

Application for Permit to Drill

U.S. Department of the Interior Bureau of Land Management

APD Package Report

APD ID: 10400094054

APD Received Date: 08/24/2023 10:34 AM

Operator: COG OPERATING LLC

Date Printed: 01/23/2025 09:24 AM

Well Status: AAPD

Well Name: WILD THING FEDERAL CON

Well Number: 902H

APD Package Report Contents

- Form 3160-3
- Operator Certification Report
- Application Report
- Application Attachments
 - -- Well Plat: 1 file(s)
- Drilling Plan Report
- Drilling Plan Attachments
 - -- Blowout Prevention Choke Diagram Attachment: 2 file(s)
 - -- Blowout Prevention BOP Diagram Attachment: 4 file(s)
 - -- Casing Taperd String Specs: 2 file(s)
 - -- Casing Design Assumptions and Worksheet(s): 3 file(s)
 - -- Hydrogen sulfide drilling operations plan: 2 file(s)
 - -- Proposed horizontal/directional/multi-lateral plan submission: 2 file(s)
 - -- Other Facets: 10 file(s)
 - -- Other Variances: 1 file(s)
- SUPO Report
- SUPO Attachments
 - -- Existing Road Map: 1 file(s)
 - -- New Road Map: 1 file(s)
 - -- Attach Well map: 1 file(s)
 - -- Production Facilities map: 5 file(s)
 - -- Water source and transportation map: 2 file(s)
 - -- Well Site Layout Diagram: 1 file(s)
 - -- Recontouring attachment: 2 file(s)
 - -- Pit closure attachment: 1 file(s)
 - -- Other SUPO Attachment: 13 file(s)
- PWD Report
- PWD Attachments

- -- None
- Bond Report
- Bond Attachments
 - -- None

Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5 Lease Serial No. NMNM100555 BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. ✓ DRILL REENTER 1a. Type of work: 1b. Type of Well: ✓ Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing ✓ Single Zone Multiple Zone WILD THING FEDERAL COM 902H 2. Name of Operator 9. API Well No. COG OPERATING LLC 30**-015-56**169 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory PURPLE SAGE/WOLFCAMP GAS 600 West Illinois Ave, Midland, TX 79701 (432) 683-7443 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 31/T25S/R29E/NMP At surface SWSE / 856 FSL / 1409 FEL / LAT 32.081296 / LONG -104.019575 At proposed prod. zone NENE / 2440 FSL / 870 FEL / LAT 32.115037 / LONG -104.018051 12. County or Parish 14. Distance in miles and direction from nearest town or post office* 13 State **EDDY** NM 12 miles 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 360 feet location to nearest 1601.05 property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, 30 feet 10700 feet / 23559 feet FED: NMB000215 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 2949 feet 11/01/2024 30 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the 25. Signature Name (Printed/Typed) Date (Electronic Submission) MAYTE REYES / Ph: (432) 683-7443 08/24/2023 Title Regulatory Analyst Approved by (Signature) Name (Printed/Typed) Date (Electronic Submission) 01/17/2025 CODY LAYTON / Ph: (575) 234-5959 Title Office Assistant Field Manager Lands & Minerals Carlsbad Field Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency

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of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

(Continued on page 2)

*(Instructions on page 2)

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

0. SHL: SWSE / 856 FSL / 1409 FEL / TWSP: 25S / RANGE: 29E / SECTION: 31 / LAT: 32.081296 / LONG: -104.019575 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 330 FSL / 870 FEL / TWSP: 25S / RANGE: 29E / SECTION: 31 / LAT: 32.079852 / LONG: -104.017844 (TVD: 10619 feet, MD: 10798 feet)

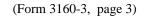
PPP: SESE / 1 FSL / 870 FEL / TWSP: 25S / RANGE: 29E / SECTION: 30 / LAT: 32.093639 / LONG: -104.01775 (TVD: 10700 feet, MD: 16234 feet)

BHL: NENE / 2440 FSL / 870 FEL / TWSP: 25S / RANGE: 29E / SECTION: 19 / LAT: 32.115037 / LONG: -104.018051 (TVD: 10700 feet, MD: 23559 feet)

BLM Point of Contact

Name: JANET D ESTES Title: ADJUDICATOR Phone: (575) 234-6233

Email: JESTES@BLM.GOV



Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.



PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME: COG Operating, LLC

LEASE NO.: | NMNM100555

COUNTY: Eddy County, New Mexico

Wells:

Wild Thing West Well Pad

Wild Thing Federal Com #503H

Wild Thing Federal Com #504H

Wild Thing Federal Com #706H

Wild Thing Federal Com #707H

Wild Thing Federal Com #708H

Wild Thing Federal Com #709H

Wild Thing Federal Com #710H

Wild Thing Federal Com #906H

Wild Thing Federal Com #907H

Wild Thing Federal Com #908H

Wild Thing Federal Com #909H

Wild Thing Federal Com #910H

Wild Thing East Well Pad

Wild Thing Federal Com #501H

Wild Thing Federal Com #502H

Wild Thing Federal Com #701H

Wild Thing Federal Com #702H

Wild Thing Federal Com #703H

Wild Thing Federal Com #704H

Wild Thing Federal Com #705H

Wild Thing Federal Com #901H

Wild Thing Federal Com #902H

Wild Thing Federal Com #903H

Wild Thing Federal Com #904H

Wild Thing Federal Com #905H

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1. GENERAL PROVISIONS

The failure of the operator to comply with these requirements may result in the assessment of liquidated damages or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on the location during construction, drilling and reclamation activity. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

1.1. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the operator, or any person working on the operator's behalf, on the public or federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area (within 100ft) of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer, in conjunction with a BLM Cultural Resource Specialist, to determine appropriate actions to prevent the loss of significant scientific values. The operator shall be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

Traditional Cultural Properties (TCPs) are protected by NHPA as codified in 36 CFR 800 for possessing traditional, religious, and cultural significance tied to a certain group of individuals. Though there are currently no designated TCPs within the project area or within a mile of the project area, but it is possible for a TCP to be designated after the approval of this project. If a TCP is designated in the project area after the project's approval, the BLM Authorized Officer will notify the operator of the following conditions and the duration for which these conditions are required.

- 1. Temporary halting of all construction, drilling, and production activities to lower noise.
- 2. Temporary shut-off of all artificial lights at night.

The operator is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA), specifically NAGPRA Subpart B regarding discoveries, to protect human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered during project work. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and a BLM-CFO Authorized Officer will be notified immediately. The BLM will then be required to be notified, in writing, within 24 hours of the discovery. The written notification should include the geographic location by county and state, the contents of the discovery, and the steps taken to protect said discovery. You must also include any potential threats to the discovery and a conformation that all activity within 100ft of the discovery has ceased and work will not resume until written certification is issued. All work on the entire project must halt for a minimum of 3 days and work cannot resume until an Authorized Officer grants permission to do so.

Any paleontological resource discovered by the operator, or any person working on the operator's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. The operator will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the operator.

1.2. RANGELAND RESOURCES

1.2.1. Cattleguards

Where a permanent cattleguard is approved, an appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

1.2.2. Fence Requirement

Where entry granted across a fence line, the fence must be braced and tied off on both sides of the passageway prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

1.2.3. Livestock Watering Requirement

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

1.3. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA, New Mexico Department of Agriculture, and BLM requirements and policies.

1.3.1 African Rue (Peganum harmala)

Spraying: The spraying of African Rue must be completed by a licensed or certified applicator. In order to attempt to kill or remove African Rue the proper mix of chemical is needed. The mix consists of 2% Arsenal (Imazapyr) and 2% Roundup (Glyphosate) along with a nonionic surfactant. Any other chemicals or combinations shall be approved by the BLM Noxious Weeds Coordinator prior to treatment. African Rue shall be sprayed in connection to any dirt working activities or disturbances to the site being sprayed. Spraying of African Rue shall be done on immature plants at initial growth through flowering and mature plants between budding and flowering stages. Spraying shall not be conducted after flowering when plant is fruiting. This will ensure optimal intake of chemical and decrease chances of developing herbicide resistance. After spraying, the operator or necessary parties must contact the Carlsbad Field Office to inspect the effectiveness of the application treatment to the plant species. No ground disturbing activities can take place until the inspection by the authorized officer is complete. The operator may contact the Environmental Protection Department or the BLM Noxious Weed Coordinator at (575) 234-5972 or BLM NM CFO NoxiousWeeds@blm.gov.

Management Practices: In addition to spraying for African Rue, good management practices should be followed. All equipment should be washed off using a power washer in a designated containment area. The containment area shall be bermed to allow for containment of the seed to prevent it from entering any open areas of the nearby landscape. The containment area shall be excavated near or adjacent to the well pad at a depth of three feet and just large enough to get equipment inside it to be washed off. This will allow all seeds to be in a centrally located area that can be treated at a later date if the need arises.

1.4. LIGHT POLLUTION

1.4.1. Downfacing

All permanent lighting will be pointed straight down at the ground in order to prevent light spill beyond the edge of approved surface disturbance.

1.4.2. Shielding

All permanent lighting will use full cutoff luminaires, which are fully shielded (i.e., not emitting direct or indirect light above an imaginary horizontal plane passing through the lowest part of the light source).

1.4.3. Lighting Color

Lighting shall be 3,500 Kelvin or less (Warm White) except during drilling, completion, and workover operations. No bluish-white lighting shall be used in permanent outdoor lighting.

2. SPECIAL REQUIREMENTS

2.1. WATERSHED

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The topsoil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control.

2.1.1. Tank Battery

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

2.1.2. Electric Line(s)

Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion. A power pole should not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that would not promote further erosion.

2.2. CAVE/KARST

2.2.1. General Construction

- No blasting
- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction, and no additional construction shall occur until clearance has been issued by the Authorized Officer.
- All linear surface disturbance activities will avoid sinkholes and other karst features to lessen the
 possibility of encountering near surface voids during construction, minimize changes to runoff, and
 prevent untimely leaks and spills from entering the karst drainage system.
- This is a sensitive area and all spills or leaks will be reported to the BLM immediately for their immediate and proper treatment, as defined in NTL 3A for Major Undesirable Events.

2.2.2. Pad Construction

- The pad will be constructed and leveled by adding the necessary fill and caliche. No blasting will be used for any construction or leveling activities.
- The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.
- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g., caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised (i.e. an access road crossing the berm cannot be lower than the berm height).
- Following a rain event, all fluids will be vacuumed off of the pad and hauled off-site and disposed at a
 proper disposal facility.

2.2.3. Road Construction

- Turnout ditches and drainage leadoffs will not be constructed in such a manner as to alter the natural flow
 of water into or out of cave or karst features.
- Special restoration stipulations or realignment may be required if subsurface features are discovered during construction.

2.2.4. Buried Pipeline/Cable Construction

• Rerouting of the buried line(s) may be required if a subsurface void is encountered during construction to minimize the potential subsidence/collapse of the feature(s) as well as the possibility of leaks/spills entering the karst drainage system.

2.2.5. Powerline Construction

- Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems.
- Larger powerlines will adjust their pole spacing to avoid cave and karst features.
- Special restoration stipulations or realignment may be required if subsurface voids are encountered.

2.2.6. Surface Flowlines Installation

Flowlines will be routed around sinkholes and other karst features to minimize the possibility of leaks/spills from entering the karst drainage system.

2.2.7. Production Mitigation

- Tank battery locations and facilities will be bermed and lined with a 20-mil thick permanent liner that has a 4 oz. felt backing, or equivalent, to prevent tears or punctures. Secondary containment holding capacity must be large enough to contain 1 ½ times the content of the largest tank or 24-hour production, whichever is greater (displaced volume from all tanks within the berms MUST be subtracted from total volume of containment in calculating holding capacity).
- Implementation of a leak detection system to provide an early alert to operators when a leak has occurred.
- Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

2.2.8. Residual and Cumulative Mitigation

The operator will perform annual pressure monitoring on all casing annuli. If the test results indicate a casing failure has occurred, contact a BLM Engineer immediately, and take remedial action to correct the problem.

2.2.9. Plugging and Abandonment Mitigation

Upon well abandonment in high cave karst areas, additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

2.3 WILDLIFE

2.3. Texas Hornshell Mussel

Oil and Gas and Associated Infrastructure Mitigation Measures for Zone D – CCA Boundary Requirements:

- Provide CEHMM with the permit, lease, or other authorization form BLM, if applicable.
- Provide CEHMM with plats or other electronic media describing the new surface disturbance for the project.

2.4 VISUAL RESOURCE MANAGEMENT

2.5.1 VRM IV

Above-ground structures including meter housing that are not subject to safety requirements are painted a flat nonreflective paint color, Shale Green from the BLM Standard Environmental Color Chart (CC-001: June 2008).

CONSTRUCTION REQUIRENMENTS

3.1 CONSTRUCTION NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at BLM_NM_CFO_Construction_Reclamation@blm.gov at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and COAs on the well site and they shall be made available upon request by the Authorized Officer.

3.2 TOPSOIL

The operator shall strip the topsoil (the A horizon) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. No more than the top 6 inches of topsoil shall be removed. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (the B horizon and below) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

3.3 CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No reserve pits will be used for drill cuttings. The operator shall properly dispose of drilling contents at an authorized disposal site.

3.4 FEDERAL MINERAL PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

3.5 WELL PAD & SURFACING

Any surfacing material used to surface the well pad will be removed at the time of interim and final reclamation.

3.6 EXCLOSURE FENCING (CELLARS & PITS)

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the well cellar is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

The operator will also install and maintain mesh netting for all open well cellars to prevent access to smaller wildlife before and after drilling operations until the well cellar is free of fluids and the operator. Use a maximum netting mesh size of $1\frac{1}{2}$ inches. The netting must not have holes or gaps.

3.7 ON LEASE ACESS ROAD

3.7.1 Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

3.7.2 **Surfacing**

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements will be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

3.7.3 Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

3.7.4 **Ditching**

Ditching shall be required on both sides of the road.

3.7.5 Turnouts

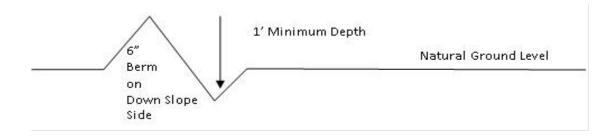
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

3.7.6 **Drainage**

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, leadoff ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: __400' + 100' = 200' lead-off ditch interval 4

3.7.7 **Public Access**

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

- Salvage topsoil
- 3. Redistribute topsoil
- 2. Construct road
- Revegetate slopes

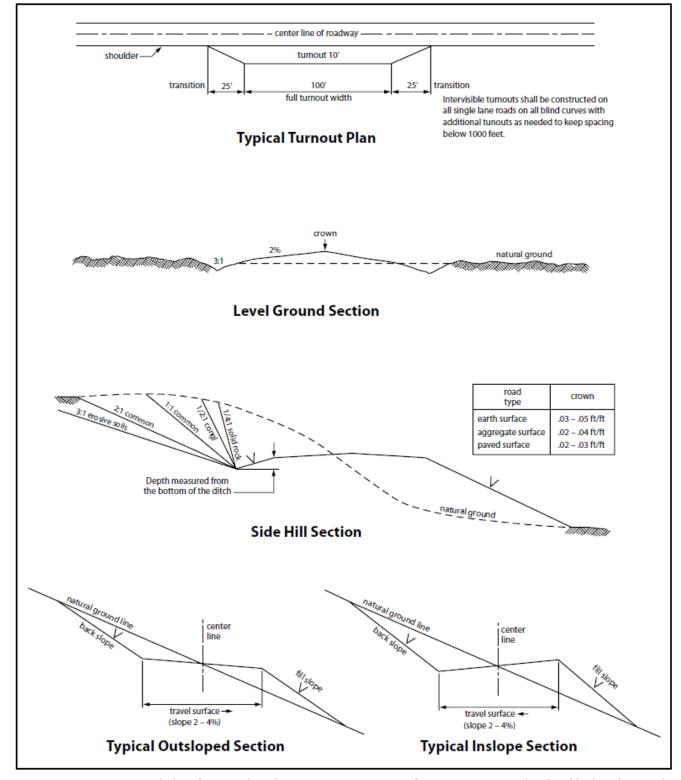


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

4. PIPELINES

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- A leak detection plan <u>will be submitted to the BLM Carlsbad Field Office for approval</u> prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

4.1 BURIED PIPELINES

A copy of the application (APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request a copy of your permit during construction to ensure compliance with all stipulations.

Operator agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The Operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.
- 2. The Operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the pipeline corridor or on facilities authorized under this APD. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Pipeline corridor (unless the release or threatened release is wholly unrelated to the operator's activity on the pipeline corridor), or resulting from the activity of the Operator on the pipeline corridor. This agreement applies without regard to whether a release is caused by the operator, its agent, or unrelated third parties.
- 4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant is discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of operator, regardless of fault. Upon failure of operator to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and

- fish and wildlife habitats, at the full expense of the operator. Such action by the Authorized Officer shall not relieve operator of any responsibility as provided herein.
- 5. All construction and maintenance activity will be confined to the authorized pipeline corridor.
- 6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.
- 7. The maximum allowable disturbance for construction in this pipeline corridor will be 30 feet:
 - Blading of vegetation within the pipeline corridor will be allowed: maximum width of blading operations will not exceed <u>20</u> feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation*.)
 - Clearing of brush species within the pipeline corridor will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.)
 - The remaining area of the pipeline corridor (if any) shall only be disturbed by compressing the vegetation. (Compressing can be caused by vehicle tires, placement of equipment, etc.)
- 8. The operator shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately ___6__ inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
- 9. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this pipeline corridor and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire pipeline corridor shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted, and a 6-inch berm will be left over the ditch line to allow for settling back to grade.
- 10. The pipeline will be identified by signs at the point of origin and completion of the pipeline corridor and at all road crossings. At a minimum, signs will state the operator's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.
- 11. The operator shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the operator before maintenance begins. The operator will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the operator to construct temporary deterrence structures.
- 12. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
- 13. <u>Escape Ramps</u> The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them alive at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30-degree slope and spaced no more than 500 feet apart) shall be placed in the trench. Before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them alive at least 100 yards from the trench.

14. Special Stipulations:

Karst:

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- If a void is encountered, alignments may be rerouted to avoid the karst feature and lessen the potential of subsidence or collapse of karst features, buildup of toxic or combustible gas, or other possible impacts to cave and karst resources from the buried pipeline.
- Special restoration stipulations or realignment may be required at such intersections, if any.
- A leak detection plan <u>will be submitted to the BLM Carlsbad Field Office for approval</u> prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

4.2 OVERHEAD ELECTRIC LINES

A copy of the APD and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Operator agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The operator shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this APD.
- 2. The operator shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the operator shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the powerline corridor or on facilities authorized under this powerline corridor. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The operator agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Powerline corridor(unless the release or threatened release is wholly unrelated to the operator's activity on the powerline corridor), or resulting from the activity of the Operator on the powerline corridor. This agreement applies without regard to whether a release is caused by the operator, its agent, or unrelated third parties.

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- 4. There will be no clearing or blading of the powerline corridor unless otherwise agreed to in writing by the Authorized Officer.
- 5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The operator shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this powerline corridor, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the operator without liability or expense to the United States.
- 6. Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.
- 7. The operator shall minimize disturbance to existing fences and other improvements on public lands. The operator is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The operator will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
- 9. Upon cancellation, relinquishment, or expiration of this APD, the operator shall comply with those abandonment procedures as prescribed by the Authorized Officer.
- 10. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this APD, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly. Fill in any holes from the poles removed.
- 12. Karst stipulations for overhead electric lines
 - Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems. Larger powerlines will adjust their pole spacing to avoid cave and karst features.
 - The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction.
 - No further construction will be done until clearance has been issued by the Authorized Officer.
 - Special restoration stipulations or realignment may be required.

4.3 RANGLAND MITIGATION FOR PIPELINES

4.5.1 Fence Requirement

Where entry is granted across a fence line, the fence must be braced and tied off on both sides of the passageway with H-braces prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment operator prior to crossing any fence(s).

4.5.2 Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at road-fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

4.5.3 Livestock Watering Requirement

Structures that provide water to livestock, such as windmills, pipelines, drinking troughs, and earthen reservoirs, will be avoided by moving the proposed action.

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment operator if any damage occurs to structures that provide water to livestock.

- Livestock operators will be contacted, and adequate crossing facilities will be provided as needed to ensure livestock are not prevented from reaching water sources because of the open trench.
- Wildlife and livestock trails will remain open and passable by adding soft plugs (areas where the
 trench is excavated and replaced with minimal compaction) during the construction phase. Soft
 plugs with ramps on either side will be left at all well-defined livestock and wildlife trails along
 the open trench to allow passage across the trench and provide a means of escape for livestock and
 wildlife that may enter the trench.
- Trenches will be backfilled as soon as feasible to minimize the amount of open trench. The Operator will avoid leaving trenches open overnight to the extent possible and open trenches that cannot be backfilled immediately will have escape ramps (wooden) placed at no more than 2,500 feet intervals and sloped no more than 45 degrees.

5. PRODUCTION (POST DRILLING)

5.1 WELL STRUCTURES & FACILITIES

5.1.1 Placement of Production Facilities

Production facilities must be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

5.1.2 Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

5.1.3. Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

5.1.4. Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

5.1.5. Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

6. RECLAMATION

Stipulations required by the Authorized Officer on specific actions may differ from the following general guidelines

6.1 ROAD AND SITE RECLAMATION

Any roads constructed during the life of the well will have the caliche removed or linear burial. If contaminants are indicated then testing will be required for chlorides and applicable contaminate anomalies for final disposal determination (disposed of in a manner approved by the Authorized Officer within Federal, State and Local statutes, regulations, and ordinances) and seeded to the specifications in sections 6.5 and 6.6.

6.2 EROSION CONTROL

Install erosion control berms, windrows, and hummocks. Windrows must be level and constructed perpendicular to down-slope drainage; steeper slopes will require greater windrow density. Topsoil between windrows must be ripped to a depth of at least 12", unless bedrock is encountered. Any large boulders pulled up during ripping must be deep-buried on location. Ripping must be perpendicular to down-slope. The surface must be left rough in order to catch and contain rainfall on-site. Any trenches resulting from erosion cause by run-off shall be addressed immediately.

6.3 INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations must undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators must work with BLM surface protection specialists (BLM_NM_CFO_Construction_Reclamation@blm.gov) to devise the best strategies to reduce the size of the location. Interim reclamation must allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche and any other surface material is required. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided in section 6.6.

Upon completion of interim reclamation, the operator shall submit a Sundry Notice, Subsequent Report of Reclamation (Form 3160-5).

6.4 FINAL ABANDONMENT & RECLAMATION

Prior to surface abandonment, the operator shall submit a Notice of Intent Sundry Notice and reclamation plan.

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding will be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM. After earthwork and seeding is completed, the operator is required to submit a Sundry Notice, Subsequent Report of Reclamation.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (BLM_NM_CFO_Construction_Reclamation@blm.gov).

6.5 SEEDING TECHNIQUES

Seeds shall be hydro-seeded, mechanically drilled, or broadcast, with the broadcast-seeded area raked, ripped or dragged to aid in covering the seed. The seed mixture shall be evenly and uniformly planted over the disturbed area.

6.6 SOIL SPECIFIC SEED MIXTURE

The lessee/permitee shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed land application will be accomplished by mechanical planting using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area. Smaller/heavier seeds tend to drop the bottom of the drill and are planted first; the operator shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory BLM or Soil Conservation

District stand is established as determined by the Authorized Officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding or until several months of precipitation have occurred, enabling a full four months of growth, with one or more seed generations being established.

Seed Mixture 2, for Sandy Site

Species to be planted in pounds of pure live seed* per acre:

Species

	l <u>b/acre</u>
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

^{*}Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: CONOCOPHILLIPS COMPANY
WELL NAME & NO.:
SURFACE HOLE FOOTAGE: 856'/S & 1409'/E
BOTTOM HOLE FOOTAGE 330'/S & 870'/E
LOCATION: Section 31, T.25 S., R.29 E., NMP
COUNTY: Eddy County, New Mexico

COA

H2S	• Yes	O No	
Potash	None	© Secretary	© R-111-P
Cave/Karst Potential	C Low	• Medium	C High
Cave/Karst Potential	Critical		
Variance	O None	• Flex Hose	Other
Wellhead	Conventional	Multibowl	© Both
Wellhead Variance	O Diverter		
Other	□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	
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 43 CFR part 3170 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 **13-3/8** inch surface casing shall be set at approximately **350 feet** (a minimum of 70 feet (Eddy 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 8 hours 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.
- 2. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash. Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Contingency:

Operator has proposed a contingency if losses are encountered, a DV tool, the depth may be adjusted as long as the cement 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.
 - Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

- 3. 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:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

Contingency Casing Design if large water flows are encountered:

- 4. The **13-3/8** inch surface casing shall be set at approximately **350 feet** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - e. 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.
 - f. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - g. 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.
 - h. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 5. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 6. **Keep casing full during run for collapse safety factor**. The minimum required fill of cement behind the **7-5/8** inch intermediate liner is:

- Cement should tie-back 100 feet into the previous casing. Operator shall provide method of verification.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 - Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
- 7. 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:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
 - Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

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).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8 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 2.
- 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. When the Communitization Agreement number is known, it shall also be on the sign.

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system) BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Casing Clearance:

- Overlap clearance OK for production interval

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)
 - ⊠ 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

✓ Lea CountyCall 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
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. 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.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
- 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. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

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.
- 2. Wait on cement (WOC) for Potash Areas: 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 of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: 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 8 hours. 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.
- 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-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR 3172.
- 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:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. 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.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

- v. 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.
 - i. 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).
 - ii. 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.)
 - iii. 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 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 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - iv. 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.

- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. 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.
- viii. 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 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.

JS 1/14/2025



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Operator Certification Data Report 01/23/2025

Operator

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: MAYTE REYES Signed on: 08/21/2023

Title: Regulatory Analyst

Street Address: 925 N ELDRIDGE PARKWAY

City: HOUSTON State: TX Zip: 77252

Phone: (281)293-1000

Email address: MAYTE.X.REYES@CONOCOPHILLIPS.COM

Field

Representative Name: Gerald Herrera Street Address: 2208 West Main Street

City: Artesia State: NM Zip: 88210

Phone: (575)748-6940

Email address: gerald.a.herrera@conocophillips.com



U.S. Department of the Interior **BUREAU OF LAND MANAGEMENT**

Application Data

APD ID: 10400094054

Submission Date: 08/24/2023

Highlighted data reflects the most

Operator Name: COG OPERATING LLC

Well Number: 902H

recent changes **Show Final Text**

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

Well Name: WILD THING FEDERAL COM

APD ID: 10400094054 Tie to previous NOS? N Submission Date: 08/24/2023

BLM Office: Carlsbad

User: MAYTE REYES

Title: Regulatory Analyst

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM100555

Lease Acres:

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Operator letter of

Keep application confidential? YES

Permitting Agent? NO

APD Operator: COG OPERATING LLC

Operator Info

Operator Organization Name: COG OPERATING LLC

Operator Address: ONE CONCHO CENTER 600 W ILLINOIS AVENUE

Zip: 79701-4287

Operator PO Box:

Operator City: MIDLAND

State: TX

Operator Phone: (432)685-4342

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well Number: 902H

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well API Number:

Well Name: WILD THING FEDERAL COM

Field Name: PURPLE SAGE

Pool Name: WOLFCAMP GAS

Page 1 of 3

Field/Pool or Exploratory? Field and Pool

Well Name: WILD THING FEDERAL COM Well Number: 902H

Is the proposed well in an area containing other mineral resources? USEABLE WATER

Is the proposed well in a Helium production area? N Use Existing Well Pad? N New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: WILD Number: 501H, 502H, 701H -

THING FEDERAL COM 705H and 901H - 905H

Well Class: HORIZONTAL Number of Legs: 1

Veil Class: HORIZONTAL Number of Legs: 1

Well Work Type: Drill Well Type: OIL WELL Describe Well Type:

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to town: 12 Miles Distance to nearest well: 30 FT Distance to lease line: 360 FT

Reservoir well spacing assigned acres Measurement: 1601.05 Acres

Well plat: COG_Wild_Thing_Fed_Com_902H_New_C102_20241202214554.pdf

Well work start Date: 11/01/2024 Duration: 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 Vertical Datum: NAVD88

Survey number: Reference Datum: GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL	856	FSL	140	FEL	25S	29E	31	Aliquot	32.08129	-	EDD	NEW	NEW	F	NMNM	294	0	0	Υ
Leg			9					SWSE	6	104.0195	Υ	MEXI	MEXI		100555	9			
#1										75		СО	СО						
KOP	856	FSL	140	FEL	25S	29E	31	Aliquot	32.08129	-	EDD	NEW	NEW	F	NMNM	294	0	0	Υ
Leg			9					SWSE	6	104.0195	Υ	MEXI	MEXI		100555	9			
#1										75		СО	СО						
PPP	330	FSL	870	FEL	25S	29E	31	Aliquot	32.07985		EDD		NEW	F	NMNM	-	107	106	Υ
Leg								SESE	2	104.0178	Υ	MEXI	MEXI		100555	767	98	19	
#1-1										44		СО	СО			0			

Well Name: WILD THING FEDERAL COM Well Number: 902H

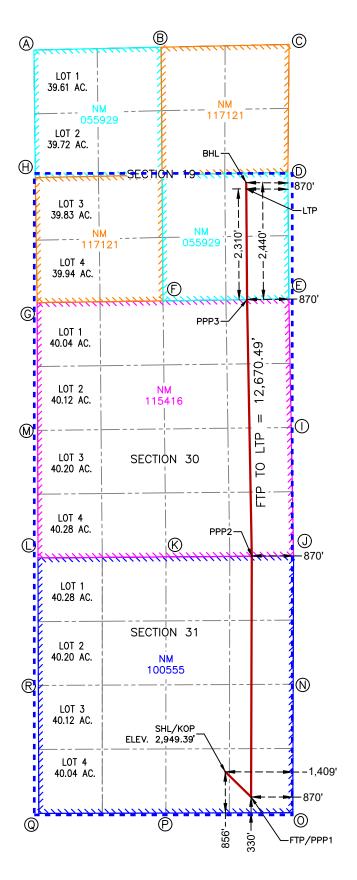
Φ	±	Indicator	ot	icator				Aliquot/Lot/Tract		ge			U	ec.	Number	uc			Will this well produce from this
Wellbore	NS-Foot	NS Indi	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot	Latitude	Longitude	County	State	Meridian	Lease Type	Lease I	Elevation	MD	TVD	Will this from th
PPP	1	FSL	870	FEL	25S	29E	30	Aliquot	32.09363		EDD		NEW	F	NMNM	-	162	107	Υ
Leg								SESE	9	104.0177	Υ	1	1		115416	775	34	00	
#1-2										5		СО	СО						
EXIT	231	FSL	870	FEL	25S	29E	19	Aliquot	32.11468		EDD		NEW	F	NMNM	-	234	107	Υ
Leg	0							NENE		104.0180	Υ	MEXI			55929	775	29	00	
#1										5		СО	СО			1			
BHL	244	FSL	870	FEL	25S	29E	19	Aliquot	32.11503	-	EDD	NEW	NEW	F	NMNM	-	235	107	Υ
Leg	0							NENE	7	104.0180	Υ		MEXI		55929	775	59	00	
#1										51		co	СО			1			

