 5,019.2 | 228.6 | 727.6 | 635.2 | 92.45 | 7.870 | | |
| 17,600.0 | 12,600.0 | 17,273.8 | 12,288.0 | 51.0 | 44.0 | -64.55 | 5,119.2 | 227.6 | 726.9 | 633.2 | 93.72 | 7.756 | | |
| 17,700.0 | 12,600.0 | 17,373.8 | 12,288.0 | 51.6 | 44.7 | -64.53 | 5,219.2 | 226.6 | 726.1 | 631.1 | 94.99 | 7.644 | | |
| 17,800.0 | 12,600.0 | 17,473.8 | 12,288.0 | 52.2 | 45.4 | -64.50 | 5,319.2 | 225.7 | 725.4 | 629.1 | 96.27 | 7.535 | | |
| 17,900.0 | 12,600.0 | 17,573.8 | 12,288.0 | 52.8 | 46.1 | -64.47 | 5,419.2 | 224.7 | 724.7 | 627.1 | 97.56 | 7.428 | | |
| 18,000.0 | 12,600.0 | 17,673.8 | 12,288.0 | 53.4 | 46.8 | -64.44 | 5,519.2 | 223.7 | 723.9 | 625.1 | 98.85 | 7.323 | | |
| 18,024.5 | 12,600.0 | 17,698.3 | 12,288.0 | 53.6 | 46.9 | -64.44 | 5,543.7 | 223.5 | 723.7 | 624.6 | 99.17 | 7.298 | | |
| 18,048.0 | 12,600.0 | 17,721.9 | 12,288.0 | 53.7 | 47.1 | -64.43 | 5,567.2 | 223.3 | 723.6 | 624.2 | 99.47 | 7.275 | | |
| 18,069.9 | 12,600.0 | 17,743.7 | 12,288.0 | 53.8 | 47.2 | -64.44 | 5,589.0 | 223.1 | 723.7 | 624.0 | 99.75 | 7.255 | | |
| 18,100.0 | 12,600.0 | 17,773.8 | 12,288.0 | 54.0 | 47.5 | -64.44 | 5,619.2 | 222.8 | 723.9 | 623.8 | 100.14 | 7.229 | | |
| 18,200.0 | 12,600.0 | 17,873.8 | 12,288.0 | 54.6 | 48.2 | -64.47 | 5,719.1 | 221.8 | 724.6 | 623.2 | 101.45 | 7.143 | | |
| 18,300.0 | 12,600.0 | 17,973.8 | 12,288.0 | 55.2 | 48.9 | -64.49 | 5,819.1 | 220.8 | 725.3 | 622.5 | 102.76 | 7.058 | | |
| 18,400.0 | 12,600.0 | 18,073.8 | 12,288.0 | 55.9 | 49.6 | -64.52 | 5,919.1 | 219.9 | 726.0 | 621.9 | 104.07 | 6.976 | | |
| 18,500.0 | 12,600.0 | 18,173.8 | 12,288.0 | | 50.3 | -64.55 | 6,019.1 | 218.9 | 726.7 | 621.3 | 105.39 | 6.895 | | |
| 18,600.0 | 12,600.0 | 18,273.8 | 12,288.0 | 57.1 | 51.0 | -64.57 | 6,119.1 | 217.9 | 727.4 | 620.6 | 106.72 | 6.816 | | |
| 18,700.0 | 12,600.0 | 18,373.8 | 12,288.0 | 57.7 | 51.7 | -64.60 | 6,219.1 | 217.0 | 728.1 | 620.0 | 108.05 | 6.738 | | |
| 18,800.0 | 12,600.0 | 18,473.8 | 12,288.0 | 58.4 | 52.4 | -64.62 | 6,319.1 | 216.0 | 728.7 | 619.4 | 109.38 | 6.662 | | |
| 18,900.0 | 12,600.0 | 18,573.8 | 12,288.0 | 59.0 | 53.1 | -64.65 | 6,419.1 | 215.0 | 729.4 | 618.7 | 110.72 | 6.588 | | |
| 19,000.0 | 12,600.0 | 18,673.8 | 12,288.0 | 59.7 | 53.8 | -64.68 | 6,519.1 | 214.1 | 730.1 | 618.0 | 112.07 | 6.515 | | |
| 19,100.0 | 12,600.0 | 18,773.8 | 12,288.0 | 60.3 | 54.5 | -64.70 | 6,619.1 | 213.1 | 730.8 | 617.4 | 113.42 | 6.444 | | |
| 19,200.0 | 12,600.0 | 18,873.8 | 12,288.0 | 60.9 | 55.2 | -64.73 | 6,719.1 | 212.1 | 731.5 | 616.7 | 114.77 | 6.374 | | |
| 19,300.0 | 12,600.0 | 18,973.8 | 12,288.0 | 61.6 | 55.9 | -64.75 | 6,819.1 | 211.2 | 732.2 | 616.1 | 116.13 | 6.305 | | |
| 19,400.0 | 12,600.0 | 19,073.8 | 12,288.0 | 62.2 | 56.7 | -64.78 | 6,919.1 | 210.2 | 732.9 | 615.4 | 117.49 | 6.238 | | |
| 19,500.0 | 12,600.0 | 19,173.8 | 12,288.0 | 62.9 | 57.4 | -64.80 | 7,019.1 | 209.2 | 733.6 | 614.7 | 118.85 | 6.172 | | |
| 19,600.0 | 12,600.0 | 19,273.8 | 12,288.0 | | 58.1 | -64.83 | 7,119.0 | 208.3 | 734.3 | 614.0 | 120.22 | 6.108 | | |
| 19,700.0 | 12,600.0 | 19,373.8 | 12,288.0 | 64.2 | 58.8 | -64.85 | 7,219.0 | 207.3 | 734.9 | 613.4 | 121.59 | 6.045 | | |
| 19,800.0 | 12,600.0 | 19,473.8 | 12,288.0 | 64.9 | 59.5 | -64.88 | 7,319.0 | 206.3 | 735.6 | 612.7 | 122.96 | 5.983 | | |
| 19,900.0 | 12,600.0 | 19,573.8 | 12,288.0 | 65.5 | 60.3 | -64.90 | 7,419.0 | 205.4 | 736.3 | 612.0 | 124.34 | 5.922 | | |
| 20,000.0 | 12,600.0 | 19,673.8 | 12,288.0 | 66.2 | 61.0 | -64.93 | 7,519.0 | 204.4 | 737.0 | 611.3 | 125.72 | 5.862 | | |
| 20,100.0 | 12,600.0 | 19,773.8 | 12,288.0 | | 61.7 | -64.95 | 7,619.0 | 203.4 | 737.7 | 610.6 | 127.10 | 5.804 | | |
| 20,200.0 | 12,600.0 | 19,873.8 | 12,288.0 | 67.5 | 62.4 | -64.98 | 7,719.0 | 202.5 | 738.4 | 609.9 | 128.49 | 5.747 | | |
| 20,300.0 | 12,600.0 | 19,973.7 | 12,288.0 | 68.2 | 63.2 | -65.00 | 7,819.0 | 201.5 | 739.1 | 609.2 | 129.88 | 5.691 | | |
| 20,400.0 | 12,600.0 | 20,073.7 | 12,288.0 | 68.9 | 63.9 | -65.03 | 7,919.0 | 200.5 | 739.8 | 608.5 | 131.27 | 5.636 | | |
| 20,500.0 | 12,600.0 | 20,173.7 | 12,288.0 | | 64.6 | -65.05 | 8,019.0 | 199.6 | 740.5 | 607.8 | 132.66 | 5.581 | | |
| 20,600.0 | 12,600.0 | 20,273.7 | 12,288.0 | | 65.4 | -65.08 | 8,119.0 | 198.6 | 741.2 | 607.1 | 134.06 | 5.528 | | |
| 20,700.0 | 12,600.0 | 20,373.7 | 12,288.0 | 70.9 | 66.1 | -65.10 | 8,219.0 | 197.6 | 741.8 | 606.4 | 135.46 | 5.476 | | |
| 20,800.0 | 12,600.0 | 20,473.7 | 12,288.0 | 71.6 | 66.8 | -65.13 | 8,319.0 | 196.7 | 742.5 | 605.7 | 136.86 | 5.425 | | |
| 20,900.0 | 12,600.0 | 20,573.7 | 12,288.0 | 72.3 | 67.5 | -65.15 | 8,418.9 | 195.7 | 743.2 | 605.0 | 138.27 | 5.375 | | |
| 21,000.0 | 12,600.0 | 20,673.7 | 12,288.0 | 73.0 | 68.3 | -65.18 | 8,518.9 | 194.7 | 743.9 | 604.3 | 139.67 | 5.326 | | |
| 21,100.0 | 12,600.0 | 20,773.7 | 12,288.0 | 73.6 | 69.0 | -65.20 | 8,618.9 | 193.8 | 744.6 | 603.5 | 141.08 | 5.278 | | |
| 21,200.0 | 12,600.0 | 20,873.7 | 12,288.0 | 74.3 | 69.7 | -65.23 | 8,718.9 | 192.8 | 745.3 | 602.8 | 142.49 | 5.231 | | |
| 21,300.0 | 12,600.0 | 20,973.7 | 12,288.0 | | 70.5 | -65.25 | 8,818.9 | 191.8 | 746.0 | 602.1 | 143.90 | 5.184 | | |
| 21,400.0 | 12,600.0 | 21,073.7 | 12,288.0 | | 71.2 | -65.28 | 8,918.9 | 190.9 | 746.7 | 601.4 | 145.32 | 5.138 | | |
| 21,500.0 | 12,600.0 | 21,173.7 | 12,288.0 | | 72.0 | -65.30 | 9,018.9 | 189.9 | 747.4 | 600.6 | 146.73 | 5.093 | | |
| 21,600.0 21,700.0 | 12,600.0 12,600.0 | 21,273.7 21,373.7 | 12,288.0 12,288.0 | 77.1 77.8 | 72.7 73.4 | -65.32 -65.35 | 9,118.9 9,218.9 | 188.9 188.0 | 748.1 748.8 | 599.9 599.2 | 148.15 149.57 | 5.049 5.006 | | |
| | | | | | | | | | | | | | | |
| 21,800.0 21,900.0 | 12,600.0 12,600.0 | 21,473.7 21,573.7 | 12,288.0 12,288.0 | 78.5 79.2 | 74.2 74.9 | -65.37 -65.40 | 9,318.9 9,418.9 | 187.0 186.0 | 749.5 750.2 | 598.5 597.7 | 150.99 152.42 | 4.963 4.922 | | |
| 21,900.0 | 12,600.0 | 21,573.7 21,673.7 | 12,288.0 | | 74.9 75.6 | -65.40 | 9,418.9 9,518.9 | 185.1 | 750.2 | 597.7 | 152.42 | 4.922 | | |
| 22,000.0 | 12,600.0 | 21,073.7 | 12,288.0 | | 76.4 | -65.45 | 9,618.9 | 185.1 | 750.8 | 596.3 | 155.27 | 4.840 | | |
| 22,100.0 | 12,600.0 | 21,873.7 | 12,288.0 | | 70.4 | -65.47 | 9,718.8 | 183.1 | 752.2 | 595.5 | 156.70 | 4.801 | | |
| | | | | | | | | | | | | | | |

7/4/2023 1:27:01PM

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation Page 9

Anticollision Report

| Company: | DELAWARE BASIN EAST | Local Co-ordinate Reference: | Well AKUBRA FED COM #704H - Slot AKUBRA FED COM #704H |
|--------------------|-------------------------|------------------------------|--|
| Project: | BULLDOG PROSPECT (NM-E) | TVD Reference: | RKB=25ft @ 3217.0usft |
| Reference Site: | AKUBRA PROJECT | MD Reference: | RKB=25ft @ 3217.0usft |
| Site Error: | 0.0 usft | North Reference: | Grid |
| Reference Well: | AKUBRA FED COM #704H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.0 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OWB | Database: | EDT 17 Central Planning Prod |
| Reference Design: | PWP1 | Offset TVD Reference: | Offset Datum |

| Offset Des | sign: AK | UBRA PRO | DJECT - A | KUBRA FE | D COM # | 603H - OWB - | PWP1 | | | | | | Offset Site Error: | 0.0 usft |
|--|---|----------|-----------|----------|---------|--------------|----------|-------------------------------|----------|--------|--------|-------|--------------------|----------|
| Survey Progr Refer Measured Depth | erence Offset Semi Major Axis Offset Wellbore Centre Distance Vertical Measured Vertical Reference Offset Highside Between Between Minimum Separation Depth Depth Depth Toolface +N/-S +E/-W Centres Ellipses Separation Factor | | | | | | | Offset Well Error: Warning | 3.0 usft | | | | | |
| (usft) | (usft) | (usft) | (usft) | (usft) | (usft) | (°) | (usft) | (usft) | (usft) | (usft) | (usft) | | | |
| 22,300.0 | 12,600.0 | 21,973.7 | 12,288.0 | 82.0 | 77.9 | -65.49 | 9,818.8 | 182.2 | 752.9 | 594.8 | 158.13 | 4.762 | | |
| 22,400.0 | 12,600.0 | 22,073.7 | 12,288.0 | 82.7 | 78.6 | -65.52 | 9,918.8 | 181.2 | 753.6 | 594.1 | 159.56 | 4.723 | | |
| 22,500.0 | 12,600.0 | 22,173.7 | 12,288.0 | 83.4 | 79.3 | -65.54 | 10,018.8 | 180.2 | 754.3 | 593.3 | 160.99 | 4.685 | | |
| 22,600.0 | 12,600.0 | 22,273.7 | 12,288.0 | 84.1 | 80.1 | -65.57 | 10,118.8 | 179.3 | 755.0 | 592.6 | 162.43 | 4.648 | | |
| 22,700.0 | 12,600.0 | 22,373.7 | 12,288.0 | 84.8 | 80.8 | -65.59 | 10,218.8 | 178.3 | 755.7 | 591.8 | 163.86 | 4.612 | | |
| 22,800.0 | 12,600.0 | 22,473.7 | 12,288.0 | 85.5 | 81.6 | -65.61 | 10,318.8 | 177.3 | 756.4 | 591.1 | 165.30 | 4.576 | | |
| 22,900.0 | 12,600.0 | 22,573.7 | 12,288.0 | 86.2 | 82.3 | -65.64 | 10,418.8 | 176.4 | 757.1 | 590.4 | 166.74 | 4.541 | | |
| 23,000.0 | 12,600.0 | 22,673.7 | 12,288.0 | 86.9 | 83.0 | -65.66 | 10,518.8 | 175.4 | 757.8 | 589.6 | 168.18 | 4.506 | | |
| 23,100.0 | 12,600.0 | 22,773.7 | 12,288.0 | 87.6 | 83.8 | -65.68 | 10,618.8 | 174.4 | 758.5 | 588.9 | 169.62 | 4.472 | | |
| 23,200.0 | 12,600.0 | 22,873.7 | 12,288.0 | 88.3 | 84.5 | -65.71 | 10,718.8 | 173.5 | 759.2 | 588.1 | 171.06 | 4.438 | | |
| 23,274.5 | 12,600.0 | 22,948.2 | 12,288.0 | 88.8 | 85.1 | -65.73 | 10,793.3 | 172.7 | 759.7 | 587.6 | 172.13 | 4.413 | | |

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Anticollision Report

| Company: | DELAWARE BASIN EAST | Local Co-ordinate Reference: | Well AKUBRA FED COM #704H - Slot AKUBRA FED COM #704H |
|--------------------|-------------------------|------------------------------|--|
| Project: | BULLDOG PROSPECT (NM-E) | TVD Reference: | RKB=25ft @ 3217.0usft |
| Reference Site: | AKUBRA PROJECT | MD Reference: | RKB=25ft @ 3217.0usft |
| Site Error: | 0.0 usft | North Reference: | Grid |
| Reference Well: | AKUBRA FED COM #704H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.0 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OWB | Database: | EDT 17 Central Planning Prod |
| Reference Design: | PWP1 | Offset TVD Reference: | Offset Datum |

| | | | | | | | | | | | | | Offset Site Error: | |
|----------------------|--------------------|--------------------|--------------------------------|--------------|----------------------------------|------------------|------------------|------------------|-------------------|--------------------|----------------------|------------------|--------------------|---------|
| urvey Progr Refer | | | WL_NS-CT, [·] fset | | FR1, 12141- Iajor Axis | r.5 MWD+IFR1+MS | Offset Wellb | ore Centre | Die | Rule Assi tance | gned: | | Offset Well Error: | 3.0 usf |
| Measured | Vertical | Measured | Vertical | Reference | Offset | Highside | | | Between | Between | Minimum | Separation | Warning | |
| Depth (usft) | Depth (usft) | Depth (usft) | Depth (usft) | (usft) | (usft) | Toolface (°) | +N/-S (usft) | +E/-W (usft) | Centres (usft) | Ellipses (usft) | Separation (usft) | Factor | | |
| 0.0 | 0.0 | 0.9 | 0.9 | 3.0 | 3.0 | -90.48 | -0.5 | -60.0 | 60.0 | (usit) | (usit) | | | |
| 100.0 | 100.0 | 100.9 | 100.9 | 3.1 | 3.1 | -90.48 | -0.5 | -60.0 | 60.0 | 53.5 | 6.54 | 9.176 | | |
| 200.0 | 200.0 | 200.9 | 200.9 | 3.2 | 3.2 | -90.48 | -0.5 | -60.0 | 60.0 | 53.2 | 6.78 | 8.851 | | |
| 300.0 | 300.0 | 300.9 | 300.9 | 3.3 | 3.3 | -90.48 | -0.5 | -60.0 | 60.0 | 53.0 | 7.01 | 8.560 | | |
| 400.0 | 400.0 | 400.9 | 400.9 | 3.4 | 3.4 | -90.48 | -0.5 | -60.0 | 60.0 | 52.8 | 7.23 | 8.297 | | |
| 500.0 | 500.0 | 500.9 | 500.9 | 3.6 | 3.6 | -90.48 | -0.5 | -60.0 | 60.0 | 52.6 | 7.45 | 8.057 | | |
| 600.0 | 600.0 | 600.9 | 600.9 | 3.7 | 3.7 | -90.48 | -0.5 | -60.0 | 60.0 | 52.3 | 7.66 | 7.837 | | |
| 700.0 | 700.0 | 700.9 | 700.9 | 3.8 | 3.8 | -90.48 | -0.5 | -60.0 | 60.0 | 52.1 | 7.86 | 7.634 | | |
| 800.0 | 800.0 | 800.9 | 800.9 | 3.9 | 3.9 | -90.48 | -0.5 | -60.0 | 60.0 | 51.9 | 8.06 | 7.447 | | |
| 900.0 | 900.0 | 900.9 | 900.9 | 4.0 | 4.0 | -90.48 | -0.5 | -60.0 | 60.0 | 51.8 | 8.25 | 7.273 | | |
| 1,000.0 | 1,000.0 | 1,000.9 | 1,000.9 | 4.2 | 4.2 | -90.48 | -0.5 | -60.0 | 60.0 | 51.6 | 8.44 | 7.111 | | |
| 1,100.0 | 1,100.0 | 1,100.9 | 1,100.9 | 4.3 | 4.3 | -90.48 | -0.5 | -60.0 | 60.0 | 51.4 | 8.62 | 6.960 | | |
| 1,166.4 | 1,166.4 | 1,167.3 | 1,167.3 | 4.4 | 4.4 | -90.48 | -0.5 | -60.0 | 60.0 | 51.3 | 8.74 | 6.865 CC | | |
| 1,200.0 | 1,200.0 | 1,200.9 | 1,200.9 | 4.4 | 4.4 | -90.48 | -0.5 | -60.0 | 60.0 | 51.2 | 8.80 | 6.818 ES, S | F | |
| 1,300.0 | 1,300.0 | 1,200.0 | 1,300.0 | 4.5 | 4.5 | 178.69 | -1.4 | -60.9 | 62.3 | 53.2 | 9.04 | 6.883 | | |
| 1,400.0 | 1,399.9 | 1,398.2 | 1,398.1 | 4.7 | 4.7 | 176.55 | -4.1 | -63.6 | 69.0 | 59.6 | 9.47 | 7.291 | | |
| 1,500.0 | 1,499.7 | 1,496.0 | 1,495.7 | 4.8 | 4.9 | 173.80 | -8.6 | -68.1 | 80.5 | 70.6 | 9.92 | 8.112 | | |
| 1,600.0 | 1,499.7 | 1,490.0 | 1,592.1 | 4.0 | 4.9 5.2 | 173.80 | -8.0 | -74.3 | 96.7 | 86.3 | 10.41 | 9.290 | | |
| 1,700.0 | 1,698.6 | 1,688.3 | 1,687.0 | 5.4 | 5.4 | 168.63 | -22.5 | -82.0 | 117.6 | 106.7 | 10.92 | 10.770 | | |
| 1,800.0 | 1,797.5 | 1,783.2 | 1,781.0 | 5.7 | 5.6 | 166.80 | -31.4 | -91.4 | 143.0 | 131.6 | 11.38 | 12.559 | | |
| 1,866.7 | 1,863.3 | 1,846.4 | 1,843.6 | 5.9 | 5.8 | 166.37 | -36.5 | -98.3 | 161.8 | 150.1 | 11.70 | 13.826 | | |
| 1 000 0 | 4 000 4 | 4 077 0 | 4 074 0 | 5.0 | 5.0 | 400.07 | 20.0 | 101.0 | 474.0 | 450.7 | 44.00 | 44.470 | | |
| 1,900.0 2,000.0 | 1,896.1 1,994.6 | 1,877.9 1,972.0 | 1,874.8 1,968.0 | 5.9 6.3 | 5.9 6.2 | 166.37 166.81 | -38.6 -43.8 | -101.9 -113.5 | 171.6 201.4 | 159.7 189.0 | 11.86 12.43 | 14.473 16.212 | | |
| 2,000.0 | 2,093.1 | 2,066.6 | 2,061.7 | 6.6 | 6.5 | 167.61 | -47.4 | -126.1 | 231.9 | 218.9 | 13.02 | 17.816 | | |
| 2,200.0 | 2,033.1 | 2,000.0 | 2,001.7 | 6.9 | 6.7 | 168.27 | -50.8 | -138.9 | 262.4 | 248.8 | 13.64 | 19.245 | | |
| 2,300.0 | 2,290.0 | 2,257.0 | 2,250.3 | 7.3 | 7.0 | 168.79 | -54.2 | -151.7 | 293.0 | 278.7 | 14.28 | 20.510 | | |
| 2 400 0 | 0.000 5 | 0.050.0 | 0.044.5 | 77 | 7.0 | 169.21 | -57.7 | 164 5 | 202 E | 308.6 | 14.05 | 01 607 | | |
| 2,400.0 2,500.0 | 2,388.5 2,487.0 | 2,352.2 2,447.4 | 2,344.5 2,438.8 | 7.7 8.0 | 7.3 7.7 | 169.56 | -57.7 | -164.5 -177.3 | 323.5 354.1 | 308.5 | 14.95 15.64 | 21.637 22.644 | | |
| 2,600.0 | 2,585.5 | 2,542.5 | 2,533.1 | 8.4 | 8.0 | 169.85 | -64.5 | -190.1 | 384.7 | 368.4 | 16.34 | 23.545 | | |
| 2,700.0 | 2,684.0 | 2,637.7 | 2,627.3 | 8.8 | 8.3 | 170.10 | -68.0 | -202.9 | 415.3 | 398.3 | 17.05 | 24.353 | | |
| 2,800.0 | 2,782.4 | 2,732.9 | 2,721.6 | 9.2 | 8.7 | 170.32 | -71.4 | -215.7 | 445.9 | 428.1 | 17.78 | 25.080 | | |
| 2,900.0 | 2,880.9 | 2,828.1 | 2,815.8 | 9.6 | 9.0 | 170.51 | -74.8 | -228.5 | 476.5 | 458.0 | 18.52 | 25.736 | | |
| 2,900.0 3,000.0 | 2,000.9 | 2,828.1 | 2,815.8 | 9.6 | 9.0 9.4 | 170.51 | -74.0 | -220.5 | 476.5 507.2 | 458.0 | 19.26 | 26.338 | | |
| 3,100.0 | 3,077.9 | 3,023.5 | 3,009.4 | 10.5 | 9.8 | 170.83 | -81.7 | -254.3 | 537.3 | 517.2 | 20.05 | 26.799 | | |
| 3,200.0 | 3,176.4 | 3,123.9 | 3,109.1 | 10.9 | 10.2 | 170.99 | -85.0 | -266.5 | 566.6 | 545.8 | 20.84 | 27.184 | | |
| 3,300.0 | 3,274.8 | 3,224.9 | 3,209.3 | 11.3 | 10.5 | 171.13 | -88.0 | -277.8 | 595.1 | 573.4 | 21.64 | 27.497 | | |
| 3,400.0 | 3,373.3 | 3,326.3 | 3,310.2 | 11.7 | 10.9 | 171.28 | -90.9 | -288.4 | 622.7 | 600.3 | 22.44 | 27.748 | | |
| 3,400.0 3,500.0 | 3,373.3 3,471.8 | 3,326.3 3,428.3 | 3,310.2 3,411.6 | 11.7 | 10.9 | 171.28 | -90.9 -93.5 | -288.4 -298.2 | 622.7 649.5 | 626.3 | 22.44 | 27.748 | | |
| 3,600.0 | 3,471.8 | 3,420.3 3,530.7 | 3,411.6 | 12.1 | 11.3 | 171.42 | -93.5 -95.9 | -296.2 | 649.5 675.5 | 620.3 | 23.24 | 28.093 | | |
| 3,700.0 | 3,668.8 | 3,633.7 | 3,616.2 | 12.0 | 11.7 | 171.70 | -95.9 | -315.2 | 700.5 | 675.7 | 24.04 | 28.200 | | |
| 3,800.0 | 3,767.2 | 3,737.1 | 3,719.3 | 13.4 | 12.4 | 171.84 | -100.0 | -322.4 | 724.8 | 699.1 | 25.64 | 28.270 | | |
| 3 000 0 | 2 005 7 | 2 9 4 9 9 | 2 000 0 | 40.0 | 10.0 | 171.07 | 101 7 | 200.0 | 740 4 | 704 7 | 06 40 | 20 200 | | |
| 3,900.0 4,000.0 | 3,865.7 3,964.2 | 3,840.9 3,945.2 | 3,823.0 3,927.1 | 13.9 14.3 | 12.8 13.1 | 171.97 172.11 | -101.7 -103.1 | -328.8 -334.2 | 748.1 770.6 | 721.7 743.4 | 26.43 27.21 | 28.309 28.320 | | |
| 4,000.0 | 3,964.2 4,062.7 | 3,945.2 4,049.9 | 3,927.1 4,031.7 | 14.3 | 13.1 | 172.11 | -103.1 | -334.2 | 770.6 | 743.4 | 27.21 | 28.320 | | |
| 4,100.0 | 4,002.7 | 4,049.9 | 4,031.7 | 14.7 | 13.4 | 172.23 | -104.4 | -342.5 | 812.9 | 784.2 | 28.75 | 28.277 | | |
| 4,300.0 | 4,101.2 | 4,155.0 | 4,242.2 | 15.6 | 14.1 | 172.54 | -106.1 | -345.2 | 832.8 | 803.3 | 29.50 | 28.232 | | |
| | 4 050 1 | | | 10 - | | 470.00 | 400.0 | | | 001 5 | ~~~~~ | 00.470 | | |
| 4,400.0 4,500.0 | 4,358.1 4,456.6 | 4,366.4 4,472.6 | 4,348.1 4,454.3 | 16.0 16.5 | 14.4 14.6 | 172.69 172.83 | -106.6 -106.8 | -347.0 -347.9 | 851.7 869.7 | 821.5 838.8 | 30.22 30.91 | 28.179 28.137 | | |
| 4,600.0 | 4,450.0 | 4,472.0 | 4,454.5 | 16.9 | 14.0 | 172.98 | -106.8 | -347.9 | 887.1 | 855.6 | 31.46 | 28.193 | | |
| 4,700.0 | 4,653.6 | 4,672.8 | 4,654.5 | 17.4 | 14.7 | 173.11 | -106.8 | -347.9 | 904.3 | 872.3 | 31.40 | 28.285 | | |
| 4,800.0 | 4,752.1 | 4,771.3 | 4,753.0 | 17.8 | 14.8 | 173.24 | -106.8 | -347.9 | 921.5 | 889.1 | 32.48 | 28.370 | | |
| | | , - | | | | | | | | | | | | |

7/4/2023 1:27:01PM

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation Page 11

Anticollision Report

| Company: | DELAWARE BASIN EAST | Local Co-ordinate Reference: | Well AKUBRA FED COM #704H - Slot AKUBRA FED COM #704H |
|--------------------|-------------------------|------------------------------|--|
| Project: | BULLDOG PROSPECT (NM-E) | TVD Reference: | RKB=25ft @ 3217.0usft |
| Reference Site: | AKUBRA PROJECT | MD Reference: | RKB=25ft @ 3217.0usft |
| Site Error: | 0.0 usft | North Reference: | Grid |
| Reference Well: | AKUBRA FED COM #704H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.0 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OWB | Database: | EDT 17 Central Planning Prod |
| Reference Design: | PWP1 | Offset TVD Reference: | Offset Datum |

| Offset Des | Design: AKUBRA PROJECT - AKUBRA FED COM #703H - OWB - PWP1 | | | | | | | | | | Offset Site Error: | 0.0 usft | | |
|-----------------------|--|-----------------|-----------------|-----------|--------|-----------------|-----------------|-----------------|--------------------|--------------------|----------------------|------------|---------|--|
| | | | | | | | | | | | | | | |
| Survey Progr Refer | y Program: 0-r.5 SDI_KPR_WL_NS-CT, 1200-r.5 MWD+IFR1, 12141-r.5 MWD+IFR1+MS Rule Assigned: Reference Offset Semi Maior Axis Offset Wellbore Centre Distance | | | | | | | | Offset Well Error: | 3.0 usft | | | | |
| Measured | Vertical | Measured | Vertical | Reference | Offset | Highside | | | Between | Between | Minimum | Separation | Warning | |
| Depth (usft) | Depth (usft) | Depth (usft) | Depth (usft) | (usft) | (usft) | Toolface (°) | +N/-S (usft) | +E/-W (usft) | Centres (usft) | Ellipses (usft) | Separation (usft) | Factor | | |
| 4,900.0 | 4,850.5 | 4,869.7 | 4,851.4 | 18.2 | 14.8 | 173.37 | -106.8 | -347.9 | 938.8 | 905.8 | 33.00 | 28.449 | | |
| 5,000.0 | 4,949.0 | 4,968.2 | 4,949.9 | 18.7 | 14.9 | 173.49 | -106.8 | -347.9 | 956.0 | 922.5 | 33.52 | 28.521 | | |
| 5,100.0 | 5,047.5 | 5,066.7 | 5,048.4 | 19.1 | 14.9 | 173.60 | -106.8 | -347.9 | 973.3 | 939.3 | 34.05 | 28.587 | | |
| 5,200.0 | 5,146.0 | 5,165.2 | 5,146.9 | 19.6 | 15.0 | 173.72 | -106.8 | -347.9 | 990.6 | 956.0 | 34.58 | 28.647 | | |