C-10	<u>)2</u> Electronically	v	Er		nerals & Nat	lew Mexico cural Resources Dep ATION DIVISION	partment			Revised July 9, 202	
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								Type:	^¹ □ Amende	ed Report	
									☐ As Drille	ed	
			1		WELL LOCA	TION INFORMATION					
API Nu	ımber 30-015-		Pool Code	98220)	Pool Name Purple S	Sage; Wol	fcamp. (Gas		
Proper	ty Code		Property I			·	<u> </u>		Well Numb		
00015			Operator	Nama	WILD TH	NG FEDERAL COM			Craundla	902H vel Elevation	
OGRID) No. 22913	7	Operator	Name	COG	PERATING LLC			-	,949.39'	
	Surface O	wner: Stat	te 🗆 Fee 🛭	☐ Tribal ☑	Federal	Mineral Ow	vner: Stat	e 🗆 Fee	☐ Tribal ☑ Fe	ederal	
					0 /						
UL	Section	Township	Range	Lot	Ft. from N/S	ace Location Ft. from E/W	Latitude	T i	ongitude	County	
0	31	25S	29E	Lot	856' FSL		32.081		104.019575	EDDY	
	31	233	29L			,	32.001	290 -	104.019373	LDD1	
UL	Section	Township	Range	Lot	Ft. from N/S	m Hole Location Ft. from E/W	Latitude	11	ongitude	County	
UL I	19	25S	29E	101	2,440' FSI	· ·	32.115		104.018051	EDDY	
		233	232			- 070122	52.115	-	137.010001	LDD1	
Dedica	ted Acres	Infill or Defir	ning Well	Defining	Well API	Overlapping Spacin	a Unit (Y/N)	Consolida	ation Code		
	1.05	Infill	mig vvon	Pendi		Y	.g Gille (1714)	Oorisolide	COM		
	Numbers.			T Ona		-	under Comm	on Owners	hip: XYes □I	No	
						Well setbacks are under Common Ownership: ☑Yes ☐No					
		T	1-	1	1	Off Point (KOP)	1	.			
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		ongitude	County	
0	31	25S	29E		856' FSL	· ·	296 -	104.019575	EDDY		
	10 "	T	D	1	\	Take Point (FTP)	1	+,		Carrati	
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		ongitude	County	
Р	31	25S	29E		330' FSL		32.079	852 -	104.017844	EDDY	
UL	Section	Township	Range	Lot	Ft. from N/S	Γake Point (LTP)	1	<u> </u>	angituda.		
ı	Section		i tunge	Lot		I Lt trom L////	I I atituda			County	
		'	20E			Ft. from E/W	Latitude		ongitude	County	
<u> </u>	19	25S	29E		2,310' FS		32.114		104.018050	EDDY	
Unitize	19	25S rea of Uniform		Spacing	2,310' FS		32.114		104.018050	•	
	d Area or A	25S rea of Uniform	n Interest	Spacing	2,310' FS	L 870' FEL	32.114 Grou	-680	104.018050	EDDY	
OPERA I hereby best of r that this in the la well at the unlease pooling If this we the consimineral the well'	d Area or A CON ATOR CER' recrtify that the my knowledge organization and including this location p defined in the control of the control o	rea of Uniform ITFICATIONS TIFICATIONS The information of the end belief, and either owns a with the proposed boursuant to a concerest, or to a voore entered by the end on the end of t	ontained here d, if the well is working interecentract with an eluntary poolin the division. er certify that to owner of a we arget pool or	in is true and a vertical of st or unlease attion or has owner of a vg agreemen this organiza orking intereformation) in	d complete to the r directional well, ed mineral interest a right to drill this working interest or t or a compulsory tion has received st or unleased which any part of	SURVEYOR CERTIF I hereby certify that the vactual surveys made by correct to the best of my	Ground Gr	nd Floor El	evation: 294 plat was plotted n, and that the s	EDDY	
OPERA I hereby best of r that this in the la well at ti unlease pooling If this we the cons mineral the well' order fro	d Area or A CON ATOR CER' recrtify that the my knowledge organization and including this location p defined mineral interest of at least interest in earl's completed on the division.	rea of Uniform ITFICATIONS TIFICATIONS The information of the end belief, and either owns a with the proposed boursuant to a concerest, or to a voore entered by the end on the end of t	ontained hered, if the well is working interection hole loc intract with an illuntary poolin the division.	in is true and a vertical of st or unlease a vertical of st or unlease a vertical of a vertical of a vertical of a vertical of the vertical of	d complete to the r directional well, ed mineral interest a right to drill this working interest or t or a compulsory tion has received st or unleased which any part of	SURVEYOR CERTIF I hereby certify that the vactual surveys made by correct to the best of my	Ground Gr	nd Floor Electric power on this by superMision (12177)	evation: 294 plat was plotted n, and that the s	EDDY 19.39 from field notes of ame is true and	
OPERA I hereby best of r that this in the la well at the unlease pooling If this we the consimineral the well'	d Area or A CON ATOR CER' r certify that the my knowledge organization and including this location p definition order heretofell is a horizon sent of at least interest in ears's completed on the division re	rea of Uniform ITFICATIONS TIFICATIONS The information of the end belief, and either owns a with the proposed boursuant to a concerest, or to a voore entered by the end on the end of t	ontained here d, if the well is working intere ottom hole loc intract with an iluntary poolin the division. er certify that to owner of a we arget pool or ocated or obta	in is true and a vertical of a	d complete to the r directional well, ed mineral interest a right to drill this working interest or t or a compulsory tion has received st or unleased which any part of	SURVEYOR CERTIF I hereby certify that the vactual surveys made by correct to the best of my	Ground Gr	nd Floor Electric power on this by superMision (12177) MEXICAL PROFESSION (1200)	evation: 294	EDDY 19.39 from field notes of ame is true and	
OPERA I hereby best of r that this in the la well at the unlease pooling If this we the cons mineral the well' order from	d Area or A CON ATOR CER' or certify that the my knowledge organization and including this location p domineral intorder heretofull is a horizon sent of at leas interest in earl's completed om the division re May	rea of Uniform TIFICATIONS The information of the end belief, and either owns a with the proposed boursuant to a concerest, or to a voore entered by the stone lessee or charact (in the tinterval will be lend.	ontained here d, if the well is working interest other hole loc ontract with an eluntary poolin the division. For certify that the owner of a wearget pool or so ocated or obtain	in is true and a vertical of a	d complete to the r directional well, ed mineral interest a right to drill this working interest or t or a compulsory tion has received st or unleased which any part of oulsory pooling	SURVEYOR CERTIF I hereby certify that the vactual surveys made by correct to the best of my	Ground Gr	nd Floor El	evation: 294	EDDY 19.39 from field notes of ame is true and	

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



SURFACE HOLE LOCATION & KICK-OFF POINT 856' FSL & 1,409' FEL ELEV. = 2,949.39'

NAD 83 X = 638,513.22' NAD 83 Y = 393,454.04' NAD 83 LAT = 32.081296° NAD 83 LONG = -104.019575°

FIRST TAKE POINT & PENETRATION POINT 1 330' FSL & 870' FEL

NAD 83 X = 639,050.76' NAD 83 Y = 392,930.05' NAD 83 LAT = 32.079852° NAD 83 LONG = -104.017844'

PENETRATION POINT 2 0' FSL & 870' FEL

NAD 83 X = 639,065.39' NAD 83 Y = 397,945.50' NAD 83 LAT = 32.093639° NAD 83 LONG = -104.017750°

PENETRATION POINT 3 0' FSL & 870' FEL

NAD 83 X = 638,967.40' NAD 83 Y = 403,289.57' NAD 83 LAT = 32.108330° NAD 83 LONG = -104.018015°

> LAST TAKE POINT 2.310' FSL & 870' FEL

NAD 83 X = 638,950.07' NAD 83 Y = 405,599.56' NAD 83 LAT = 32.114680° NAD 83 LONG = -104.018050°

BOTTOM HOLE LOCATION 2,440' FSL & 870' FEL

NAD 83 X = 638,949.10' NAD 83 Y = 405,729.55' NAD 83 LAT = 32.115037° NAD 83 LONG = -104.018051°

CO	ORNER COORDINATES
NEV	MEXICO EAST - NAD 83
Α	IRON PIPE W/ BRASS CAP
A	N:408,491.76' E:634,527.03'
В	IRON PIPE W/ BRASS CAP
Ь	N:408,550.32' E:637,176.91'
С	IRON PIPE W/ BRASS CAP
	N:408,608.72' E:639,842.20'
D	IRON PIPE W/ BRASS CAP
	N:405,945.03' E:639,817.52'
E	IRON PIPE W/ BRASS CAP
	N:403,301.58' E:639,837.28'
F	IRON PIPE W/ BRASS CAP
	N:403,265.40' E:637,216.41'
G	IRON PIPE W/ BRASS CAP
	N:403,228.52' E:634,593.72'
н	IRON PIPE W/ BRASS CAP
	N:405,833.10' E:634,556.38'
l ı	IRON PIPE W/ BRASS CAP
	N:400,627.62' E:639,886.49'
J	IRON PIPE W/ BRASS CAP
<u> </u>	N:397,952.39' E:639,935.36'
к	IRON PIPE W/ BRASS CAP
	N:397,931.36' E:637,278.26'
L	IRON PIPE W/ BRASS CAP
	N:397,909.72' E:634,611.48'
М	IRON PIPE W/ BRASS CAP
	N:400,566.94' E:634,605.07'
N	IRON PIPE W/ BRASS CAP N:395,278,43' E:639,928,06'
	IRON PIPE W/ BRASS CAP
0	N:392.602.51' E:639.919.75'
	IRON PIPE W/ BRASS CAP
Р	N:392.595.01' E:637.274.88'
⊢—	IRON PIPE W/ BRASS CAP
Q	N:392,587.40' E:634,628.88'
	IRON PIPE W/ BRASS CAP
R	N:395,253.80' E:634,619.28'
	N.393,233.00 E:034,619.28

Well Name: WILD THING FEDERAL COM



U.S. Department of the Interior **BUREAU OF LAND MANAGEMENT**

Drilling Plan Data Report

01/23/2025

APD ID: 10400094054

Submission Date: 08/24/2023

Highlighted data reflects the most

Operator Name: COG OPERATING LLC

Well Number: 902H

recent changes

Well Type: OIL WELL

Well Work Type: Drill

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14860357	QUATERNARY	2949	0	0	ALLUVIUM	NONE	N
14860352	RUSTLER	2829	120	120	ANHYDRITE	USEABLE WATER	N
14860353	TOP SALT	2556	393	393	SALT	NONE	N
14860362	BASE OF SALT	354	2595	2595	SALT	NONE	N
14860355	LAMAR	164	2785	2785	LIMESTONE	NONE	N
14860356	BELL CANYON	126	2823	2823	SANDSTONE	NONE	N
14860363	CHERRY CANYON	-723	3672	3672	SANDSTONE	NATURAL GAS, OIL	N
14860364	BRUSHY CANYON	-2024	4973	4973	SANDSTONE	NATURAL GAS, OIL	N
14860366	BONE SPRING 1ST	-4547	7496	7496	SANDSTONE	NATURAL GAS, OIL	N
14860367	BONE SPRING 2ND	-5164	8113	8113	SANDSTONE	NATURAL GAS, OIL	N
14860359	BONE SPRING 3RD	-6390	9339	9339	SANDSTONE	NATURAL GAS, OIL	N
14860354	WOLFCAMP	-6741	9690	9690	SHALE	NATURAL GAS, OIL	Y
14860374	WOLFCAMP	-6878	9827	9827	SHALE	NATURAL GAS, OIL	N
14860375	WOLFCAMP	-7204	10153	10153	SHALE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention

Well Name: WILD THING FEDERAL COM Well Number: 902H

Pressure Rating (PSI): 10M Rating Depth: 10050

Equipment: Annular, Blind Ram, Pipe Ram, Double Ram. The BOP equipment will include a Kelly cock and floor safety

valve (inside BOP) and choke lines and choke manifold.

Requesting Variance? YES

Variance request: 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. A variance is requested for use of a multi-bowl wellhead. A variance is requested to allow for break testing during batch drilling.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3170 Subpart 3172 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.

Choke Diagram Attachment:

COG_Wild_Thing_10M_Choke_20241202220350.pdf

BOP Diagram Attachment:

COG Wild Thing 10M BOP 20241202220432.pdf

COG_Wild_Thing_Flex_Hose_Variance_20241202220435.pdf

Pressure Rating (PSI): 5M Rating Depth: 10050

Equipment: Annular, Blind Ram, Pipe Ram, Double Ram. The BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

Requesting Variance? YES

Variance request: 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. 5M Variance is requested. A variance is requested to use a multibowl wellhead.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3170 Subpart 3172 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.

Choke Diagram Attachment:

COG_Wild_Thing_5M_Choke_20241202220058.pdf

BOP Diagram Attachment:

COG_Wild_Thing_5M_BOP_20241202220133.pdf

COG_Wild_Thing_Flex_Hose_Variance_20241202220200.pdf

Well Name: WILD THING FEDERAL COM Well Number: 902H

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	10.75	NEW	API	N	0	350	0	350	2949	2599	350	J-55		DTO	13.0 5	1.14	DRY	49.9 8	DRY	44.9
2	INTERMED IATE	8.75	7.625	NEW	API	Υ	0	10050	0	10050	3585	-7101		OTH ER		OTHER - W513	1.41	1.72	DRY	2.15	DRY	3.58
3	PRODUCTI ON	6.75	5.5	NEW	API	Υ	0	23559	0	10700	3585	-7751	23559	OTH ER		OTHER - W441	1.94	2.26	DRY	2.69	DRY	2.96

Casing Attachments

Casing ID: 1 String SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

COG_Wild_Thing_902H_Casing_Program_20241202221619.pdf

Well Name: WILD THING FEDERAL COM Well Number: 902H

Casing Attachments

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

COG_Wild_Thing_902H_Casing_Program_20241202221740.pdf

Casing Design Assumptions and Worksheet(s):

 $COG_Wild_Thing_902H_Casing_Program_20241202221816.pdf$

Casing ID: 3

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

COG_Wild_Thing_902H_Casing_Program_20241202221033.pdf

Casing Design Assumptions and Worksheet(s):

COG_Wild_Thing_902H_Casing_Program_20241202221200.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	350	210	1.75	12.8	367	50	Class C + 4% Gel	1% CaCl2
SURFACE	Tail		350	350	250	1.34	14.8	335	50	Class C + 2% CaCl2	As needed
INTERMEDIATE	Lead		1005 0	1005 0	740	3.3	10.3	2442	50	Halliburton tuned light	As needed
INTERMEDIATE	Tail		1005 0	1005 0	250	1.35	14.8	337	50	Class H	As needed
PRODUCTION	Lead		1070 0	2355 9	620	1.48	12.5	917	20	Lead: 10:50:10 H Blend	As needed

Well Name: WILD THING FEDERAL COM Well Number: 902H

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		1070 0	2355 9	1030	1.34	13.2	1380	20	Tail: 50:50:2 Class H Blend	As needed

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
350	1005 0	OTHER : Diesel Brine Emulsion	8.4	10							Diesel Brine Emulsion
1005 0	2355 9	OIL-BASED MUD	9.6	13.5							ОВМ
0	350	OTHER : Fresh water gel	8.6	8.8							Fresh water gel

Well Name: WILD THING FEDERAL COM Well Number: 902H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

None planned

List of open and cased hole logs run in the well:

CEMENT BOND LOG, COMPENSATED NEUTRON LOG, GAMMA RAY LOG,

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7515 Anticipated Surface Pressure: 5160

Anticipated Bottom Hole Temperature(F): 165

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

COG_Wild_Thing_H2S_Schem_20241202222727.pdf COG_Wild_Thing_H2S_SUP_20241202222728.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

COG_Wild_Thing_902H_AC_Report_20241202222824.pdf COG_Wild_Thing_902H_Directional_Plan_20241202222824.pdf

Other proposed operations facets description:

Drilling Plan attached. GCP attached. Cement Plan attached.

Other proposed operations facets attachment:

API_BTC_7.625_0.375_L80_ICY_04112022_20241202222926.pdf
COG_Wild_Thing_902H_Drilling_Program_20241202222926.pdf
API_STC_13.375_0.380_J55_Casing_01172023_20241202222931.pdf
API_BTC_9.625_0.395_L80_Type_1_01172023_20241202222931.pdf
COG_Wild_Thing_902H_Casing_Program_20241202222931.pdf
COG_Wild_Thing_902H_Cement_Program_20241202222931.pdf
TXP_BTC_5.500_0.415_P110_CY_09212021_20241202222931.pdf
COG_Wild_Thing_902H_GCP_20241202222932.pdf

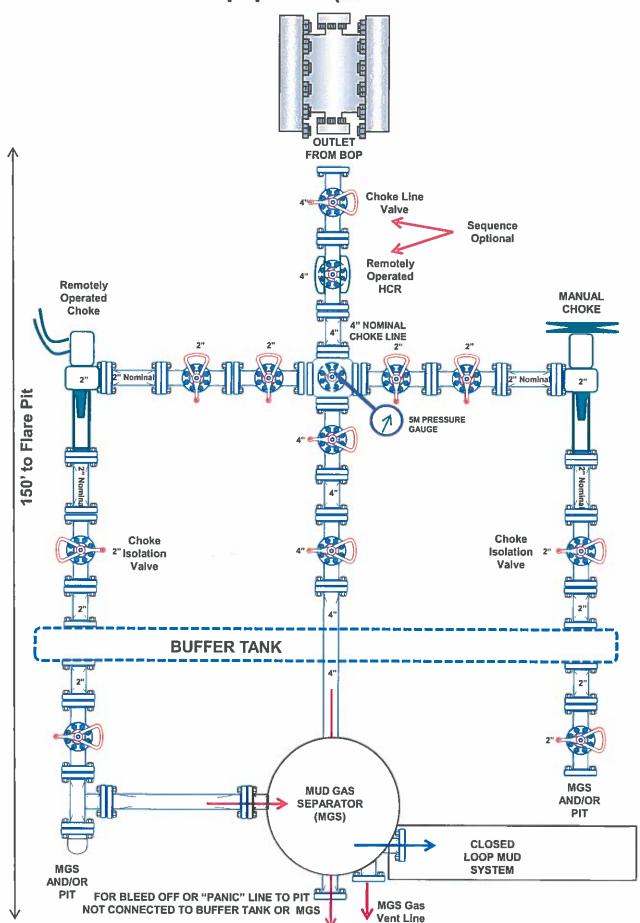
Well Name: WILD THING FEDERAL COM Well Number: 902H

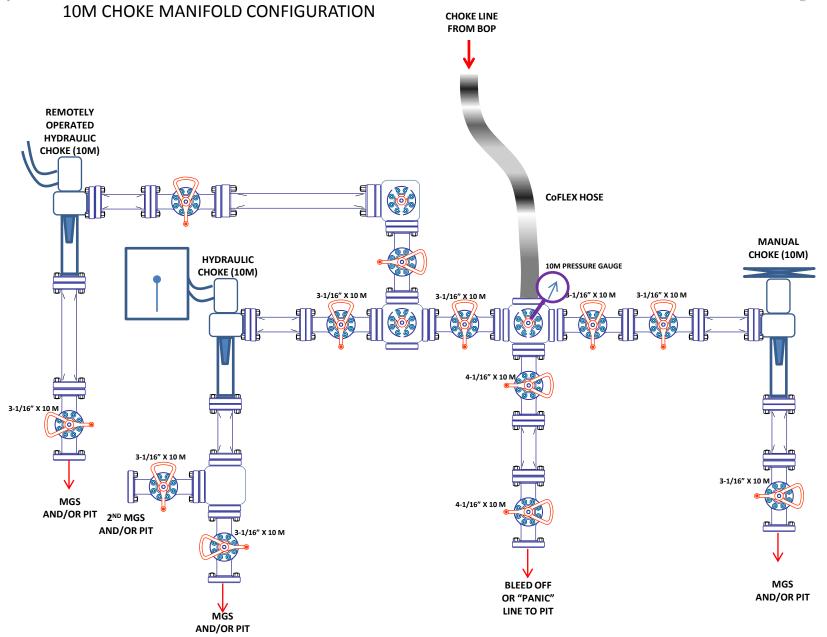
Wedge_441_5.500_0.415_P110_CY_09212021_20241202222933.pdf Wedge_513_7.625_0.375_P110_ICY_04112022_20241202222933.pdf

Other Variance attachment:

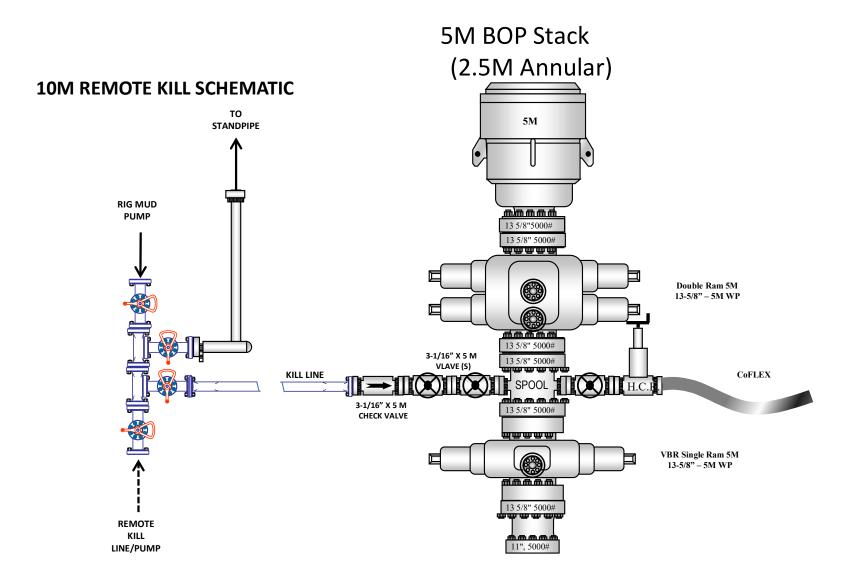
COG_6.75_5M_Variance_WCP_20230621084732.pdf

5M Choke Manifold Equipment (WITH MGS + CLOSED LOOP)





5M BOP Stack





H3-19136

9/5/2024 11:34:00 AM

TEST REPORT

CUSTOMER

Sales order #:

Company:

Production description:

Ensign drilling

TEST OBJECT

Serial number: Lot number:

H3-090524-3 148366-01/24

Description:

Hose ID:

Part number:

Fitting 1:

3" 16C 10K CK

TEST INFORMATION

Customer reference:

Test procedure: Test pressure:

Work pressure:

GTS-04-053 15000.00 3600.00

530637

FG2282

psi sec 10000.00 psi

sec

Part number: Description:

3.0 x 4-1/16 10K

Work pressure hold: Length difference: Length difference:

Test pressure hold:

900.00 0.00 0.00

% inch Fitting 2: Part number: Description:

3.0 x 4-1/16 10K

Visual check:

Pressure test result: Length measurement result: PASS

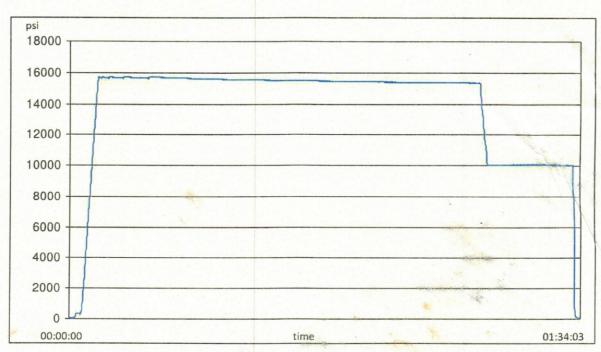
Length:

45

feet

Test operator:

Martin



Filename: D:\Certificates\Report_02012 Htt 090524-3.pdf

Page 1/2



GATES ENGINEERING & SERVICES NORTH AMERICA 7603 Prairie Oak Dr. Suite 190 Houston, TX. 77086 PHONE: +1 (281) 602-4100 FAX: +1 (281) 602-4147 EMAIL: gesna.quality@gates.com WEB: gates.com/ollandgas

CERTIFICATE OF CONFORMANCE

This is to verify that all Parts and/or Materials included in this shipment have been manufactured and/or processed in Conformance with applicable drawings and specifications, and that Records of Required Tests are on file and subject to examination. The following items were assembled at **Gates Engineering & Services North America** facilities in Houston, TX, USA. This hose assembly was designed and manufactured to meet requirements of API Spec 16C, 3rd Edition.

CUSTOMER:

ENSIGN US SOUTHERN DRILLING LLC

CUSTOMER P.O.#:

UST011212-2 (TAG PO# UST011212-2 & RIG 777)

CUSTOMER P/N:

16C10K3.045.0CK411610KFIXXFLTFLG SSA LSC

3" X 45 FT GATES BLACK GOLD FSL 3 API 16C MONOGRAMMED CHOKE & KILL

PART DESCRIPTION:

ASSEMBLY C/W 4 1/16" 10K H2S SUITED FIXED X FLOAT FLANGES SUPPLIED SS

ARMOR/SAFETY/LIFTING CLAMPS & SLINGS ATTACHED

SALES ORDER #:

530637

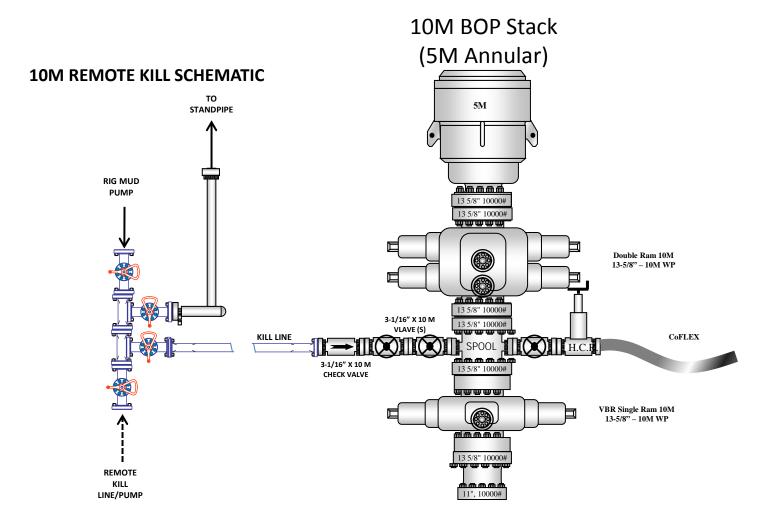
QUANTITY:

1

SERIAL #:

H3-090524-3

SIGNATURE:	F. CUSINEG	
TITLE:	QUALITY ASSURANCE	
DATE:	9.6.24	





H3-19136

9/5/2024 11:34:00 AM

H3-090524-3

TEST REPORT

CUSTOMER Company: Ensign drilling Production description: Sales order #:

Lot number: 148366-01/24 Description:

TEST OBJECT

Serial number:

530637 FG2282

Customer reference: Hose ID: 3" 16C 10K CK Part number:

TEST INFORMATION Test procedure: GTS-04-053 Fitting 1: 3.0 x 4-1/16 10K Test pressure: 15000.00 psi Part number: Test pressure hold: 3600.00 sec Description: Work pressure: 10000.00 psi Work pressure hold: 900.00 Fitting 2: sec 3.0 x 4-1/16 10K Length difference: 0.00 % Part number: Length difference: 0.00 inch Description:

Visual check: Length: 45 feet

Pressure test result: PASS Length measurement result:

Test operator: Martin psi 18000 16000 14000 12000 10000 8000 6000 4000 2000 0 00:00:00 time 01:34:03

Filename: D:\Certificates\Report_02012 Htt 090524-3.pdf Page 1/2



GATES ENGINEERING & SERVICES NORTH AMERICA 7603 Prairie Oak Dr. Suite 190 Houston, TX. 77086 PHONE: +1 (281) 602-4100 FAX: +1 (281) 602-4147 EMAIL: gesna.quality@gates.com WEB: gates.com/ollandgas

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ENSIGN US SOUTHERN DRILLING LLC

CUSTOMER P.O.#:

UST011212-2 (TAG PO# UST011212-2 & RIG 777)

CUSTOMER P/N:

16C10K3.045.0CK411610KFIXXFLTFLG SSA LSC

3" X 45 FT GATES BLACK GOLD FSL 3 API 16C MONOGRAMMED CHOKE & KILL

PART DESCRIPTION:

ASSEMBLY C/W 4 1/16" 10K H2S SUITED FIXED X FLOAT FLANGES SUPPLIED SS

ARMOR/SAFETY/LIFTING CLAMPS & SLINGS ATTACHED

SALES ORDER #:

530637

QUANTITY:

1

SERIAL #:

H3-090524-3

SIGNATURE:	F. CUSINEG	
TITLE:	QUALITY ASSURANCE	
DATE:	9.6.24	

2. Casing Program

Hole Size	Casing	Interval	Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF	SF
Tiole Size	From	То	Osy. Size	(lbs)	Grade	Colli.	Collapse	or burst	Body	Joint
17.50"	0	350	13.375"	45.5	J55	BTC	13.05	1.14	44.90	49.98
9.875"	0	7500	7.625"	29.7	L80-ICY	BTC	1.51	1.14	3.26	3.29
8.750"	7500	10050	7.625"	29.7	P110-ICY	W513	1.41	1.72	3.58	2.15
6.75"	0	9850	5.5"	23	P110-CY	BTC	2.10	2.45	3.22	3.22
6.75"	9850	23,559	5.5"	23	P110-CY	W441	1.94	2.26	2.96	2.69
				BLM	1 Minimum Sa	fety Factor	1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

2b. Contingtency Casing Program

Hole Size	Casing	Interval	Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF	SF
Hole Size	From	То	Csg. Size	(lbs)	Graue	Colli.	Collapse	or burst	Body	Joint
17.50"	0	350	13.375"	54.5	J55	BTC	7.06	2.42	44.72	47.65
12.25"	0	2690	9.625"	40	L80-IC	BTC	2.77	1.46	8.51	8.80
8.75"	2490	10050	7.625"	29.7	P110- ICY	W513	1.41	1.72	3.58	2.15
6.75"	0	9850	5.5"	23	P110-CY	втс	2.10	2.45	3.22	3.22
6.75"	9850	23,559	5.5"	23	P110-CY	W441	1.94	2.26	2.96	2.69
				BLM M	inimum Sa	fety Factor	1.125	1	1.6 Dry	1.6 Dry
						•			1.8 Wet	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 43 CFR Part 3170 Subpart 3172

Contingency program will be run if large water flows are encountered.

2. Casing Program

Hole Size	Casing	g Interval	Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF	SF
Tiole Size	From	То	OSg. OIZE	(lbs)	Grade	COIIII.	Collapse	or Burst	Body	Joint
17.50"	0	350	13.375"	45.5	J55	BTC	13.05	1.14	44.90	49.98
9.875"	0	7500	7.625"	29.7	L80-ICY	BTC	1.51	1.14	3.26	3.29
8.750"	7500	10050	7.625"	29.7	P110-ICY	W513	1.41	1.72	3.58	2.15
6.75"	0	9850	5.5"	23	P110-CY	BTC	2.10	2.45	3.22	3.22
6.75"	9850	23,559	5.5"	23	P110-CY	W441	1.94	2.26	2.96	2.69
				BLM	1 Minimum Sa	fety Factor	1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

2b. Contingtency Casing Program

Hole Size	Casing	Interval	Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF	SF
Hole Size	From	То	Csy. Size	(lbs)	Graue	Collii.	Collapse	or burst	Body	Joint
17.50"	0	350	13.375"	54.5	J55	BTC	7.06	2.42	44.72	47.65
12.25"	0	2690	9.625"	40	L80-IC	BTC	2.77	1.46	8.51	8.80
8.75"	2490	10050	7.625"	29.7	P110- ICY	W513	1.41	1.72	3.58	2.15
6.75"	0	9850	5.5"	23	P110-CY	втс	2.10	2.45	3.22	3.22
6.75"	9850	23,559	5.5"	23	P110-CY	W441	1.94	2.26	2.96	2.69
				BLM Mi	inimum Sa	fety Factor	1.125	1	1.6 Dry	1.6 Dry
						_			1.8 Wet	1.8 Wet

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2. Casing Program

Hole Size	Casing	g Interval	Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF	SF
Tiole Size	From	То	Csg. Size	(lbs)	Grade	Colli.	Collapse	or burst	Body	Joint
17.50"	0	350	13.375"	45.5	J55	BTC	13.05	1.14	44.90	49.98
9.875"	0	7500	7.625"	29.7	L80-ICY	BTC	1.51	1.14	3.26	3.29
8.750"	7500	10050	7.625"	29.7	P110-ICY	W513	1.41	1.72	3.58	2.15
6.75"	0	9850	5.5"	23	P110-CY	BTC	2.10	2.45	3.22	3.22
6.75"	9850	23,559	5.5"	23	P110-CY	W441	1.94	2.26	2.96	2.69
				BLM	1 Minimum Sa	fety Factor	1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

2b. Contingtency Casing Program

Hole Size	Casing	Interval	Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF	SF
Hole Size	From	То	Csg. Size	(lbs)	Graue	Colli.	Collapse	or burst	Body	Joint
17.50"	0	350	13.375"	54.5	J55	BTC	7.06	2.42	44.72	47.65
12.25"	0	2690	9.625"	40	L80-IC	BTC	2.77	1.46	8.51	8.80
8.75"	2490	10050	7.625"	29.7	P110- ICY	W513	1.41	1.72	3.58	2.15
6.75"	0	9850	5.5"	23	P110-CY	втс	2.10	2.45	3.22	3.22
6.75"	9850	23,559	5.5"	23	P110-CY	W441	1.94	2.26	2.96	2.69
				BLM M	inimum Sa	fety Factor	1.125	1	1.6 Dry	1.6 Dry
						•			1.8 Wet	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 43 CFR Part 3170 Subpart 3172

Contingency program will be run if large water flows are encountered.