Anticollision Report

| Company: | DELAWARE BASIN EAST | Local Co-ordinate Reference: | Well AKUBRA FED COM #704H - Slot AKUBRA FED COM #704H |
|--------------------|-------------------------|------------------------------|--|
| Project: | BULLDOG PROSPECT (NM-E) | TVD Reference: | RKB=25ft @ 3217.0usft |
| Reference Site: | AKUBRA PROJECT | MD Reference: | RKB=25ft @ 3217.0usft |
| Site Error: | 0.0 usft | North Reference: | Grid |
| Reference Well: | AKUBRA FED COM #704H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.0 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OWB | Database: | EDT 17 Central Planning Prod |
| Reference Design: | PWP1 | Offset TVD Reference: | Offset Datum |

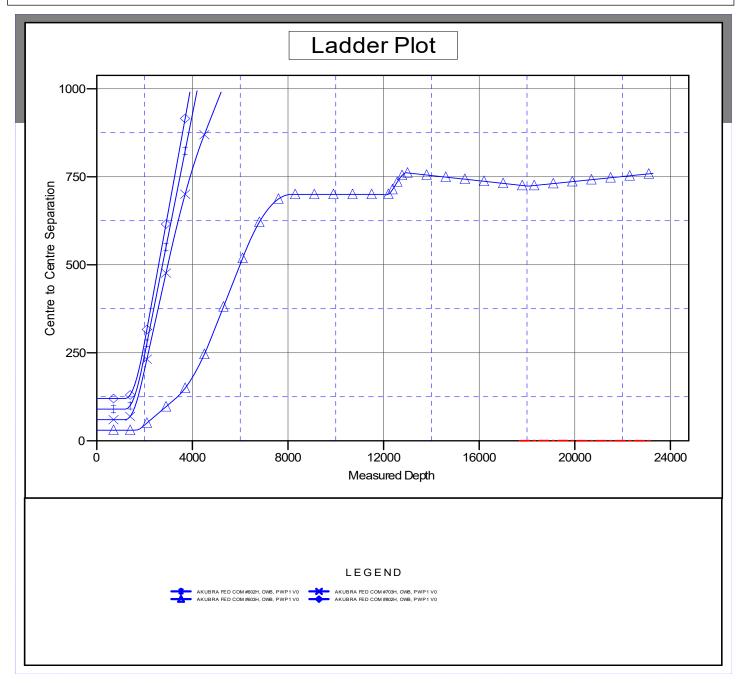
| | | | | | | | | | | | | | Offset Site Error: | |
|--------------------|--------------------|--------------------|---------------------|--------------|----------------------------------|----------------------|--------------|------------------|--------------------|---------------------|-----------------------|----------------------|--------------------|--------|
| urvey Progr | ram: 0- rence | | WL_NS-CT, 1 iset | | IFR1, 12744 /ajor Axis | -r.5 MWD+IFR1+MS | Offset Wellb | ore Centre | Die | Rule Assi tance | gned: | | Offset Well Error: | 3.0 us |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | +N/-S | +E/-W | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | Warning | |
| (usft) | (usft) | (usft) | (usft) | (usft) | (usft) | (°) | (usft) | (usft) | (usft) | (usft) | (usft) | | | |
| 0.0 | 0.0 | 1.6 | 1.6 | 3.0 | 3.0 | -90.48 | -1.0 | -120.0 | 120.0 | 440.5 | 0.54 | 40.050 | | |
| 100.0 200.0 | 100.0 200.0 | 101.6 201.6 | 101.6 201.6 | 3.1 3.2 | 3.1 3.2 | -90.48 -90.48 | -1.0 -1.0 | -120.0 -120.0 | 120.0 120.0 | 113.5 113.2 | 6.54 6.78 | 18.350 17.701 | | |
| | | | | | | | | | | | | 17.119 | | |
| 300.0 | 300.0 | 301.6 | 301.6 | 3.3 | 3.3 | -90.48 | -1.0 | -120.0 | 120.0 | 113.0 | 7.01 | | | |
| 400.0 500.0 | 400.0 500.0 | 401.6 501.6 | 401.6 501.6 | 3.4 3.6 | 3.4 | -90.48 -90.48 | -1.0 -1.0 | -120.0 -120.0 | 120.0 120.0 | 112.8 112.6 | 7.23 7.45 | 16.592 | | |
| 500.0 | 500.0 | 501.6 | 501.6 | 3.0 | 3.6 | -90.46 | -1.0 | -120.0 | 120.0 | 112.0 | 7.45 | 16.112 | | |
| 600.0 | 600.0 | 601.6 | 601.6 | 3.7 | 3.7 | -90.48 | -1.0 | -120.0 | 120.0 | 112.3 | 7.66 | 15.672 | | |
| 700.0 | 700.0 | 701.6 | 701.6 | 3.8 | 3.8 | -90.48 | -1.0 | -120.0 | 120.0 | 112.1 | 7.86 | 15.267 | | |
| 800.0 | 800.0 | 801.6 | 801.6 | 3.9 | 3.9 | -90.48 | -1.0 | -120.0 | 120.0 | 111.9 | 8.06 | 14.893 | | |
| 900.0 | 900.0 | 901.6 | 901.6 | 4.0 | 4.0 | -90.48 | -1.0 | -120.0 | 120.0 | 111.8 | 8.25 | 14.545 | | |
| 1,000.0 | 1,000.0 | 1,001.6 | 1,001.6 | 4.2 | 4.2 | -90.48 | -1.0 | -120.0 | 120.0 | 111.6 | 8.44 | 14.221 | | |
| 1,100.0 | 1,100.0 | 1,101.6 | 1,101.6 | 4.3 | 4.3 | -90.48 | -1.0 | -120.0 | 120.0 | 111.4 | 8.62 | 13.919 | | |
| 1,166.1 | 1,166.1 | 1,167.7 | 1,167.7 | 4.4 | 4.4 | -90.48 | -1.0 | -120.0 | 120.0 | 111.3 | 8.74 | 13.730 CC | | |
| 1,200.0 | 1,200.0 | 1,201.6 | 1,201.6 | 4.4 | 4.4 | -90.48 | -1.0 | -120.0 | 120.0 | 111.2 | 8.80 | 13.634 ES | | |
| 1,300.0 | 1,300.0 | 1,298.4 | 1,298.4 | 4.5 | 4.5 | 179.52 | -1.0 | -121.3 | 122.6 | 113.6 | 9.06 | 13.528 SF | | |
| 1,400.0 | 1,399.9 | 1,394.9 | 1,394.9 | 4.7 | 4.7 | 179.52 | -1.1 | -125.0 | 130.4 | 120.9 | 9.51 | 13.717 | | |
| 1,500.0 | 1,499.7 | 1,490.7 | 1,490.4 | 4.8 | 4.8 | 179.52 | -1.2 | -131.1 | 143.2 | 133.3 | 9.97 | 14.363 | | |
| 1,600.0 | 1,599.3 | 1,585.3 | 1,584.6 | 5.1 | 5.0 | 179.51 | -1.3 | -139.4 | 161.2 | 150.7 | 10.47 | 15.392 | | |
| 1,700.0 | 1,698.6 | 1,678.4 | 1,677.2 | 5.4 | 5.3 | 179.51 | -1.5 | -149.9 | 184.0 | 173.0 | 11.00 | 16.738 | | |
| 1,800.0 | 1,797.5 | 1,769.8 | 1,767.7 | 5.7 | 5.6 | 179.51 | -1.7 | -162.4 | 211.8 | 200.2 | 11.55 | 18.340 | | |
| 1,866.7 | 1,863.3 | 1,829.5 | 1,826.7 | 5.9 | 5.8 | 179.50 | -1.9 | -171.7 | 232.9 | 221.1 | 11.88 | 19.600 | | |
| 1,900.0 | 1,896.1 | 1,859.1 | 1,855.8 | 5.9 | 5.9 | 179.50 | -2.0 | -176.7 | 244.2 | 232.1 | 12.04 | 20.273 | | |
| 2,000.0 | 1,994.6 | 1,946.7 | 1,942.0 | 6.3 | 6.2 | 179.50 | -2.3 | -192.7 | 279.3 | 266.6 | 12.61 | 22.153 | | |
| 2,100.0 | 2,093.1 | 2,035.5 | 2,028.9 | 6.6 | 6.5 | 179.49 | -2.6 | -210.8 | 316.3 | 303.1 | 13.20 | 23,963 | | |
| 2,200.0 | 2,191.6 | 2,128.2 | 2,119.6 | 6.9 | 6.8 | 179.49 | -2.9 | -230.1 | 353.8 | 339.9 | 13.84 | 25.554 | | |
| 2,300.0 | 2,290.0 | 2,221.0 | 2,210.3 | 7.3 | 7.1 | 179.49 | -3.3 | -249.4 | 391.2 | 376.7 | 14.51 | 26.957 | | |
| 2,400.0 | 2,388.5 | 2,313.7 | 2,301.0 | 7.7 | 7.5 | 179.48 | -3.6 | -268.7 | 428.7 | 413.5 | 15.20 | 28.198 | | |
| 2,500.0 | 2,487.0 | 2,406.4 | 2,391.7 | 8.0 | 7.8 | 179.48 | -3.9 | -287.9 | 466.1 | 450.2 | 15.91 | 29.298 | | |
| 2,600.0 | 2,585.5 | 2,499.1 | 2,482.4 | 8.4 | 8.2 | 179.48 | -4.3 | -307.2 | 503.6 | 487.0 | 16.63 | 30.275 | | |
| 2,700.0 | 2,684.0 | 2,591.8 | 2,573.1 | 8.8 | 8.6 | 179.47 | -4.6 | -326.5 | 541.1 | 523.7 | 17.37 | 31.145 | | |
| 2,800.0 | 2,782.4 | 2,684.6 | 2,663.8 | 9.2 | 8.9 | 179.47 | -4.9 | -345.8 | 578.5 | 560.4 | 18.12 | 31.924 | | |
| 2,900.0 | 2,880.9 | 2,777.3 | 2,754.5 | 9.6 | 9.3 | 179.47 | -5.3 | -365.0 | 616.0 | 597.1 | 18.88 | 32.622 | | |
| 2,900.0 | 2,880.9 | 2,777.3 | 2,754.5 | 9.0 10.0 | 9.3 9.7 | 179.47 | -5.5 | -365.0 | 653.4 | 633.8 | 19.65 | 33.250 | | |
| 3,100.0 | 3,077.9 | 2,870.0 | 2,935.8 | 10.0 | 9.7 10.1 | 179.47 | -5.0 | -304.3 | 690.9 | 670.5 | 20.43 | 33.817 | | |
| 3,200.0 | 3,176.4 | 3,055.4 | 3,026.5 | 10.5 | 10.1 | 179.47 | -6.3 | -403.0 | 728.4 | 707.1 | 20.43 | 34.331 | | |
| 3,200.0 | 3,170.4 | 3,148.2 | 3,020.5 | 10.9 | 10.5 | 179.47 | -6.6 | -422.9 | 765.8 | 743.8 | 21.22 | 34.331 | | |
| | | | | | | | | | | | | | | |
| 3,400.0 3,500.0 | 3,373.3 3,471.8 | 3,240.9 3,333.6 | 3,207.9 3,298.6 | 11.7 12.1 | 11.3 | 179.46 | -7.0 -7.3 | -461.4 | 803.3 840.7 | 780.5 817.1 | 22.81 23.61 | 35.222 | | |
| | | | | | 11.7 | 179.46 | | -480.7 | | | | 35.611 | | |
| 3,600.0 | 3,570.3 | 3,426.3 | 3,389.3 | 12.6 | 12.1 | 179.46 | -7.6 | -500.0 | 878.2 | 853.8 | 24.42 | 35.967 | | |
| 3,700.0 3,800.0 | 3,668.8 3,767.2 | 3,519.0 3,611.7 | 3,480.0 3,570.7 | 13.0 13.4 | 12.5 12.9 | 179.46 179.46 | -8.0 -8.3 | -519.2 -538.5 | 915.7 953.1 | 890.4 927.1 | 25.23 26.05 | 36.294 36.595 | | |
| | | | | | | | | | | | | | | |
| 3,900.0 | 3,865.7 | 3,704.5 | 3,661.4 | 13.9 | 13.3 | 179.46 | -8.6 | -557.8 | 990.6 | 963.7 | 26.87 | 36.872 | | |

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

Anticollision Report

| Company: | DELAWARE BASIN EAST | Local Co-ordinate Reference: | Well AKUBRA FED COM #704H - Slot AKUBRA FED COM #704H |
|--------------------|-------------------------|------------------------------|--|
| Project: | BULLDOG PROSPECT (NM-E) | TVD Reference: | RKB=25ft @ 3217.0usft |
| Reference Site: | AKUBRA PROJECT | MD Reference: | RKB=25ft @ 3217.0usft |
| Site Error: | 0.0 usft | North Reference: | Grid |
| Reference Well: | AKUBRA FED COM #704H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.0 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OWB | Database: | EDT 17 Central Planning Prod |
| Reference Design: | PWP1 | Offset TVD Reference: | Offset Datum |
| | | | |

Reference Depths are relative to RKB=25ft @ 3217.0usft Offset Depths are relative to Offset Datum Central Meridian is 104° 20' 0.000 W Coordinates are relative to: AKUBRA FED COM #704H - Slot AKUBRA FED COM Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30 Grid Convergence at Surface is: 0.51°



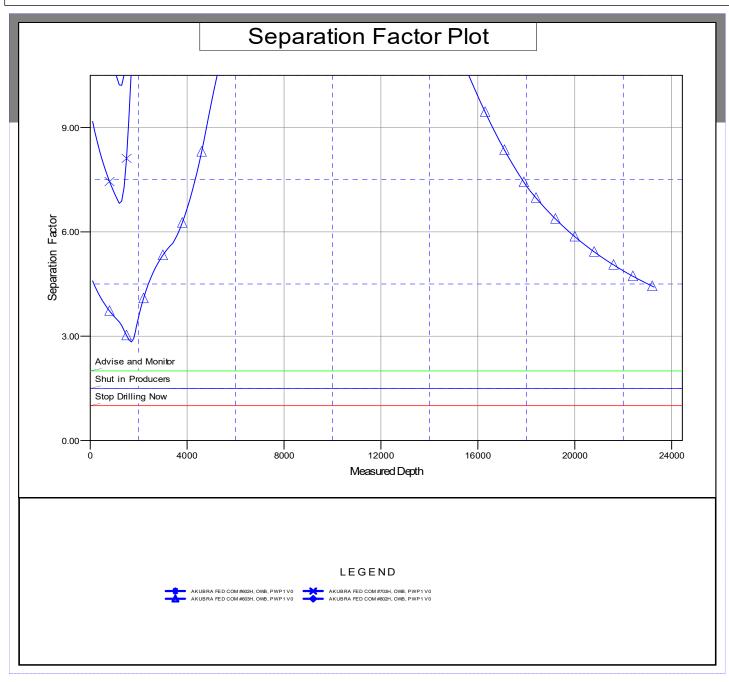
CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

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Anticollision Report

| Company: | DELAWARE BASIN EAST | Local Co-ordinate Reference: | Well AKUBRA FED COM #704H - Slot AKUBRA FED COM #704H |
|--------------------|-------------------------|------------------------------|--|
| Project: | BULLDOG PROSPECT (NM-E) | TVD Reference: | RKB=25ft @ 3217.0usft |
| Reference Site: | AKUBRA PROJECT | MD Reference: | RKB=25ft @ 3217.0usft |
| Site Error: | 0.0 usft | North Reference: | Grid |
| Reference Well: | AKUBRA FED COM #704H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 3.0 usft | Output errors are at | 2.00 sigma |
| Reference Wellbore | OWB | Database: | EDT 17 Central Planning Prod |
| Reference Design: | PWP1 | Offset TVD Reference: | Offset Datum |
| | | | |

Reference Depths are relative to RKB=25ft @ 3217.0usft Offset Depths are relative to Offset Datum Central Meridian is 104° 20' 0.000 W Coordinates are relative to: AKUBRA FED COM #704H - Slot AKUBRA FED COM Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30 Grid Convergence at Surface is: 0.51°



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

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E) AKUBRA PROJECT AKUBRA FED COM #704H - Slot AKUBRA FED COM #704H

OWB

Plan: PWP1

Standard Planning Report

04 July, 2023

Planning Report

| Databa | se: | EDT 17 Cen | ntral Planning Pr | od | Local Co-o | rdinate Reference | | II AKUBRA FED CC | |
|---------|-----------------|---------------|-------------------|-----------------|----------------|-------------------|----------|--------------------|-------------------|
| • | | | | | | | | UBRA FED COM #7 | |
| Compa | - | | E BASIN EAST | | TVD Refere | | | B=25ft @ 3217.0us | |
| Project | : | | PROSPECT (NN | 1-⊢) | MD Referen | | | B=25ft @ 3217.0ust | ft |
| Site: | | AKUBRA PF | | | North Refe | | Gri | | |
| Well: | | | ED COM #704H | | Survey Cal | culation Method: | : Mir | nimum Curvature | |
| Wellbo | re: | OWB | | | | | | | |
| Design | : | PWP1 | | | | | | | |
| Projec | t | BULLDOG P | ROSPECT (NM | -E) | | | | | |
| Map S | ystem: | US State Plan | e 1927 (Exact s | olution) | System Datu | ım: | Mear | n Sea Level | |
| Geo D | atum: | NAD 1927 (NA | DCON CONUS |) | | | | | |
| Map Z | one: | New Mexico E | ast 3001 | | | | | | |
| | | | | | | | | | |
| Site | | AKUBRA PR | OJECT | | | | | | |
| Site Po | osition: | | | Northing: | 399,22 | 28.16 usft Lati | itude: | | 32° 5' 38.189 N |
| From: | | Мар | | Easting: | | | ngitude: | | 103° 22' 16.971 W |
| Positio | on Uncertainty: | | 0.0 usft | Slot Radius: | 13 | -3/16 " | | | |
| Well | | | COM #704H - | Slot AKUBRA FED | COM #704H | | | | |
| | | | | | | 202.000.00 | | • | 000 41 40 075 11 |
| Well P | osition | +N/-S | 0.0 usft | Northing: | | 393,689.30 usft | | | 32° 4' 43.275 N |
| | | +E/-W | 0.0 usft | Easting: | | 799,104.50 usft | • | tude: | 103° 22' 3.569 W |
| Positio | on Uncertainty | | 3.0 usft | Wellhead Ele | vation: | usf | t Groun | d Level: | 3,192.0 usft |
| Grid C | onvergence: | | 0.51 ° | | | | | | |
| Wellbo | ore | OWB | | | | | | | |
| Magne | etics | Model Na | ame | Sample Date | Declinat | ion | Dip Ang | le | Field Strength |
| | | | | | (°) | | (°) | | (nT) |
| | | BG | GM2023 | 11/1/2024 | | 6.04 | | 59.58 | 47,173.50124292 |
| Desig | า | PWP1 | | | | | | | |
| Audit | Notes: | | | | | | | | |
| Versio | n: | | | Phase: | PLAN | Tie On | Depth: | 0.0 | |
| Vertica | al Section: | | - | rom (TVD) | +N/-S | +E/-W | | Direction | |
| | | | - | isft) | (usft) | (usft) | | (°) | |
| | | | | 0.0 | 0.0 | 0.0 | | 4.58 | |
| Plan S | Survey Tool Pro | gram | Date 7/4/20 | 023 | | | | | |
| | Depth From | Depth To | | | | | | | |
| | (usft) | (usft) | Survey (Wellb | ore) | Tool Name | R | lemarks | | |
| 1 | 0.0 | 1,200.0 | PWP1 (OWB) | | r.5 SDI_KPR_V | √L_NS-CT | | | |
| | | | | | SDI Keeper Wir | eline Gyrocomr | | | |
| 2 | 1,200.0 | 12,201.1 | PWP1 (OWB) | | r.5 MWD+IFR1 | | | | |
| | | | () | | OWSG MWD + | IEP1 rov 5 | | | |
| | | | | | | 1111160.0 | | | |
| | | | | | | | | | |

3

12,201.1

23,274.5 PWP1 (OWB)

r.5 MWD+IFR1+MS

OWSG MWD + IFR1 + Multi-St

Planning Report

| Database: | EDT 17 Central Planning Prod | Local Co-ordinate Reference: | Well AKUBRA FED COM #704H - Slot AKUBRA FED COM #704H |
|-----------|------------------------------|------------------------------|--|
| Company: | DELAWARE BASIN EAST | TVD Reference: | RKB=25ft @ 3217.0usft |
| Project: | BULLDOG PROSPECT (NM-E) | MD Reference: | RKB=25ft @ 3217.0usft |
| Site: | AKUBRA PROJECT | North Reference: | Grid |
| Well: | AKUBRA FED COM #704H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | PWP1 | | |

Plan Sections

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|------------------------------|-----------------------------|------------|--------|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,200.0 | 0.00 | 0.00 | 1,200.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,866.7 | 10.00 | 90.00 | 1,863.3 | 0.0 | 58.0 | 1.50 | 1.50 | 0.00 | 90.00 | |
| 6,148.4 | 10.00 | 90.00 | 6,080.0 | 0.0 | 801.6 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,148.4 | 0.00 | 0.00 | 8,069.9 | 0.0 | 975.6 | 0.50 | -0.50 | 0.00 | 180.00 | |
| 12,201.1 | 0.00 | 0.00 | 12,122.5 | 0.0 | 975.6 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 12,951.1 | 90.00 | 358.98 | 12,600.0 | 477.4 | 967.1 | 12.00 | 12.00 | -0.14 | 358.98 | |
| 18,024.5 | 90.00 | 358.98 | 12,600.0 | 5,550.0 | 876.3 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 18,069.9 | 90.00 | 359.88 | 12,600.0 | 5,595.4 | 875.9 | 2.00 | 0.00 | 2.00 | 90.00 | |
| 23,274.5 | 90.00 | 359.88 | 12,600.0 | 10,800.0 | 865.2 | 0.00 | 0.00 | 0.00 | 0.00 | |

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Planning Report

| Database: | EDT 17 Central Planning Prod | Local Co-ordinate Reference: | Well AKUBRA FED COM #704H - Slot AKUBRA FED COM #704H |
|-----------|------------------------------|------------------------------|--|
| Company: | DELAWARE BASIN EAST | TVD Reference: | RKB=25ft @ 3217.0usft |
| Project: | BULLDOG PROSPECT (NM-E) | MD Reference: | RKB=25ft @ 3217.0usft |
| Site: | AKUBRA PROJECT | North Reference: | Grid |
| Well: | AKUBRA FED COM #704H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | PWP1 | | |

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 | 0.00 0.00 | 500.0 600.0 | 0.0 0.0 | 0.0 0.0 | 0.0 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 600.0 700.0 | 0.00 | 0.00 | 600.0 700.0 | 0.0 | 0.0 | 0.0 0.0 | 0.00 | 0.00 | 0.00 |
| 800.0 | | | | 0.0 | | | | | |
| | 0.00 | 0.00 | 800.0 | | 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 |
| Start Build 1 | .50 | | | | | | | | |
| 1,300.0 | 1.50 | 90.00 | 1,300.0 | 0.0 | 1.3 | 0.1 | 1.50 | 1.50 | 0.00 |
| 1,400.0 | 3.00 | 90.00 | 1,399.9 | 0.0 | 5.2 | 0.4 | 1.50 | 1.50 | 0.00 |
| 1,500.0 | 4.50 | 90.00 | 1,499.7 | 0.0 | 11.8 | 0.9 | 1.50 | 1.50 | 0.00 |
| 1,600.0 | 6.00 | 90.00 | 1,599.3 | 0.0 | 20.9 | 1.7 | 1.50 | 1.50 | 0.00 |
| 1,700.0 | 7.50 | 90.00 | 1,698.6 | 0.0 | 32.7 | 2.6 | 1.50 | 1.50 | 0.00 |
| 1,800.0 | 9.00 | 90.00 | 1,797.5 | 0.0 | 47.0 | 3.8 | 1.50 | 1.50 | 0.00 |
| 1,866.7 | 10.00 | 90.00 | 1,863.3 | 0.0 | 58.0 | 4.6 | 1.50 | 1.50 | 0.00 |
| | hold at 1866.7 M | | , | | | | | | |
| | | | 1 000 1 | 0.0 | 00.0 | F / | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 10.00 | 90.00 | 1,896.1 | 0.0 | 63.8 | 5.1 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 10.00 | 90.00 | 1,994.6 | 0.0 | 81.2 | 6.5 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 10.00 | 90.00 | 2,093.1 | 0.0 | 98.5 | 7.9 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 10.00 | 90.00 | 2,191.6 | 0.0 | 115.9 | 9.3 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 10.00 | 90.00 | 2,290.0 | 0.0 | 133.3 | 10.6 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 10.00 | 90.00 | 2,388.5 | 0.0 | 150.6 | 12.0 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 10.00 | 90.00 | 2,487.0 | 0.0 | 168.0 | 13.4 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 10.00 | 90.00 | 2,585.5 | 0.0 | 185.4 | 14.8 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 10.00 | 90.00 | 2,684.0 | 0.0 | 202.7 | 16.2 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 10.00 | 90.00 | 2,782.4 | 0.0 | 220.1 | 17.6 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 10.00 | 90.00 | 2,880.9 | 0.0 | 237.5 | 19.0 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 10.00 | 90.00 | 2,979.4 | 0.0 | 254.8 | 20.4 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 10.00 | 90.00 | 3,077.9 | 0.0 | 272.2 | 21.7 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 10.00 | 90.00 | 3,176.4 | 0.0 | 289.6 | 23.1 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 10.00 | 90.00 | 3,274.8 | 0.0 | 306.9 | 24.5 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 10.00 | 90.00 | 3,373.3 | 0.0 | 324.3 | 25.9 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 10.00 | 90.00 | 3,471.8 | 0.0 | 324.3 341.7 | 25.9 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 10.00 | 90.00 | 3,570.3 | 0.0 | 359.0 | 27.3 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 10.00 | 90.00 | 3,668.8 | 0.0 | 376.4 | 30.1 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 10.00 | 90.00 | 3,767.2 | 0.0 | 393.7 | 31.5 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 3,900.0 | 10.00 | 90.00 | 3,865.7 | 0.0 | 411.1 | 32.8 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 10.00 | 90.00 | 3,964.2 | 0.0 | 428.5 | 34.2 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 10.00 | 90.00 | 4,062.7 | 0.0 | 445.8 | 35.6 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 10.00 | 90.00 | 4,161.2 | 0.0 | 463.2 | 37.0 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 10.00 | 90.00 | 4,259.7 | 0.0 | 480.6 | 38.4 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 10.00 | 90.00 | 4,358.1 | 0.0 | 497.9 | 39.8 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 10.00 | 90.00 | 4,456.6 | 0.0 | 515.3 | 41.2 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 10.00 | 90.00 | 4,555.1 | 0.0 | 532.7 | 42.6 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 10.00 | 90.00 | 4,653.6 | 0.0 | 550.0 | 43.9 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 10.00 | 90.00 | 4,752.1 | 0.0 | 567.4 | 45.3 | 0.00 | 0.00 | 0.00 |
| , | | | | | | | | | |

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Page 4

COMPASS 5000.17 Build

Planning Report

| Database: | EDT 17 Central Planning Prod | Local Co-ordinate Reference: | Well AKUBRA FED COM #704H - Slot AKUBRA FED COM #704H |
|-----------|------------------------------|------------------------------|--|
| Company: | DELAWARE BASIN EAST | TVD Reference: | RKB=25ft @ 3217.0usft |
| Project: | BULLDOG PROSPECT (NM-E) | MD Reference: | RKB=25ft @ 3217.0usft |
| Site: | AKUBRA PROJECT | North Reference: | Grid |
| Well: | AKUBRA FED COM #704H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | PWP1 | | |