2. Casing Program

Hole Size	Casing	g Interval	Csq. Size	Weight	Grade	Conn.	SF	SF Burst	SF	SF
Tiole Size	From	То	03g. 312e	(lbs)	Grade	Colli.	Collapse	or burst	Body	Joint
17.50"	0	350	13.375"	45.5	J55	BTC	13.05	1.14	44.90	49.98
9.875"	0	7500	7.625"	29.7	L80-ICY	BTC	1.51	1.14	3.26	3.29
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6.75"	0	9850	5.5"	23	P110-CY	BTC	2.10	2.45	3.22	3.22
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				BLM	1 Minimum Sa	fety Factor	1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

2b. Contingtency Casing Program

Hole Size	Casing	Interval	Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF	SF
Hole Size	From	То	Csy. Size	(lbs)	Graue	Colli.	Collapse	or burst	Body	Joint
17.50"	0	350	13.375"	54.5	J55	BTC	7.06	2.42	44.72	47.65
12.25"	0	2690	9.625"	40	L80-IC	BTC	2.77	1.46	8.51	8.80
8.75"	2490	10050	7.625"	29.7	P110- ICY	W513	1.41	1.72	3.58	2.15
6.75"	0	9850	5.5"	23	P110-CY	втс	2.10	2.45	3.22	3.22
6.75"	9850	23,559	5.5"	23	P110-CY	W441	1.94	2.26	2.96	2.69
				BLM Mi	inimum Sa	fety Factor	1.125	1	1.6 Dry	1.6 Dry
						·			1.8 Wet	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 43 CFR Part 3170 Subpart 3172

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Hole Size	Casing	Interval	Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF	SF
Tible Size	From	То	Osg. Size	(lbs)	Grade	Colli.	Collapse	or burst	Body	Joint
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9.875"	0	7500	7.625"	29.7	L80-ICY	BTC	1.51	1.14	3.26	3.29
8.750"	7500	10050	7.625"	29.7	P110-ICY	W513	1.41	1.72	3.58	2.15
6.75"	0	9850	5.5"	23	P110-CY	BTC	2.10	2.45	3.22	3.22
6.75"	9850	23,559	5.5"	23	P110-CY	W441	1.94	2.26	2.96	2.69
				BLM	1 Minimum Sa	fety Factor	1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

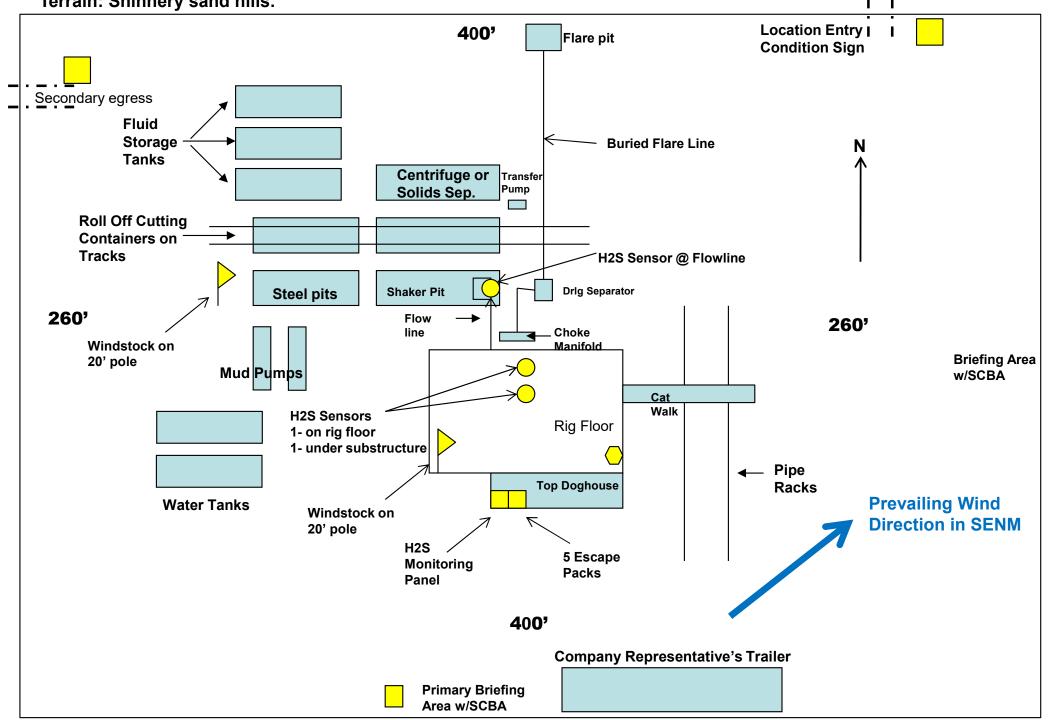
2b. Contingtency Casing Program

Hole Size	Casing	Interval	Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF	SF
Hole Size	From	То	Csy. Size	(lbs)	Graue	Collii.	Collapse	or burst	Body	Joint
17.50"	0	350	13.375"	54.5	J55	BTC	7.06	2.42	44.72	47.65
12.25"	0	2690	9.625"	40	L80-IC	BTC	2.77	1.46	8.51	8.80
8.75"	2490	10050	7.625"	29.7	P110- ICY	W513	1.41	1.72	3.58	2.15
6.75"	0	9850	5.5"	23	P110-CY	втс	2.10	2.45	3.22	3.22
6.75"	9850	23,559	5.5"	23	P110-CY	W441	1.94	2.26	2.96	2.69
				BLM Mi	inimum Sa	fety Factor	1.125	1	1.6 Dry	1.6 Dry
						_			1.8 Wet	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 43 CFR Part 3170 Subpart 3172

Contingency program will be run if large water flows are encountered.

Well pad will be 800' x 520' with cellar in center of pad



COG OPERATING LLC HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

- a. The hazards and characteristics of hydrogen sulfide (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.

WARNING

YOU ARE ENTERING AN H₂S AREA AUTHORIZED PERSONNEL ONLY

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

OFFICE

COG OPERATING LLC OFFICE 575-748-6940

CHAD GREGORY 432-894-5590

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

DELAWARE BASIN WEST

ATLAS PROSPECT (DBW)
WILD THING PROJECT
_WILD THING FED COM 902H

OWB PWP0

Anticollision Report

09 October, 2024

ConocoPhillips

Anticollision Report

Company: **DELAWARE BASIN WEST** Local Co-ordinate Reference: Well _WILD THING FED COM 902H - Slot

902H

Project: ATLAS PROSPECT (DBW) Reference Site: WILD THING PROJECT

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

Site Error: 0.0 usft North Reference: Grid

_WILD THING FED COM 902H Reference Well:

Minimum Curvature **Survey Calculation Method:**

3.0 usft Well Error: **OWB**

2.00 sigma

Reference Wellbore PWP0 Reference Design:

Output errors are at

Database: Offset TVD Reference: EDT 17 Permian Prod Reference Datum

PWP0 Reference

NO GLOBAL FILTER: Using user defined selection & filtering criteria Filter type:

ISCWSA Interpolation Method: MD + Stations Interval 100.0usft Error Model:

Unlimited Closest Approach 3D Depth Range: Scan Method: Max. Cent. Dist. of 1,000.0usft or Max. Ell. Sep. of 500.0usft Error Surface: Combined Pedal Curve Results Limited by: Warning Levels Evaluated at: 2.79 Sigma Casing Method: Added to Error Values

10/9/2024 **Survey Tool Program** Date From То (usft) (usft) Survey (Wellbore) **Tool Name** Description 0.0 23,559.2 PWP0 (OWB) r.5 MWD+IFR1+MS OWSG MWD + IFR1 + Multi-Station Correc

Summary						
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
HAMBONE FEDERAL PROJECT						
HAMBONE FEDERAL COM #706H - OWB - AWP					Out	of range
PUDGE FED COM PROJECT						
PUDGE FEDERAL COM 500H - OWB - PWP0 PUDGE FEDERAL COM 500H - OWB - PWP0 PUDGE FEDERAL COM 701H - OWB - PWP0 PUDGE FEDERAL COM 701H - OWB - PWP0 PUDGE FEDERAL COM 701H - OWB - PWP0 PUDGE FEDERAL COM 702H - OWB - PWP0 PUDGE FEDERAL COM 703H - OWB - PWP0	7,900.0 7,967.8 6,596.7 6,600.0 6,700.0 9,410.0	8,100.0 8,162.6 6,897.2 6,900.4 6,996.3 9,530.3	437.7 437.5 114.4 114.4 118.8 558.5	389.0 388.8 66.0 65.8 66.1 508.6	2.362 Cau 2.355 Cau 2.255 Cau 11.186 CC,	ution - Monitor Closely, CC ution - Monitor Closely, ES ution - Monitor Closely, SF
PUDGE FEDERAL COM 901H - OWB - PWP0 PUDGE FEDERAL COM 901H - OWB - PWP0 PUDGE FEDERAL COM 902H - OWB - PWP0 PUDGE FEDERAL COM 902H - OWB - PWP0 PUDGE FEDERAL COM 902H - OWB - PWP0 PUDGE FEDERAL COM 903H - OWB - PWP0 PUDGE FEDERAL COM 904H - OWB - PWP0	6,200.0 6,284.8 10,400.0 10,450.0 10,456.1 10,207.0	6,515.2 6,595.4 10,618.7 10,654.4 10,658.1 10,262.9	291.7 290.7 134.2 127.7 127.6 792.7	243.4 242.8 69.0 65.8 66.4 736.3	2.063 Cau 2.084 Cau 14.060 CC,	ution - Monitor Closely, SF ution - Monitor Closely, ES ution - Monitor Closely, CC

ConocoPhillips

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

TVD Reference: GL @ 2940.0usft GL @ 2940.0usft MD Reference:

Site Error: 0.0 usft North Reference: Grid

_WILD THING FED COM 902H Reference Well: 3.0 usft Well Error:

Survey Calculation Method: Output errors are at

Minimum Curvature 2.00 sigma

Reference Wellbore OWB PWP0 Reference Design:

EDT 17 Permian Prod Database: Offset TVD Reference: Reference Datum

	Reference	Offset	Dista	nco		
Site Name	Measured Depth	Measured Depth	Between Centres	Between Ellipses	Separation Factor	Warning
Offset Well - Wellbore - Design	(usft)	(usft)	(usft)	(usft)		
WILD THING PROJECT						
WILD THING FED COM 501H - OWB - PWP0	1,000.0	1,003.0	404.6	394.4	39.555 CC, ES	3
WILD THING FED COM 501H - OWB - PWP0	8,300.0	8,264.0	596.6	556.4	14.841 SF	
WILD THING FED COM 502H - OWB - PWP0	966.0	968.0	410.2	400.1	40.543 CC	
WILD THING FED COM 502H - OWB - PWP0	1,000.0	1,002.0	410.2	400.0	40.105 ES	
WILD THING FED COM 502H - OWB - PWP0	1,500.0	1,498.2	442.6	430.8	37.224 SF	
WILD THING FED COM 701H - OWB - PWP0	1,018.2	1,024.1	202.2	191.9	19.638 CC	
WILD THING FED COM 701H - OWB - PWP0	1,100.0	1,109.3	202.4	191.8	19.099 ES	
WILD THING FED COM 701H - OWB - PWP0	2,100.0	2,133.7	241.7	227.1	16.498 SF	
WILD THING FED COM 702H - OWB - PWP0	4,300.0	4,346.7	116.5	90.4	4.460 ES	
WILD THING FED COM 702H - OWB - PWP0	4,352.8	4,399.4	116.5	90.4	4.473 CC	
WILD THING FED COM 702H - OWB - PWP0	23,559.2	22,438.2	924.0	712.1	4.360 SF	
WILD THING FED COM 703H - OWB - PWP0	1,000.0	1,004.0	202.4	192.2	19.787 CC, ES	3
WILD THING FED COM 703H - OWB - PWP0	23,559.2	22,389.2	849.2	656.8	4.413 SF	
WILD THING FED COM 704H - OWB - PWP0	1,000.0	1,000.0	208.9	198.7	20.428 CC, ES	3
WILD THING FED COM 704H - OWB - PWP0	1,400.0	1,406.5	221.9	210.4	19.247 SF	
WILD THING FED COM 705H - OWB - PWP0	1,000.0	1,000.0	219.4	209.2	21.456 CC, ES	3
WILD THING FED COM 705H - OWB - PWP0	1,200.0	1,195.3	226.1	215.2	20.816 SF	
VILD THING FED COM 706H - OWB - PWP0					Out of a	range
VILD THING FED COM 707H - OWB - PWP0					Out of	range
VILD THING FED COM 901H - OWB - PWP0	1,000.0	1,000.0	29.9	19.7		Operations, CC, ES
WILD THING FED COM 901H - OWB - PWP0	23,559.2	23,780.2	531.7	344.3		Operations, SF
WILD THING FED COM 903H - OWB - PWP0	1,113.3	1,113.3	30.0	19.4		Operations, CC
VILD THING FED COM 903H - OWB - PWP0	1,200.0	1,1199.9	30.2	19.4		Operations, ES
WILD THING FED COM 903H - OWB - PWP0	23,553.5	23,681.0	531.6	331.5		Operations, SF
WILD THING FED COM 904H - OWB - PWP0	1,000.0	1,000.0	60.0	49.8	5.868 CC, ES	
WILD THING FED COM 904H - OWB - PWP0	1,100.0	1,000.0	60.9	50.4	5.782 SF	,
WILD THING FED COM 904H - OWB - PWP0 WILD THING FED COM 905H - OWB - PWP0	1,000.0	1,000.0	90.0	79.8	8.802 CC, ES	<u>.</u>
WILD THING FED COM 905H - OWB - PWP0	1,100.0	1,000.0	91.2	80.7	8.646 SF	,
WILD THING FED COM 905H - OWB - PWP0 WILD THING FED COM 906H - OWB - PWP0	1,100.0	1,037.7	91.2	00.7	Out of	range
						· ·
WILD THING FED COM 907H - OWB - PWP0					Out of	range
OOPER 31 FEDERAL 2HP&A - OWB - AWP	4,564.4	4,523.6	514.6	487.2	18.772 CC	
OOPER 31 FEDERAL 2HP&A - OWB - AWP	7,180.5	7,193.4	524.5	476.4	10.893 ES	
OOPER 31 FEDERAL 2HP&A - OWB - AWP	7,200.0	7,200.1	524.8	476.6	10.881 SF	
UDGE FEDERAL 21H - OWB - AWP	8,249.9	8,398.6	317.8	293.3	13.002 CC, ES	3
PUDGE FEDERAL 21H - OWB - AWP	8,300.0	8,401.2	321.7	296.7	12.865 SF	
UDGE FEDERAL 21H - ST01 - ST01 AWP	8,445.1	8,545.1	334.9	310.9	13.931 CC, ES	3
UDGE FEDERAL 21H - ST01 - ST01 AWP	8,600.0	8,598.6	364.1	336.9	13.390 SF	

Offset Design: PUDGE FED COM PROJECT - PUDGE FEDERAL COM 500H - OWB - PWP0														
0001.200	g													0.0 usft
Survey Progra		0-r.5 MWD+IFR1 Offset		Semi Maior Axis			Offset Wellb	oro Contro	Rule Assigned: Distance				Offset Well Error:	0.0 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	No-Go	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Distance (usft)	Factor		
4,200.0	4,150.2	4,572.0	4,411.0	16.4	19.2	120.23	-566.9	-628.6	988.7	957.6	31.02	31.870		
4,300.0	4,248.3	4,670.5	4,504.8	16.8	19.7	120.32	-578.7	-601.1	971.4	939.6	31.79	30.554		
4,400.0	4,346.5	4,769.0	4,598.6	17.3	20.2	120.41	-590.5	-573.6	954.2	921.6	32.57	29.297		
4,500.0	4,444.7	4,867.5	4,692.5	17.7	20.7	120.50	-602.3	-546.1	937.0	903.6	33.35	28.096		
4,600.0	4,542.8	4,966.0	4,786.3	18.1	21.2	120.60	-614.1	-518.6	919.7	885.6	34.13	26.948		

ConocoPhillips

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

PWP0

_WILD THING FED COM 902H

GL @ 2940.0usft TVD Reference: GL @ 2940.0usft MD Reference:

Grid North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

EDT 17 Permian Prod Database: Reference Datum

0.0 usft Site Error:

Reference Well:

Reference Design:

Well Error: 3.0 usft **OWB** Reference Wellbore

Offset TVD Reference:

PUDGE FED COM PROJECT - PUDGE FEDERAL COM 500H - OWB - PWP0 Offset Design: 0.0 usft Offset Site Error: 0-r.5 MWD+IFR1 Survey Program: Referenc Rule Assigned: Offset Well Error: 0.0 usft Offset Wellbore Centre Distance rence Semi Major Axis ence Offset Measured Vertical Measured Vertical Reference Highside Between Between No-Go Separation Warning +N/-S +F/-W Toolface Depth Depth Depth Depth Centres Ellipses Distance Factor (usft) (usft) (usft) (usft) (usft) (usft) (usft) (usft) (°) (usft) (usft) (usft) 4.700.0 4.641.0 5.064.5 4.880.2 18.6 21.7 120.70 -625.9 -491.1 902.5 867.6 34.92 25.848 5,163.0 885.3 4,800.0 4,739.2 4.974.0 19.0 22 2 120.80 -637.7 -463.6 849.6 35.71 24.794 4,900.0 4,837.3 5,261.5 5,067.8 19.5 22.7 120.91 -649.5 -436.1 36.50 23.784 4.935.5 5.360.0 121.02 -661.3 -408.6 813.6 5.000.0 5.161.7 19.9 23.2 850.9 37.30 22.814 5.100.0 5.033.6 5.458.5 5.255.5 20.4 23.6 121.14 -673.1-381.1 833.7 795.6 38.10 21.881 5,106.5 5,040.0 5,464.8 5,261.6 20.4 23.7 121.15 -673.9 -379.3 794 4 21.822 832.6 38.15 5.200.0 5.131.9 5.556.9 5.349.3 20.8 24.1 121.17 -685.0 -353.6 816.3 777.4 38.89 20.987 5,300.0 5,230.3 5,655.3 5,443.1 21.3 24.6 121.14 -696.7 -326.2 798.4 758.7 39.68 20.124 5.400.0 5.328.8 5.753.6 5.536.7 21.7 25.1 121.06 -708.5 -298.7 780.1 739.7 40.44 19.290 5,427.5 -271.3 5,500.0 5,851.9 5,630.3 22.2 25.6 120.92 -720.3 761.4 720.2 41.19 18.485 5.600.0 5.526.3 5.950.0 5.723.8 22.6 26.1 120.71 -732.1-243 9 742 2 700.3 41 92 17 707 5,817.2 5,700.0 5,625.3 6,048.0 23.0 26.6 120.43 -743.8 -216.5 722.6 680.0 42.62 16.955 5.800.0 5.724.4 6.145.9 5.910.5 23.4 27.1 120.08 -755.6 -189.2 702.6 659.3 43.30 16.228 5.900.0 5,823.6 6,243.8 6.003.7 23.9 27.6 119.65 -767.3 -161.9 682.2 638.3 43.94 15.525 6,000.0 5,922.9 6,341.4 6,096.7 24.3 28.1 119.12 -779.0 -134.6 661.4 616.8 44.55 14.845 6,100.0 6,022.3 6,434.3 6,185.3 24.7 28.6 118.54 -790.1 -108.8 640.4 595.3 45.11 14,197 -800.2 6,200.0 6,121.8 6,523.7 6,270.8 25.1 29.0 117.94 -85.2 620.2 574.6 45.63 13.592 6,300.0 6,221.3 6,613.4 6,357.2 25.5 29.5 -809.9 -62.6 601.0 554.9 46.10 13.036 117.31 6.400.0 6.321.0 6.700.0 6.440.8 25.8 29.9 116.67 -818.7 -42.1 582.8 536.2 46.52 12.528 6,500.0 6,420.7 6,794.3 6,532.3 26.2 30.4 115.97 -827.8 -21.0 565.5 518.6 46.93 12.049 6,600.0 6,520.5 6,885.3 6,620.9 26.6 30.8 115.26 -836.0 -2.0 47.29 11.616 6.700.0 6.620.3 6.976.8 6.710.3 26.9 31.2 114.52 -843.6 15.8 534 1 486.5 47 60 11.221 6,800.0 6,720.2 7,068.6 6,800.3 27.3 31.7 113.76 -850.7 32.4 519.9 472.0 47.87 10.862 6.900.0 6.820.1 7.160.8 6.891.0 27.6 32.1 112.99 -857.3 47.7 506.8 458.7 48.09 10.538 7.000.0 6.920.1 7.253.3 6.982.2 27.9 32.5 112.19 -863.3 61.7 494.7 446.4 48.27 10.248 7,100.0 7,020.1 7,346.1 7,074.0 28.2 32.9 111.38 -868.7 74.4 483.6 435.2 48.41 9.990 7.200.0 7.120.0 7.439.2 7.166.3 28.4 33.3 110.56 -873.6 85.7 473.6 425.1 48.50 9.765 7,300.0 7,220.0 7,532.6 7,259.1 28.6 33.7 109.73 -877.9 95.7 464.7 416.2 48.53 9.575 7.306.5 7.226.5 7.538.7 7.265.1 28.6 33.7 -106.12 -878.2 96.3 464.2 415.7 48.53 9.564 7,626.3 28.6 -106.82 -881.6 7,400.0 7,320.0 7,352.3 34.1 104.3 457.0 408.5 48.52 9.419 7.500.0 7.420.0 7.720.3 7.445.9 28.6 34.4 -107.47 -884.7 111 6 450 6 402 1 48 52 9 287 9.178 -887.2 7,600.0 7,520.0 7,814.5 7,539.9 28.6 34.8 -108.00 117.4 445.5 396.9 48.54 7.700.0 7.620.0 7.908.9 7.634.2 28.6 35.1 -108.41 -889.1 121.9 441.7 393.1 48.58 9.092 7.800.0 7.720.0 8.003.4 7.728.7 28.6 35.4 -108.70 -890.4 124.9 439.1 390.4 48.63 9.028 7,900.0 7,820.0 8,100.0 7,825.2 28.7 35.6 -108.85 -891.1 126.5 437.7 389.0 48.75 8.979 SF 28.7 -891.2 7,967.8 7,887.9 8,162.6 7,887.9 35.7 -108.87 126.7 48.69 8.986 CC. ES 437.5 388.8 0.000,8 7,920.0 8,193.1 7,918.3 28.7 35.7 -108.88 -891.3 126.7 437.5 388.9 48.65 8.993 -898.3 8,100.0 8,020.0 8,269.9 7,994.7 28.7 35.8 -109.75 126.8 440.5 392.9 47.66 9.243 8.200.0 8.120.0 8.342.6 8.065.1 28.7 36.0 -111.93 -916.3 126.9 449.4 403.4 45.98 9.774 8,300.0 8,220.0 8,408.6 8,125.9 28.7 36.1 -114.89 -941.6 127.2 465.5 421.7 43.78 10.632 8,400.0 8,320.0 8,466.6 8,176.1 28.8 36.2 -118.12 -970.6 127.4 490.2 448.8 41.40 11.840 8.500.0 8.420.0 8.516.6 8.216.3 28.8 36.3 -121 25 -1.000.3 127 7 524 3 485 1 39.18 13.383 8,600.0 8,520.0 8,559.2 8,248.0 28.8 36.4 -124.08 -1,028.9 127.9 567.8 530.4 37.35 15.202 8.600.0 8.275.7 -126.84 128.2 583.8 36.07 8.700.0 8.620.0 28.8 36.5 -1.058.8 619.9 17.184 8.800.0 8.720.0 8.625.0 8.291.4 28.8 36.6 -128.54 -1,078.2 128.4 679.4 644.3 35.12 19.347 128.5 8,900.0 8,820.0 8,650.0 8,306.1 28.9 36.6 -130.23 -1,098.4 745.4 21.543 710.8 34.60 9.000.0 8.920.0 8.675.0 8.319.7 28.9 36.7 -131.90 -1.119.4 128.7 816.6 782.1 34.42 23.724 9,100.0 9,020.0 8,700.0 8,332.2 28.9 36.7 -133.54 -1,141.0 128.9 892.1 857.6 34.48 25.869 9.200.0 9.120.0 8.712.2 8.337.9 28.9 36.8 -134.33 -1.151.9 129.0 971.1 936.6 34.52 28.135

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: Reference Site: WILD THING PROJECT

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

Site Error: 0.0 usft North Reference: Grid

_WILD THING FED COM 902H Reference Well: Well Error:

Minimum Curvature **Survey Calculation Method:**

3.0 usft OWB Reference Wellbore

Output errors are at 2.00 sigma

EDT 17 Permian Prod Reference Datum

Database: PWP0 Reference Design: Offset TVD Reference:

Offset Des	sign: PU	DGE FED	COM PRO	JECT - PL	JDGE FEI	DERAL COM	I 701H - OWB	- PWP0					Offset Site Error:	0.0 usft
Survey Progr Refe		.5 MWD+IFR1	set	Semi I	Major Axis		Offset Wellbe	ore Centre	Die	Rule Assi	gned:		Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
3,300.0	3,266.7	3,743.1	3,581.9	12.5	15.5	104.07	-696.1	-630.1	986.2	961.5	24.61	40.069		
3,400.0	3,364.9	3,839.1	3,671.0	12.9	15.9	104.04	-700.7	-594.8	958.1	932.8	25.33	37.824		
3,500.0	3,463.0	3,935.1	3,760.1	13.3	16.4	104.01	-705.3	-559.4	930.1	904.1	26.05	35.699		
3,600.0	3,561.2	4,031.1	3,849.3	13.7	16.9	103.99	-709.8	-524.1	902.1	875.3	26.78	33.685		
3,700.0	3,659.4	4,127.1	3,938.4	14.2	17.4	103.95	-714.4	-488.7	874.1	846.6	27.51	31.775		
3,800.0	3,757.5	4,223.1	4,027.5	14.6	17.9	103.92	-719.0	-453.4	846.1	817.8	28.24	29.961		
3,900.0	3,855.7	4,319.1	4,116.6	15.0	18.3	103.89	-723.6	-418.1	818.0	789.1	28.97	28.237		
4,000.0	3,953.9	4,415.1	4,205.8	15.5	18.8	103.85	-728.1	-382.7	790.0	760.3	29.70	26.596		
4,100.0	4,052.0	4,511.1	4,294.9	15.9	19.3	103.81	-732.7	-347.4	762.0	731.6	30.44	25.033		
4,200.0	4,150.2	4,607.1	4,384.0	16.4	19.8	103.77	-737.3	-312.0	734.0	702.8	31.18	23.543		
4,300.0	4,248.3	4,703.1	4,473.2	16.8	20.3	103.72	-741.9	-276.7	706.0	674.1	31.91	22.121		
4,400.0	4,346.5	4,799.1	4,562.3	17.3	20.8	103.67	-746.4	-241.3	678.0	645.3	32.65	20.763		
4,500.0	4,444.7	4,895.0	4,651.4	17.7	21.3	103.62	-751.0	-206.0	649.9	616.6	33.39	19.464		
4,600.0	4,542.8	4,991.0	4,740.6	18.1	21.8	103.56	-755.6	-170.6	621.9	587.8	34.13	18.221		
4,700.0	4,641.0	5,087.0	4,829.7	18.6	22.3	103.49	-760.2	-135.3	593.9	559.0	34.87	17.032		
4,800.0	4,739.2	5,183.0	4,918.8	19.0	22.8	103.42	-764.7	-99.9	565.9	530.3	35.61	15.891		
4,900.0	4,837.3	5,279.0	5,008.0	19.5	23.3	103.35	-769.3	-64.6	537.9	501.5	36.35	14.798		
5,000.0	4,935.5	5,375.0	5,097.1	19.9	23.8	103.26	-773.9	-29.3	509.9	472.8	37.09	13.748		
5,100.0	5,033.6	5,471.0	5,186.2	20.4	24.3	103.16	-778.5	6.1	481.9	444.0	37.83	12.738		
5,106.5	5,040.0	5,477.2	5,192.0	20.4	24.3	103.15	-778.8	8.4	480.1	442.2	37.88	12.674		
5,200.0	5,131.9	5,567.0	5,275.3	20.8	24.8	102.87	-783.0	41.4	453.8	415.2	38.55	11.771		
5,300.0	5,230.3	5,662.9	5,364.4	21.3	25.3	102.43	-787.6	76.7	425.5	386.3	39.25	10.841		
5,400.0	5,328.8	5,758.7	5,453.4	21.7	25.8	101.81	-792.2	112.0	397.1	357.2	39.92	9.947		
5,500.0	5,427.5	5,854.4	5,542.2	22.2	26.2	100.99	-796.7	147.3	368.5	328.0	40.54	9.090		
5,600.0	5,526.3	5,950.1	5,631.0	22.6	26.7	99.90	-801.3	182.5	339.8	298.7	41.11	8.266		
5,700.0	5,625.3	6,045.6	5,719.8	23.0	27.2	98.47	-805.8	217.7	311.2	269.5	41.62	7.477		
5,800.0	5,724.4	6,141.0	5,808.4	23.4	27.7	96.60	-810.4	252.8	282.5	240.5	42.03	6.722		
5,900.0	5,823.6	6,236.4	5,896.9	23.9	28.2	94.16	-814.9	287.9	254.2	211.8	42.35	6.002		
6,000.0	5,922.9	6,331.6	5,985.3	24.3	28.7	90.93	-819.5	322.9	226.2	183.7	42.53	5.320		
6,100.0	6,022.3	6,426.6	6,073.6	24.7	29.2	86.62	-824.0	358.0	199.1	156.6	42.57	4.678		
6,200.0	6,121.8	6,521.6	6,161.7	25.1	29.7	80.81	-828.5	392.9	173.5	131.0	42.49	4.083		
6,300.0	6,221.3	6,616.4	6,249.7	25.5	30.2	72.94	-833.0	427.8	150.3	107.8	42.48	3.538		
6,400.0	6,321.0	6,711.0	6,337.6	25.8	30.7	62.41	-837.5	462.7	131.2	88.1	43.03	3.048		
6,500.0	6,420.7	6,805.3	6,425.4	26.2	31.2	49.25	-842.0	496.9	118.5	73.6	44.98	2.635 Norn	nal Operations	
6,596.7 6,600.0	6,517.2 6,520.5	6,897.2 6,900.4	6,511.4 6,514.4	26.6 26.6	31.7 31.7	35.18 34.69	-846.1 -846.3	529.0 530.1	114.4 114.4	66.0 65.8	48.44 48.58		ion - Monitor Closely, Co ion - Monitor Closely, ES	
	0,020.0	0,900.4	0,514.4	20.0	31.7	54.05	-040.5	330.1	114.4	03.8	40.36			
6,700.0	6,620.3	6,996.3	6,604.7	26.9	32.2	20.59	-850.4	562.0	118.8	66.1	52.69	2.255 Caut	ion - Monitor Closely, SF	:
6,800.0	6,720.2	7,093.0	6,696.4	27.3	32.7	8.51	-854.4	592.7	130.1	74.0	56.09		ion - Monitor Closely	
6,900.0	6,820.1	7,190.6	6,789.3	27.6	33.2	-1.01	-858.2	622.1	146.1	87.6	58.47		ion - Monitor Closely	
7,000.0	6,920.1	7,289.0	6,883.5	27.9	33.7	-8.24	-861.8	650.1	164.8	104.7	60.09		nal Operations	
7,100.0	7,020.1	7,388.1	6,979.0	28.2	34.2	-13.66	-865.3	676.7	184.9	123.7	61.24	3.020		
7,200.0	7,120.0	7,488.0	7,075.6	28.4	34.7	-17.73	-868.5	701.9	205.6	143.5	62.11	3.310		
7,300.0	7,220.0	7,588.6	7,173.3	28.6	35.2	-20.80	-871.6	725.6	226.3	163.5	62.75	3.606		
7,306.5	7,226.5	7,595.2	7,179.7	28.6	35.2	123.23	-871.8	727.0	227.6	164.8	62.79	3.625		
7,400.0	7,320.0	7,690.0	7,272.2	28.6	35.7	121.07	-874.4	747.7	246.3	183.1	63.23	3.896		
7,500.0	7,420.0	7,792.1	7,372.2	28.6	36.1	119.25	-877.1	768.2	265.1	201.4	63.67	4.163		
7,600.0	7,520.0	7,895.0	7,473.3	28.6	36.6	117.79	-879.5	787.1	282.4	218.3	64.08	4.407		
7,700.0	7,620.0	7,998.5	7,575.4	28.6	37.1	116.61	-881.8	804.3	298.2	233.7	64.45	4.626		
7,800.0	7,720.0	8,102.7	7,678.4	28.6	37.5	115.66	-883.8	819.7	312.3	247.5	64.81	4.819		
7,900.0	7,820.0	8,207.3	7,782.1	28.7	38.0	114.90	-885.5	833.3	324.8	259.7	65.13	4.987		
8,000.0	7,920.0	8,312.5	7,886.6	28.7	38.4	114.28	-887.0	845.1	335.7	270.2	65.42	5.130		

Anticollision Report

Company: DELAWARE BASIN WEST

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

Project: ATLAS PROSPECT (DBW)
Reference Site: WILD THING PROJECT

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

Site Error: 0.0 usft

North Reference: Grid

Reference Well: _WILD THING FED COM 902H

Survey Calculation Method: Minimu

Well Error: 3.0 usft

Output errors are at

Minimum Curvature

Reference Wellbore OWB
Reference Design: PWP0

Output errors are at 2
Database:

2.00 sigma EDT 17 Permian Prod

Offset TVD Reference: Reference Datum

urvey Progi		.5 MWD+IFR1					A #			Rule Assi	gned:		Offset Well Error:	0.0 us
Refe Measured	rence Vertical	Off Measured	set Vertical	Semi Reference	Major Axis Offset	Highside	Offset Wellb	ore Centre	Dis Between	tance Between	No-Go	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Distance (usft)	Factor	J	
8,100.0	8,020.0	8,418.1	7,991.7	28.7	38.8	113.80	-888.3	855.1	344.8	279.1	65.69	5.248		
8,200.0	8,120.0	8,523.9	8,097.3	28.7	39.2	113.42	-889.4	863.1	352.1	286.2	65.91	5.342		
8,300.0	8,220.0	8,630.1	8,203.2	28.7	39.6	113.15	-890.2	869.2	357.7	291.6	66.10	5.411		
8,400.0	8,320.0	8,736.5	8,309.5	28.8	39.9	112.97	-890.7	873.4	361.5	295.3	66.23	5.458		
8,500.0	8,420.0	8,842.9	8,415.9	28.8	40.2	112.87	-891.0	875.6	363.5	297.3	66.26	5.486		
8,600.0	8,520.0	8,947.0	8,520.0	28.8	40.3	112.86	-891.0	876.0	363.9	297.7	66.21	5.495		
8,700.0	8,620.0	9,047.0	8,620.0	28.8	40.3	112.86	-891.0	876.0	363.9	297.6	66.25	5.493		
8,800.0	8,720.0	9,147.0	8,720.0	28.8	40.3	112.86	-891.0	876.0	363.9	297.6	66.29	5.489		
8,900.0	8,820.0	9,247.0	8,820.0	28.9	40.4	112.86	-891.0	876.0	363.9	297.5	66.33	5.486		
9,000.0	8,920.0	9,347.0	8,920.0	28.9	40.4	112.86	-891.0	876.0	363.9	297.5	66.37	5.483		
9,100.0	9,020.0	9,447.0	9,020.0	28.9	40.4	112.86	-891.0	876.0	363.9	297.5	66.40	5.480		
9,200.0	9,120.0	9,547.0	9,120.0	28.9	40.4	112.86	-891.0	876.0	363.9	297.4	66.44	5.476		
9,300.0	9,220.0	9,647.0	9,220.0	28.9	40.4	112.86	-891.0	876.0	363.9	297.4	66.48	5.473		
9,310.0	9,230.0	9,657.0	9,230.0	28.9	40.4	112.86	-891.0	876.0	363.9	297.4	66.49	5.473		
9,400.0	9,320.0	9,739.0	9,312.0	29.0	40.4	112.96	-891.8	876.0	364.3	297.4	66.87	5.447		
9,500.0	9,420.0	9,814.4	9,386.6	29.0	40.5	114.41	-901.9	876.1	369.8	301.9	67.93	5.444		
9,600.0	9,520.0	9,884.9	9,454.2	29.0	40.5	117.16	-921.8	876.2	382.8	313.9	68.87	5.558		
9,700.0	9,620.0	9,950.0	9,513.3	29.0	40.6	120.69	-948.9	876.4	404.6	335.2	69.44	5.827		
9,800.0	9,720.0	10,000.0	9,556.0	29.0	40.6	123.86	-975.0	876.5	436.4	367.0	69.39	6.289		
9,900.0	9,820.0	10,050.0	9,595.6	29.1	40.7	127.27	-1,005.4	876.7	478.2	409.5	68.73	6.958		
10,000.0	9,920.0	10,092.7	9,626.8	29.1	40.7	130.28	-1,034.6	876.9	529.3	461.7	67.60	7.831		
10,100.0	10,020.0	10,125.0	9,648.6	29.1	40.7	132.55	-1,058.4	877.1	588.6	522.5	66.13	8.900		
10,200.0	10,120.0	10,157.1	9,668.6	29.1	40.8	134.77	-1,083.5	877.2	654.6	589.9	64.68	10.120		
10,207.0	10,127.0	10,159.0	9,669.7	29.1	40.8	134.90	-1,085.0	877.2	659.4	594.8	64.58	10.211		
10,250.0	10,170.0	10,175.0	9,679.0	29.1	40.8	133.23	-1,098.1	877.3	690.6	626.5	64.02	10.787		
10,300.0	10,219.6	10,175.0	9,679.0	29.0	40.8	128.51	-1,098.1	877.3	729.6	666.5	63.06	11.570		
10,350.0	10,268.6	10,187.4	9,685.9	28.8	40.8	123.70	-1,108.4	877.4	771.1	708.7	62.43	12.352		
10,400.0	10,316.4	10,200.0	9,692.6	28.7	40.8	117.61	-1,119.0	877.4	814.8	752.9	61.90	13.163		
10,450.0	10,362.8	10,200.0	9,692.6	28.5	40.8	108.06	-1,119.0	877.4	859.8	798.6	61.25	14.037		
10,500.0	10,407.4	10,200.0	9,692.6	28.4	40.8	96.49	-1,119.0	877.4	905.9	845.2	60.72	14.918		
10,550.0	10,449.9	10,200.0	9,692.6	28.2	40.8	83.59	-1,119.0	877.4	952.5	892.2	60.30	15.796		
10,600.0	10,489.9	10,200.0	9,692.6	28.0	40.8	70.67	-1,119.0	877.4	999.3	939.3	59.98	16.661		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

0.0 usft

TVD Reference: GL @ 2940.0usft GL @ 2940.0usft MD Reference:

North Reference: Grid

Survey Calculation Method:

Output errors are at

Minimum Curvature

2.00 sigma

Well Error: 3.0 usft OWB Reference Wellbore PWP0

Site Error:

Reference Well:

Database: EDT 17 Permian Prod Reference Datum Offset TVD Reference:

Reference Design:

_WILD THING FED COM 902H

													Offset Site Error:	0.0 usf
vey Progr Refe		r.5 MWD+IFR1 Off		Semi I	Major Axis		Offset Wellb	ore Centre	Dis	Rule Assig	gned:		Offset Well Error:	0.0 us
easured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
4,900.0	4,837.3	5,193.4	5,057.9	19.5	21.7	111.80	-814.3	-538.8	995.6	961.8	33.85	29.409		
5,000.0	4,935.5	5,292.0	5,153.4	19.9	22.1	112.15	-819.8	-514.7	980.2	945.5	34.64	28.295		
5,100.0	5,033.6	5,390.6	5,248.8	20.4	22.6	112.52	-825.3	-490.6	964.8	929.4	35.44	27.221		
5,106.5	5,040.0	5,397.0	5,255.0	20.4	22.6	112.54	-825.7	-489.0	963.8	928.3	35.49	27.153		
5,200.0	5,131.9	5,489.2	5,344.3	20.8	23.1	112.81	-830.8	-466.4	949.3	913.1	36.24	26.196		
5,300.0	5,230.3	5,587.9	5,439.7	21.3	23.6	113.06	-836.3	-442.3	933.5	896.5	37.03	25.210		
5,400.0	5,328.8	5,686.4	5,535.2	21.7	24.0	113.27	-841.9	-418.2	917.4	879.6	37.81	24.262		
5,500.0	5,427.5	5,785.0	5,630.6	22.2	24.5	113.43	-847.4	-394.0	901.0	862.4	38.59	23.350		
5,600.0	5,526.3	5,883.6	5,725.9	22.6	25.0	113.55	-852.9	-369.9	884.2	844.9	39.35	22.472		
5,700.0	5,625.3	5,982.1	5,821.3	23.0	25.5	113.62	-858.4	-345.8	867.2	827.1	40.10	21.626		
5,800.0	5,724.4	6,080.5	5,916.6	23.4	26.0	113.64	-863.9	-321.7	849.7	808.9	40.83	20.810		
5,900.0	5,823.6	6,178.9	6,011.9	23.9	26.5	113.61	-869.4	-297.6	832.0	790.4	41.55	20.023		
6,000.0	5,922.9	6,277.3	6,107.0	24.3	26.9	113.52	-874.9	-273.5	813.8	771.6	42.25	19.263		
6,100.0	6,022.3	6,375.5	6,202.2	24.7	27.4	113.37	-880.4	-249.5	795.4	752.5	42.93	18.528		
6,200.0	6,121.8	6,473.7	6,297.2	25.1	27.9	113.16	-885.9	-225.4	776.6	732.0	43.58	17.818		
6,300.0	6,221.3	6,571.9	6,392.2	25.5	28.4	112.88	-891.4	-201.4	757.5	713.3	44.21	17.132		
6,400.0	6,321.0	6,669.9	6,487.1	25.8	28.9	112.52	-896.9	-177.4	738.0	693.2	44.82	16.468		
6,500.0	6,420.7	6,763.9	6,578.1	26.2	29.3	112.09	-902.1	-154.5	718.4	673.0	45.36	15.839		
6,600.0	6,520.5	6,852.3	6,663.9	26.6	29.7	111.66	-906.8	-134.0	699.5	653.7	45.85	15.259		
6,700.0	6,620.3	6,941.0	6,750.5	26.9	30.2	111.21	-911.2	-114.8	681.8	635.5	46.31	14.723		
6,800.0	6,720.2	7,030.2	6,837.7	27.3	30.6	110.73	-915.3	-96.7	665.1	618.4	46.73	14.233		
6,900.0	6,820.1	7,119.8	6,925.6	27.6	31.0	110.22	-919.2	-79.9	649.5	602.4	47.12	13.785		
7,000.0	6,920.1	7,209.7	7,014.1	27.9	31.4	109.70	-922.7	-64.4	635.0	587.5	47.47	13.378		
7,100.0	7,020.1	7,300.0	7,103.2	28.2	31.8	109.16	-926.0	-50.2	621.6	573.9	47.78	13.012		
7,200.0	7,120.0	7,390.6	7,192.9	28.4	32.2	108.59	-928.9	-37.4	609.4	561.4	48.04	12.684		
7,300.0	7,220.0	7,481.5	7,283.0	28.6	32.6	108.01	-931.6	-25.8	598.3	550.1	48.25	12.401		
7,306.5	7,226.5	7,487.4	7,288.9	28.6	32.6	-107.83	-931.7	-25.1	597.7	549.4	48.26	12.384		
7,400.0	7,320.0	7,572.8	7,373.7	28.6	33.0	-108.32	-933.9	-15.7	588.5	540.1	48.40	12.159		
7,500.0	7,420.0	7,664.3	7,464.8	28.6	33.3	-108.78	-935.9	-6.9	580.1	531.6	48.55	11.948		
7,600.0	7,520.0	7,756.1	7,556.2	28.6	33.7	-109.18	-937.6	0.5	573.1	524.4	48.70	11.768		
7,700.0	7,620.0	7,848.1	7,648.1	28.6	34.0	-109.50	-938.9	6.5	567.5	518.6	48.85	11.616		
7,800.0	7,720.0	7,940.3	7,740.1	28.6	34.3	-109.76	-940.0	11.0	563.2	514.2	49.00	11.495		
7,900.0	7,820.0	8,032.7	7,832.4	28.7	34.6	-109.93	-940.7	14.1	560.3	511.2	49.14	11.403		
8,000.0	7,920.0	8,125.1	7,924.8	28.7	34.8	-110.03	-941.1	15.7	558.8	509.6	49.24	11.349		
8,090.0	8,010.0	8,210.3	8,010.0	28.7	34.9	-110.04	-941.1	16.0	558.5	509.3	49.26	11.338		
8,100.0	8,020.0	8,220.3	8,020.0	28.7	34.9	-110.04	-941.1	16.0	558.5	509.3	49.26	11.337		
8,200.0	8,120.0	8,320.3	8,120.0	28.7	35.0	-110.04	-941.1	16.0	558.5	509.2	49.32	11.325		
8,300.0	8,220.0	8,420.3	8,220.0	28.7	35.0	-110.04	-941.1	16.0	558.5	509.2	49.37	11.314		
8,400.0	8,320.0	8,520.3	8,320.0	28.8	35.0	-110.04	-941.1	16.0	558.5	509.1	49.42	11.303		
8,500.0	8,420.0	8,620.3	8,420.0	28.8	35.0	-110.04	-941.1	16.0	558.5	509.1	49.46	11.291		
8,600.0	8,520.0	8,720.3	8,520.0	28.8	35.0	-110.04	-941.1	16.0	558.5	509.0	49.51	11.280		
8,700.0	8,620.0	8,820.3	8,620.0	28.8	35.1	-110.04	-941.1	16.0	558.5	509.0	49.56	11.269		
8,800.0	8,720.0	8,920.3	8,720.0	28.8	35.1	-110.04	-941.1	16.0	558.5	508.9	49.61	11.257		
8,900.0	8,820.0	9,020.3	8,820.0	28.9	35.1	-110.04	-941.1	16.0	558.5	508.9	49.67	11.246		
9,000.0	8,920.0	9,120.3	8,920.0	28.9	35.1	-110.04	-941.1	16.0	558.5	508.8	49.72	11.234		
9,100.0	9,020.0	9,220.3	9,020.0	28.9	35.1	-110.04	-941.1	16.0	558.5	508.8	49.77	11.222		
9,200.0	9,120.0	9,320.3	9,120.0	28.9	35.2	-110.04	-941.1	16.0	558.5	508.7	49.82	11.211		
9,300.0	9,220.0	9,420.3	9,220.0	28.9	35.2	-110.04	-941.1	16.0	558.5	508.6	49.87	11.199		
9,400.0	9,320.0	9,520.3	9,320.0	29.0	35.2	-110.04	-941.1	16.0	558.5	508.6	49.93	11.187		
9,410.0	9,330.0	9,530.3	9,330.0	29.0	35.2	-110.04	-941.1	16.0	558.5	508.6	49.93	11.186 CC,	ES, SF	
9,500.0	9,420.0	9,613.5	9,413.3	29.0	35.2	-110.12	-941.9	16.1	558.7	508.9	49.82	11.216		

Anticollision Report

DELAWARE BASIN WEST Company:

> ATLAS PROSPECT (DBW) WILD THING PROJECT

Site Error: 0.0 usft

Project:

Reference Site:

_WILD THING FED COM 902H Reference Well:

Well Error: 3.0 usft OWB

Reference Wellbore PWP0 Reference Design:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot 902H

GL @ 2940.0usft TVD Reference: GL @ 2940.0usft MD Reference:

North Reference: Grid

Minimum Curvature **Survey Calculation Method:**

Output errors are at 2.00 sigma

EDT 17 Permian Prod Database: Offset TVD Reference: Reference Datum

urvey Progr Refer		5 MWD+IFR1 Offs		Semi I	Major Axis		Offset Wellb	ore Centre	Dist	Rule Assig	jned:		Offset Well Error:	0.0 us
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
9,600.0	9,520.0	9,692.3	9,491.1	29.0	35.4	-111.23	-952.8	17.7	561.8	512.8	49.01	11.463		
9,700.0	9,620.0	9,765.6	9,561.1	29.0	35.5	-113.36	-974.2	20.7	569.5	521.8	47.68	11.944		
9,800.0	9,720.0	9,831.0	9,620.1	29.0	35.6	-116.07	-1,002.1	24.7	583.1	537.1	45.95	12.688		
9,900.0	9,820.0	9,887.7	9,667.7	29.1	35.7	-118.93	-1,032.5	29.0	604.2	560.1	44.08	13.706		
10,000.0	9,920.0	9,936.0	9,705.2	29.1	35.8	-121.67	-1,062.7	33.3	633.7	591.4	42.30	14.981		
10,100.0	10,020.0	9,975.0	9,733.0	29.1	35.9	-124.03	-1,089.7	37.1	672.0	631.1	40.82	16.463		
10,200.0	10,120.0	10,011.4	9,757.0	29.1	36.0	-126.31	-1,116.9	41.0	718.5	678.8	39.72	18.092		
10,207.0	10,127.0	10,013.7	9,758.4	29.1	36.0	-126.45	-1,118.6	41.3	722.1	682.4	39.65	18.209		
10,250.0	10,170.0	10,025.0	9,765.4	29.1	36.0	-124.55	-1,127.4	42.5	745.5	706.2	39.31	18.967		
10,300.0	10,219.6	10,037.8	9,773.0	29.0	36.0	-122.24	-1,137.6	44.0	776.3	737.3	38.98	19.916		
10,350.0	10,268.6	10,050.0	9,780.0	28.8	36.1	-119.25	-1,147.5	45.4	810.3	771.6	38.74	20.919		
10,400.0	10,316.4	10,050.0	9,780.0	28.7	36.1	-114.36	-1,147.5	45.4	847.2	808.7	38.59	21.957		
10,450.0	10,362.8	10,057.8	9,784.3	28.5	36.1	-109.25	-1,153.9	46.3	886.5	847.9	38.52	23.010		
10,500.0	10,407.4	10,060.1	9,785.6	28.4	36.1	-102.58	-1,155.8	46.6	927.5	889.0	38.54	24.069		
10,550.0	10,449.9	10,060.6	9,785.8	28.2	36.1	-94.74	-1,156.2	46.6	969.9	931.3	38.61	25.120		

Anticollision Report

Company: DELAWARE BASIN WEST

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

Project: ATLAS PROSPECT (DBW)
Reference Site: WILD THING PROJECT

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

Site Error: 0.0 usft

North Reference: Gri

Grid

Reference Well: _WILD THING FED COM 902H
Well Error: 3.0 usft

Survey Calculation Method:

Minimum Curvature

Reference Wellbore OWB
Reference Design: PWP0

Output errors are at 2.00

2.00 sigma

Database:

EDT 17 Permian Prod

Offset TVD Reference:

Reference Datum

vey Progr	am: O	r.5 MWD+IFR1								Rule Assi	anod:		Offset Site Error: Offset Well Error:	0.0 u
Refe	rence	Offs			Major Axis		Offset Wellb	ore Centre		tance	-			0.0 u
easured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
2,900.0	2,874.1	3,369.9	3,233.7	10.8	13.6	118.71	-404.4	-733.8	988.1	965.1	23.04	42.884		
3,000.0	2,972.2	3,465.3	3,322.3	11.2	14.1	119.33	-405.1	-698.5	960.0	936.2	23.85	40.259		
3,100.0	3,070.4	3,560.7	3,411.0	11.6	14.6	120.00	-405.8	-663.1	932.1	907.4	24.66	37.793		
3,200.0	3,168.6	3,656.1	3,499.6	12.0	15.0	120.71	-406.5	-627.8	904.3	878.8	25.49	35.474		
3,300.0	3,266.7	3,751.6	3,588.2	12.5	15.5	121.46	-407.2	-592.4	876.6	850.2	26.33	33.292		
3,400.0	3,364.9	3,847.0	3,676.9	12.9	16.0	122.26	-407.9	-557.1	849.0	821.9	27.18	31.237		
3,500.0	3,463.0	3,942.4	3,765.5	13.3	16.4	123.11	-408.6	-521.7	821.7	793.6	28.04	29.300		
3,600.0	3,561.2	4,037.8	3,854.1	13.7	16.9	124.02	-409.3	-486.4	794.5	765.6	28.92	27.473		
3,700.0	3,659.4	4,133.3	3,942.8	14.2	17.4	124.99	-410.0	-451.0	767.5	737.7	29.81	25.749		
3,800.0	3,757.5	4,228.7	4,031.4	14.6	17.9	126.03	-410.6	-415.7	740.7	710.0	30.71	24.122		
3,900.0	3,855.7	4,324.1	4,120.0	15.0	18.4	127.15	-411.3	-380.3	714.2	682.6	31.62	22.586		
4,000.0	3,953.9	4,419.5	4,208.7	15.5	18.9	128.35	-412.0	-345.0	688.0	655.4	32.55	21.135		
4,100.0	4,052.0	4,515.0	4,297.3	15.9	19.3	129.65	-412.7	-309.6	662.1	628.6	33.49	19.766		
4,200.0	4,150.2	4,610.4	4,385.9	16.4	19.8	131.04	-413.4	-274.3	636.5	602.0	34.45	18.475		
4,300.0	4,248.3	4,705.8	4,474.6	16.8	20.3	132.55	-414.1	-239.0	611.3	575.9	35.42	17.257		
4,400.0	4,346.5	4,801.2	4,563.2	17.3	20.8	134.18	-414.8	-203.6	586.6	550.1	36.41	16.109		
4,500.0	4,444.7	4,896.7	4,651.8	17.7	21.3	135.95	-415.5	-168.3	562.3	524.9	37.41	15.031		
4,600.0	4,542.8	4,992.1	4,740.5	18.1	21.8	137.88	-416.2	-132.9	538.6	500.2	38.42	14.018		
4,700.0	4,641.0	5,087.5	4,829.1	18.6	22.3	139.97	-416.9	-97.6	515.6	476.2	39.45	13.071		
4,800.0	4,739.2	5,182.9	4,917.7	19.0	22.8	142.24	-417.6	-62.2	493.3	452.9	40.48	12.188		
4,900.0	4,837.3	5,278.4	5,006.4	19.5	23.3	144.72	-418.3	-26.9	471.9	430.4	41.51	11.368		
5,000.0	4,935.5	5,373.8	5,095.0	19.9	23.8	147.41	-419.0	8.5	451.4	408.9	42.54	10.613		
5,100.0	5,033.6	5,469.2	5,183.6	20.4	24.3	150.34	-419.7	43.8	432.1	388.5	43.55	9.920		
5,106.5	5,040.0	5,475.4	5,189.4	20.4	24.3	150.54	-419.8	46.1	430.8	387.2	43.62	9.878		
5,200.0	5,131.9	5,564.6	5,272.3	20.8	24.7	153.46	-420.4	79.2	413.6	369.1	44.53	9.287		
5,300.0	5,230.3	5,660.0	5,360.8	21.3	25.2	156.80	-421.1	114.5	395.8	350.3	45.47	8.704		
5,400.0	5,328.8	5,755.3	5,449.4	21.7	25.7	160.40	-421.8	149.8	378.6	332.3	46.34	8.171		
5,500.0	5,427.5	5,850.6	5,537.9	22.2	26.2	164.27	-422.5	185.1	362.4	315.3	47.13	7.691		
5,600.0	5,526.3	5,945.8	5,626.3	22.6	26.7	168.44	-423.2	220.3	347.3	299.5	47.80	7.265		
5,700.0	5,625.3	6,040.9	5,714.6	23.0	27.2	172.93	-423.9	255.6	333.4	285.0	48.35	6.896		
5,800.0	5,724.4	6,135.9	5,802.9	23.4	27.7	177.75	-424.6	290.8	321.0	272.3	48.73	6.588		
5,900.0	5,823.6	6,230.9	5,891.1	23.9	28.2	-177.11	-425.3	325.9	310.4	261.5	48.92	6.345		
6,000.0	5,922.9	6,325.7	5,979.2	24.3	28.7	-171.66	-426.0	361.1	301.8	252.9	48.91	6.170		
6,100.0	6,022.3	6,420.5	6,067.2	24.7	29.2	-165.93	-426.7	396.2	295.5	246.8	48.71	6.066		
6,200.0 6,284.8	6,121.8 6,206.2	6,515.2 6,595.4	6,155.2 6,229.7	25.1 25.4	29.7 30.1	-159.99 -154.85	-427.4 -428.0	431.2 461.0	291.7 290.7	243.4 242.8	48.33 47.92	6.036 SF 6.066 CC, E	s	
6,300.0	6,221.3	6,609.7	6,243.0	25.5	30.2	-153.93	-428.1	466.3	290.7	242.9	47.84	6.077		
6,400.0	6,321.0	6,704.1	6,330.7	25.8	30.2	-147.83	-428.8	501.2	292.6	245.3	47.32	6.184		
6,500.0	6,420.7	6,798.4	6,418.2	26.2	31.2	-141.79	-429.4	536.2	297.5	250.6	46.85	6.349		
6,600.0	6,520.5	6,892.6	6,505.7	26.6	31.7	-135.91	-429.4	571.0	305.3	258.8	46.54	6.561		
6,700.0	6,620.3	6,986.6	6,593.0	26.9	32.2	-130.26	-430.8	605.9	316.0	269.6	46.43	6.805		
6,800.0	6,720.2	7,080.4	6,680.2	27.3	32.7	-124.92	-431.5	640.6	329.4	282.8	46.58	7.072		
6,900.0	6,820.1	7,174.1	6,767.2	27.6	33.2	-119.90	-432.2	675.3	345.3	298.3	46.97	7.351		
7,000.0	6,920.1	7,267.6	6,854.1	27.9	33.7	-115.23	-432.9	710.0	363.5	315.9	47.58	7.638		
7,100.0	7,020.1	7,364.4	6,944.3	28.2	34.2	-110.85	-433.6	745.1	383.4	335.0	48.40	7.921		
7,200.0	7,120.0	7,462.4	7,036.1	28.4	34.7	-106.94	-434.2	779.2	404.1	354.8	49.33	8.191		
7,300.0	7,220.0	7,561.4	7,129.5	28.6	35.2	-103.44	-434.9	812.0	425.3	375.0	50.33	8.450		
7,306.5	7,226.5	7,567.9	7,135.7	28.6	35.2	40.97	-434.9	814.0	426.7	376.3	50.39	8.467		
7,400.0	7,320.0	7,661.5	7,224.5	28.6	35.7	43.94	-435.5	843.5	446.7	395.3	51.34	8.700		
7,500.0	7,420.0	7,762.7	7,321.2	28.6	36.2	46.71	-436.1	873.6	467.9	415.6	52.35	8.939		
7,600.0	7,520.0	7,865.0	7,419.3	28.6	36.7	49.13	-436.7	902.4	488.8	435.5	53.33	9.166		

Anticollision Report

Company: DELAWARE BASIN WEST

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

Project: ATLAS PROSPECT (DBW)
Reference Site: WILD THING PROJECT

PWP0

TVD Reference: GL @ 2940.0usft GL @ 2940.0usft

Site Error: 0.0 usft

North Reference: Grid

Reference Well: __WILD THING FED COM 902H
Well Error: 3.0 usft

Survey Calculation Method: Minimum Curvature

Well Error: 3.0 usft
Reference Wellbore OWB

Reference Design:

Output errors are at 2.00 sigma

Database: EDT 17 Permian Prod Offset TVD Reference: Reference Datum

PUDGE FED COM PROJECT - PUDGE FEDERAL COM 901H - OWB - PWP0 Offset Design: 0.0 usft Offset Site Error: 0-r.5 MWD+IFR1 Survey Program: Referenc Rule Assigned: Offset Well Error: 0.0 usft Offset Wellbore Centre Distance rence Semi Major Axis ence Offset Measured Vertical Measured Vertical Reference Highside Between Between No-Go Separation Warning +N/-S +F/-W Toolface Depth Depth Depth Depth Centres Ellipses Distance Factor (usft) (usft) (usft) (usft) (usft) (usft) (usft) (usft) (°) (usft) (usft) (usft) 7.700.0 7.620.0 7.968.4 7.519.0 28.6 37.2 51.22 -437.2929.7 509.1 454.8 54.27 9.380 7,720.0 528.4 473.3 7,800.0 8,072.8 7,620.2 28.6 37.8 53.04 -437.7 955.4 55.17 9.579 7,900.0 7,820.0 8,178.0 7,722.7 28.7 38.3 54.62 -438.2 979.4 546.8 490.8 56.01 9.763 8.284.2 -438.6 1.001.8 564.0 507.2 56.80 9.930 8.000.0 7.920.0 7.826.5 28.7 38.8 56.00 8,100.0 8,020.0 8,391.2 7,931.5 28.7 39.3 57.18 -439.01.022.4 580.0 522.4 57.53 10.081 8,200.0 8,120.0 8,498.9 8,037.5 28.7 39.8 -439.4 1,041.1 594.5 536.3 58.21 10.214 58.20 8.300.0 8.220.0 8.607.3 8.144.6 28.7 40.2 59.07 -439.7 1.057.9 607.7 548.9 58.82 10.331 8,400.0 8,320.0 8,716.4 8,252.6 28.8 40.7 59.80 -440.0 1,072.8 619.3 560.0 59.38 10.430 8.500.0 8.420.0 8.825.9 8.361.4 28.8 41.2 60.42 -440.3 1.085.7 629.4 569.6 59.87 10.513 8,600.0 8,520.0 8,935.9 8,470.9 28.8 41.6 60.91 -440.5 1,096.5 637.9 577.6 60.31 10.578 8,700.0 8,620.0 9,046.3 8,581.0 28.8 42.0 61.31 -440.7 1,105.3 644.8 584.1 60.68 10.627 8,800.0 8,720.0 9,157.0 8,691.4 28.8 42.4 61.60 -440.8 1,112.0 650.1 589.1 60.98 10.661 8.900.0 8.820.0 9.267.9 8.802.3 28.9 42.8 61.80 -440.9 1.116.5 653.6 592.4 61.20 10.680 9.000.0 8.920.0 9.379.0 8.913.3 28.9 43.1 -441.0 1,118.9 594.2 61.33 10.689 61.90 655.5 9,100.0 9,020.0 9,485.7 9,020.0 28.9 43.2 61.92 -441.0 1,119.3 655.8 61.31 10.696 9,200.0 9,120.0 9.585.7 9,120.0 28.9 43.2 61.92 -441.0 1,119.3 655.8 594 4 61.36 10.689 9,300.0 9,220.0 9,685.7 9,220.0 28.9 43.2 61.92 -441.0 1,119.3 655.8 594.4 61.40 10.681 9,320.0 9,785.7 9,320.0 29.0 43.2 -441.0 1,119.3 594.4 10.673 9,400.0 61.92 655.8 61.45 9.500.0 9.420.0 9.885.7 9.420.0 29.0 43.3 61.92 -441.0 1.119.3 655.8 594.3 61.49 10.665 9,600.0 9,520.0 9,985.7 9,520.0 43.3 -441.0 1,119.3 29.0 61.92 655.8 594.3 61.54 10.656 9.700.0 9.620.0 10.085.7 9.620.0 29.0 43.3 61.92 -441.0 1.119.3 655.8 594.2 61.59 10.648 9,800.0 9,720.0 10,185.7 9,720.0 29.0 43.3 61.92 -441.0 1,119.3 655.8 594 2 61.64 10.640 9,900.0 9,820.0 10,285.7 9,820.0 29.1 43.3 61.92 -441.0 1,119.3 655.8 594.1 61.68 10.632 10.000.0 9.920.0 10.385.7 9.920.0 29.1 43.4 61.92 -441.0 1.119.3 655.8 594.1 61.73 10.623 10,100.0 10,020.0 10,485.7 10,020.0 29.1 43.4 61.92 -441.0 1,119.3 655.8 594.0 61.78 10.615 10,120.0 10,120.0 29.1 61.92 -441.0 10,200.0 10,585.7 43.4 1,119.3 655.8 594.0 61.83 10.606 10.207.0 10.127.0 10.592.7 10.127.0 29.1 43.4 61.92 -441.0 1.119.3 655.8 594.0 61.84 10.606 10,250.0 10,170.0 10,635.7 10,170.0 29.1 43.4 62.48 -441.0 1,119.3 655.1 593.2 61.89 10.585 10.300.0 10.219.6 10.685.3 10.219.6 29.0 43.4 63.18 -441.0 1.119.3 652.3 590.3 62.03 10.516 28.8 10,268.6 10,734.3 10,268.6 43.4 585.5 10.405 10,350.0 64.39 -441.01,119.3 647.7 62.25 10,400.0 10,316.4 10,782.1 10,316.4 28.7 43.4 66.09 -441.0 1,119.3 641.5 578.9 62.56 10.253 -441.0 10,450.0 10,362.8 10,828.5 10,362.8 28.5 43.4 68.25 1,119.3 633.8 570.8 62.95 10.068 10.500.0 10.407.4 10.902.9 10.437.0 28.4 43.4 72.33 -444.0 1,119.1 624.5 561.9 62.62 9.972 10.550.0 10.449.9 10.978.9 10.511.6 28.2 43.4 78.27 -458.5 1.118.4 612.3 550.0 62.31 9.827 10,600.0 10,489.9 11,029.5 10,559.6 28.0 43.4 83.53 -474.6 1,117.5 599.8 536.9 62.83 9.547 10,650.0 10,527.2 11,061.5 10,588.9 27.9 43.4 87.49 -487.3 1,116.9 589.0 525.1 63.90 9.217 10,700.0 10,561.4 11,080.6 10,605.9 27.7 43.4 -495.9 1,116.4 581.3 516.0 65.27 8.906 10,750.0 10,592.3 11,090.7 10,614.8 27.6 43.4 91.43 -500.6 1,116.2 577.5 510.8 66.71 8.658 10.768.0 10.602.6 11.092.6 10.616.5 27.6 43.4 91.65 -501.6 1.116.1 577.2 510.0 67.21 8.589 8.495 10,800.0 10,619.7 11,094.3 10,618.0 27.5 43.4 91.73 -502.4 1,116.1 578.1 510.1 68.06 10.850.0 10.643.3 11.093.4 10.617.2 27.4 43.4 91.13 -502.0 1.116.1 583.2 514.0 69.21 8.426 10,900.0 10,663.0 11,089.1 10,613.4 27.3 43.4 89.76 -499.9 1,116.2 592.4 522.3 70.10 8.451 10,950.0 10,678.6 11,082.1 10,607.3 27.2 43.4 87.72 -496.6 1,116.4 605.6 534.9 70.72 8.564 -493.3 11.000.0 10.690.0 11.075.0 10.601.0 27.2 43.4 85.27 1.116.5 622.3 551.2 71.05 8.758 11,050.0 10,697.1 11,062.7 10,589.9 27.2 43.4 82.01 -487.8 1,116.8 641.8 570.6 71.21 9.012 11,100.0 10,699.9 11,050.0 10,578.4 27.2 43.4 78.48 -482.5 1,117.1 663.7 592.6 71.18 9.325 11.107.0 10.700.0 11.050.0 10.578.4 27.2 43.4 78.13 -482.5 1.117.1 666.9 595.8 71.13 9.376 11,200.0 10,700.0 11,025.0 10,555.4 27.2 43.4 75.97 -472.9 1,117.6 714.3 643.6 70.74 10.098 11.300.0 10.700.0 11.010.1 10.541.3 27.3 43.4 -467.8 1.117.9 773.6 69.95 11.059 11,000.0 10,531.8 27.4 43.4 11,400.0 10,700.0 73.81 -464.5 1,118.0 839.9 770.9 69.03 12.168

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

PWP0

GL @ 2940.0usft

Grid

Site Error: 0.0 usft

Reference Design:

TVD Reference: MD Reference:

GL @ 2940.0usft

_WILD THING FED COM 902H Reference Well: Well Error:

North Reference:

Minimum Curvature

3.0 usft OWB Reference Wellbore

Survey Calculation Method: Output errors are at

2.00 sigma

Database: Offset TVD Reference: EDT 17 Permian Prod Reference Datum

Offset Des	sign: PU	DGE FED	COM PRO	JECT - Pl	JDGE FEI	DERAL COM	1 901H - OWB	- PWP0					Offset Site Error:	0.0 usft
Survey Progra References		:5 MWD+IFR1 Off Measured		Semi I Reference	Major Axis Offset	Highside	Offset Wellb	ore Centre	Dis Between	Rule Assignance Between	gned: No-Go	Separation	Offset Well Error:	0.0 usft
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Distance (usft)	Factor	warning	
11,500.0 11,600.0	10,700.0 10,700.0	10,982.6 10,975.0	10,515.2 10,507.8	27.4 27.5	43.4 43.4	72.31 71.66	-459.4 -457.4	1,118.3 1,118.4	912.0 988.6	843.8 921.3	68.21 67.35	13.369 14.679		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

Site Error: 0.0 usft North Reference: Grid

_WILD THING FED COM 902H Reference Well: 3.0 usft Well Error:

Survey Calculation Method: Minimum Curvature

Reference Wellbore OWB PWP0 Reference Design:

Output errors are at 2.00 sigma

Database: EDT 17 Permian Prod Offset TVD Reference: Reference Datum

/ey Progr	ram: Or	.5 MWD+IFR1								Rule Assig	mod:		Offset Site Error: Offset Well Error:	0.0 us
Refe	rence	Off	set		Major Axis		Offset Wellb	ore Centre		tance				0.0 us
easured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
3,700.0	3,659.4	4,067.4	3,938.9	14.2	16.6	119.82	-499.1	-677.0	988.0	960.1	27.85	35.479		
3,800.0	3,757.5	4,165.1	4,032.3	14.6	17.1	120.37	-502.8	-648.6	968.7	940.0	28.68	33.772		
3,900.0	3,855.7	4,262.8	4,125.7	15.0	17.5	120.94	-506.5	-620.2	949.5	919.9	29.53	32.153		
4,000.0	3,953.9	4,360.4	4,219.1	15.5	18.0	121.54	-510.2	-591.8	930.4	900.0	30.39	30.618		
4,100.0	4,052.0	4,458.1	4,312.5	15.9	18.5	122.16	-513.9	-563.4	911.4	880.1	31.25	29.161		
4,200.0	4,150.2	4,555.8	4,405.8	16.4	19.0	122.80	-517.6	-535.0	892.5	860.3	32.13	27.777		
4,300.0	4,248.3	4,653.5	4,499.2	16.8	19.5	123.48	-521.3	-506.7	873.7	840.7	33.02	26.461		
4,400.0	4,346.5	4,751.2	4,592.6	17.3	20.0	124.18	-525.0	-478.3	855.0	821.1	33.92	25.210		
4,500.0	4,444.7	4,848.9	4,686.0	17.7	20.4	124.92	-528.7	-449.9	836.5	801.7	34.83	24.019		
4,600.0	4,542.8	4,946.5	4,779.4	18.1	20.9	125.68	-532.4	-421.5	818.1	782.4	35.75	22.886		
4,700.0	4,641.0	5,044.2	4,872.8	18.6	21.4	126.48	-536.1	-393.1	799.9	763.2	36.68	21.807		
4,800.0	4,739.2	5,141.9	4,966.2	19.0	21.9	127.32	-539.8	-364.7	781.8	744.2	37.62	20.779		
4,900.0	4,837.3	5,239.6	5,059.6	19.5	22.4	128.20	-543.5	-336.3	763.9	725.3	38.58	19.800		
5,000.0	4,935.5	5,337.3	5,153.0	19.9	22.9	129.12	-547.2	-307.9	746.2	706.6	39.55	18.867		
5,100.0	5,033.6	5,434.9	5,246.4	20.4	23.4	130.08	-550.9	-279.6	728.7	688.1	40.53	17.978		
5,106.5	5,040.0	5,441.3	5,252.4	20.4	23.4	130.15	-551.1	-277.7	727.5	686.9	40.60	17.921		
5,200.0	5,131.9	5,532.6	5,339.8	20.8	23.8	131.01	-554.6	-251.2	711.1	669.6	41.52	17.128		
5,300.0	5,230.3	5,630.3	5,433.1	21.3	24.3	131.92	-558.3	-222.8	693.2	650.7	42.50	16.310		
5,400.0	5,328.8	5,727.9	5,526.5	21.7	24.8	132.83	-562.0	-194.4	674.9	631.4	43.49	15.519		
5,500.0	5,427.5	5,825.5	5,619.8	22.2	25.3	133.74	-565.7	-166.1	656.2	611.8	44.47	14.756		
5,600.0	5,526.3	5,923.1	5,713.1	22.6	25.8	134.65	-569.4	-137.7	637.1	591.7	45.45	14.018		
5,700.0	5,625.3	6,020.6	5,806.3	23.0	26.3	135.57	-573.1	-109.4	617.6	571.2	46.43	13.302		
5,800.0	5,724.4	6,118.0	5,899.5	23.4	26.8	136.48	-576.7	-81.1	597.7	550.3	47.41	12.608		
5,900.0	5,823.6	6,215.4	5,992.6	23.9	27.3	137.41	-580.4	-52.8	577.3	529.0	48.38	11.933		
6,000.0	5,922.9	6,312.7	6,085.6	24.3	27.8	138.35	-584.1	-24.5	556.5	507.1	49.35	11.277		
6,100.0	6,022.3	6,409.9	6,178.6	24.7	28.3	139.30	-587.8	3.8	535.2	484.9	50.31	10.638		
6,200.0	6,121.8	6,507.1	6,271.4	25.1	28.8	140.28	-591.5	32.0	513.4	462.1	51.27	10.014		
6,300.0	6,221.3	6,604.1	6,364.2	25.5	29.2	141.28	-595.2	60.2	491.1	438.9	52.22	9.405		
3,400.0	6,321.0	6,701.1	6,456.9	25.8	29.7	142.32	-598.8	88.4	468.4	415.2	53.16	8.810		
6,500.0	6,420.7	6,797.9	6,549.5	26.2	30.2	143.41	-602.5	116.5	445.1	391.0	54.10	8.228		
6,600.0	6,520.5	6,894.6	6,642.0	26.6	30.7	144.55	-606.2	144.6	421.4	366.3	55.02	7.658		
5,700.0	6,620.3	6,989.1	6,732.3	26.9	31.2	145.72	-609.7	172.0	397.2	341.3	55.92	7.103		
6,800.0	6,720.2	7,079.9	6,819.5	27.3	31.6	146.90	-613.0	197.2	373.7	316.9	56.79	6.581		
6,900.0	6,820.1	7,171.4	6,907.7	27.6	32.1	148.11	-616.1	221.2	351.2	293.6	57.63	6.095		
7,000.0	6,920.1	7,263.4	6,996.8	27.9	32.5	149.36	-619.1	244.0	329.7	271.3	58.42	5.643		
7,100.0	7,020.1	7,356.0	7,086.9	28.2	33.0	150.64	-621.9	265.5	309.1	250.0	59.17	5.225		
7,200.0	7,120.0	7,449.2	7,177.8	28.4	33.4	151.94	-624.5	285.6	289.5	229.7	59.85	4.837		
7,300.0	7,220.0	7,542.8	7,269.5	28.6	33.9	153.24	-627.0	304.4	270.9	210.5	60.40	4.484		
7,306.5	7,226.5	7,548.9	7,275.5	28.6	33.9	-62.47	-627.1	305.5	269.7	209.2	60.44	4.462		
7,400.0	7,320.0	7,637.1	7,362.1	28.6	34.3	-61.18	-629.2	321.7	253.4	192.6	60.83	4.166		
7,500.0	7,420.0	7,731.8	7,455.5	28.6	34.7	-59.75	-631.3	337.7	237.7	176.5	61.19	3.884		
7,600.0	7,520.0	7,827.1	7,549.7	28.6	35.2	-58.29	-633.2	352.2	223.6	162.1	61.51	3.635		
7,700.0	7,620.0	7,922.9	7,644.5	28.6	35.6	-56.82	-634.9	365.2	211.2	149.4	61.77	3.419		
7,800.0	7,720.0	8,019.1	7,740.0	28.6	36.0	-55.37	-636.4	376.6	200.4	138.4	61.97	3.234		
7,900.0	7,820.0	8,115.6	7,836.0	28.7	36.4	-54.00	-637.7	386.5	191.2	129.1	62.13	3.078		
8,000.0	7,920.0	8,212.5	7,932.5	28.7	36.7	-52.74	-638.8	394.9	183.7	121.4	62.24		nal Operations	
8,100.0	8,020.0	8,309.6	8,029.4	28.7	37.1	-51.65	-639.6	401.6	177.6	115.3	62.33	2.850 Norr	nal Operations	
8,200.0	8,120.0	8,406.9	8,126.6	28.7	37.4	-50.78	-640.3	406.7	173.1	110.7	62.40		nal Operations	
8,300.0	8,220.0	8,504.4	8,224.0	28.7	37.7	-50.15	-640.8	410.2	170.1	107.6	62.45		nal Operations	
8,400.0	8,320.0	8,601.9	8,321.5	28.8	38.0	-49.82	-641.0	412.0	168.5	106.0	62.49		nal Operations	
8,485.3	8,405.4	8,685.8	8,405.4	28.8	38.1	-49.76	-641.0	412.3	168.2	105.8	62.46		nal Operations	

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

PWP0

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

Site Error: 0.0 usft North Reference: Grid

_WILD THING FED COM 902H Reference Well: 3.0 usft Well Error:

Survey Calculation Method: Minimum Curvature

Reference Wellbore OWB

Reference Design:

Output errors are at 2.00 sigma

Database: Offset TVD Reference: EDT 17 Permian Prod

Reference Datum

rvey Prog	ram: 0-r rence	.5 MWD+IFR1 Off		Comi I	Major Axis		Offset Wellb	oro Contro	Die	Rule Assig	jned:		Offset Well Error:	0.0 ι
Refe Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellb		Between	Between	No-Go	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Distance (usft)	Factor		
8,500.0	8,420.0	8,700.5	8,420.0	28.8	38.1	-49.76	-641.0	412.3	168.2	105.7	62.46	2.693 Norma	al Operations	
8,600.0	8,520.0	8,800.5	8,520.0	28.8	38.1	-49.76	-641.0	412.3	168.2	105.7	62.50	2.691 Norma	al Operations	
8,700.0	8,620.0	8,900.5	8,620.0	28.8	38.1	-49.76	-641.0	412.3	168.2	105.7	62.55	2.689 Norma	al Operations	
8,800.0	8,720.0	9,000.5	8,720.0	28.8	38.1	-49.76	-641.0	412.3	168.2	105.6	62.59	2.687 Norma	al Operations	
8,900.0	8,820.0	9,100.5	8,820.0	28.9	38.2	-49.76	-641.0	412.3	168.2	105.6	62.63	2.686 Norma	al Operations	
9,000.0	8,920.0	9,200.5	8,920.0	28.9	38.2	-49.76	-641.0	412.3	168.2	105.5	62.68	2.684 Norma	al Operations	
9,100.0	9,020.0	9,300.5	9,020.0	28.9	38.2	-49.76	-641.0	412.3	168.2	105.5	62.72	2.682 Norma	al Operations	
9,200.0	9,120.0	9,400.5	9,120.0	28.9	38.2	-49.76	-641.0	412.3	168.2	105.4	62.77	2.680 Norma	al Operations	
9,300.0	9,220.0	9,500.5	9,220.0	28.9	38.2	-49.76	-641.0	412.3	168.2	105.4	62.81	2.678 Norma	al Operations	
9,400.0	9,320.0	9,600.5	9,320.0	29.0	38.3	-49.76	-641.0	412.3	168.2	105.4	62.86	2.676 Norma	al Operations	
9,500.0	9,420.0	9,700.5	9,420.0	29.0	38.3	-49.76	-641.0	412.3	168.2	105.3	62.90	2.674 Norma	al Operations	
9,600.0	9,520.0	9,800.5	9,520.0	29.0	38.3	-49.76	-641.0	412.3	168.2	105.3	62.95	2.672 Norma	al Operations	
9,700.0	9,620.0	9,900.5	9,620.0	29.0	38.3	-49.76	-641.0	412.3	168.2	105.2	63.00	2.670 Norma	al Operations	
9,800.0	9,720.0	10,000.5	9,720.0	29.0	38.3	-49.76	-641.0	412.3	168.2	105.2	63.04	2.668 Norma	al Operations	
9,900.0	9,820.0	10,100.5	9,820.0	29.1	38.4	-49.76	-641.0	412.3	168.2	105.1	63.09	2.666 Norma	al Operations	
0,000.0	9,920.0	10,200.5	9,920.0	29.1	38.4	-49.76	-641.0	412.3	168.2	105.1	63.14	2.664 Norma	al Operations	
0,100.0	10,020.0	10,300.5	10,020.0	29.1	38.4	-49.76	-641.0	412.3	168.2	105.0	63.19	2.662 Norma	al Operations	
0,200.0	10,120.0	10,400.4	10,120.0	29.1	38.4	-49.76	-641.0	412.3	168.2	105.0	63.24	2.660 Norma	al Operations	
0,207.0	10,127.0	10,407.4	10,127.0	29.1	38.4	-49.76	-641.0	412.3	168.2	105.0	63.24	2.660 Norma	al Operations	
0,250.0	10,170.0	10,458.1	10,177.7	29.1	38.4	-50.36	-642.3	412.3	166.6	102.7	63.85	2.609 Norma	al Operations	
0,300.0	10,219.6	10,519.5	10,238.4	29.0	38.5	-55.37	-650.6	412.4	158.7	93.8	64.97	2.443 Cautio	on - Monitor Closely	
0,350.0	10,268.6	10,573.7	10,290.8	28.8	38.5	-64.53	-664.3	412.5	146.5	80.8	65.75	2.229 Cautio	on - Monitor Closely	
0,400.0	10,316.4	10,618.7	10,333.0	28.7	38.6	-76.57	-680.2	412.6	134.2	69.0	65.25	2.057 Cautio	on - Monitor Closely, SF	
0,450.0	10,362.8	10,654.4	10,365.1	28.5	38.6	-88.72	-695.6	412.7	127.7	65.8	61.90	2.063 Cautio	on - Monitor Closely, ES	
0,456.1	10,368.4	10,658.1	10,368.4	28.5	38.6	-90.05	-697.3	412.7	127.6	66.4	61.24	2.084 Cautio	on - Monitor Closely, CC	;
0,500.0	10,407.4	10,681.4	10,388.7	28.4	38.6	-98.18	-708.8	412.8	132.8	77.4	55.38	2.398 Cautio	on - Monitor Closely	
0,550.0	10,449.9	10,700.0	10,404.5	28.2	38.6	-103.39	-718.7	412.9	151.5	102.8	48.65	3.113		
0,600.0	10,489.9	10,714.4	10,416.4	28.0	38.6	-105.45	-726.7	413.0	181.3	136.7	44.57	4.068		
0,650.0	10,527.2	10,725.0	10,425.0	27.9	38.6	-104.33	-732.9	413.0	218.7	175.6	43.00	5.084		
0,700.0	10,561.4	10,725.0	10,425.0	27.7	38.6	-96.74	-732.9	413.0	260.5	217.8	42.70	6.101		
0,750.0	10,592.3	10,725.0	10,425.0	27.6	38.6	-86.89	-732.9	413.0	305.1	262.1	43.04	7.089		
0,800.0	10,619.7	10,725.0	10,425.0	27.5	38.6	-75.40	-732.9	413.0	351.0	307.4	43.60	8.051		
0,850.0	10,643.3	10,725.0	10,425.0	27.4	38.6	-63.49	-732.9	413.0	397.6	353.4	44.21	8.993		
0,900.0	10,663.0	10,716.7	10,418.3	27.3	38.6	-50.29	-728.0	413.0	444.1	399.3	44.76	9.921		
0,950.0	10,678.6	10,709.4	10,412.3	27.2	38.6	-40.28	-723.9	413.0	490.2	444.9	45.29	10.824		
1,000.0	10,690.0	10,700.0	10,404.5	27.2	38.6	-32.55	-718.7	412.9	535.6	489.8	45.77	11.701		
1,050.0	10,697.1	10,691.1	10,397.0	27.2	38.6	-26.93	-713.9	412.9	579.9	533.6	46.21	12.549		
11,100.0	10,699.9	10,675.0	10,383.2	27.2	38.6	-22.35	-705.5	412.8	622.9	576.3	46.60	13.367		
11,107.0	10,700.0	10,675.0	10,383.2	27.2	38.6	-21.94	-705.5	412.8	628.8	582.2	46.65	13.479		
11,200.0	10,700.0	10,659.7	10,369.8	27.2	38.6	-21.13	-698.1	412.8	708.3	661.0	47.28	14.983		
1,300.0	10,700.0	10,641.8	10,353.9	27.3	38.6	-20.24	-689.9	412.7	796.0	748.1	47.83	16.641		
1,400.0	10,700.0	10,625.0	10,338.7	27.4	38.6	-19.46	-682.8	412.6	885.4	837.1	48.30	18.333		
11,500.0	10,700.0	10.612.6	10,327.3	27.4	38.6	-18.91	-677.9	412.6	976.3	927.6	48.67	20.058		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

PWP0

GL @ 2940.0usft TVD Reference: GL @ 2940.0usft MD Reference:

Site Error: 0.0 usft North Reference: _WILD THING FED COM 902H

Grid

Reference Well: Well Error: 3.0 usft

Minimum Curvature **Survey Calculation Method:**

Reference Wellbore OWB

Reference Design:

Output errors are at 2.00 sigma

Database:

EDT 17 Permian Prod

Offset TVD Reference:

Reference Datum

Offset Des	ngii.			JECT - PL	JUGE FEI	JERAL CON	1 903H - OWB	- 20020					Offset Site Error:	0.0 usf
Survey Progra Refer		r.5 MWD+IFR1 Offs		Semi I	Major Axis		Offset Wellbe	ore Centre	Dist	Rule Assig	gned:		Offset Well Error:	0.0 usf
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
6,800.0	6,720.2	7,021.6	6,901.4	27.3	29.0	127.71	-713.9	-442.0	993.2	943.9	49.36	20.122		
6,900.0	6,820.1	7,120.4	6,998.3	27.6	29.5	127.55	-719.3	-424.2	977.4	927.4	50.01	19.543		
7,000.0	6,920.1	7,219.0	7,095.2	27.9	30.0	127.34	-724.6	-406.4	961.0	910.4	50.64	18.978		
7,100.0	7,020.1	7,317.5	7,191.9	28.2	30.4	127.07	-730.0	-388.6	944.1	892.9	51.24	18.426		
7,200.0	7,120.0	7,415.9	7,288.6	28.4	30.9	126.76	-735.3	-370.8	926.7	874.9	51.81	17.889		
7,300.0	7,220.0	7,514.2	7,385.1	28.6	31.3	126.38	-740.7	-353.0	908.9	856.6	52.29	17.380		
7,306.5	7,226.5	7,520.5	7,391.3	28.6	31.3	-89.44	-741.0	-351.8	907.7	855.4	52.32	17.347		
7,400.0	7,320.0	7,600.0	7,469.4	28.6	31.7	-89.71	-745.2	-337.9	891.2	838.6	52.64	16.930		
7,500.0	7,420.0	7,687.4	7,555.5	28.6	32.1	-89.98	-749.5	-323.8	875.0	822.0	52.99	16.512		
7,600.0	7,520.0	7,773.7	7,640.8	28.6	32.5	-90.24	-753.3	-311.0	860.2	806.9	53.32	16.132		
7,700.0	7,620.0	7,860.3	7,726.6	28.6	32.8	-90.48	-756.8	-299.5	846.9	793.3	53.64	15.788		
7,800.0	7,720.0	7,947.4	7,813.0	28.6	33.2	-90.70	-759.9	-289.1	835.1	781.1	53.95	15.478		
7,900.0	7,820.0	8,034.7	7,899.8	28.7	33.6	-90.90	-762.6	-280.0	824.7	770.4	54.25	15.203		
8,000.0	7,920.0	8,122.3	7,987.0	28.7	33.9	-91.08	-765.0	-272.1	815.7	761.2	54.53	14.960		
8,100.0 8,200.0	8,020.0 8,120.0	8,210.1 8,300.0	8,074.6 8,164.3	28.7 28.7	34.3 34.6	-91.23 -91.35	-767.0 -768.6	-265.5 -260.1	808.3 802.2	753.5 747.2	54.79 55.06	14.751 14.570		
0.200.0	0 220 0	0.206.4	0.050.5	20.7	24.0	01.44	760.9	256.4	707.7	740.4	EE 07	44.400		
8,300.0	8,220.0	8,386.4	8,250.5	28.7	34.9	-91.44	-769.8	-256.1	797.7	742.4	55.27	14.433		
8,400.0	8,320.0 8,420.0	8,474.7	8,338.8	28.8	35.1 35.4	-91.51	-770.6 -771.1	-253.4	794.6 793.0	739.1	55.46	14.326 14.259		
8,500.0 8,585.4	8,505.4	8,563.0 8,641.3	8,427.1 8,505.4	28.8 28.8	35.4	-91.54 -91.55	-771.1 -771.1	-251.9 -251.7	793.0	737.4 737.0	55.61 55.67	14.239		
8,600.0	8,520.0	8,655.9	8,520.0	28.8	35.5	-91.55	-771.1 -771.1	-251.7	792.7	737.0	55.68	14.237		
8,700.0	8,620.0	8,755.9	8,620.0	28.8	35.5	-91.55	-771.1	-251.7	792.7	737.0	55.72	14.227		
8,800.0	8,720.0	8,855.9	8,720.0	28.8	35.5	-91.55	-771.1	-251.7	792.7	736.9	55.76	14.217		
8,900.0	8,820.0	8,955.9	8,820.0	28.9	35.5	-91.55	-771.1	-251.7	792.7	736.9	55.80	14.206		
9,000.0	8,920.0	9,055.9	8,920.0	28.9	35.5	-91.55	-771.1	-251.7	792.7	736.9	55.84	14.196		
9,100.0	9,020.0	9,155.9	9,020.0	28.9	35.6	-91.55	-771.1	-251.7	792.7	736.8	55.88	14.185		
9,200.0	9,120.0	9,255.9	9,120.0	28.9	35.6	-91.55	-771.1	-251.7	792.7	736.8	55.93	14.174		
9,300.0	9,220.0	9,355.9	9,220.0	28.9	35.6	-91.55	-771.1	-251.7	792.7	736.7	55.97	14.163		
9,400.0	9,320.0	9,455.9	9,320.0	29.0	35.6	-91.55	-771.1	-251.7	792.7	736.7	56.01	14.152		
9,500.0 9,600.0	9,420.0 9,520.0	9,555.9 9,655.9	9,420.0 9,520.0	29.0 29.0	35.6 35.7	-91.55 -91.55	-771.1 -771.1	-251.7 -251.7	792.7 792.7	736.6 736.6	56.06 56.10	14.141 14.130		
9,700.0	9,620.0	9,755.9	9,620.0	29.0	35.7	-91.55 01.55	-771.1	-251.7	792.7	736.6	56.14	14.119		
9,800.0 9,900.0	9,720.0 9,820.0	9,855.9 9,955.9	9,720.0 9,820.0	29.0 29.1	35.7 35.7	-91.55 -91.55	-771.1 -771.1	-251.7 -251.7	792.7 792.7	736.5 736.5	56.19 56.23	14.108 14.096		
10,000.0	9,820.0	10,055.9	9,820.0	29.1	35.7 35.7	-91.55 -91.55	-771.1 -771.1	-251.7 -251.7	792.7 792.7	736.5	56.28	14.096		
10,100.0	10,020.0	10,155.9	10,020.0	29.1	35.8	-91.55 -91.55	-771.1 -771.1	-251.7 -251.7	792.7	736.4	56.33	14.073		
10,200.0	10,120.0	10,255.9	10,120.0	29.1	35.8	-91.55	-771.1	-251.7	792.7	736.3	56.38	14.061		
10,207.0	10,127.0	10,262.9	10,127.0	29.1	35.8	-91.55	-771.1	-251.7	792.7	736.3	56.38	14.060 CC,	ES, SF	
10,250.0	10,170.0	10,305.9	10,170.0	29.1	35.8	-91.29	-771.1	-251.7	792.7	736.4	56.35	14.068		
10,300.0	10,219.6	10,355.5	10,219.6	29.0	35.8	-91.70	-771.1	-251.7	792.9	736.7	56.21	14.105		
10,350.0	10,268.6	10,404.5	10,268.6	28.8	35.8	-92.38	-771.1	-251.7	793.3	737.3	55.96	14.174		
10,400.0	10,316.4	10,452.3	10,316.4	28.7	35.8	-93.30	-771.1	-251.7	794.0	738.4	55.60	14.281		
10,450.0	10,362.8	10,498.7	10,362.8	28.5	35.8	-94.41	-771.1	-251.7	795.4	740.2	55.12	14.429		
10,500.0	10,407.4	10,539.5	10,403.6	28.4	35.8	-95.52	-771.6	-251.7	797.6	743.2	54.47	14.644		
10,550.0 10,600.0	10,449.9 10,489.9	10,575.0 10,600.0	10,439.0 10,463.7	28.2 28.0	35.9 35.9	-96.64 -97.30	-774.4 -777.9	-251.7 -251.7	801.5 807.5	747.9 755.0	53.59 52.49	14.957 15.385		
10,650.0	10,527.2	10,625.0	10,488.2	27.9	36.0	-97.86	-782.8	-251.6	816.1	764.8	51.27	15.919		
10,700.0	10,561.4	10,639.3	10,502.2	27.7	36.0	-97.58	-786.1	-251.6	827.5	777.6	49.94	16.572		
10,750.0	10,592.3	10,650.0	10,512.5	27.6	36.0	-96.78	-788.9	-251.6	841.9	793.4	48.57	17.336		
10,800.0	10,619.7	10,660.7	10,522.8	27.5	36.0	-95.68	-791.9	-251.6	859.3	812.0	47.20	18.203		
10,850.0	10,643.3	10,666.1	10,528.0	27.4	36.0	-93.86	-793.5	-251.6	879.4	833.5	45.89	19.163		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