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) |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 5,000.0 | 10.00 | 90.00 | 4,949.0 | 0.0 | 602.1 | 48.1 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 10.00 | 90.00 | 5,047.5 | 0.0 | 619.5 | 49.5 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 10.00 | 90.00 | 5,146.0 | 0.0 | 636.9 | 50.9 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 10.00 | 90.00 | 5,244.5 | 0.0 | 654.2 | 52.3 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 10.00 | 90.00 | 5,342.9 | 0.0 | 671.6 | 53.7 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 10.00 | 90.00 | 5,441.4 | 0.0 | 689.0 | 55.0 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 10.00 | 90.00 | 5,539.9 | 0.0 | 706.3 | 56.4 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 10.00 | 90.00 | 5,638.4 | 0.0 | 700.5 | 57.8 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 10.00 | 90.00 | 5,736.9 | 0.0 | 741.0 | 59.2 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 5,900.0 | 10.00 | 90.00 | 5,835.3 | 0.0 | 758.4 | 60.6 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 10.00 | 90.00 | 5,933.8 | 0.0 | 775.8 | 62.0 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 10.00 | 90.00 | 6,032.3 | 0.0 | 793.1 | 63.4 | 0.00 | 0.00 | 0.00 |
| 6,148.4 | 10.00 | 90.00 | 6,080.0 | 0.0 | 801.6 | 64.0 | 0.00 | 0.00 | 0.00 |
| Start Drop -0 | | <u> </u> | 0.400.0 | <u> </u> | <u></u> | | 0.55 | 0.55 | 0.00 |
| 6,200.0 | 9.74 | 90.00 | 6,130.8 | 0.0 | 810.4 | 64.8 | 0.50 | -0.50 | 0.00 |
| 6,300.0 | 9.24 | 90.00 | 6,229.4 | 0.0 | 826.9 | 66.1 | 0.50 | -0.50 | 0.00 |
| 6,400.0 | 8.74 | 90.00 | 6,328.2 | 0.0 | 842.5 | 67.3 | 0.50 | -0.50 | 0.00 |
| 6,500.0 | 8.24 | 90.00 | 6,427.1 | 0.0 | 857.3 | 68.5 | 0.50 | -0.50 | 0.00 |
| 6,600.0 | 7.74 | 90.00 | 6,526.1 | 0.0 | 871.2 | 69.6 | 0.50 | -0.50 | 0.00 |
| 6,700.0 | 7.24 | 90.00 | 6,625.3 | 0.0 | 884.2 | 70.7 | 0.50 | -0.50 | 0.00 |
| 6,800.0 | 6.74 | 90.00 | 6,724.5 | 0.0 | 896.4 | 71.6 | 0.50 | -0.50 | 0.00 |
| 6,900.0 | 6.24 | 90.00 | 6,823.9 | 0.0 | 907.7 | 72.5 | 0.50 | -0.50 | 0.00 |
| 7,000.0 | 5.74 | 90.00 | 6,923.4 | 0.0 | 918.1 | 73.4 | 0.50 | -0.50 | 0.00 |
| 7,100.0 | 5.24 | 90.00 | 7,022.9 | 0.0 | 927.7 | 74.1 | 0.50 | -0.50 | 0.00 |
| 7,200.0 | 4.74 | 90.00 | 7,122.5 | 0.0 | 936.4 | 74.8 | 0.50 | -0.50 | 0.00 |
| 7,300.0 | 4.24 | 90.00 | 7,222.2 | 0.0 | 944.2 | 75.4 | 0.50 | -0.50 | 0.00 |
| 7,400.0 | 3.74 | 90.00 | 7,322.0 | 0.0 | 951.2 | 76.0 | 0.50 | -0.50 | 0.00 |
| 7,500.0 | 3.24 | 90.00 | 7,421.8 | 0.0 | 957.3 | 76.5 | 0.50 | -0.50 | 0.00 |
| 7,600.0 | 2.74 | 90.00 | 7,521.6 | 0.0 | 962.5 | 76.9 | 0.50 | -0.50 | 0.00 |
| 7,700.0 | 2.24 | 90.00 | 7,621.5 | 0.0 | 966.9 | 77.3 | 0.50 | -0.50 | 0.00 |
| 7,800.0 | 1.74 | 90.00 | 7,721.5 | 0.0 | 970.3 | 77.5 | 0.50 | -0.50 | 0.00 |
| 7,800.0 7,900.0 | 1.74 1.24 | 90.00 90.00 | 7,721.5 7,821.5 | | 970.3 972.9 | | 0.50 | -0.50 -0.50 | 0.00 |
| | | 90.00 90.00 | 7,821.5 7,921.4 | 0.0 | 972.9 974.7 | 77.7 | | -0.50 -0.50 | 0.00 |
| 8,000.0 | 0.74 0.24 | 90.00 90.00 | 7,921.4 8,021.4 | 0.0 | 974.7 975.5 | 77.9 77.9 | 0.50 0.50 | -0.50 -0.50 | 0.00 |
| 8,100.0 8,148.4 | 0.24 | 90.00 0.00 | 8,021.4 8,069.9 | 0.0 0.0 | 975.5 975.6 | 77.9 | 0.50 | -0.50 -0.50 | 0.00 |
| , | hold at 8148.4 M | | 0,009.9 | 0.0 | 915.0 | 70.0 | 0.00 | -0.50 | 0.00 |
| | | | | | | | | | |
| 8,200.0 | 0.00 | 0.00 | 8,121.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 0.00 | 0.00 | 8,221.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 0.00 | 0.00 | 8,321.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 0.00 | 0.00 | 8,421.4 | 0.0 | 975.6 075.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 0.00 | 0.00 | 8,521.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 0.00 | 0.00 | 8,621.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 0.00 | 0.00 | 8,721.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 0.00 | 0.00 | 8,821.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 0.00 | 0.00 | 8,921.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 0.00 | 0.00 | 9,021.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 0.00 | 0.00 | 9,121.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 0.00 | 0.00 | 9,221.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 0.00 | 0.00 | 9,321.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 0.00 | 0.00 | 9,421.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 0.00 | 0.00 | 9,521.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 0.00 | 0.00 | 9,621.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| | 0.00 | 0.00 | 9,721.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |

7/4/2023 1:27:46PM

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Planning Report

| Database: | EDT 17 Central Planning Prod | Local Co-ordinate Reference: | Well AKUBRA FED COM #704H - Slot AKUBRA FED COM #704H |
|-----------|------------------------------|------------------------------|--|
| Company: | DELAWARE BASIN EAST | TVD Reference: | RKB=25ft @ 3217.0usft |
| Project: | BULLDOG PROSPECT (NM-E) | MD Reference: | RKB=25ft @ 3217.0usft |
| Site: | AKUBRA PROJECT | North Reference: | Grid |
| Well: | AKUBRA FED COM #704H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | PWP1 | | |

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) |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 9,900.0 | 0.00 | 0.00 | 9,821.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 0.00 | 0.00 | 9,921.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 0.00 | 0.00 | 10,021.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | 0.00 | 0.00 | 10,121.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 10,300.0 | 0.00 | 0.00 | 10,221.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | 0.00 | 0.00 | 10,321.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 10,500.0 | 0.00 | 0.00 | 10,421.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 0.00 | 0.00 | 10,521.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 0.00 | 0.00 | 10,621.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 0.00 | 0.00 | 10,721.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 10,900.0 | 0.00 | 0.00 | 10,821.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | 0.00 | 0.00 | 10,921.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 0.00 | 0.00 | 11,021.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 11,200.0 | 0.00 | 0.00 | 11,121.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 11,300.0 | 0.00 | 0.00 | 11,221.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 11,400.0 | 0.00 | 0.00 | 11,321.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 11,500.0 | 0.00 | 0.00 | 11,421.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 11,600.0 | 0.00 | 0.00 | 11,521.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 11,700.0 | 0.00 | 0.00 | 11,621.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 11,800.0 | 0.00 | 0.00 | 11,721.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 11,900.0 | 0.00 | 0.00 | 11,821.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 12,000.0 | 0.00 | 0.00 | 11,921.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 12,100.0 | 0.00 | 0.00 | 12,021.4 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| 12,201.1 | 0.00 | 0.00 | 12,122.5 | 0.0 | 975.6 | 78.0 | 0.00 | 0.00 | 0.00 |
| Start DLS 12 | .00 TFO 358.98 | | | | | | | | |
| 12,225.0 | 2.87 | 358.98 | 12,146.4 | 0.6 | 975.6 | 78.5 | 12.00 | 12.00 | 0.00 |
| 12,250.0 | 5.87 | 358.98 | 12,171.3 | 2.5 | 975.6 | 80.4 | 12.00 | 12.00 | 0.00 |
| 12,275.0 | 8.87 | 358.98 | 12,196.1 | 5.7 | 975.5 | 83.6 | 12.00 | 12.00 | 0.00 |
| 12,300.0 | 11.87 | 358.98 | 12,220.7 | 10.2 | 975.5 | 88.1 | 12.00 | 12.00 | 0.00 |
| 12,325.0 | 14.87 | 358.98 | 12,245.0 | 16.0 | 975.4 | 93.9 | 12.00 | 12.00 | 0.00 |
| 12,350.0 | 17.87 | 358.98 | 12,269.0 | 23.0 | 975.2 | 100.9 | 12.00 | 12.00 | 0.00 |
| 12,375.0 | 20.87 | 358.98 | 12,292.6 | 31.3 | 975.1 | 109.1 | 12.00 | 12.00 | 0.00 |
| 12,400.0 | 23.87 | 358.98 | 12,315.7 | 40.8 | 974.9 | 118.6 | 12.00 | 12.00 | 0.00 |
| 12,425.0 | 26.87 | 358.98 | 12,338.3 | 51.5 | 974.7 | 129.2 | 12.00 | 12.00 | 0.00 |
| 12,450.0 | 29.87 | 358.98 | 12,360.3 | 63.4 | 974.5 | 141.1 | 12.00 | 12.00 | 0.00 |
| 12,475.0 | 32.87 | 358.98 | 12,381.7 | 76.4 | 974.3 | 154.0 | 12.00 | 12.00 | 0.00 |
| 12,500.0 | 35.87 | 358.98 | 12,402.3 | 90.5 | 974.0 | 168.1 | 12.00 | 12.00 | 0.00 |
| 12,525.0 | 38.87 | 358.98 | 12,422.2 | 105.7 | 973.7 | 183.2 | 12.00 | 12.00 | 0.00 |
| 12,550.0 | 41.87 | 358.98 | 12,441.2 | 121.9 | 973.5 | 199.3 | 12.00 | 12.00 | 0.00 |
| 12,575.0 | 44.87 | 358.98 | 12,459.4 | 139.0 | 973.2 | 216.4 | 12.00 | 12.00 | 0.00 |
| 12,600.0 | 47.87 | 358.98 | 12,476.6 | 157.1 | 972.8 | 234.4 | 12.00 | 12.00 | 0.00 |
| 12,625.0 | 50.87 | 358.98 | 12,492.9 | 176.1 | 972.5 | 253.2 | 12.00 | 12.00 | 0.00 |
| 12,650.0 | 53.87 | 358.98 | 12,508.2 | 195.9 | 972.1 | 272.9 | 12.00 | 12.00 | 0.00 |
| 12,675.0 | 56.87 | 358.98 | 12,522.4 | 216.5 | 971.8 | 293.4 | 12.00 | 12.00 | 0.00 |
| 12,700.0 | 59.87 | 358.98 | 12,535.5 | 237.7 | 971.4 | 314.6 | 12.00 | 12.00 | 0.00 |
| 12,725.0 | 62.87 | 358.98 | 12,547.5 | 259.7 | 971.0 | 336.4 | 12.00 | 12.00 | 0.00 |
| 12,750.0 | 65.87 | 358.98 | 12,558.3 | 282.2 | 970.6 | 358.9 | 12.00 | 12.00 | 0.00 |
| 12,775.0 | 68.87 | 358.98 | 12,567.9 | 305.3 | 970.2 | 381.8 | 12.00 | 12.00 | 0.00 |
| 12,800.0 | 71.87 | 358.98 | 12,576.3 | 328.8 | 969.8 | 405.3 | 12.00 | 12.00 | 0.00 |
| 12,825.0 | 74.87 | 358.98 | 12,583.4 | 352.8 | 969.3 | 429.1 | 12.00 | 12.00 | 0.00 |
| 12,850.0 | 77.87 | 358.98 | 12,589.3 | 377.1 | 968.9 | 453.3 | 12.00 | 12.00 | 0.00 |
| 12,875.0 | 80.87 | 358.98 | 12,593.9 | 401.6 | 968.5 | 477.7 | 12.00 | 12.00 | 0.00 |
| 12,900.0 | 83.87 | 358.98 | 12,597.3 | 426.4 | 968.0 | 502.4 | 12.00 | 12.00 | 0.00 |

7/4/2023 1:27:46PM

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Planning Report

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|-----------|------------------------------|------------------------------|--|
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| Project: | BULLDOG PROSPECT (NM-E) | MD Reference: | RKB=25ft @ 3217.0usft |
| Site: | AKUBRA PROJECT | North Reference: | Grid |
| Well: | AKUBRA FED COM #704H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | PWP1 | | |

Planned Survey

| I | easured 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) |
|---|----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| | 12,925.0 | 86.87 | 358.98 | 12,599.3 | 451.3 | 967.6 | 527.2 | 12.00 | 12.00 | 0.00 |
| | 12,951.1 | 90.00 | 358.98 | 12,600.0 | 477.4 | 967.1 | 553.1 | 12.00 | 12.00 | 0.00 |
| S | tart 5073.4 | hold at 12951.1 | MD | | | | | | | |
| | 13,000.0 | 90.00 | 358.98 | 12,600.0 | 526.3 | 966.2 | 601.8 | 0.00 | 0.00 | 0.00 |
| | 13,100.0 | 90.00 | 358.98 | 12,600.0 | 626.3 | 964.4 | 701.3 | 0.00 | 0.00 | 0.00 |
| | 13,200.0 | 90.00 | 358.98 | 12,600.0 | 726.2 | 962.6 | 800.8 | 0.00 | 0.00 | 0.00 |
| | 13,300.0 | 90.00 | 358.98 | 12,600.0 | 826.2 | 960.9 | 900.4 | 0.00 | 0.00 | 0.00 |
| | 13,400.0 | 90.00 | 358.98 | 12,600.0 | 926.2 | 959.1 | 999.9 | 0.00 | 0.00 | 0.00 |
| | 13,500.0 | 90.00 | 358.98 | 12,600.0 | 1,026.2 | 957.3 | 1,099.4 | 0.00 | 0.00 | 0.00 |
| | 13,600.0 | 90.00 | 358.98 | 12,600.0 | 1,126.2 | 955.5 | 1,198.9 | 0.00 | 0.00 | 0.00 |
| | 13,700.0 | 90.00 | 358.98 | 12,600.0 | 1,226.2 | 953.7 | 1,298.4 | 0.00 | 0.00 | 0.00 |
| | 13,800.0 | 90.00 | 358.98 | 12,600.0 | 1,326.2 | 951.9 | 1,398.0 | 0.00 | 0.00 | 0.00 |
| | 13,900.0 | 90.00 | 358.98 | 12,600.0 | 1,426.1 | 950.1 | 1,497.5 | 0.00 | 0.00 | 0.00 |
| | 14,000.0 | 90.00 | 358.98 | 12,600.0 | 1,526.1 | 948.3 | 1,597.0 | 0.00 | 0.00 | 0.00 |
| | 14,100.0 | 90.00 | 358.98 | 12,600.0 | 1,626.1 | 946.5 | 1,696.5 | 0.00 | 0.00 | 0.00 |
| | 14,200.0 | 90.00 | 358.98 | 12,600.0 | 1,726.1 | 944.8 | 1,796.1 | 0.00 | 0.00 | 0.00 |
| | 14,300.0 | 90.00 | 358.98 | 12,600.0 | 1,826.1 | 943.0 | 1,895.6 | 0.00 | 0.00 | 0.00 |
| | 14,400.0 | 90.00 | 358.98 | 12,600.0 | 1,926.1 | 941.2 | 1,995.1 | 0.00 | 0.00 | 0.00 |
| | 14,500.0 | 90.00 | 358.98 | 12,600.0 | 2,026.0 | 939.4 | 2,094.6 | 0.00 | 0.00 | 0.00 |
| | 14,600.0 | 90.00 | 358.98 | 12,600.0 | 2,126.0 | 937.6 | 2,194.1 | 0.00 | 0.00 | 0.00 |
| | 14,700.0 | 90.00 | 358.98 | 12,600.0 | 2,226.0 | 935.8 | 2,293.7 | 0.00 | 0.00 | 0.00 |
| | 14,800.0 | 90.00 | 358.98 | 12,600.0 | 2,326.0 | 934.0 | 2,393.2 | 0.00 | 0.00 | 0.00 |
| | 14,900.0 | 90.00 | 358.98 | 12,600.0 | 2,426.0 | 932.2 | 2,492.7 | 0.00 | 0.00 | 0.00 |
| | 15,000.0 | 90.00 | 358.98 | 12,600.0 | 2,526.0 | 930.4 | 2,592.2 | 0.00 | 0.00 | 0.00 |
| | 15,100.0 | 90.00 | 358.98 | 12,600.0 | 2,625.9 | 928.7 | 2,691.7 | 0.00 | 0.00 | 0.00 |
| | 15,200.0 | 90.00 | 358.98 | 12,600.0 | 2,725.9 | 926.9 | 2,791.3 | 0.00 | 0.00 | 0.00 |
| | 15,300.0 | 90.00 | 358.98 | 12,600.0 | 2,825.9 | 925.1 | 2,890.8 | 0.00 | 0.00 | 0.00 |
| | 15,400.0 | 90.00 | 358.98 | 12,600.0 | 2,925.9 | 923.3 | 2,990.3 | 0.00 | 0.00 | 0.00 |
| | 15,500.0 | 90.00 | 358.98 | 12,600.0 | 3,025.9 | 921.5 | 3,089.8 | 0.00 | 0.00 | 0.00 |
| | 15,600.0 | 90.00 | 358.98 | 12,600.0 | 3,125.9 | 919.7 | 3,189.4 | 0.00 | 0.00 | 0.00 |
| | 15,700.0 | 90.00 | 358.98 | 12,600.0 | 3,225.8 | 917.9 | 3,288.9 | 0.00 | 0.00 | 0.00 |
| | 15,800.0 | 90.00 | 358.98 | 12,600.0 | 3,325.8 | 916.1 | 3,388.4 | 0.00 | 0.00 | 0.00 |
| | 15,900.0 | 90.00 | 358.98 | 12,600.0 | 3,425.8 | 914.3 | 3,487.9 | 0.00 | 0.00 | 0.00 |
| | 16,000.0 | 90.00 | 358.98 | 12,600.0 | 3,525.8 | 912.6 | 3,587.4 | 0.00 | 0.00 | 0.00 |
| | 16,100.0 | 90.00 | 358.98 | 12,600.0 | 3,625.8 | 910.8 | 3,687.0 | 0.00 | 0.00 | 0.00 |
| | 16,200.0 | 90.00 | 358.98 | 12,600.0 | 3,725.8 | 909.0 | 3,786.5 | 0.00 | 0.00 | 0.00 |
| | 16,300.0 | 90.00 | 358.98 | 12,600.0 | 3,825.8 | 907.2 | 3,886.0 | 0.00 | 0.00 | 0.00 |
| | 16,400.0 | 90.00 | 358.98 | 12,600.0 | 3,925.7 | 905.4 | 3,985.5 | 0.00 | 0.00 | 0.00 |
| | 16,500.0 | 90.00 | 358.98 | 12,600.0 | 4,025.7 | 903.6 | 4,085.0 | 0.00 | 0.00 | 0.00 |
| | 16,600.0 | 90.00 | 358.98 | 12,600.0 | 4,125.7 | 901.8 | 4,184.6 | 0.00 | 0.00 | 0.00 |
| | 16,700.0 | 90.00 | 358.98 | 12,600.0 | 4,225.7 | 900.0 | 4,284.1 | 0.00 | 0.00 | 0.00 |
| | 16,800.0 | 90.00 | 358.98 | 12,600.0 | 4,325.7 | 898.2 | 4,383.6 | 0.00 | 0.00 | 0.00 |
| | 16,900.0 | 90.00 | 358.98 | 12,600.0 | 4,425.7 | 896.5 | 4,483.1 | 0.00 | 0.00 | 0.00 |
| | 17,000.0 | 90.00 | 358.98 | 12,600.0 | 4,525.6 | 894.7 | 4,582.7 | 0.00 | 0.00 | 0.00 |
| | 17,100.0 | 90.00 | 358.98 | 12,600.0 | 4,625.6 | 892.9 | 4,682.2 | 0.00 | 0.00 | 0.00 |
| | 17,200.0 | 90.00 | 358.98 | 12,600.0 | 4,725.6 | 891.1 | 4,781.7 | 0.00 | 0.00 | 0.00 |
| | 17,300.0 | 90.00 | 358.98 | 12,600.0 | 4,825.6 | 889.3 | 4,881.2 | 0.00 | 0.00 | 0.00 |
| | 17,400.0 | 90.00 | 358.98 | 12,600.0 | 4,925.6 | 887.5 | 4,980.7 | 0.00 | 0.00 | 0.00 |
| | 17,500.0 | 90.00 | 358.98 | 12,600.0 | 5,025.6 | 885.7 | 5,080.3 | 0.00 | 0.00 | 0.00 |
| | 17,600.0 | 90.00 | 358.98 | 12,600.0 | 5,125.5 | 883.9 | 5,179.8 | 0.00 | 0.00 | 0.00 |
| | 17,700.0 | 90.00 | 358.98 | 12,600.0 | 5,225.5 | 882.1 | 5,279.3 | 0.00 | 0.00 | 0.00 |
| | 17,800.0 | 90.00 | 358.98 | 12,600.0 | 5,325.5 | 880.4 | 5,378.8 | 0.00 | 0.00 | 0.00 |