TVD Reference: GL @ 2940.0usft GL @ 2940.0usft MD Reference:

North Reference: Grid

0.0 usft _WILD THING FED COM 902H Reference Well:

PWP0

Minimum Curvature **Survey Calculation Method:**

Well Error: 3.0 usft Reference Wellbore OWB

Site Error:

Reference Design:

Output errors are at 2.00 sigma

EDT 17 Permian Prod Database: Offset TVD Reference: Reference Datum

Offset Des	sign: PU	DGE FED	COM PRO	JECT - PL	JDGE FED	DERAL COM	и 903H - OWB	- PWP0					Offset Site Error:	0.0 usft
Survey Progra Refer		r.5 MWD+IFR1 Offs Measured		Semi I	Major Axis Offset	Highside	Offset Wellb	ore Centre	Dis Between	Rule Assiç tance Between	gned: No-Go	Separation	Offset Well Error: Warning	0.0 usft
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Distance (usft)	Factor	warning	
10,900.0	10,663.0	10,668.7	10,530.4	27.3	36.0	-91.50	-794.3	-251.6	902.1	857.4	44.66	20.200		
10,950.0	10,678.6	10,675.0	10,536.4	27.2	36.0	-89.09	-796.3	-251.5	927.0	883.5	43.52	21.302		
11,000.0	10,690.0	10,666.9	10,528.6	27.2	36.0	-85.33	-793.7	-251.6	953.8	911.2	42.52	22.429		
11,050.0	10,697.1	10,663.1	10,525.1	27.2	36.0	-81.66	-792.6	-251.6	982.1	940.4	41.64	23.582		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: Reference Site: WILD THING PROJECT

0.0 usft

_WILD THING FED COM 902H

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

North Reference: Grid

Survey Calculation Method:

Minimum Curvature

Output errors are at

2.00 sigma

3.0 usft OWB Reference Wellbore PWP0 Reference Design:

Site Error:

Well Error:

Reference Well:

EDT 17 Permian Prod Database: Reference Datum Offset TVD Reference:

uniou Bro	am: Or	.5 MWD+IFR1	+MS							Rule Assi	anod:		Offset Site Error: Offset Well Error:	3.0 us
ırvey Progr Refe		Off		Semi I	Major Axis		Offset Wellb	ore Centre	Dis	tance	gnea:		Offset Well Error:	3.0 u
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	3.0	0.0	3.0	3.0	-47.52	273.2	-298.4	404.6	398.2	6.43	62.937		
100.0	100.0	103.0	100.0	3.2	3.2	-47.52	273.2	-298.4	404.6	397.7	6.90	58.659		
200.0	200.0	203.0	200.0	3.5	3.5	-47.52	273.2	-298.4	404.6	397.3	7.33	55.172		
300.0	300.0	303.0	300.0	3.7	3.7	-47.52	273.2	-298.4	404.6	396.9	7.75	52.230		
400.0	400.0	403.0	400.0	3.9	3.9	-47.52	273.2	-298.4	404.6	396.5	8.14	49.702		
500.0	500.0	503.0	500.0	4.1	4.1	-47.52	273.2	-298.4	404.6	396.1	8.52	47.498		
000.0	000.0	000.0	000.0	7.1	4.1	47.02	270.2	-230.4	404.0	330.1	0.52	47.430		
600.0	600.0	603.0	600.0	4.2	4.2	-47.52	273.2	-298.4	404.6	395.7	8.88	45.552		
700.0	700.0	703.0	700.0	4.4	4.4	-47.52	273.2	-298.4	404.6	395.4	9.23	43.817		
800.0	800.0	803.0	800.0	4.6	4.6	-47.52	273.2	-298.4	404.6	395.1	9.58	42.257		
900.0	900.0	903.0	900.0	4.8	4.8	-47.52	273.2	-298.4	404.6	394.7	9.91	40.844	2	
1,000.0	1,000.0	1,003.0	1,000.0	4.9	4.9	-47.52	273.2	-298.4	404.6	394.4	10.23	39.555 CC, E	5	
1,100.0	1,100.0	1,103.0	1,100.0	5.1	5.1	168.31	273.2	-298.4	405.9	395.3	10.57	38.397		
1,200.0	1,199.9	1,202.9	1,199.9	5.3	5.2	168.41	273.2	-298.4	409.8	398.8	10.91	37.567		
1,300.0	1,299.7	1,302.7	1,299.7	5.5	5.4	168.57	273.2	-298.4	416.2	404.9	11.26	36.968		
1,400.0	1,399.3	1,402.3	1,399.3	5.7	5.5	168.79	273.2	-298.4	425.1	413.5	11.63	36.569		
1,500.0	1,498.6	1,501.8	1,498.8	6.0	5.7	169.06	273.2	-298.4	436.7	424.7	12.01	36.346		
4 000 0	4 507 5	4 040 0	4 040 0			100.00	074.0	007.0	440.0	400.0	10.10	05.057		
1,600.0	1,597.5	1,616.0	1,612.9	6.3	5.9	169.26	271.0	-297.8	449.0	436.6	12.49	35.957		
1,700.0	1,696.1	1,730.7	1,727.5	6.5	6.2	169.22	264.3	-296.1	460.6	447.6	12.97	35.509		
1,733.3	1,728.8	1,769.1	1,765.7	6.6	6.3	169.16	261.0	-295.3	464.3	451.2	13.10	35.431		
1,800.0	1,794.3	1,846.1	1,842.2	6.8	6.4	168.96	253.0	-293.2	470.8	457.4	13.40	35.137		
1,900.0	1,892.4	1,961.9	1,956.9	7.1	6.7	168.42	237.2	-289.2	477.7	463.8	13.91	34.339		
2,000.0	1,990.6	2,071.4	2,064.7	7.4	7.0	167.66	218.5	-284.4	481.6	467.2	14.38	33.491		
2,100.0	2,088.8	2,171.2	2,162.8	7.8	7.2	166.93	200.7	-279.8	485.0	470.1	14.90	32.552		
2,200.0	2,186.9	2,270.9	2,260.8	8.1	7.4	166.21	182.8	-275.3	488.4	472.9	15.45	31.610		
2,300.0	2,285.1	2,370.7	2,358.8	8.5	7.7	165.50	165.0	-270.7	491.9	475.9	16.02	30.698		
2,400.0	2,383.3	2,470.5	2,456.9	8.8	8.0	164.81	147.2	-266.2	495.5	478.8	16.61	29.824		
2,500.0	2,481.4	2,570.2	2,554.9	9.2	8.3	164.12	129.4	-261.6	499.1	481.9	17.22	28.991		
2,600.0	2,579.6	2,670.0	2,653.0	9.6	8.6	163.44	111.5	-257.0	502.8	485.0	17.83	28.201		
2,700.0	2,677.7	2,769.7	2,751.0	10.0	9.0	162.77	93.7	-252.5	506.6	488.1	18.45	27.455		
2,800.0	2,775.9	2,869.5	2,849.1	10.4	9.3	162.11	75.9	-247.9	510.5	491.4	19.08	26.751		
2,900.0	2,874.1	2,969.2	2,947.1	10.8	9.7	161.46	58.1	-243.3	514.4	494.7	19.72	26.088		
2,000.0	2,074.1	2,000.2	2,047.1	10.0	0.7	101.40	00.1	-240.0	314.4	404.1	13.72	20.000		
3,000.0	2,972.2	3,069.0	3,045.1	11.2	10.0	160.82	40.2	-238.8	518.4	498.0	20.36	25.465		
3,100.0	3,070.4	3,168.7	3,143.2	11.6	10.4	160.20	22.4	-234.2	522.4	501.4	21.00	24.881		
3,200.0	3,168.6	3,268.5	3,241.2	12.0	10.4	159.58	4.6	-229.7	526.5	504.9	21.64	24.332		
3,300.0	3,266.7		3,339.3		11.2	158.97	-13.2	-229.7 -225.1	530.7	504.9	22.28	23.817		
		3,368.2		12.5										
3,400.0	3,364.9	3,468.0	3,437.3	12.9	11.5	158.37	-31.1	-220.5	534.9	512.0	22.92	23.335		
3,500.0	3,463.0	3,567.8	3,535.4	13.3	11.9	157.78	-48.9	-216.0	539.2	515.6	23.57	22.882		
3,600.0	3,561.2	3,667.5	3,633.4	13.7	12.3	157.20	-66.7	-211.4	543.5	519.3	24.20	22.456		
3,700.0	3,659.4	3,767.3	3,731.4	14.2	12.7	156.62	-84.5	-206.8	547.9	523.1	24.84	22.057		
3,800.0	3,757.5	3,867.0	3,829.5	14.6	13.1	156.06	-102.3	-202.3	552.4	526.9	25.48	21.682		
3,900.0	3,855.7	3,966.8	3,927.5	15.0	13.6	155.51	-120.2	-197.7	556.9	530.8	26.11	21.330		
4.00	0.6== -		4.6			45.55					c ·	00.000		
4,000.0	3,953.9	4,066.5	4,025.6	15.5	14.0	154.96	-138.0	-193.1	561.5	534.7	26.74	20.999		
4,100.0	4,052.0	4,166.3	4,123.6	15.9	14.4	154.43	-155.8	-188.6	566.1	538.7	27.36	20.688		
4,200.0	4,150.2	4,266.0	4,221.7	16.4	14.8	153.90	-173.6	-184.0	570.7	542.7	27.98	20.395		
4,300.0	4,248.3	4,365.8	4,319.7	16.8	15.2	153.38	-191.5	-179.5	575.4	546.8	28.60	20.119		
4,400.0	4,346.5	4,465.5	4,417.7	17.3	15.7	152.87	-209.3	-174.9	580.2	551.0	29.21	19.860		
4,500.0	4,444.7	4,565.3	4,515.8	17.7	16.1	152.37	-227.1	-170.3	585.0	555.2	29.82	19.615		
4,600.0	4,542.8	4,665.0	4,613.8	18.1	16.5	151.87	-244.9	-165.8	589.8	559.4	30.43	19.384		
4 700 0	4 6 4 1 0	17610	1 711 0	10.6	16.0	151 20	262.0	161.2	504.7	562.7	21.02	10 167		

-161.2

-156.6

-152.1

594.7

599.6

604.6

563.7

568.0

572.4

31.03

31.62

32.22

19.167

18.961

18.767

-262.8

-280.6

-298.4

4,764.8

4,864.6

4,964.3

4,711.9

4,809.9

4,908.0

18.6

19.0

19.5

16.9

17.4

17.8

151.39

150.91

150.44

4,700.0

4,800.0

4,900.0

4,641.0

4,739.2

4,837.3

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: Reference Site: WILD THING PROJECT

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

Site Error: 0.0 usft North Reference: Grid

_WILD THING FED COM 902H Reference Well:

Minimum Curvature **Survey Calculation Method:**

Well Error: 3.0 usft OWB Reference Wellbore

Output errors are at 2.00 sigma

EDT 17 Permian Prod

Database:

Reference Datum

PWP0 Reference Design: Offset TVD Reference:

vey Prog		.5 MWD+IFR1	+MS							Rule Assi	anadı.		Offset Site Error: Offset Well Error:	0.0 us 3.0 us
Refe	rence	Offs	set		Major Axis		Offset Wellb	ore Centre		tance	=			3.0 us
easured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	No-Go Distance	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
5,000.0	4,935.5	5,064.1	5,006.0	19.9	18.2	149.98	-316.2	-147.5	609.6	576.8	32.80	18.584		
5,100.0	5,033.6	5,163.8	5,104.0	20.4	18.7	149.52	-334.1	-143.0	614.6	581.2	33.39	18.409		
5,106.5	5,040.0	5,170.3	5,110.4	20.4	18.7	149.49	-335.2	-142.7	615.0	581.5	33.43	18.398		
5,200.0	5,131.9	5,263.6	5,202.1	20.8	19.1	149.07	-351.9	-138.4	619.4	585.4	33.96	18.241		
5,300.0	5,230.3	5,363.4	5,300.1	21.3	19.5	148.58	-369.7	-133.8	623.4	588.9	34.50	18.068		
5,400.0	5,328.8	5,463.1	5,398.2	21.7	20.0	148.05	-387.5	-129.3	626.8	591.8	35.03	17.893		
5,500.0	5,427.5	5,562.9	5,496.3	22.2	20.4	147.49	-405.4	-124.7	629.5	594.0	35.53	17.717		
5,600.0	5,526.3	5,662.6	5,594.3	22.6	20.9	146.88	-423.2	-120.1	631.5	595.5	36.00	17.540		
5,700.0	5,625.3	5,762.4	5,692.3	23.0	21.3	146.24	-441.0	-115.6	632.9	596.4	36.45	17.364		
5,800.0	5,724.4	5,862.1	5,790.3	23.4	21.8	145.55	-458.8	-111.0	633.6	596.7	36.86	17.189		
5,900.0	5,823.6	5,961.7	5,888.3	23.9	22.2	144.81	-476.6	-106.5	633.7	596.4	37.24	17.017		
6,000.0	5,922.9	6,061.4	5,986.2	24.3	22.6	144.03	-494.4	-101.9	633.2	595.6	37.58	16.850		
6,100.0	6,022.3	6,160.9	6,084.1	24.7	23.1	143.20	-512.2	-97.3	632.1	594.2	37.88	16.687		
6,200.0	6,121.8	6,260.5	6,181.9	25.1	23.5	142.32	-530.0	-92.8	630.4	592.3	38.14	16.530		
6,300.0	6,221.3	6,359.9	6,279.6	25.5	24.0	141.38	-547.8	-88.2	628.3	589.9	38.35	16.382		
6,400.0	6,321.0	6,459.3	6,377.3	25.8	24.4	140.39	-565.5	-83.7	625.6	587.1	38.52	16.242		
6,500.0	6,420.7	6,558.6	6,474.9	26.2	24.9	139.33	-583.3	-79.2	622.4	583.8	38.63	16.113		
6,600.0	6,520.5	6,657.8	6,572.4	26.6	25.3	138.21	-601.0	-74.6	618.8	580.2	38.69	15.996		
6,700.0	6,620.3	6,756.9	6,669.8	26.9	25.8	137.03	-618.7	-70.1	614.9	576.2	38.69	15.894		
6,800.0	6,720.2	6,854.7	6,765.9	27.3	26.2	135.79	-636.1	-65.6	610.5	571.9	38.61	15.813		
6,900.0	6,820.1	6,949.7	6,859.5	27.6	26.6	134.61	-651.9	-61.6	606.4	567.9	38.51	15.746		
7,000.0	6,920.1	7,045.0	6,953.6	27.9	27.0	133.50	-666.3	-57.9	602.5	564.1	38.41	15.688		
7,100.0	7,020.1	7,140.6	7,048.3	28.2	27.4	132.46	-679.2	-54.6	598.9	560.6	38.30	15.638		
7,200.0	7,120.0	7,236.4	7,143.4	28.4	27.8	131.48	-690.5	-51.7	595.5	557.3	38.18	15.597		
7,300.0	7,220.0	7,332.6	7,239.0	28.6	28.2	130.58	-700.4	-49.2	592.2	554.3	37.99	15.590		
7,306.5	7,226.5	7,338.8	7,245.2	28.6	28.2	-85.27	-701.0	-49.0	592.0	554.1	37.98	15.589		
7,400.0	7,320.0	7,429.0	7,335.0	28.6	28.6	-86.01	-708.7	-47.1	589.4	551.6	37.75	15.611		
7,500.0	7,420.0	7,525.6	7,431.5	28.6	28.9	-86.65	-715.4	-45.3	587.1	549.6	37.57	15.626		
7,600.0	7,520.0	7,622.5	7,528.2	28.6	29.3	-87.15	-720.6	-44.0	585.5	548.0	37.45	15.632		
7,700.0	7,620.0	7,719.5	7,625.1	28.6	29.6	-87.50	-724.3	-43.1	584.3	546.9	37.40	15.626		
7,800.0	7,720.0	7,816.7	7,722.2	28.6	29.8	-87.70	-726.3	-42.5	583.7	546.3	37.39	15.610		
7,900.0	7,820.0	7,914.5	7,820.0	28.7	29.9	-87.75	-726.8	-42.4	583.6	546.2	37.41	15.598		
7,910.0	7,830.0	7,924.5	7,830.0	28.7	29.9	-87.75	-726.8	-42.4	583.6	546.2	37.42	15.596		
8,000.0	7,920.0	8,011.6	7,917.0	28.7	29.8	-87.46	-723.8	-42.4	583.7	546.2	37.54	15.551		
8,100.0	8,020.0	8,103.8	8,007.6	28.7	29.5	-85.83	-707.1	-42.5	584.9	546.8	38.17	15.323		
8,200.0	8,120.0	8,188.7	8,087.7	28.7	29.2	-83.10	-679.1	-42.7	588.6	549.4	39.17	15.027		
8,300.0	8,220.0	8,264.0	8,154.6	28.7	28.9	-79.79	-644.6	-42.9	596.6	556.4	40.20	14.841 SF		
8,400.0	8,320.0	8,329.0	8,208.3	28.8	28.6	-76.36	-608.0	-43.2	611.1	570.2	40.97	14.916		
8,500.0	8,420.0	8,384.4	8,250.5	28.8	28.4	-73.09	-572.1	-43.4	633.6	592.3	41.29	15.346		
8,600.0	8,520.0	8,431.4	8,283.4	28.8	28.3	-70.15	-538.7	-43.6	664.8	623.7	41.11	16.170		
8,700.0	8,620.0	8,471.1	8,309.1	28.8	28.1	-67.56	-508.4	-43.8	704.7	664.1	40.53	17.387		
8,800.0	8,720.0	8,500.0	8,326.4	28.8	28.0	-65.66	-485.2	-43.9	752.8	713.3	39.53	19.045		
8,900.0	8,820.0	8,533.9	8,345.1	28.9	27.9	-63.42	-457.1	-44.1	808.2	769.5	38.74	20.863		
9,000.0	8,920.0	8,550.0	8,353.5	28.9	27.9	-62.35	-443.2	-44.2	870.1	832.5	37.56	23.161		
9,100.0	9,020.0	8,580.3	8,368.1	28.9	27.8	-60.35	-416.7	-44.4	937.1	900.2	36.93	25.376		

Anticollision Report

Company: DELAWARE BASIN WEST

LAWARE BASIN WEST Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

Project: ATLAS PROSPECT (DBW)
Reference Site: WILD THING PROJECT

PWP0

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

Site Error: 0.0 usft

North Reference: Grid

Reference Well: __WILD THING FED COM 902H
Well Error: 3.0 usft

Reference Design:

Survey Calculation Method: Minimum Curvature

Well Error: 3.0 usft
Reference Wellbore OWB

Output errors are at 2.00 sigma

Database: EDT 17 Permian Prod
Offset TVD Reference: Reference Datum

Depth (usft) 0.0 100.0 200.0	ence Vertical Depth	.5 MWD+IFR1 Off								Rule Assig			Offset Well Error:	
Depth (usft) 0.0 100.0 200.0	Depth		set	Semi I	Major Axis		Offset Wellb	ore Centre	Dist	ance	grieu.			3.0 u
0.0 100.0 200.0		Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	No-Go Distance	Separation Factor	Warning	
100.0 200.0	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
200.0	0.0	2.0	0.0	3.0	3.0	-51.67	254.4	-321.8	410.2	403.8	6.43	63.803		
	100.0	102.0	100.0	3.2	3.2	-51.67	254.4	-321.8	410.2	403.3	6.90	59.482		
	200.0	202.0	200.0	3.5	3.5	-51.67	254.4	-321.8	410.2	402.9	7.33	55.945		
300.0	300.0	302.0	300.0	3.7	3.7	-51.67	254.4	-321.8	410.2	402.4	7.75	52.962		
400.0	400.0	402.0	400.0	3.9	3.9	-51.67	254.4	-321.8	410.2	402.1	8.14	50.397		
500.0	500.0	502.0	500.0	4.1	4.1	-51.67	254.4	-321.8	410.2	401.7	8.52	48.161		
600.0	600.0	602.0	600.0	4.2	4.2	-51.67	254.4	-321.8	410.2	401.3	8.88	46.187		
700.0	700.0	702.0	700.0	4.4	4.4	-51.67	254.4	-321.8	410.2	401.0	9.23	44.428		
800.0	800.0	802.0	800.0	4.6	4.6	-51.67	254.4	-321.8	410.2	400.6	9.57	42.845		
900.0	900.0	902.0	900.0	4.8	4.8	-51.67	254.4	-321.8	410.2	400.3	9.91	41.412		
966.0	966.0	968.0	966.0	4.9	4.9	-51.67	254.4	-321.8	410.2	400.1	10.12	40.543 CC		
1,000.0	1,000.0	1,002.0	1,000.0	4.9	4.9	-51.67	254.4	-321.8	410.2	400.0	10.23	40.105 ES		
1,100.0	1,100.0	1,101.8	1,099.8	5.1	5.1	163.99	253.4	-322.6	411.5	400.9	10.56	38.981		
1,200.0	1,199.9	1,201.5	1,199.4	5.3	5.3	163.57	250.3	-325.1	415.3	404.4	10.87	38.221		
1,300.0	1,299.7	1,300.9	1,298.6	5.5	5.5	162.91	245.2	-329.2	421.7	410.6	11.19	37.688		
1,400.0	1,399.3	1,400.0	1,397.3	5.7	5.7	162.01	238.1	-334.9	430.8	419.3	11.53	37.361		
1,500.0	1,498.6	1,498.2	1,494.8	6.0	6.0	160.92	229.2	-342.2	442.6	430.8	11.89	37.224 SF		
1,600.0	1,597.5	1,595.8	1,591.4	6.3	6.2	159.66	218.4	-342.2	457.2	445.0	12.27	37.265		
1,700.0	1,696.1	1,692.6	1,686.8	6.5	6.5	158.27	205.7	-361.2	474.7	462.0	12.27	37.473		
1,733.3	1,728.8	1,724.6	1,718.3	6.6	6.6	157.79	201.2	-364.9	481.1	468.4	12.07	37.473		
1,800.0	1,794.3	1,788.4	1,780.9	6.8	6.8	156.85	191.4	-372.8	494.5	481.5	13.00	38.040		
1,900.0	1,892.4	1,883.5	1,873.7	7.1	7.2	155.32	175.4	-385.8	515.1	501.7	13.40	38.435		
2,000.0	1,990.6	1,978.9	1,966.3	7.4	7.4	153.67	157.7	-400.1	536.5	522.7	13.77	38.947		
2,100.0	2,088.8	2,075.4	2,059.9	7.8	7.8	152.10	139.5	-414.8	558.3	544.1	14.20	39.311		
2,200.0 2,300.0	2,186.9 2,285.1	2,171.8 2,268.3	2,153.5 2,247.1	8.1 8.5	8.1 8.5	150.65 149.30	121.4 103.3	-429.5 -444.2	580.5 603.1	565.9 588.0	14.65 15.12	39.618 39.896		
2,000.0	2,200.1	2,200.0	_,	0.0	0.0	110.00	100.0	-444.2	000.1	000.0	10.12	00.000		
2,400.0	2,383.3	2,364.7	2,340.7	8.8	8.8	148.05	85.1	-458.8	625.9	610.3	15.59	40.148		
2,500.0	2,481.4	2,461.2	2,434.2	9.2	9.2	146.88	67.0	-473.5	649.0	633.0	16.08	40.375		
2,600.0	2,579.6	2,557.6	2,527.8	9.6	9.6	145.80	48.9	-488.2	672.4	655.8	16.57	40.579		
2,700.0	2,677.7	2,654.1	2,621.4	10.0	10.0	144.79	30.7	-502.9	696.0	678.9	17.07	40.764		
2,800.0	2,775.9	2,750.6	2,715.0	10.4	10.4	143.84	12.6	-517.6	719.7	702.1	17.58	40.929		
2,900.0	2,874.1	2,847.0	2,808.6	10.8	10.8	142.95	-5.5	-532.3	743.7	725.6	18.10	41.078		
3,000.0	2,972.2	2,943.5	2,902.2	11.2	11.2	142.12	-23.7	-547.0	767.8	749.1	18.63	41.212		
3,100.0	3,070.4	3,039.9	2,995.8	11.6	11.6	141.33	-41.8	-561.6	792.0	772.9	19.16	41.332		
3,200.0	3,168.6	3,136.4	3,089.4	12.0	12.0	140.60	-60.0	-576.3	816.4	796.7	19.70	41.440		
3,300.0	3,266.7	3,232.8	3,183.0	12.5	12.5	139.90	-78.1	-591.0	840.9	820.7	20.25	41.536		
3,400.0	3,364.9	3,329.3	3,276.6	12.9	12.9	139.25	-96.2	-605.7	865.5	844.7	20.79	41.622		
3,500.0	3,463.0	3,425.8	3,370.2	13.3	13.3	138.63	-114.4	-620.4	890.2	868.9	21.35	41.699		
3,600.0	3,561.2	3,522.2	3,463.8	13.7	13.8	138.04	-132.5	-635.1	915.0	893.1	21.91	41.767		
3,700.0	3,659.4	3,618.7	3,557.4	14.2	14.2	137.49	-150.6	-649.8	939.9	917.5	22.47	41.829		
3,800.0	3,757.5	3,715.1	3,650.9	14.6	14.6	136.96	-168.8	-664.4	964.9	941.9	23.04	41.883		
3,900.0	3,855.7	3,811.6	3,744.5	15.0	15.1	136.46	-186.9	-679.1	989.9	966.3	23.61	41.931		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

GL @ 2940.0usft TVD Reference: GL @ 2940.0usft MD Reference:

North Reference:

Grid Minimum Curvature

0.0 usft _WILD THING FED COM 902H 3.0 usft

Survey Calculation Method:

Reference Wellbore OWB PWP0 Reference Design:

Site Error:

Well Error:

Reference Well:

Output errors are at Database:

2.00 sigma EDT 17 Permian Prod

Offset TVD Reference: Reference Datum

vey Progr	am: 0-ı	:5 MWD+IFR1	+MS							Rule Assi	aned:		Offset Well Error:	3.0 u
Refer	ence	Offs	set		Major Axis		Offset Wellb	ore Centre		tance	-			
easured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	5.0	0.0	3.0	3.0	-30.62	174.0	-103.0	202.2	195.8	6.43	31.447		
100.0	100.0	105.0	100.0	3.2	3.2	-30.62	174.0	-103.0	202.2	195.3	6.90	29.295		
200.0	200.0	205.0	200.0	3.5	3.5	-30.62	174.0	-103.0	202.2	193.3	7.34	27.554		
	300.0	305.0	300.0	3.7	3.7			-103.0	202.2	194.9	7.75			
300.0						-30.62	174.0					26.086		
400.0	400.0	405.0	400.0	3.9	3.9	-30.62	174.0	-103.0	202.2	194.0	8.14	24.825		
500.0	500.0	505.0	500.0	4.1	4.1	-30.62	174.0	-103.0	202.2	193.7	8.52	23.724		
600.0	600.0	605.0	600.0	4.2	4.2	-30.62	174.0	-103.0	202.2	193.3	8.89	22.753		
700.0	700.0	705.0	700.0	4.4	4.4	-30.62	174.0	-103.0	202.2	193.0	9.24	21.887		
800.0	800.0	805.0	800.0	4.6	4.6	-30.62	174.0	-103.0	202.2	192.6	9.58	21.108		
900.0	900.0	905.0	900.0	4.8	4.8	-30.62	174.0	-103.0	202.2	192.3	9.91	20.403		
1,000.0	1,000.0	1,005.2	1,000.2	4.9	4.9	-30.62	174.0	-103.0	202.2	192.0	10.23	19.758		
1,018.2	1,018.2	1,024.1	1,019.1	5.0	5.0	-174.80	174.0	-102.9	202.2	191.9	10.29	19.638 CC		
1,100.0	1,100.0	1,109.3	1,104.3	5.1	5.1	-174.56	173.5	-101.5	202.4	191.8	10.60	19.099 ES		
1,200.0	1,199.9	1,213.4	1,208.3	5.3	5.3	-173.84	172.2	-97.3	203.1	192.2	10.95	18.554		
1,300.0	1,299.7	1,317.4	1,312.0	5.5	5.6	-172.68	169.9	-90.4	204.5	193.2	11.32	18.066		
1,400.0	1,399.3	1,421.2	1,415.4	5.7	5.8	-171.10	166.8	-80.9	206.7	195.0	11.72	17.636		
1,500.0	1,498.6	1,524.9	1,518.2	6.0	6.1	-169.13	162.9	-68.7	209.7	197.5	12.14	17.272		
1,600.0	1,597.5	1,628.3	1,620.5	6.3	6.4	-166.81	158.1	-53.9	213.7	201.1	12.58	16.985		
1,700.0	1,696.1	1,731.4	1,722.0	6.5	6.7	-164.20	152.4	-36.6	218.8	205.8	13.03	16.789		
1,733.3	1,728.8	1,765.7	1,755.6	6.6	6.8	-163.27	150.4	-30.2	220.8	207.7	13.15	16.791		
1,800.0	1,794.3	1,834.3	1,822.7	6.8	7.0	-161.32	146.0	-16.7	224.7	211.3	13.41	16.761		
4 000 0	4 000 4	4.005.0	4.004.0	7.4	7.4	450.44	400.0	5.0	200.0	040.4	40.00	40.000		
1,900.0	1,892.4	1,935.6	1,921.3 2,017.6	7.1 7.4	7.4 7.7	-158.14	138.8	5.3 27.3	229.9	216.1	13.83 14.25	16.623		
2,000.0	1,990.6	2,034.6				-155.05	131.7		235.5	221.3		16.529		
2,100.0	2,088.8	2,133.7	2,113.9	7.8	8.0	-152.12	124.5	49.3	241.7	227.1	14.65	16.498 SF		
2,200.0 2,300.0	2,186.9 2,285.1	2,232.7 2,331.8	2,210.2 2,306.5	8.1 8.5	8.4 8.8	-149.33 -146.70	117.4 110.2	71.3	248.6	233.5	15.05	16.521		
2,300.0	2,200.1	2,331.0	2,300.3	0.5	0.0	-140.70	110.2	93.3	256.0	240.6	15.43	16.594		
2,400.0	2,383.3	2,430.8	2,402.8	8.8	9.2	-144.22	103.1	115.2	263.9	248.1	15.80	16.707		
2,500.0	2,481.4	2,529.8	2,499.1	9.2	9.5	-141.89	95.9	137.2	272.3	256.1	16.16	16.855		
2,600.0	2,579.6	2,628.9	2,595.4	9.6	9.9	-139.70	88.8	159.2	281.1	264.6	16.51	17.031		
2,700.0	2,677.7	2,727.9	2,691.8	10.0	10.4	-137.64	81.7	181.2	290.3	273.5	16.85	17.230		
2,800.0	2,775.9	2,827.0	2,788.1	10.4	10.8	-135.71	74.5	203.2	299.9	282.7	17.19	17.446		
2,900.0	2,874.1	2,926.0	2,884.4	10.8	11.2	-133.90	67.4	225.2	309.7	292.2	17.52	17.677		
3,000.0	2,972.2	3,025.1	2,980.7	11.2	11.6	-132.20	60.2	247.2	319.9	302.1	17.85	17.917		
3,100.0	3,070.4	3,124.1	3,077.0	11.6	12.0	-130.61	53.1	269.2	330.3	312.1	18.19	18.164		
3,200.0	3,168.6	3,223.2	3,173.3	12.0	12.5	-129.12	45.9	291.2	341.0	322.5	18.52	18.414		
3,300.0	3,266.7	3,322.2	3,269.6	12.5	12.9	-127.71	38.8	313.2	351.9	333.0	18.85	18.666		
3,400.0	3,364.9	3,421.2	3,365.9	12.9	13.3	-126.39	31.6	335.1	363.0	343.8	19.19	18.918		
3,500.0	3,463.0	3,520.3	3,462.2	13.3	13.8	-125.15	24.5	357.1	374.2	354.7	19.52	19.167		
3,600.0	3,561.2	3,619.3	3,558.5	13.7	14.2	-123.98	17.4	379.1	385.6	365.8	19.86	19.413		
3,700.0	3,659.4	3,718.4	3,654.8	14.2	14.7	-122.88	10.2	401.1	397.2	377.0	20.21	19.655		
3,800.0	3,757.5	3,817.4	3,751.1	14.6	15.1	-121.84	3.1	423.1	408.9	388.4	20.56	19.891		
3,900.0	3,855.7	3,916.5	3,847.5	15.0	15.6	-120.86	-4.1	445.1	420.8	399.8	20.91	20.121		
4,000.0	3,953.9	4,015.5	3,943.8	15.0	16.0	-120.00	-4.1 -11.2	445.1	432.7	411.4	20.91	20.121		
4,100.0	4,052.0	4,114.6	4,040.1	15.9	16.5	-119.06	-18.4	489.1	444.8	423.1	21.63	20.561		
4,200.0	4,150.2	4,213.6	4,136.4	16.4	16.9	-118.23	-25.5	511.1	456.9	434.9	22.00	20.770		
4,300.0	4,248.3	4,312.7	4,232.7	16.8	17.4	-117.44	-32.7	533.1	469.2	446.8	22.37	20.973		
			4 000 5	47.0										
4,400.0	4,346.5	4,411.7	4,329.0	17.3	17.9	-116.69	-39.8	555.0	481.5	458.8	22.75	21.167		
4,500.0	4,444.7	4,510.7	4,425.3	17.7	18.3	-115.98	-47.0	577.0	493.9	470.8	23.13	21.355		
4,600.0	4,542.8	4,609.8	4,521.6	18.1	18.8	-115.30	-54.1	599.0	506.4	482.9	23.51	21.535		
4,700.0	4,641.0	4,708.8	4,617.9	18.6	19.2	-114.66	-61.2	621.0	518.9	495.0	23.90	21.709		