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Planning Report

| Database: | EDT 17 Central Planning Prod | Local Co-ordinate Reference: | Well AKUBRA FED COM #704H - Slot AKUBRA FED COM #704H |
|-----------|------------------------------|------------------------------|--|
| Company: | DELAWARE BASIN EAST | TVD Reference: | RKB=25ft @ 3217.0usft |
| Project: | BULLDOG PROSPECT (NM-E) | MD Reference: | RKB=25ft @ 3217.0usft |
| Site: | AKUBRA PROJECT | North Reference: | Grid |
| Well: | AKUBRA FED COM #704H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | PWP1 | | |

Planned Survey

| 17.000.0 90.00 359.88 12.000.0 6.425.5 976.8 5.577.3 0.00 0.00 0.00 18.024.5 90.00 359.88 12.000.0 5.505.4 875.8 5.577.5 0.00 0.00 0.00 18.069.9 90.00 359.88 12.000.0 5.505.4 875.9 5.647.4 2.00 0.00 0.00 18.100.0 90.00 359.88 12.000.0 5.625.5 875.8 5.777.5 0.00 0.00 0.00 18.200.0 90.00 359.88 12.000.0 5.625.5 875.6 5.775.5 0.00 0.00 0.00 18.200.0 90.00 359.88 12.000.0 6.225.5 875.4 5.676.5 0.00 0.00 0.00 18.000.0 90.00 359.88 12.000.0 6.225.5 877.4 6.076.1 0.00 0.00 0.00 18.070.0 90.00 359.88 12.000.0 6.225.5 874.4 6.173.4 0.00 0.00 0.00 <th>Γ</th> <th>easured Depth (usft)</th> <th>Inclination (°)</th> <th>Azimuth (°)</th> <th>Vertical Depth (usft)</th> <th>+N/-S (usft)</th> <th>+E/-W (usft)</th> <th>Vertical Section (usft)</th> <th>Dogleg Rate (°/100usft)</th> <th>Build Rate (°/100usft)</th> <th>Turn Rate (°/100usft)</th> | Γ | easured 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) |
|--|----|----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 18,000.0 90.00 388.88 12,000.0 5,525.8 876.8 5,577.9 0.00 0.00 18,000.0 90.00 398.88 12,000.0 5,595.4 876.8 5,577.9 0.00 0.00 18,000.0 90.00 399.88 12,000.0 5,695.4 875.8 5,677.5 0.00 0.00 0.00 18,200.0 90.00 359.88 12,000.0 5,625.5 875.8 5,677.5 0.00 0.00 0.00 18,200.0 90.00 359.88 12,200.0 5,625.5 875.6 5,777.1 0.00 0.00 0.00 18,600.0 90.00 359.88 12,600.0 6,625.5 874.6 6,175.8 0.00 0.00 0.00 18,600.0 90.00 359.88 12,600.0 6,625.5 874.6 6,275.4 0.00 0.00 0.00 18,000.0 90.00 359.88 12,600.0 6,625.5 874.4 6,574.4 0.00 0.00 0.00 19,000.0 <td></td> <td>17.900 0</td> <td></td> <td></td> <td>12,600.0</td> <td>5.425.5</td> <td>878 6</td> <td>5,478.3</td> <td>0.00</td> <td>0.00</td> <td>0.00</td> | | 17.900 0 | | | 12,600.0 | 5.425.5 | 878 6 | 5,478.3 | 0.00 | 0.00 | 0.00 |
| 18,024.5 90.00 35.89 12,000 5,550.2 20.00 0.00 18,069.9 90.00 359.88 12,000 5,585.4 875.9 5,647.4 2.00 0.00 2.00 18,060.9 90.00 359.88 12,000 5,657.5 8,75.6 5,77.7 0.00 0.00 0.00 18,300.0 90.00 359.88 12,000.0 5,625.5 875.6 5,77.1 0.00 0.00 0.00 18,300.0 90.00 359.88 12,000.0 6,225.5 875.4 6,175.1 0.00 0.00 0.00 18,600.0 90.00 359.88 12,000.0 6,225.5 874.4 6,375.4 0.00 0.00 0.00 18,700.0 90.00 359.88 12,000.0 6,225.5 874.4 6,375.4 0.00 0.00 0.00 18,000.0 90.00 359.88 12,000.0 6,225.5 874.4 6,374.4 0.00 0.00 0.00 19,000.0 90.00 | | | | | | | | | | | |
| Start DL 3 200 TFO 96.00 Special Start | | | | | | , | | | | | |
| 18.089.9 90.00 359.88 12.000 5.054 875.9 5.647.4 2.00 0.00 2.00 18.100.0 90.00 359.88 12.000 5.25.5 875.8 5.677.5 0.00 0.00 0.00 18.200.0 90.00 358.88 12.000 5.25.5 875.8 5.776.8 0.00 0.00 0.00 18.400.0 90.00 358.88 12.000 6.225.5 877.4 5.676.8 0.00 0.00 0.00 18.000.0 90.00 358.88 12.000 6.225.5 874.4 6.275.4 0.00 0.00 0.00 18.000.0 90.00 358.88 12.000 6.325.5 874.4 6.375.4 0.00 0.00 0.00 19.000.0 90.00 358.88 12.000 6.225.5 873.4 6.373.4 0.00 0.00 0.00 19.000.0 90.00 358.88 12.000 6.225.5 873.4 6.77.14 0.00 0.00 0.00 | | | | | | | | | | | |
| Start 5204 Should at 1965-9 MD 18,100.0 90.00 358.88 12,600.0 5,725.5 875.8 5,777.1 0.00 0.00 18,300.0 90.00 358.88 12,600.0 5,825.5 875.4 5,876.5 0.00 0.00 0.00 18,400.0 90.00 358.88 12,600.0 6,825.5 877.4 5,876.5 0.00 0.00 0.00 18,500.0 90.00 358.88 12,600.0 6,225.5 874.6 6,275.4 0.00 0.00 0.00 18,600.0 90.00 358.88 12,600.0 6,225.5 874.4 6,375.1 0.00 0.00 0.00 18,000.0 90.00 358.88 12,600.0 6,225.5 873.4 6,074.1 0.00 0.00 0.00 19,000.0 90.00 358.88 12,600.0 6,225.5 873.6 6,774.1 0.00 0.00 0.00 19,000.0 90.00 358.88 12,600.0 7,025.5 873.6 6,774.1 | | | | 359.88 | 12,600.0 | 5,595.4 | 875.9 | 5,647.4 | 2.00 | 0.00 | 2.00 |
| 18,100.0 90.00 359.88 12,000.0 5,025.5 875.8 5,777.1 0.00 0.00 18,200.0 90.00 359.88 12,000.0 5,725.5 875.6 5,777.1 0.00 0.00 18,300.0 90.00 359.88 12,000.0 5,725.5 875.6 5,775.1 0.00 0.00 18,500.0 90.00 359.88 12,200.0 6,225.5 874.8 6,175.8 0.00 0.00 0.00 18,600.0 90.00 359.88 12,200.0 6,325.5 874.4 6,375.4 0.00 0.00 0.00 18,800.0 90.00 359.88 12,200.0 6,325.5 874.4 6,374.4 0.00 0.00 0.00 19,000.0 90.00 359.88 12,200.0 6,225.5 874.6 6,773.8 0.00 0.00 0.00 19,000.0 90.00 359.88 12,600.0 6,325.5 873.4 6,673.4 0.00 0.00 0.00 1.00 1.00 0.00 <td>St</td> <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | St | , | | | | | | | | | |
| 18,300.0 90.00 359.88 12,600.0 5.925.5 875.4 5.876.5 0.00 0.00 0.00 18,500.0 90.00 359.88 12,600.0 6.025.5 875.0 6.775.8 0.00 0.00 0.00 18,600.0 90.00 359.88 12,600.0 6.325.5 874.8 6.775.8 0.00 0.00 0.00 18,000.0 90.00 359.88 12,600.0 6.325.5 874.4 6.375.1 0.00 0.00 0.00 18,000.0 90.00 359.88 12,600.0 6.225.5 874.0 6.574.1 0.00 0.00 0.00 19,000.0 90.00 359.88 12,600.0 6.25.5 873.6 6.773.8 0.00 0.00 0.00 19,000.0 90.00 359.88 12,600.0 7.025.5 873.6 6.773.8 0.00 0.00 0.00 19,500.0 90.00 359.88 12,600.0 7.025.5 873.2 6,973.1 0.00 0.00 0.00 19,600.0 90.00 359.88 12,600.0 7.225.5 873.2< | | | | | 12,600.0 | 5,625.5 | 875.8 | 5,677.5 | 0.00 | 0.00 | 0.00 |
| 18,300.0 90.00 359.88 12,600.0 5.925.5 875.4 5.876.5 0.00 0.00 0.00 18,500.0 90.00 359.88 12,600.0 6.025.5 875.0 6.775.8 0.00 0.00 0.00 18,600.0 90.00 359.88 12,600.0 6.325.5 874.8 6.775.8 0.00 0.00 0.00 18,000.0 90.00 359.88 12,600.0 6.325.5 874.4 6.375.1 0.00 0.00 0.00 18,000.0 90.00 359.88 12,600.0 6.225.5 874.0 6.574.1 0.00 0.00 0.00 19,000.0 90.00 359.88 12,600.0 6.25.5 873.6 6.773.8 0.00 0.00 0.00 19,000.0 90.00 359.88 12,600.0 7.025.5 873.6 6.773.8 0.00 0.00 0.00 19,500.0 90.00 359.88 12,600.0 7.025.5 873.2 6,973.1 0.00 0.00 0.00 19,600.0 90.00 359.88 12,600.0 7.225.5 873.2< | | 18,200.0 | 90.00 | 359.88 | 12,600.0 | 5,725.5 | 875.6 | 5,777.1 | 0.00 | 0.00 | 0.00 |
| 18,400.0 90.00 359,88 12,600.0 6,025.5 875.2 5,976.3 0.00 0.00 0.00 18,600.0 90.00 359,88 12,600.0 6,025.5 874.8 6,175.1 0.00 0.00 0.00 18,000.0 90.00 359,88 12,600.0 6,225.5 874.4 6,375.4 0.00 0.00 0.00 18,000.0 90.00 359,88 12,600.0 6,225.5 874.4 6,375.4 0.00 0.00 0.00 19,000.0 90.00 359,88 12,600.0 6,625.5 873.8 6,674.1 0.00 0.00 0.00 19,000.0 90.00 359,88 12,600.0 6,225.5 873.2 6,973.1 0.00 0.00 0.00 19,000.0 90.00 359,88 12,600.0 7,225.5 873.0 7,172.4 0.00 0.00 0.00 19,000.0 90.00 359,88 12,600.0 7,325.5 873.0 7,172.4 0.00 0.00 0.00 <td></td> | | | | | | | | | | | |
| 18,500.0 90.00 359.88 12,600.0 6,025.5 875.0 6,075.8 0.00 0.00 0.00 18,700.0 90.00 359.88 12,600.0 6,225.5 874.8 6,275.4 0.00 0.00 0.00 18,600.0 90.00 359.88 12,800.0 6,325.5 874.4 6,375.1 0.00 0.00 0.00 18,000.0 90.00 359.88 12,800.0 6,255.5 874.8 6,374.4 0.00 0.00 0.00 19,000.0 90.00 359.88 12,800.0 6,255.5 873.4 6,373.4 0.00 0.00 0.00 19,000.0 90.00 359.88 12,800.0 7,025.5 873.2 6,373.4 0.00 0.00 0.00 19,600.0 90.00 359.88 12,800.0 7,025.5 872.8 7,127.4 0.00 0.00 0.00 19,600.0 90.00 359.88 12,800.0 7,255.5 871.3 7,471.4 0.00 0.00 0.00 <td></td> | | | | | | | | | | | |
| 18.000 90.00 359.88 12.000 6.125.5 874.8 6.175.4 0.00 0.00 18.700.0 90.00 359.88 12.600.0 6.225.5 874.6 6.275.4 0.00 0.00 0.00 18.900.0 90.00 359.88 12.600.0 6.325.5 874.4 6.375.1 0.00 0.00 19.000.0 90.00 359.88 12.600.0 6.825.5 877.8 6.574.4 0.00 0.00 0.00 19.000.0 90.00 359.88 12.600.0 6.825.5 873.4 6.677.38 0.00 0.00 0.00 19.400.0 90.00 359.88 12.600.0 7.025.5 873.0 7.072.4 0.00 0.00 0.00 19.600.0 90.00 359.88 12.600.0 7.25.5 872.8 7.377.1 0.00 0.00 0.00 19.600.0 90.00 359.88 12.600.0 7.25.5 877.1 7.477.4 0.00 0.00 0.00 19.600.0 | | | 90.00 | | | | | | | | |
| 18,800.0 90.00 359.88 12,600.0 6,325.5 874.4 6,374.1 0.00 0.00 0.00 19,000.0 90.00 359.88 12,600.0 6,525.5 874.0 6,574.4 0.00 0.00 0.00 19,000.0 90.00 359.88 12,600.0 6,255.5 873.8 6,674.1 0.00 0.00 0.00 19,000.0 90.00 359.88 12,600.0 6,255.5 873.4 6,674.1 0.00 0.00 0.00 19,000.0 90.00 359.88 12,600.0 6,255.5 873.2 6,973.1 0.00 0.00 0.00 19,600.0 90.00 359.88 12,600.0 7,225.5 872.6 7,271.1 0.00 0.00 0.00 19,700.0 90.00 359.88 12,600.0 7,255.5 871.1 7,714.4 0.00 0.00 0.00 20,000.0 90.00 359.88 12,600.0 7,255.5 871.1 7,870.1 0.00 0.00 0.00 <td></td> | | | | | | | | | | | |
| 18,800.0 90.00 359.88 12,600.0 6,325.5 874.4 6,374.4 0.00 0.00 19,000.0 90.00 359.88 12,600.0 6,525.5 874.0 6,574.4 0.00 0.00 19,000.0 90.00 359.88 12,600.0 6,625.5 873.6 6,674.1 0.00 0.00 19,000.0 90.00 359.88 12,600.0 6,255.5 873.4 6,674.1 0.00 0.00 19,000.0 90.00 359.88 12,600.0 6,255.5 873.2 6,973.4 0.00 0.00 0.00 19,000.0 90.00 359.88 12,600.0 7,225.5 872.6 7,271.4 0.00 0.00 0.00 19,000.0 90.00 359.88 12,600.0 7,255.5 872.1 7,471.4 0.00 0.00 0.00 19,000.0 90.00 359.88 12,600.0 7,255.5 871.1 7,670.7 0.00 0.00 0.00 20,000.0 90.00 359.88 | | 18 700 0 | 90 00 | 350 88 | 12 600 0 | 6 225 5 | 874 6 | 6 275 4 | 0.00 | 0.00 | 0.00 |
| 18,000.0 90.00 359.88 12,600.0 6,425.5 874.2 6,474.8 0.00 0.00 0.00 19,000.0 90.00 359.88 12,600.0 6,625.5 873.8 6,674.1 0.00 0.00 0.00 19,000.0 90.00 359.88 12,600.0 6,225.5 873.4 6,673.4 0.00 0.00 0.00 19,000.0 90.00 359.88 12,600.0 6,225.5 873.2 6,373.4 0.00 0.00 0.00 19,500.0 90.00 359.88 12,600.0 7,125.5 872.6 7,127.4 0.00 0.00 0.00 19,600.0 90.00 359.88 12,600.0 7,125.5 872.6 7,127.4 0.00 0.00 0.00 19,600.0 90.00 359.88 12,600.0 7,255.5 871.3 7,571.1 0.00 0.00 0.00 19,900.0 90.00 359.88 12,600.0 7,255.5 871.3 7,571.1 0.00 0.00 0.00 <td></td> | | | | | | | | | | | |
| 19,000.0 90.00 359.88 12,600.0 6,525.5 874.0 6,674.4 0.00 0.00 0.00 19,100.0 90.00 359.88 12,600.0 6,725.5 873.8 6,673.8 0.00 0.00 0.00 19,200.0 90.00 359.88 12,600.0 6,725.5 873.4 6,873.4 0.00 0.00 0.00 19,400.0 90.00 359.88 12,600.0 7,025.5 873.0 7,072.8 0.00 0.00 0.00 19,600.0 90.00 359.88 12,600.0 7,225.5 872.6 7,272.1 0.00 0.00 0.00 19,600.0 90.00 359.88 12,600.0 7,225.5 871.5 7,717.4 0.00 0.00 0.00 20,000.0 90.00 359.88 12,600.0 7,225.5 871.5 7,770.4 0.00 0.00 0.00 20,000.0 90.00 359.88 12,600.0 7,225.5 871.5 7,770.4 0.00 0.00 0.00 <td></td> | | | | | | | | | | | |
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| 21,700.090.00359.8812,600.09,225.5868.59,265.40.000.000.0021,800.090.00359.8812,600.09,325.5868.39,365.00.000.000.0021,900.090.00359.8812,600.09,425.5868.09,464.70.000.000.0022,000.090.00359.8812,600.09,525.5867.89,564.30.000.000.0022,100.090.00359.8812,600.09,625.5867.69,664.00.000.000.0022,200.090.00359.8812,600.09,725.5867.49,763.70.000.000.0022,300.090.00359.8812,600.09,825.5867.29,863.30.000.000.0022,400.090.00359.8812,600.09,925.5867.09,963.00.000.000.0022,500.090.00359.8812,600.010,025.5866.810,062.70.000.000.0022,600.090.00359.8812,600.010,125.5866.610,162.30.000.000.00 | | | | | , | | | , | | | |
| 21,800.090.00359.8812,600.09,325.5868.39,365.00.000.000.0021,900.090.00359.8812,600.09,425.5868.09,464.70.000.000.0022,000.090.00359.8812,600.09,525.5867.89,564.30.000.000.0022,100.090.00359.8812,600.09,625.5867.69,664.00.000.000.0022,200.090.00359.8812,600.09,725.5867.49,763.70.000.000.0022,300.090.00359.8812,600.09,825.5867.29,863.30.000.000.0022,400.090.00359.8812,600.09,925.5867.09,963.00.000.000.0022,500.090.00359.8812,600.010,025.5866.810,062.70.000.000.0022,600.090.00359.8812,600.010,125.5866.610,162.30.000.000.00 | | 21,600.0 | 90.00 | 359.88 | 12,600.0 | 9,125.5 | 868.7 | 9,165.7 | 0.00 | 0.00 | 0.00 |
| 21,900.090.00359.8812,600.09,425.5868.09,464.70.000.000.0022,000.090.00359.8812,600.09,525.5867.89,564.30.000.000.0022,100.090.00359.8812,600.09,625.5867.69,664.00.000.000.0022,200.090.00359.8812,600.09,725.5867.49,763.70.000.000.0022,300.090.00359.8812,600.09,825.5867.29,863.30.000.000.0022,400.090.00359.8812,600.09,925.5867.09,963.00.000.000.0022,500.090.00359.8812,600.010,025.5866.810,062.70.000.000.0022,600.090.00359.8812,600.010,125.5866.610,162.30.000.000.00 | | | | | | | | | | | |
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| 22,100.090.00359.8812,600.09,625.5867.69,664.00.000.000.0022,200.090.00359.8812,600.09,725.5867.49,763.70.000.000.0022,300.090.00359.8812,600.09,825.5867.29,863.30.000.000.0022,400.090.00359.8812,600.09,925.5867.09,963.00.000.000.0022,500.090.00359.8812,600.010,025.5866.810,062.70.000.000.0022,600.090.00359.8812,600.010,125.5866.610,162.30.000.000.00 | | | | | | | | | | | |
| 22,200.090.00359.8812,600.09,725.5867.49,763.70.000.000.0022,300.090.00359.8812,600.09,825.5867.29,863.30.000.000.0022,400.090.00359.8812,600.09,925.5867.09,963.00.000.000.0022,500.090.00359.8812,600.010,025.5866.810,062.70.000.000.0022,600.090.00359.8812,600.010,125.5866.610,162.30.000.000.00 | | | | | | | | | | | |
| 22,300.090.00359.8812,600.09,825.5867.29,863.30.000.000.0022,400.090.00359.8812,600.09,925.5867.09,963.00.000.000.0022,500.090.00359.8812,600.010,025.5866.810,062.70.000.000.0022,600.090.00359.8812,600.010,125.5866.610,162.30.000.000.00 | | 22,100.0 | 90.00 | 359.88 | 12,600.0 | 9,625.5 | 867.6 | 9,664.0 | 0.00 | 0.00 | 0.00 |
| 22,400.090.00359.8812,600.09,925.5867.09,963.00.000.000.0022,500.090.00359.8812,600.010,025.5866.810,062.70.000.000.0022,600.090.00359.8812,600.010,125.5866.610,162.30.000.000.00 | | | | | | | | | | | |
| 22,500.090.00359.8812,600.010,025.5866.810,062.70.000.000.0022,600.090.00359.8812,600.010,125.5866.610,162.30.000.000.00 | | | | | | | | | | | |
| 22,600.0 90.00 359.88 12,600.0 10,125.5 866.6 10,162.3 0.00 0.00 0.00 | | | | | | | | | | | |
| | | | | | | | | | | | |
| 22,700.0 90.00 359.88 12,600.0 10,225.5 866.4 10,262.0 0.00 0.00 0.00 | | 22,600.0 | 90.00 | 359.88 | 12,600.0 | 10,125.5 | 866.6 | 10,162.3 | 0.00 | 0.00 | 0.00 |
| | | 22,700.0 | 90.00 | 359.88 | 12,600.0 | 10,225.5 | 866.4 | 10,262.0 | 0.00 | 0.00 | 0.00 |

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COMPASS 5000.17 Build

Planning Report

| Database: | EDT 17 Central Planning Prod | Local Co-ordinate Reference: | Well AKUBRA FED COM #704H - Slot AKUBRA FED COM #704H |
|-----------|------------------------------|------------------------------|--|
| Company: | DELAWARE BASIN EAST | TVD Reference: | RKB=25ft @ 3217.0usft |
| Project: | BULLDOG PROSPECT (NM-E) | MD Reference: | RKB=25ft @ 3217.0usft |
| Site: | AKUBRA PROJECT | North Reference: | Grid |
| Well: | AKUBRA FED COM #704H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | PWP1 | | |

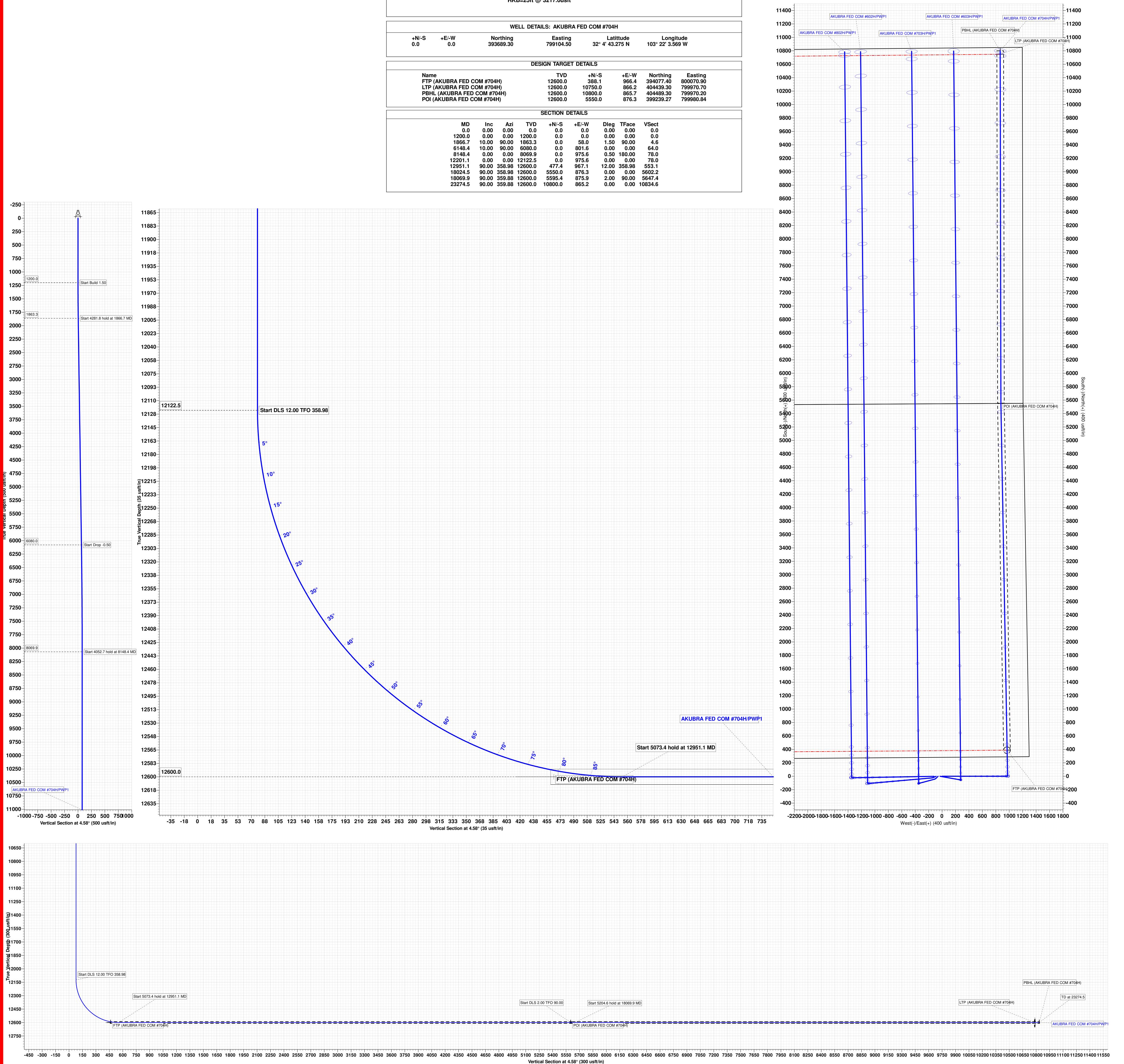
Planned Survey

| 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) |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 22,800.0 | 90.00 | 359.88 | 12,600.0 | 10,325.5 | 866.2 | 10,361.7 | 0.00 | 0.00 | 0.00 |
| 22,900.0 | 90.00 | 359.88 | 12,600.0 | 10,425.5 | 866.0 | 10,461.3 | 0.00 | 0.00 | 0.00 |
| 23,000.0 | 90.00 | 359.88 | 12,600.0 | 10,525.5 | 865.8 | 10,561.0 | 0.00 | 0.00 | 0.00 |
| 23,100.0 | 90.00 | 359.88 | 12,600.0 | 10,625.5 | 865.6 | 10,660.7 | 0.00 | 0.00 | 0.00 |
| 23,200.0 | 90.00 | 359.88 | 12,600.0 | 10,725.5 | 865.4 | 10,760.3 | 0.00 | 0.00 | 0.00 |
| 23,274.5 | 90.00 | 359.88 | 12,600.0 | 10,800.0 | 865.2 | 10,834.6 | 0.00 | 0.00 | 0.00 |
| TD at 23274. | 5 | | | | | | | | |

| 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 |
| POI (AKUBRA FED CON - plan hits target cen - Rectangle (sides W | | 179.00 .0 D20.0) | 12,600.0 | 5,550.0 | 876.3 | 399,239.27 | 799,980.84 | 32° 5' 38.115 N | 103° 21' 52.805 W |
| FTP (AKUBRA FED COI - plan misses target (- Circle (radius 50.0) | , | 0.00 sft at 12862 | 12,600.0 .9usft MD (1 | 388.1 2591.9 TVD, 3 | 966.4 389.7 N, 968.7 | 394,077.40 'E) | 800,070.90 | 32° 4' 47.029 N | 103° 21' 52.298 W |
| PBHL (AKUBRA FED C(- plan misses target o - Rectangle (sides W | , | | 12,600.0 .5usft MD (1 | 10,800.0 2600.0 TVD, | 865.7 10800.0 N, 86 | 404,489.30 5.2 E) | 799,970.20 | 32° 6' 30.066 N | 103° 21' 52.381 W |
| LTP (AKUBRA FED CON - plan misses target - Circle (radius 50.0) | - | 359.45 Jusft at 2320 | 12,600.0 0.0usft MD (| 10,750.0 12600.0 TVD, | 866.2 , 10725.5 N, 8 | 404,439.30 65.4 E) | 799,970.70 | 32° 6' 29.571 N | 103° 21' 52.380 W |

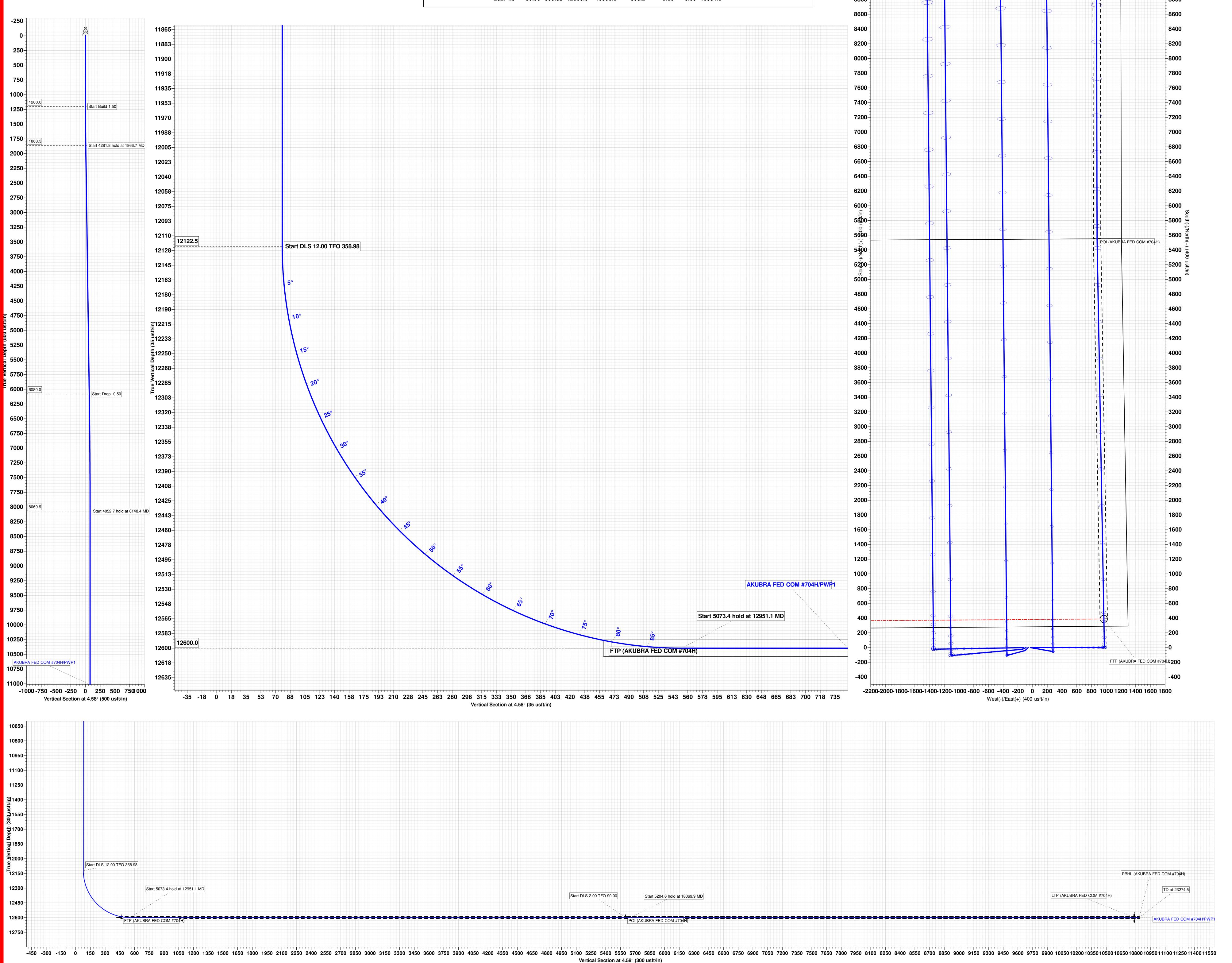
| Plan Annotations | | | | |
|-----------------------------|-----------------------------|-------------------------------|----------------------------|---------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coor +N/-S (usft) | dinates +E/-W (usft) | Comment |
| 1.200.0 | 1.200.0 | 0.0 | 0.0 | Start Build 1.50 |
| 1,866.7 | 1,863.3 | 0.0 | 58.0 | Start 4281.8 hold at 1866.7 MD |
| 6,148.4 | 6,080.0 | 0.0 | 801.6 | Start Drop -0.50 |
| 8,148.4 | 8,069.9 | 0.0 | 975.6 | Start 4052.7 hold at 8148.4 MD |
| 12,201.1 | 12,122.5 | 0.0 | 975.6 | Start DLS 12.00 TFO 358.98 |
| 12,951.1 | 12,600.0 | 477.4 | 967.1 | Start 5073.4 hold at 12951.1 MD |
| 18,024.5 | 12,600.0 | 5,550.0 | 876.3 | Start DLS 2.00 TFO 90.00 |
| 18,069.9 | 12,600.0 | 5,595.4 | 875.9 | Start 5204.6 hold at 18069.9 MD |
| 23,274.5 | 12,600.0 | 10,800.0 | 865.2 | TD at 23274.5 |

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Project: BULLDOG PROSPECT (NM-E) Site: AKUBRA PROJECT Well: AKUBRA FED COM #704H Wellbore: OWB Design: PWP1 ĞL: 3192.0 RKB=25ft @ 3217.0usft

| +N/-S | +E/-W | N | orthing | | Easting | 1 | l ati | ttude | Longi | itude | |
|--------|------------------|---------------|---------|------------------|------------|----------------|--------------|----------------|--------------|-----------|--|
| 0.0 | 0.0 | | 3689.30 | | 799104.50 | | 2° 4' 43.2 | | 103° 22' 3.5 | | |
| | | | | DE | SIGN TARGE | T DETAILS | 6 | | | | |
| Name | | | | | TVD | +N/ | ′-S | +E/-W | Northing | Easting | |
| • | KUBRA FED C | | | | 12600.0 | 388 | | 966.4 | | 800070.90 | |
| • | KUBRA FED C | | • | | 12600.0 | 10750 | | 866.2 | | 799970.70 | |
| | | | | | 12600.0 | 10800 | | 865.7 | | 799970.20 | |
| P01 (A | KUBRA FED C | | ·n) | | 12600.0 | 5550 |).0 | 876.3 | 399239.27 | 799980.84 | |
| | | | | | SECTION D | ETAILS | | | | | |
| | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSect | | |
| | 0.0 | 0.00 | | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | | |
| | 1200.0 | 0.00 | | 1200.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | | |
| | 1866.7 | 10.00 | | 1863.3 | 0.0 | 58.0 | 1.50 | 90.00 | 4.6 | | |
| | 6148.4 8148.4 | 10.00 0.00 | | 6080.0 8069.9 | 0.0 0.0 | 801.6 975.6 | 0.00 0.50 | 0.00 180.00 | 64.0 78.0 | | |
| | 12201.1 | 0.00 | 0.00 | | 0.0 | 975.6 | 0.00 | 0.00 | 78.0 | | |
| | 12951.1 | | | 12600.0 | 477.4 | 967.1 | 12.00 | | 553.1 | | |
| | 18024.5 | 90.00 | | 12600.0 | 5550.0 | 876.3 | 0.00 | 0.00 | 5602.2 | | |
| | 18069.9 | | | 12600.0 | 5595.4 | 875.9 | 2.00 | | 5647.4 | | |
| | 23274.5 | 90.00 | 359.88 | 12600.0 | 10800.0 | 865.2 | 0.00 | 0.00 | 10834.6 | | |
| | | | | | | | | | | | |
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PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

| OPERATOR'S NAME: | COG OPERATING LLC |
|-----------------------|-----------------------------|
| | |
| WELL NAME & NO.: | AKUBRA FEDERAL COM 704H |
| SURFACE HOLE FOOTAGE: | 280'/N & 1300'/E |
| BOTTOM HOLE FOOTAGE | 50'/N & 330'/E |
| LOCATION: | Section 4, T.26 S., R.35 E. |
| COUNTY: | Lea County, New Mexico |

COA

| H2S | • Yes | O No | |
|----------------------|------------------|--------------|----------------|
| Potash | • None | © Secretary | © R-111-P |
| Cave/Karst Potential | • Low | O Medium | O High |
| Cave/Karst Potential | Critical | | |
| Variance | ○ None | • Flex Hose | O Other |
| Wellhead | Conventional | Multibowl | © Both |
| Wellhead Variance | O Diverter | | |
| Other | \Box 4 String | Capitan Reef | WIPP |
| Other | □ Fluid Filled | 🗆 Pilot Hole | □ Open Annulus |
| Cementing | □ Contingency | EchoMeter | Primary Cement |
| | Cement Squeeze | | Squeeze |
| Special Requirements | 🗆 Water Disposal | COM | 🗆 Unit |
| Special Requirements | □ Batch Sundry | | |
| Special Requirements | □ Break Testing | □ Offline | Casing |
| Variance | | Cementing | Clearance |

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Primary Casing Design:

1. The **10-3/4** inch surface casing shall be set at approximately **1,107** feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of $\underline{8}$ <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- The 7-5/8 inch intermediate casing shall be set at approximately 12,000 feet. Keep casing minimum 1/3 full for collapse SF. Intermediate cement volumes does not meet CFO 25% excess recommendation. Primary cement job should be planned to surface. Please review. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as it is below the salt interval and the cement volume is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- The 5-1/2 inch production casing shall be set at approximately 23,274 feet. The W441 connection should tie back 500'+ into the W513 intermediate casing for clearance overlap. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Option 1 (Single Stage):

• Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 10-3/4 inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 43 CFR part 3170 Subpart 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.

• In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

Casing Clearance:

- The W441 connection should tie back 500'+ into the W513 intermediate casing for clearance overlap.

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - If well located in Eddy County EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, BLM_NM_CFO_DrillingNotifications@BLM.GOV (575) 361-2822
 - If well located in Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.

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- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

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- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.

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- d. Whenever any seal subject to test pressure is broken, all the tests in 43
 CFR part 3170 Subpart 3172 must be followed.
- e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR part 3170 Subpart 3172 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - e. The results of the test shall be reported to the appropriate BLM office.
 - f. All tests are required to be recorded on a calibrated test chart. A copy of the

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BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR part 3170 Subpart 3172.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

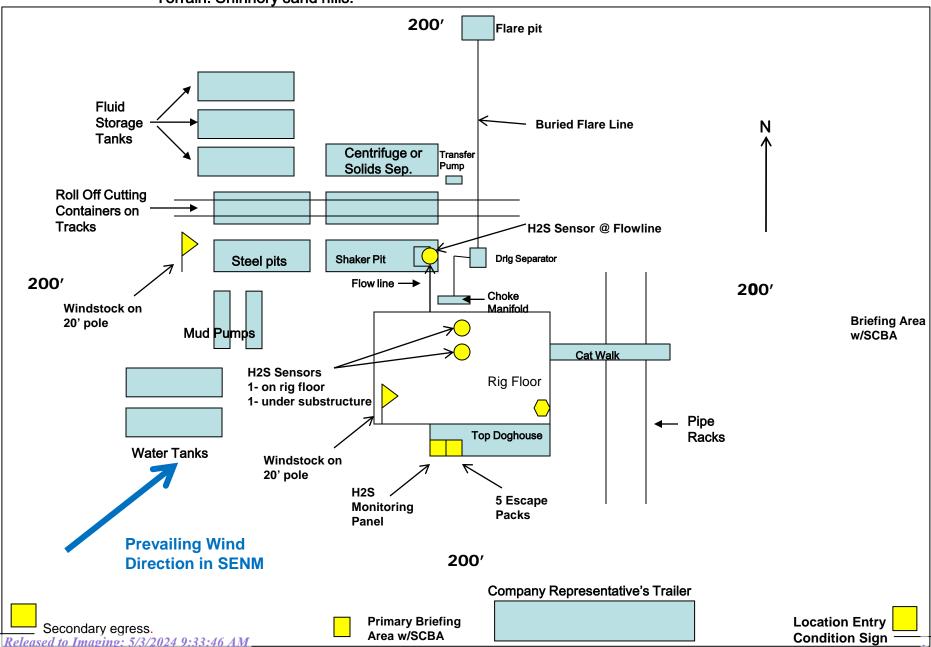
Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

KPI 4/5/2024

Approval Date: 04/29/2024

Received by OCD: 5/1/202 2839 Pagrating LLC H₂S Equipment Schematic

Terrain: Shinnery sand hills.



COG OPERATING LLC HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. <u>HYDROGEN SULFIDE TRAINING</u>

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

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

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

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

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

2. <u>H₂S SAFETY EQUIPMENT AND SYSTEMS</u>

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

a. Well Control Equipment:

Flare line.

Choke manifold with remotely operated choke.

Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.

Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

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

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

g. Communication:

Company vehicles equipped with cellular telephone.

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



EMERGENCY CALL LIST

OFFICE

COG OPERATING LLC OFFICE

575-748-6940

Dallas Daley

432-818-2329 432-631-6977

MOBILE

EMERGENCY RESPONSE NUMBERS

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

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District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

CONDITIONS

| Operator: | OGRID: |
|--------------------|---|
| COG OPERATING LLC | 229137 |
| 600 W Illinois Ave | Action Number: |
| Midland, TX 79701 | 339427 |
| | Action Type: |
| | [C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |

CONDITIONS

| Created | Condition | |
|---------|--|-------------------|
| By | | Condition Date |
| pkautz | Will require a File As Drilled C-102 and a Directional Survey with the C-104 | 5/3/2024 |
| pkautz | Will require administrative order for non-standard spacing unit | 5/3/2024 |
| pkautz | 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 | 5/3/2024 |
| pkautz | 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 | 5/3/2024 |
| pkautz | Cement is required to circulate on both surface and intermediate1 strings of casing | 5/3/2024 |
| pkautz | If cement does not circulate on any string, a CBL is required for that string of casing | 5/3/2024 |

CONDITIONS

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Action 339427