Anticollision Report

DELAWARE BASIN WEST Company:

> ATLAS PROSPECT (DBW) WILD THING PROJECT

MULD THING DDG IFCT MULD THING FED COM 704H OWD DWDG

Site Error: 0.0 usft

Project:

Reference Site:

_WILD THING FED COM 902H Reference Well:

Well Error: 3.0 usft OWB Reference Wellbore

PWP0 Reference Design:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot 902H

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

North Reference: Grid

Minimum Curvature **Survey Calculation Method:**

Output errors are at 2.00 sigma

Database: EDT 17 Permian Prod Offset TVD Reference: Reference Datum

urvey Prog	ram: 0-	r.5 MWD+IFR1	I+MS							Rule Assig	gned:		Offset Well Error:	3.0 us
Refe	rence	Off			Major Axis	Himbaida	Offset Wellb	ore Centre		tance	-	Camanatian		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	No-Go Distance	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
4,900.0	4,837.3	4,906.9	4,810.5	19.5	20.2	-113.46	-75.5	665.0	544.2	519.5	24.70	22.035		
5,000.0	4,935.5	5,006.0	4,906.8	19.9	20.6	-112.90	-82.7	687.0	556.9	531.8	25.10	22.188		
5,100.0	5,033.6	5,105.0	5,003.1	20.4	21.1	-112.37	-89.8	709.0	569.7	544.2	25.51	22.329		
5,106.5	5,040.0	5,111.4	5,009.4	20.4	21.1	-112.34	-90.3	710.4	570.5	545.0	25.54	22.338		
5,200.0	5,131.9	5,204.1	5,099.5	20.8	21.6	-111.88	-97.0	731.0	582.4	556.4	25.92	22.470		
5,300.0	5,230.3	5,303.1	5,195.8	21.3	22.0	-111.34	-104.1	753.0	594.8	568.4	26.32	22.595		
5,400.0	5,328.8	5,402.1	5,292.1	21.7	22.5	-110.75	-111.3	774.9	606.9	580.2	26.73	22.706		
5,500.0	5,427.5	5,501.1	5,388.3	22.2	23.0	-110.10	-118.4	796.9	618.9	591.7	27.14	22.805		
5,600.0	5,526.3	5,600.1	5,484.6	22.6	23.4	-109.40	-125.5	818.9	630.6	603.1	27.55	22.890		
5,700.0	5,625.3	5,699.0	5,580.8	23.0	23.9	-108.66	-132.7	840.9	642.2	614.2	27.97	22.961		
5,800.0	5,724.4	5,797.9	5,676.9	23.4	24.4	-107.88	-139.8	862.8	653.6	625.2	28.39	23.019		
5,900.0	5,823.6	5,896.8	5,773.0	23.9	24.9	-107.05	-146.9	884.8	664.9	636.1	28.83	23.062		
6,000.0	5,922.9	5,997.9	5,871.4	24.3	25.3	-106.18	-154.1	906.9	676.0	646.8	29.26	23.104		
6,100.0	6,022.3	6,101.1	5,972.2	24.7	25.8	-105.38	-161.0	928.0	686.5	656.8	29.72	23.099		
6,200.0	6,121.8	6,204.8	6,073.8	25.1	26.3	-104.67	-167.3	947.5	696.2	666.1	30.17	23.073		
-,_00.0	-,	-,200	-,5.0.0	20.1	20.0			05	300.2		30			
6,300.0	6,221.3	6,308.8	6,176.2	25.5	26.8	-104.05	-173.1	965.2	705.2	674.6	30.62	23.031		
6,400.0	6,321.0	6,413.1	6,279.1	25.8	27.2	-103.51	-178.3	981.2	713.3	682.3	31.05	22.974		
6,500.0	6,420.7	6,517.8	6,382.7	26.2	27.7	-103.04	-182.9	995.5	720.6	689.2	31.46	22.904		
6,600.0	6,520.5	6,622.7	6,486.8	26.6	28.1	-102.65	-187.0	1,008.0	727.1	695.2	31.86	22.823		
6,700.0	6,620.3	6,727.8	6,591.3	26.9	28.5	-102.32	-190.5	1,018.7	732.6	700.4	32.23	22.732		
6,800.0	6,720.2	6,833.1	6,696.2	27.3	28.9	-102.07	-193.3	1,027.6	737.3	704.7	32.58	22.632		
6,900.0	6,820.1	6,938.6	6,801.4	27.6	29.3	-101.88	-195.6	1,034.7	741.0	708.1	32.90	22.525		
7,000.0	6,920.1	7,044.2	6,906.9	27.9	29.7	-101.75	-197.3	1,039.9	743.8	710.6	33.19	22.412		
7,100.0	7,020.1	7,149.9	7,012.5	28.2	30.0	-101.69	-198.4	1,043.3	745.6	712.2	33.44	22.295		
7,200.0	7,120.0	7,255.6	7,118.2	28.4	30.2	-101.69	-198.9	1,044.8	746.5	712.9	33.64	22.195		
7,300.0	7,220.0	7,357.4	7,220.0	28.6	30.3	-101.73	-199.0	1,044.9	746.7	712.9	33.76	22.120		
7,306.5	7,226.5	7,363.9	7,226.5	28.6	30.3	42.47	-199.0	1,044.9	746.7	712.9	33.76	22.120		
7,400.0	7,320.0	7,457.4	7,320.0	28.6	30.3	42.47	-199.0	1,044.9	746.7	712.8	33.84	22.067		
7,500.0	7,420.0	7,557.4	7,420.0	28.6	30.3	42.47	-199.0	1,044.9	746.7	712.8	33.91	22.007		
7,600.0	7,520.0	7,657.4	7,520.0	28.6	30.4	42.47	-199.0	1,044.9	746.7	712.7	33.98	21.972		
7,000.0	7,020.0	7,007.4	7,020.0	20.0	00.4	72.77	-100.0	1,044.5	140.1	7 12.7	00.00	21.572		
7,700.0	7,620.0	7,757.4	7,620.0	28.6	30.4	42.47	-199.0	1,044.9	746.7	712.6	34.06	21.925		
7,800.0	7,720.0	7,857.4	7,720.0	28.6	30.4	42.47	-199.0	1,044.9	746.7	712.5	34.13	21.877		
7,900.0	7,820.0	7,957.4	7,820.0	28.7	30.4	42.47	-199.0	1,044.9	746.7	712.5	34.21	21.829		
8,000.0	7,920.0	8,057.4	7,920.0	28.7	30.5	42.47	-199.0	1,044.9	746.7	712.4	34.28	21.781		
8,100.0	8,020.0	8,157.4	8,020.0	28.7	30.5	42.47	-199.0	1,044.9	746.7	712.3	34.36	21.733		
8,200.0	8,120.0	8,257.4	8,120.0	28.7	30.5	42.47	-199.0	1,044.9	746.7	712.2	34.43	21.684		
8,300.0	8,220.0	8,357.4	8,220.0	28.7	30.5	42.47	-199.0	1,044.9	746.7	712.2	34.51	21.636		
8,400.0	8,320.0	8,457.4	8,320.0	28.8	30.6	42.47	-199.0	1,044.9	746.7	712.1	34.59	21.587		
8,500.0	8,420.0	8,557.4	8,420.0	28.8	30.6	42.47	-199.0	1,044.9	746.7	712.0	34.67	21.538		
8,600.0	8,520.0	8,657.4	8,520.0	28.8	30.6	42.47	-199.0	1,044.9	746.7	711.9	34.75	21.490		
8,700.0	8,620.0	8,757.4	8,620.0	28.8	30.6	42.47	-199.0	1,044.9	746.7	711.8	34.83	21.440		
	8,720.0			28.8	30.6		-199.0 -199.0	1,044.9	746.7 746.7	711.8		21.440		
8,800.0 8,900.0		8,857.4	8,720.0 8,820.0	28.8		42.47 42.47		1,044.9	746.7 746.7		34.91	21.391		
	8,820.0 8,920.0	8,957.4 9,057.4	8,920.0	28.9	30.7 30.7	42.47 42.47	-199.0 -199.0	1,044.9	746.7 746.7	711.7 711.6	34.99 35.07			
9,000.0	9,020.0	9,057.4 9,157.4		28.9	30.7	42.47 42.47	-199.0 -199.0		746.7 746.7	711.6	35.07 35.15	21.292		
9,100.0	9,020.0	9,157.4	9,020.0	28.9	30.7	42.47	-199.0	1,044.9	740.7	111.5	35.15	21.243		
9,200.0	9,120.0	9,257.4	9,120.0	28.9	30.8	42.47	-199.0	1,044.9	746.7	711.4	35.23	21.193		
9,207.3	9,127.4	9,264.7	9,127.4	28.9	30.8	42.47	-199.0	1,044.9	746.7	711.4	35.24	21.190		
9,300.0	9,220.0	9,350.0	9,212.6	28.9	30.8	42.47	-198.9	1,044.9	746.8	711.5	35.33	21.138		
9,400.0	9,320.0	9,400.0	9,262.5	29.0	30.7	42.31	-195.8	1,044.9	751.2	715.6	35.64	21.078		
9,500.0	9,420.0	9,450.0	9,311.9	29.0	30.7	41.92	-188.3	1,044.8	762.2	726.3	35.93	21.212		
-,	-, .20.0	-, .00.0	_,00	20.0				.,0	. 02.2	. 20.0	30.00			

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

GL @ 2940.0usft TVD Reference: GL @ 2940.0usft MD Reference:

Site Error: 0.0 usft North Reference:

Grid

_WILD THING FED COM 902H Reference Well:

Minimum Curvature

Well Error: 3.0 usft OWB

Survey Calculation Method:

Reference Wellbore PWP0 Reference Design:

Output errors are at Database:

2.00 sigma

Offset TVD Reference:

EDT 17 Permian Prod

Reference Datum

Offset Des	ign: WI	LD THING	PROJECT	WILD	THING FE	D COM 701	H - OWB - PW	/P0					Offset Site Error:	0.0 usft
Survey Progra Refer Measured Depth (usft)		r.5 MWD+IFR1 Off Measured Depth (usft)		Semi I Reference (usft)	Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellb +N/-S (usft)	ore Centre +E/-W (usft)	Dis Between Centres (usft)	Rule Assig tance Between Ellipses (usft)	ned: No-Go Distance (usft)	Separation Factor	Offset Well Error: Warning	3.0 usft
9,600.0	9.520.0	9.500.0	9,360.5	29.0	30.6	41.33	-176.6	1.044.7	779.7	743.5	36.21	21.535		
9,700.0	9,620.0	9,550.0	9,407.9	29.0	30.6	40.55	-160.7	1,044.6	803.6	767.2	36.46	22.041		
9,800.0	9,720.0	9,600.0	9,453.7	29.0	30.5	39.60	-140.7	1,044.4	834.0	797.3	36.71	22.718		
9,900.0	9,820.0	9,628.4	9,478.9	29.1	30.5	38.99	-127.6	1,044.3	870.1	833.0	37.02	23.503		
10,000.0	9,920.0	9,666.1	9,511.3	29.1	30.4	38.13	-108.3	1,044.2	912.1	874.8	37.31	24.448		
10,100.0	10,020.0	9,700.0	9,539.3	29.1	30.4	37.31	-89.2	1,044.0	959.5	921.9	37.62	25.509		

Anticollision Report

Company: DELAWARE BASIN WEST

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

Project: ATLAS PROSPECT (DBW)
Reference Site: WILD THING PROJECT

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

Site Error: 0.0 usft

North Reference: Grid

Reference Well: _WILD THING FED COM 902H Well Error: 3.0 usft

Survey Calculation Method: Minimum Curvature

Reference Wellbore OWB
Reference Design: PWP0

Output errors are at 2.00 sigma

Database: EDT 17 Permian Prod
Offset TVD Reference: Reference Datum

Offset Des	ign: WI	LD THING	PROJECT	WILD 1	THING FE	D COM 702	H - OWB - PW	/P0					Offset Site Error:	0.0 usft
Survey Progra		r.5 MWD+IFR1		C'-	Major Awis		Office at Marill	oro Cont	D'	Rule Assi	gned:		Offset Well Error:	3.0 usft
Refere Measured Depth (usft)	ence Vertical Depth (usft)	Off Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellb +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	tance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	4.0	0.0	3.0	3.0	-39.15	155.2	-126.3	200.1	193.6	6.43	31.119		
100.0	100.0	104.0	100.0	3.2	3.2	-39.15	155.2	-126.3	200.1	193.2	6.90	28.997		
200.0	200.0	204.0	200.0	3.5	3.5	-39.15	155.2	-126.3	200.1	192.7	7.34	27.274		
300.0	300.0	304.0	300.0	3.7	3.7	-39.15	155.2	-126.3	200.1	192.3	7.75	25.820		
400.0	400.0	404.0	400.0	3.9	3.9	-39.15	155.2	-126.3	200.1	191.9	8.14	24.571		
500.0	500.0	504.0	500.0	4.1	4.1	-39.15	155.2	-126.3	200.1	191.6	8.52	23.481		
600.0	600.0	604.0	600.0	4.2	4.2	-39.15	155.2	-126.3	200.1	191.2	8.88	22.520		
700.0	700.0	704.0	700.0	4.4	4.4	-39.15	155.2	-126.3	200.1	190.8	9.24	21.662		
800.0	800.0	804.0	800.0	4.6	4.6	-39.15	155.2	-126.3	200.1	190.5	9.58	20.891		
900.0	900.0	904.0	900.0	4.8	4.8	-39.15	155.2	-126.3	200.1	190.2	9.91	20.193		
1,000.0	1,000.0	1,004.2	1,000.2	4.9	4.9	-39.15	155.2	-126.3	200.1	189.8	10.23	19.554		
1,100.0	1,100.0	1,109.7	1,105.7	5.1	5.1	176.68	154.0	-125.3	199.9	189.3	10.61	18.837		
1,200.0	1,199.9	1,215.3	1,211.1	5.3	5.3	176.77	150.5	-122.4	199.6	188.6	10.98	18.170		
1,300.0	1,299.7	1,320.8	1,316.4	5.5	5.6	176.92	144.8	-117.7	199.1	187.7	11.39	17.484		
1,400.0 1,500.0	1,399.3 1,498.6	1,426.2 1,531.7	1,421.4 1,526.0	5.7 6.0	5.8 6.0	177.13 177.40	137.0 126.9	-111.0 -102.6	198.4 197.7	186.6 185.4	11.83 12.28	16.777 16.102		
1,600.0	1,597.5	1,638.9	1,631.8	6.3	6.3	177.84	114.2	-91.5	196.3	183.6	12.78	15.362		
1,700.0	1,696.1	1,745.9	1,736.8	6.5	6.7	177.64	99.1	-91.5 -77.4	196.3	180.6	13.40	14.479		
1,733.3	1,728.8	1,781.6	1,771.6	6.6	6.8	178.91	93.5	-77.4	194.0	179.4	13.40	14.479		
1,800.0	1,720.0	1,851.1	1,839.2	6.8	7.0	179.63	81.9	-60.6	190.2	176.3	13.91	13.668		
1,900.0	1,892.4	1,950.9	1,936.2	7.1	7.3	-179.26	65.0	-43.9	185.6	171.0	14.54	12.760		
2,000.0	1,990.6	2,050.7	2,033.1	7.4	7.7	-178.09	48.0	-27.2	181.0	165.8	15.22	11.896		
2,100.0	2,088.8	2,150.6	2,130.0	7.8	8.0	-176.86	31.0	-10.4	176.6	160.6	15.91	11.094		
2,200.0	2,186.9	2,250.4	2,227.0	8.1	8.4	-175.57	14.0	6.3	172.2	155.5	16.63	10.353		
2,300.0	2,285.1	2,350.2	2,323.9	8.5	8.8	-174.21	-2.9	23.0	167.9	150.5	17.36	9.672		
2,400.0	2,383.3	2,450.0	2,420.9	8.8	9.2	-172.77	-19.9	39.7	163.7	145.6	18.09	9.047		
2,500.0	2,481.4	2,549.9	2,517.8	9.2	9.6	-171.27	-36.9	56.5	159.6	140.8	18.83	8.476		
2,600.0	2,579.6	2,649.7	2,614.7	9.6	10.0	-169.69	-53.9	73.2	155.6	136.1	19.57	7.955		
2,700.0	2,677.7	2,749.5	2,711.7	10.0	10.4	-168.02	-70.8	89.9	151.8	131.5	20.29	7.481		
2,800.0	2,775.9	2,849.3	2,808.6	10.4	10.8	-166.28	-87.8	106.6	148.1	127.1	21.01	7.050		
2,900.0	2,874.1	2,949.2	2,905.6	10.8	11.2	-164.44	-104.8	123.4	144.5	122.8	21.70	6.661		
3,000.0	2,972.2	3,049.0	3,002.5	11.2	11.7	-162.51	-121.8	140.1	141.1	118.8	22.36	6.310		
3,100.0	3,070.4	3,148.8	3,099.4	11.6	12.1	-160.50	-138.7	156.8	137.9	114.9	23.00	5.995		
3,200.0	3,168.6	3,248.6	3,196.4	12.0	12.5	-158.38 156.17	-155.7	173.5	134.8	111.2	23.60	5.714		
3,300.0 3,400.0	3,266.7 3,364.9	3,348.5 3,448.3	3,293.3 3,390.3	12.5 12.9	13.0 13.4	-156.17 -153.87	-172.7 -189.7	190.3 207.0	132.0 129.3	107.8 104.6	24.15 24.65	5.465 5.246		
3,500.0	3,463.0	3,548.1	3,487.2	13.3	13.9	-151.48	-206.6	223.7	126.9	101.8	25.09	5.056		
3,600.0	3,561.2	3,647.9	3,584.1	13.7	14.3	-148.99	-223.6	240.4	124.6	99.2	25.47	4.894		
3,700.0	3,659.4	3,747.8	3,681.1	14.2	14.8	-146.43	-240.6	257.2	122.7	96.9	25.78	4.758		
3,800.0	3,757.5	3,847.6	3,778.0	14.6	15.2	-143.78	-257.6	273.9	120.9	94.9	26.02	4.648		
3,900.0	3,855.7	3,947.4	3,875.0	15.0	15.7	-141.06	-274.5	290.6	119.5	93.3	26.18	4.564		
4,000.0	3,953.9	4,047.3	3,971.9	15.5	16.2	-138.29	-291.5	307.3	118.3	92.1	26.27	4.504		
4,100.0	4,052.0	4,147.1	4,068.9	15.9	16.6	-135.46	-308.5	324.0	117.4	91.1	26.29	4.467		
4,200.0 4,300.0	4,150.2	4,246.9	4,165.8	16.4	17.1	-132.60	-325.5 -342.4	340.8	116.8	90.6	26.24	4.453 4.460 ES		
4,300.0	4,248.3 4,300.2	4,346.7 4,399.4	4,262.7 4,313.9	16.8 17.0	17.5 17.8	-129.72 -128.19	-342.4 -351.4	357.5 366.3	116.5 116.5	90.4 90.4	26.13 26.04	4.460 ES 4.473 CC		
4,400.0	4,346.5	4,446.6	4,359.7	17.3	18.0	-126.82	-359.4	374.2	116.5	90.6	25.96	4.488		
4,500.0	4,444.7	4,546.4	4,456.6	17.7	18.5	-123.94	-376.4	390.9	116.8	91.1	25.75	4.535		
4,600.0	4,542.8	4,646.2	4,553.6	18.1	18.9	-121.08	-393.4	407.7	117.4	91.9	25.52	4.599		
4,700.0	4,641.0	4,745.9	4,650.4	18.6	19.4	-118.27	-410.3	424.3	118.3	93.0	25.27	4.680		
4,800.0	4,739.2	4,845.1	4,747.0	19.0	19.9	-116.08	-426.3	440.1	119.8	94.6	25.17	4.760		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

0.0 usft

PWP0

_WILD THING FED COM 902H

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

North Reference: Grid

3.0 usft Well Error: Reference Wellbore OWB

Site Error:

Reference Well:

Reference Design:

Survey Calculation Method: Output errors are at

Minimum Curvature

Database:

2.00 sigma EDT 17 Permian Prod

Offset TVD Reference:

Reference Datum

Offset De	sign.	LD THING											Offset Site Error:	0.0 us
urvey Prog	ıram: 0-	r.5 MWD+IFR1	+MS							Rule Assig	aned:		Offset Well Error:	3.0 us
	erence Vertical	Off Measured		Semi I Reference	Major Axis Offset	Highside	Offset Wellk	ore Centre	Dis Between	tance Between	No-Go	Separation	Warning	
Depth	Depth	Depth	Depth	Reference	Oliset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Distance	Factor	wanning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
4,900.0	4,837.3	4,944.4	4,844.1	19.5	20.3	-114.73	-441.1	454.7	122.0	96.7	25.27	4.826		
5,000.0	4,935.5	5,043.8	4,941.6	19.9	20.8	-114.18	-454.7	468.1	124.7	99.1	25.57	4.876		
5,100.0	5,033.6	5,143.2	5,039.4	20.4	21.2	-114.41	-467.2	480.4	127.8	101.8	26.05	4.907		
5,106.5	5,040.0	5,149.6	5,045.8	20.4	21.2	-114.45	-467.9	481.1	128.1	102.0	26.09	4.908		
5,200.0	5,131.9	5,242.5	5,137.5	20.8	21.6	-115.21	-478.4	491.4	131.3	104.6	26.68	4.922		
5,300.0	5,230.3	5,341.7	5,235.7	21.3	22.1	-116.34	-488.4	501.3	135.0	107.6	27.42	4.923		
5,400.0	5,328.8	5,440.8	5,334.1	21.7	22.5	-117.77	-497.1	509.9	138.8	110.6	28.26	4.913		
5,500.0	5,427.5	5,539.8	5,432.5	22.2	22.9	-119.45	-504.7	517.3	143.0	113.7	29.22	4.893		
5,600.0	5,526.3	5,638.7	5,531.0	22.6	23.3	-121.37	-511.0	523.5	147.4	117.1	30.28	4.868		
5,700.0	5,625.3	5,737.4	5,629.4	23.0	23.6	-123.49	-516.1	528.6	152.3	120.8	31.46	4.840		
5,800.0	5,724.4	5,835.9	5,727.7	23.4	24.0	-125.76	-520.0	532.4	157.6	124.8	32.72	4.815		
5,900.0	5,823.6	5,934.1	5,826.0	23.9	24.3	-128.17	-522.7	535.0	163.4	129.3	34.06	4.798		
6,000.0	5,922.9	6,032.2	5,924.0	24.3	24.5	-130.66	-524.1	536.5	169.8	134.4	35.43	4.794		
6,100.0	6,022.3	6,130.5	6,022.3	24.7	24.6	-133.22	-524.5	536.8	176.9	140.1	36.79	4.810		
6,200.0	6,121.8	6,230.0	6,121.8	25.1	24.6	-135.52	-524.5	536.8	184.0	146.0	38.03	4.838		
6,300.0	6,221.3	6,329.5	6,221.3	25.5	24.7	-137.48	-524.5	536.8	190.7	151.5	39.15	4.871		
6,400.0	6,321.0	6,429.2	6,321.0	25.8	24.7	-139.14	-524.5	536.8	196.9	156.8	40.14	4.906		
6,500.0	6,420.7	6,528.9	6,420.7	26.2	24.7	-140.54	-524.5	536.8	202.6	161.6	41.02	4.940		
6,600.0	6,520.5	6,628.7	6,520.5	26.6	24.7	-141.71	-524.5	536.8	207.8	166.0	41.81	4.970		
6,700.0	6,620.3	6,728.5	6,620.3	26.9	24.8	-142.68	-524.5	536.8	212.3	169.8	42.51	4.994		
6,800.0	6,720.2	6,828.4	6,720.2	27.3	24.8	-143.47	-524.5	536.8	216.2	173.1	43.14	5.011		
6,900.0	6,820.1	6,928.3	6,820.1	27.6	24.8	-144.10	-524.5	536.8	219.4	175.7	43.69	5.022		
7,000.0	6,920.1	7,028.3	6,920.1	27.9	24.8	-144.57	-524.5	536.8	221.9	177.8	44.17	5.024		
7,100.0	7,020.1	7,128.3	7,020.1	28.2	24.9	-144.91	-524.5	536.8	223.8	179.2	44.59	5.018		
7,200.0	7,120.0	7,228.3	7,120.0	28.4	24.9	-145.12	-524.5	536.8	224.9	180.0	44.92	5.006		
7,300.0	7,220.0	7,328.2	7,220.0	28.6	24.9	-145.19	-524.5	536.8	225.3	180.2	45.10	4.995		
7,306.5	7,226.5	7,334.7	7,226.5	28.6	24.9	-0.99	-524.5	536.8	225.3	180.2	45.11	4.994		
7,400.0	7,320.0	7,428.3	7,320.0	28.6	24.9	-0.99	-524.5	536.8	225.3	180.1	45.16	4.989		
7,500.0	7,420.0	7,528.3	7,420.0	28.6	25.0	-0.99	-524.5	536.8	225.3	180.1	45.21	4.983		
7,600.0	7,520.0	7,628.3	7,520.0	28.6	25.0	-0.99	-524.5	536.8	225.3	180.0	45.27	4.976		
7,700.0	7,620.0	7,728.3	7,620.0	28.6	25.0	-0.99	-524.5	536.8	225.3	180.0	45.32	4.970		
7,800.0	7,720.0	7,828.3	7,720.0	28.6	25.0	-0.99	-524.5	536.8	225.3	179.9	45.38	4.964		
7,900.0	7,820.0	7,928.3	7,820.0	28.7	25.1	-0.99	-524.5	536.8	225.3	179.8	45.44	4.958		
8,000.0	7,920.0	8,028.3	7,920.0	28.7	25.1	-0.99	-524.5	536.8	225.3	179.8	45.49	4.952		
8,100.0	8,020.0	8,128.3	8,020.0	28.7	25.1	-0.99	-524.5	536.8	225.3	179.7	45.55	4.946		
8,200.0	8,120.0	8,228.3	8,120.0	28.7	25.2	-0.99	-524.5	536.8	225.3	179.7	45.61	4.939		
8,300.0	8,220.0	8,328.3	8,220.0	28.7	25.2	-0.99	-524.5	536.8	225.3	179.6	45.67	4.933		
8,400.0	8,320.0	8,428.3	8,320.0	28.8	25.2	-0.99	-524.5	536.8	225.3	179.6	45.73	4.927		
8,500.0	8,420.0	8,528.3	8,420.0	28.8	25.2	-0.99	-524.5	536.8	225.3	179.5	45.79	4.920		
8,600.0	8,520.0	8,628.3	8,520.0	28.8	25.3	-0.99	-524.5	536.8	225.3	179.4	45.85	4.914		
8,700.0	8,620.0	8,728.3	8,620.0	28.8	25.3	-0.99	-524.5	536.8	225.3	179.4	45.91	4.907		
8,800.0	8,720.0	8,828.3	8,720.0	28.8	25.3	-0.99	-524.5 -524.5	536.8	225.3	179.4	45.97	4.907		
8,900.0	8,820.0	8,928.3	8,820.0	28.9	25.4	-0.99	-524.5	536.8	225.3	179.3	46.03	4.894		
9,000.0	8,920.0	9,028.3	8,920.0	28.9	25.4	-0.99	-524.5	536.8	225.3	179.3	46.09	4.888		
9,100.0	9,020.0	9,128.3	9,020.0	28.9	25.4	-0.99	-524.5	536.8	225.3	179.1	46.15	4.881		
0.200.0	0.120.0	0.000.0	0.420.0	20.0	25.5	0.00	504 F	E26.0	225.2	170.4	46.00	4.075		
9,200.0 9,209.8	9,120.0 9,129.9	9,228.3 9,238.1	9,120.0 9,129.9	28.9 28.9	25.5 25.5	-0.99 -0.99	-524.5 -524.5	536.8 536.8	225.3 225.3	179.1 179.1	46.22 46.22	4.875 4.874		
9,300.0	9,129.9	9,238.1	9,129.9	28.9	25.5 25.5	-0.99 -0.99	-524.5 -524.3	536.8	225.3	179.1	46.22	4.874		
							-524.3 -517.6		233.9					
9,400.0 9,500.0	9,320.0 9,420.0	9,400.0 9,463.3	9,291.4 9,353.3	29.0 29.0	25.4 25.2	-0.97 -0.94	-517.6	536.8 536.7	254.3	188.6 210.4	45.28 43.82	5.166 5.802		

Anticollision Report

TVD Reference:

DELAWARE BASIN WEST Company:

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

Site Error: 0.0 usft

Reference Well:

Well Error: 3.0 usft OWB Reference Wellbore

Reference Design:

_WILD THING FED COM 902H

PWP0

Local Co-ordinate Reference: Well _WILD THING FED COM 902H - Slot

902H

GL @ 2940.0usft GL @ 2940.0usft

MD Reference: Grid

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

EDT 17 Permian Prod Database: Offset TVD Reference: Reference Datum

		- F ANA/D - 155 -	.140										Offset Site Error:	0.0 us
urvey Progi Refe	ram: 0-1 rence	r.5 MWD+IFR1 Off:		Semi I	Major Axis		Offset Wellb	ore Centre	Dist	Rule Assi	gned:		Offset Well Error:	3.0 us
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
9,600.0	9,520.0	9,527.8	9,414.5	29.0	25.0	-0.89	-484.0	536.6	285.9	243.4	42.50	6.728		
9,700.0	9,620.0	9,587.1	9,468.3	29.0	24.9	-0.85	-459.3	536.4	327.7	286.4	41.26	7.940		
9,800.0	9,720.0	9,650.0	9,522.4	29.0	24.7	-0.80	-427.2	536.2	378.3	337.8	40.47	9.349		
9,900.0	9,820.0	9,688.3	9,553.4	29.1	24.6	-0.77	-404.8	536.1	436.0	396.6	39.38	11.070		
10,000.0	9,920.0	9,730.5	9,585.9	29.1	24.5	-0.74	-377.7	535.9	500.0	461.3	38.78	12.894		
10,100.0	10,020.0	9,767.9	9,612.8	29.1	24.4	-0.72	-351.9	535.7	569.3	530.9	38.39	14.830		
10,200.0	10,120.0	9,800.0	9,634.6	29.1	24.3	-0.70	-328.3	535.6	642.8	604.6	38.17	16.840		
10,207.0	10,127.0	9,800.0	9,634.6	29.1	24.3	-0.70	-328.3	535.6	648.1	610.0	38.14	16.991		
10,250.0	10,170.0	9,816.4	9,645.2	29.1	24.3	-0.29	-315.8	535.5	679.9	641.8	38.10	17.846		
10,300.0	10,219.6	9,832.5	9,655.3	29.0	24.2	-0.26	-303.3	535.4	715.0	677.0	38.00	18.813		
10,350.0	10,268.6	9,850.0	9,665.8	28.8	24.2	-0.24	-289.3	535.3	747.9	709.9	37.93	19.718		
10,400.0	10,316.4	9,865.9	9,675.0	28.7	24.2	-0.22	-276.3	535.2	778.5	740.6	37.87	20.557		
10,450.0	10,362.8	9,883.2	9,684.6	28.5	24.1	-0.20	-261.9	535.2	806.8	769.0	37.85	21.318		
10,500.0	10,407.4	9,900.0	9,693.5	28.4	24.1	-0.19	-247.6	535.1	832.8	794.9	37.86	21.996		
10,550.0	10,449.9	9,918.6	9,702.9	28.2	24.1	-0.18	-231.5	535.0	856.3	818.4	37.92	22.583		
10,600.0	10,489.9	9,950.0	9,717.4	28.0	24.0	-0.17	-203.8	534.8	877.6	839.6	38.00	23.095		
10,650.0	10,527.2	9,950.0	9,717.4	27.9	24.0	-0.16	-203.8	534.8	895.8	857.6	38.17	23.465		
10,700.0	10,561.4	9,973.3	9,727.3	27.7	24.0	-0.15	-182.6	534.7	911.6	873.2	38.36	23.767		
10,750.0	10,592.3	10,000.0	9,737.5	27.6	24.0	-0.15	-158.0	534.5	924.9	886.3	38.56	23.984		
10,800.0	10,619.7	10,000.0	9,737.5	27.5	24.0	-0.15	-158.0	534.5	935.5	896.6	38.95	24.022		
10,850.0	10,643.3	10,029.2	9,747.3	27.4	23.9	-0.14	-130.5	534.3	943.2	904.0	39.23	24.042		
10,900.0	10,663.0	10,050.0	9,753.4	27.3	23.9	-0.14	-110.6	534.2	948.4	908.8	39.61	23.946		
10,950.0	10,678.6	10,066.7	9,757.8	27.2	23.9	-0.14	-94.5	534.1	950.8	910.8	40.05	23.740		
11,000.0	10,690.0	10,100.0	9,765.2	27.2	23.9	-0.14	-62.0	533.9	950.9	910.5	40.41	23.528		
11,050.0	10,697.1	10,100.0	9,765.2	27.2	23.9	-0.14	-62.0	533.9	947.6	906.5	41.08	23.068		
11,100.0	10,699.9	10,123.0	9,769.2	27.2	23.9	-0.14	-39.3	533.7	941.9	900.3	41.59	22.646		
11,107.0	10,700.0	10,125.6	9,769.6	27.2	23.9	-0.14	-36.8	533.7	940.9	899.2	41.67	22.581		
11,200.0	10,700.0	10,150.0	9,772.7	27.2	23.9	-0.14	-12.6	533.6	930.0	887.2	42.82	21.721		
11,300.0	10,700.0	10,200.0	9,775.8	27.3	23.9	-0.14	37.3	533.3	924.4	880.4	43.97	21.021		
11,348.1	10,700.0	10,227.1	9,776.0	27.3	23.9	-0.14	64.3	533.1	924.0	879.5	44.52	20.757		
11,400.0	10,700.0	10,279.0	9,776.0	27.4	24.0	-0.14	116.3	532.8	924.0	879.1	44.86	20.599		
11,500.0	10,700.0	10,379.0	9,776.0	27.4	24.0	-0.14	216.3	532.1	924.0	878.5	45.55	20.285		
11,600.0	10,700.0	10,479.0	9,776.0	27.5	24.1	-0.14	316.3	531.5	924.0	877.7	46.29	19.961		
11,700.0	10,700.0	10,579.0	9,776.0	27.6	24.2	-0.14	416.3	530.9	924.0	876.9	47.07	19.631		
11,800.0	10,700.0	10,679.0	9,776.0	27.7	24.4	-0.14	516.3	530.2	924.0	876.1	47.88	19.297		
11,900.0	10,700.0	10,779.0	9,776.0	27.8	24.5	-0.14	616.3	529.6	924.0	875.3	48.73	18.960		
12,000.0	10,700.0	10,879.0	9,776.0	27.9	24.6	-0.14	716.3	529.0	924.0	874.4	49.62	18.621		
12,100.0	10,700.0	10,979.0	9,776.0	28.1	24.8	-0.13	816.3	528.3	924.0	873.5	50.54	18.283		
12,200.0	10,700.0	11,079.0	9,776.0	28.2	25.0	-0.13	916.3	527.7	924.0	872.5	51.49	17.946		
12,300.0	10,700.0	11,179.0	9,776.0	28.4	25.2	-0.13	1,016.2	527.1	924.0	871.5	52.46	17.612		
12,400.0	10,700.0	11,279.0	9,776.0	28.6	25.4	-0.13	1,116.2	526.4	924.0	870.5	53.47	17.281		
12,500.0	10,700.0	11,379.0	9,776.0	28.8	25.6	-0.13	1,216.2	525.8	924.0	869.5	54.50	16.955		
12,600.0	10,700.0	11,479.0	9,776.0	29.0	25.9	-0.13	1,316.2	525.2	924.0	868.4	55.55	16.633		
12,700.0	10,700.0	11,579.0	9,776.0	29.2	26.2	-0.13	1,416.2	524.5	924.0	867.4	56.63	16.316		
12,800.0	10,700.0	11,679.0	9,776.0	29.4	26.5	-0.13	1,516.2	523.9	924.0	866.3	57.73	16.005		
12,900.0	10,700.0	11,779.0	9,776.0	29.7	26.8	-0.12	1,616.2	523.3	924.0	865.2	58.85	15.701		
13,000.0	10,700.0	11,879.0	9,776.0	30.0	27.1	-0.12	1,716.2	522.6	924.0	864.0	59.99	15.403		
13,100.0	10,700.0	11,979.0	9,776.0	30.2	27.4	-0.12	1,816.2	522.0	924.0	862.9	61.15	15.111		
13,200.0	10,700.0	12,079.0	9,776.0	30.5	27.8	-0.12	1,916.2	521.4	924.0	861.7	62.32	14.827		
13,300.0	10,700.0	12,179.0	9,776.0	30.9	28.1	-0.12	2,016.2	520.7	924.0	860.5	63.51	14.549		
13,400.0	10,700.0	12,279.0	9,776.0	31.2	28.5	-0.12	2,116.2	520.1	924.0	859.3	64.72	14.278		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

Site Error: 0.0 usft North Reference: Grid

_WILD THING FED COM 902H Reference Well: Well Error: 3.0 usft

Survey Calculation Method: Minimum Curvature

OWB Reference Wellbore

Output errors are at 2.00 sigma

Database: Offset TVD Reference: PWP0 Reference Design:

EDT 17 Permian Prod Reference Datum

urvey Progr	am: 0-r	.5 MWD+IFR1	+MS							Rule Assi	aned:		Offset Well Error:	3.0 us
Refer	ence	Offs	set		Major Axis		Offset Wellb	ore Centre		tance	-			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
13,500.0	10,700.0	12,379.0	9,776.0	31.6	28.9	-0.12	2,216.2	519.5	924.0	858.1	65.94	14.014		
13,600.0	10,700.0	12,479.0	9,776.0	31.9	29.4	-0.12	2,316.2	518.9	924.0	856.8	67.17	13.756		
13,700.0	10,700.0	12,579.0	9,776.0	32.3	29.8	-0.12	2,416.2	518.2	924.0	855.6	68.42	13.505		
13,800.0	10,700.0	12,679.0	9,776.0	32.7	30.2	-0.11	2,516.2	517.6	924.0	854.3	69.68	13.261		
13,900.0	10,700.0	12,779.0	9,776.0	33.1	30.7	-0.11	2,616.2	517.0	924.0	853.1	70.95	13.024		
14,000.0	10,700.0	12,879.0	9,776.0	33.6	31.2	-0.11	2,716.2	516.3	924.0	851.8	72.23	12.793		
14,100.0	10,700.0	12,979.0	9,776.0	34.0	31.7	-0.11	2,816.2	515.7	924.0	850.5	73.52	12.568		
14,200.0	10,700.0	13,079.0	9,776.0	34.5	32.2	-0.11	2,916.2	515.1	924.0	849.2	74.82	12.349		
14,300.0	10,700.0	13,179.0	9,776.0	35.0	32.7	-0.11	3,016.2	514.4	924.0	847.9	76.13	12.137		
14,400.0	10,700.0	13,279.0	9,776.0	35.5	33.2	-0.11	3,116.2	513.8	924.0	846.6	77.45	11.930		
14,500.0	10,700.0	13,379.0	9,776.0	36.0	33.8	-0.11	3,216.2	513.2	924.0	845.2	78.78	11.729		
14,600.0	10,700.0	13,479.0	9,776.0	36.5	34.3	-0.11	3,316.2	512.5	924.0	843.9	80.12	11.533		
14,700.0	10,700.0	13,579.0	9,776.0	37.0	34.9	-0.10	3,416.2	511.9	924.0	842.5	81.46	11.343		
14,800.0	10,700.0	13,679.0	9,776.0	37.6	35.4	-0.10	3,516.2	511.3	924.0	841.2	82.81	11.158		
14,900.0	10,700.0	13,779.0	9,776.0	38.1	36.0	-0.10	3,616.2	510.6	924.0	839.8	84.17	10.978		
							• • •		-					
15,000.0	10,700.0	13,879.0	9,776.0	38.7	36.6	-0.10	3,716.2	510.0	924.0	838.5	85.53	10.803		
15,100.0	10,700.0	13,979.0	9,776.0	39.2	37.2	-0.10	3,816.2	509.4	924.0	837.1	86.90	10.632		
15,200.0	10,700.0	14,079.0	9,776.0	39.8	37.8	-0.10	3,916.2	508.7	924.0	835.7	88.28	10.467		
15,300.0	10,700.0	14,179.0	9,776.0	40.4	38.4	-0.10	4,016.2	508.1	924.0	834.3	89.66	10.305		
15,400.0	10,700.0	14,279.0	9,776.0	41.0	39.0	-0.10	4,116.2	507.5	924.0	833.0	91.05	10.148		
15,500.0	10,700.0	14,379.0	9,776.0	41.6	39.6	-0.09	4,216.2	506.8	924.0	831.6	92.44	9.995		
15,600.0	10,700.0	14,479.0	9,776.0	42.2	40.2	-0.09	4,316.2	506.2	924.0	830.2	93.84	9.847		
15,700.0	10,700.0	14,579.0	9,776.0	42.8	40.9	-0.09	4,416.2	505.6	924.0	828.8	95.24	9.702		
15,800.0	10,700.0	14,679.0	9,776.0	43.5	41.5	-0.09	4,516.2	504.9	924.0	827.4	96.65	9.560		
15,900.0	10,700.0	14,779.0	9,776.0	44.1	42.1	-0.09	4,616.2	504.3	924.0	825.9	98.06	9.423		
16,000.0	10,700.0	14,879.0	9,776.0	44.7	42.8	-0.09	4,716.2	503.7	924.0	824.5	99.48	9.289		
16,100.0	10,700.0	14,979.0	9,776.0	45.4	43.4	-0.09	4,816.2	503.0	924.0	823.1	100.89	9.158		
16,200.0	10,700.0	15,079.0	9,776.0	46.0	44.1	-0.09	4,916.2	502.4	924.0	821.7	102.32	9.031		
16,300.0	10,700.0	15,179.0	9,776.0	46.7	44.8	-0.09	5,016.2	501.8	924.0	820.3	103.74	8.907		
16,400.0	10,700.0	15,279.0	9,776.0	47.3	45.4	-0.08	5,116.2	501.1	924.0	818.8	105.17	8.785		
16,500.0	10,700.0	15,379.0	9,776.0	48.0	46.1	-0.08	5,216.2	500.5	924.0	817.4	106.61	8.667		
16,600.0	10,700.0	15,479.0	9,776.0	48.6	46.8	-0.08	5,316.2	499.9	924.0	816.0	108.04	8.552		
16,700.0	10,700.0	15,579.0	9,776.0	49.3	47.4	-0.08	5,416.2	499.2	924.0	814.5	109.48	8.440		
16,800.0	10,700.0	15,679.0	9,776.0	50.0	48.1	-0.08	5,516.2	498.6	924.0	813.1	110.93	8.330		
16,900.0	10,700.0	15,779.0	9,776.0	50.6	48.8	-0.08	5,616.2	498.0	924.0	811.6	112.37	8.223		
							-,							
17,000.0	10,700.0	15,879.0	9,776.0	51.3	49.5	-0.08	5,716.2	497.4	924.0	810.2	113.82	8.118		
17,100.0	10,700.0	15,979.0	9,776.0	52.0	50.1	-0.08	5,816.2	496.7	924.0	808.7	115.27	8.016		
17,200.0	10,700.0	16,079.0	9,776.0	52.7	50.8	-0.07	5,916.2	496.1	924.0	807.3	116.72	7.916		
17,300.0	10,700.0	16,179.0	9,776.0	53.4	51.5	-0.07	6,016.1	495.5	924.0	805.8	118.18	7.819		
17,400.0	10,700.0	16,279.0	9,776.0	54.1	52.2	-0.07	6,116.1	494.8	924.0	804.4	119.64	7.723		
17,500.0	10,700.0	16,379.0	9,776.0	54.7	52.9	-0.07	6,216.1	494.2	924.0	802.9	121.10	7.630		
17,600.0	10,700.0	16,479.0	9,776.0	55.4	53.6	-0.07	6,316.1	493.6	924.0	801.4	122.56	7.539		
17,700.0	10,700.0	16,579.0	9,776.0	56.1	54.3	-0.07	6,416.1	492.9	924.0	800.0	124.03	7.450		
17,800.0	10,700.0	16,679.0	9,776.0	56.8	55.0	-0.07	6,516.1	492.3	924.0	798.5	125.49	7.363		
17,900.0	10,700.0	16,779.0	9,776.0	57.5	55.7	-0.07	6,616.1	491.7	924.0	797.0	126.96	7.278		
10.000.0	10 700 0	16 670 0	0.770.0	50.0	50.4	0.07	6 740 4	404.0	004.0	705.0	100.40	7.404		
18,000.0	10,700.0	16,879.0	9,776.0	58.2	56.4	-0.07	6,716.1	491.0	924.0	795.6	128.43	7.194		
18,100.0	10,700.0	16,979.0	9,776.0	58.9	57.1	-0.06	6,816.1	490.4	924.0	794.1	129.90	7.113		
18,200.0	10,700.0	17,079.0	9,776.0	59.6	57.8	-0.06	6,916.1	489.8	924.0	792.6	131.38	7.033		
18,300.0 18,400.0	10,700.0 10,700.0	17,179.0 17,279.0	9,776.0 9,776.0	60.3 61.0	58.5 59.2	-0.06 -0.06	7,016.1 7,116.1	489.1 488.5	924.0	791.1	132.85	6.955		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

PWP0

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

EDT 17 Permian Prod Database:

Site Error: 0.0 usft _WILD THING FED COM 902H Reference Well:

Well Error: 3.0 usft OWB Reference Wellbore

Reference Design:

Offset TVD Reference: Reference Datum

Offset Des	sign: WI	LD THING	PROJECT	WILD	THING FE	D COM 702	H - OWB - PW	/P0					Offset Site Error:	0.0 usft
Survey Progr		r.5 MWD+IFR1								Rule Assi	gned:		Offset Well Error:	3.0 usft
Refer Measured	rence Vertical	Off Measured	fset Vertical	Semi I Reference	Major Axis Offset	Highside	Offset Wellb		Dis Between	tance Between	No-Go	Separation	Warning	
Depth	Depth	Depth (veft)	Depth	()	(f s)	Toolface	+N/-S (usft)	+E/-W (usft)	Centres	Ellipses	Distance	Factor		
(usft) 18,500.0	(usft) 10,700.0	(usft) 17,379.0	(usft) 9,776.0	(usft) 61.8	(usft) 59.9	(°) -0.06	7,216.1	487.9	(usft) 924.0	(usft) 788.2	(usft) 135.81	6.804		
18,600.0	10,700.0	17,479.0	9,776.0	62.5	60.7	-0.06	7,316.1	487.2	924.0	786.7	137.29	6.730		
18,700.0	10,700.0	17,579.0	9,776.0	63.2	61.4	-0.06	7,416.1	486.6	924.0	785.2	138.77	6.658		
18,800.0	10,700.0	17,679.0	9,776.0	63.9	62.1	-0.06	7,516.1	486.0	924.0	783.7	140.26	6.588		
18,900.0	10,700.0	17,779.0	9,776.0	64.6	62.8	-0.05	7,616.1	485.3	924.0	782.3	141.74	6.519		
19,000.0	10,700.0	17,879.0	9,776.0	65.3	63.5	-0.05	7,716.1	484.7	924.0	780.8	143.23	6.451		
19,100.0	10.700.0	17,979.0	9,776.0	66.0	64.2	-0.05	7,816.1	484.1	924.0	779.3	144.72	6.385		
19,200.0	10,700.0	18,079.0	9,776.0	66.8	65.0	-0.05	7,916.1	483.4	924.0	777.8	146.21	6.320		
19,300.0	10,700.0	18,179.0	9,776.0	67.5	65.7	-0.05	8,016.1	482.8	924.0	776.3	147.70	6.256		
19,400.0	10,700.0	18,279.0	9,776.0	68.2	66.4	-0.05	8,116.1	482.2	924.0	774.8	149.19	6.194		
19,500.0	10,700.0	18,379.0	9,776.0	68.9	67.1	-0.05	8,216.1	481.5	924.0	773.3	150.68	6.132		
19,600.0	10,700.0	18,479.0	9,776.0	69.7	67.9	-0.05	8,316.1	480.9	924.0	771.8	152.17	6.072		
19,700.0	10,700.0	18,579.0	9,776.0	70.4	68.6	-0.05	8,416.1	480.3	924.0	771.8	153.67	6.072		
19,800.0	10,700.0	18,679.0	9,776.0	71.1	69.3	-0.03	8,516.1	479.6	924.0	768.8	155.16	5.955		
19,900.0	10,700.0	18,779.0	9,776.0	71.8	70.0	-0.04	8,616.1	479.0	924.0	767.3	156.66	5.898		
20,000.0	10,700.0	18,879.0	9,776.0	72.6	70.8	-0.04	8,716.1	478.4	924.0	765.8	158.16	5.842		
20 400 0	10,700.0	10.070.0	0.776.0	73.3	74 5	0.04	0.046.4	477.7	924.0	764.3	159.66	5.787		
20,100.0 20,200.0	10,700.0	18,979.0 19,079.0	9,776.0 9,776.0	73.3 74.0	71.5 72.2	-0.04 -0.04	8,816.1 8,916.1	477.7 477.1	924.0	764.3 762.8	161.16	5.787		
20,300.0	10,700.0	19,179.0	9,776.0	74.7	73.0	-0.04	9,016.1	476.5	924.0	761.3	162.66	5.681		
20,400.0	10,700.0	19,279.0	9,776.0	75.5	73.7	-0.04	9,116.1	475.9	924.0	759.8	164.16	5.629		
20,500.0	10,700.0	19,379.0	9,776.0	76.2	74.4	-0.04	9,216.1	475.2	924.0	758.3	165.66	5.578		
20,600.0	10,700.0	19,479.0	9,776.0	76.9	75.2	-0.03	9,316.1	474.6	924.0	756.8	167.17	5.527		
20,700.0	10,700.0	19,579.0	9,776.0	77.7	75.9	-0.03	9,416.1	474.0	924.0	755.3	168.67	5.478		
20,800.0 20,900.0	10,700.0 10,700.0	19,679.0 19,779.0	9,776.0 9,776.0	78.4 79.1	76.6 77.4	-0.03 -0.03	9,516.1 9,616.1	473.3 472.7	924.0 924.0	753.8 752.3	170.17 171.68	5.430 5.382		
21,000.0	10,700.0	19,879.0	9,776.0	79.1	78.1	-0.03	9,716.1	472.1	924.0	752.3	171.00	5.335		
21,000.0	10,100.0	10,070.0	0,770.0	70.0		0.00	0,7 10.1	772.1	324.0	700.0	170.10	0.000		
21,100.0	10,700.0	19,979.0	9,776.0	80.6	78.8	-0.03	9,816.1	471.4	924.0	749.3	174.69	5.289		
21,200.0	10,700.0	20,079.0	9,776.0	81.3	79.6	-0.03	9,916.1	470.8	924.0	747.8	176.20	5.244		
21,300.0	10,700.0	20,179.0	9,776.0	82.1	80.3	-0.03	10,016.1	470.2	924.0	746.3	177.71	5.199		
21,400.0	10,700.0	20,279.0	9,776.0	82.8	81.0	-0.03	10,116.1	469.5	924.0	744.8	179.22	5.156		
21,500.0	10,700.0	20,379.0	9,776.0	83.6	81.8	-0.02	10,216.1	468.9	924.0	743.3	180.73	5.113		
21,600.0	10,700.0	20,479.0	9,776.0	84.3	82.5	-0.02	10,316.1	468.3	924.0	741.8	182.24	5.070		
21,700.0	10,700.0	20,579.0	9,776.0	85.0	83.3	-0.02	10,416.1	467.6	924.0	740.2	183.75	5.029		
21,800.0	10,700.0	20,679.0	9,776.0	85.8	84.0	-0.02	10,516.1	467.0	924.0	738.7	185.26	4.987		
21,900.0	10,700.0	20,779.0	9,776.0	86.5	84.7	-0.02	10,616.1	466.4	924.0	737.2	186.78	4.947		
22,000.0	10,700.0	20,879.0	9,776.0	87.3	85.5	-0.02	10,716.1	465.7	924.0	735.7	188.29	4.907		
22,100.0	10,700.0	20,979.0	9,776.0	88.0	86.2	-0.02	10,816.1	465.1	924.0	734.2	189.80	4.868		
22,200.0	10,700.0	21,079.0	9,776.0	88.7	87.0	-0.02	10,916.1	464.5	924.0	732.7	191.32	4.830		
22,300.0	10,700.0	21,179.0	9,776.0	89.5	87.7	-0.01	11,016.0	463.8	924.0	731.2	192.83	4.792		
22,400.0	10,700.0	21,279.0	9,776.0	90.2	88.4	-0.01	11,116.0	463.2	924.0	729.7	194.35	4.754		
22,500.0	10,700.0	21,379.0	9,776.0	91.0	89.2	-0.01	11,216.0	462.6	924.0	728.1	195.86	4.718		
22,600.0	10,700.0	21,479.0	9,776.0	91.7	89.9	-0.01	11,316.0	461.9	924.0	726.6	197.38	4.681		
22,600.0	10,700.0	21,479.0	9,776.0	91.7 92.4	89.9 90.7	-0.01 -0.01	11,316.0 11,416.0	461.9 461.3	924.0 924.0	726.6 725.1	197.38 198.90	4.646		
22,800.0	10,700.0	21,679.0	9,776.0	93.2	91.4	-0.01	11,516.0	460.7	924.0	723.1	200.41	4.610		
22,900.0	10,700.0	21,779.0	9,776.0	93.9	92.2	-0.01	11,616.0	460.0	924.0	723.0	201.93	4.576		
23,000.0	10,700.0	21,879.0	9,776.0	94.7	92.9	-0.01	11,716.0	459.4	924.0	720.5	203.45	4.542		
23,100.0	10,700.0	21,979.0	9,776.0	95.4	93.6	-0.01	11,816.0	458.8	924.0	719.0	204.97	4.508		
23,200.0	10,700.0	22,079.0	9,776.0	96.2	94.4	0.00	11,916.0	458.1	924.0	717.5	206.49	4.475		
23,300.0	10,700.0	22,179.0	9,776.0	96.9	95.1	0.00	12,016.0	457.5 456.0	924.0	716.0	208.01	4.442		
23,400.0 23,500.0	10,700.0 10,700.0	22,279.0 22,379.0	9,776.0 9,776.0	97.7 98.4	95.9 96.6	0.00 0.00	12,116.0 12,216.0	456.9 456.2	924.0 924.0	714.5 713.0	209.53 211.05	4.410 4.378		
20,000.0	10,700.0	22,318.0	3,110.0	30.4	90.0	0.00	12,210.0	400.2	924.0	113.0	Z11.U3	4.370		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

GL @ 2940.0usft TVD Reference: GL @ 2940.0usft MD Reference:

Site Error: 0.0 usft North Reference: Grid

_WILD THING FED COM 902H Reference Well:

Minimum Curvature **Survey Calculation Method:**

Well Error: 3.0 usft Reference Wellbore OWB

Output errors are at 2.00 sigma

PWP0 Reference Design:

EDT 17 Permian Prod Database: Offset TVD Reference: Reference Datum

Offset Des	sign: WI	LD THING	PROJECT	WILD 1	THING FE	D COM 702	H - OWB - PW	/P0					Offset Site Error:	0.0 usft
Survey Progr Refer Measured		r.5 MWD+IFR1 Offs Measured		Semi M	Major Axis Offset	Highside	Offset Wellb		Dis Between	Rule Assi tance Between	gned: No-Go	Separation	Offset Well Error: Warning	3.0 usft
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Distance (usft)	Factor		
23,540.0 23,559.2	10,700.0 10,700.0	22,419.0 22,438.2	9,776.0 9,776.0	98.7 98.8	96.9 97.1	0.00 0.00	12,256.0 12,275.2	456.0 455.9	924.0 924.0	712.3 712.1	211.66 211.95	4.366 4.360 SF		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

PWP0

GL @ 2940.0usft TVD Reference: GL @ 2940.0usft MD Reference:

Site Error: 0.0 usft North Reference: Grid

_WILD THING FED COM 902H Reference Well: Well Error: 3.0 usft

Minimum Curvature **Survey Calculation Method:**

Reference Wellbore OWB

Reference Design:

Output errors are at 2.00 sigma

Database:

EDT 17 Permian Prod

Offset TVD Reference:

Reference Datum

Offset Des	ngii.			_****		.D 00W 700	H - OWB - PW						Offset Site Error:	0.0 us
Survey Progra Refer		r.5 MWD+IFR1 Offs		Semi I	Major Axis		Offset Wellb	ore Centre	Dis	Rule Assi	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	No-Go Distance	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
0.0	0.0	4.0	0.0	3.0	3.0	-47.67	136.3	-149.7	202.4	196.0	6.43	31.486		
100.0	100.0	104.0	100.0	3.2	3.2	-47.67	136.3	-149.7	202.4	195.5	6.90	29.339		
200.0	200.0	204.0	200.0	3.5	3.5	-47.67	136.3	-149.7	202.4	195.1	7.34	27.595		
300.0	300.0	304.0	300.0	3.7	3.7	-47.67	136.3	-149.7	202.4	194.7	7.75	26.125		
400.0	400.0	404.0	400.0	3.9	3.9	-47.67	136.3	-149.7	202.4	194.3	8.14	24.860		
500.0	500.0	504.0	500.0	4.1	4.1	-47.67	136.3	-149.7	202.4	193.9	8.52	23.758		
600.0	600.0	604.0	600.0	4.2	4.2	-47.67	136.3	-149.7	202.4	193.6	8.88	22.785		
700.0	700.0	704.0	700.0	4.4	4.4	-47.67	136.3	-149.7	202.4	193.2	9.24	21.918		
800.0	800.0	804.0	800.0	4.6	4.6	-47.67	136.3	-149.7	202.4	192.9	9.58	21.138		
900.0	900.0	904.0	900.0	4.8	4.8	-47.67	136.3	-149.7	202.4	192.5	9.91	20.431		
1,000.0	1,000.0	1,004.0	1,000.0	4.9	4.9	-47.67	136.3	-149.7	202.4	192.2	10.23	19.787 CC, E	S	
1,100.0	1,100.0	1,104.0	1,100.0	5.1	5.1	168.20	136.3	-149.7	203.7	193.1	10.57	19.268		
1,200.0	1,199.9	1,203.9	1,199.9	5.3	5.2	168.41	136.3	-149.7	207.6	196.7	10.91	19.027		
1,300.0	1,299.7	1,303.7	1,299.7	5.5	5.4	168.74	136.3	-149.7	214.0	202.7	11.26	19.004		
1,400.0	1,399.3	1,403.3	1,399.3	5.7	5.5	169.18	136.3	-149.7	223.0	211.3	11.63	19.175		
1,500.0	1,498.6	1,502.6	1,498.6	6.0	5.7	169.69	136.3	-149.7	234.5	222.5	12.02	19.516		
1,600.0	1,597.5	1,601.5	1,597.5	6.3	5.8	170.24	136.3	-149.7	248.6	236.2	12.43	20.008		
1,700.0	1,696.1	1,700.1	1,696.1	6.5	6.0	170.82	136.3	-149.7	265.4	252.5	12.43	20.633		
1,733.3	1,728.8	1,732.8	1,728.8	6.6	6.0	171.02	136.3	-149.7	271.5	258.5	12.98	20.925		
1,800.0	1,794.3	1,798.3	1,794.3	6.8	6.1	171.42	136.3	-149.7	284.1	270.8	13.23	21.471		
1,900.0	1,892.4	1,896.4	1,892.4	7.1	6.2	171.42	136.3	-149.7	303.0		13.23	22.156		
1,500.0	1,092.4	1,030.4	1,052.4	1.1	0.2	111.80	130.3	-149.7	303.0	289.3	13.07	22.100		
2,000.0	1,990.6	1,994.6	1,990.6	7.4	6.4	172.43	136.3	-149.7	321.9	307.7	14.14	22.771		
2,100.0	2,088.8	2,101.2	2,097.1	7.8	6.5	172.80	135.1	-149.2	339.7	325.0	14.64	23.205		
2,200.0	2,186.9	2,209.1	2,205.0	8.1	6.7	172.96	131.0	-147.6	354.9	339.7	15.14	23.435		
2,300.0	2,285.1	2,317.9	2,313.6	8.5	6.9	172.94	124.0	-144.8	367.5	351.8	15.67	23.444		
2,400.0	2,383.3	2,427.4	2,422.5	8.8	7.1	172.74	114.1	-140.9	377.4	361.2	16.23	23.252		
2,500.0	2,481.4	2,536.9	2,531.1	9.2	7.2	172.38	101.3	-135.9	384.7	367.9	16.78	22.926		
2,600.0	2,579.6	2,636.7	2,629.9	9.6	7.4	171.99	88.4	-130.8	390.8	373.4	17.35	22.528		
2,700.0	2,677.7	2,736.5	2,728.8	10.0	7.6	171.61	75.4	-125.7	396.9	378.9	17.96	22.103		
2,800.0	2,775.9	2,836.2	2,827.6	10.4	7.9	171.24	62.5	-120.6	403.0	384.4	18.58	21.685		
2,900.0	2,874.1	2,936.0	2,926.4	10.8	8.1	170.89	49.6	-115.5	409.1	389.9	19.23	21.276		
2 000 0	0.070.0	0.005.0	0.005.0	44.0	0.4	470.54	20.7	440.4	445.0	205.4	40.00	00.000		
3,000.0	2,972.2	3,035.8	3,025.2	11.2	8.4	170.54	36.7	-110.4	415.2 421.4	395.4	19.89 20.56	20.880		
3,100.0	3,070.4	3,135.6	3,124.0	11.6	8.7	170.21	23.7	-105.3		400.8		20.496		
3,200.0	3,168.6	3,235.4	3,222.8	12.0	9.0	169.88	10.8	-100.2	427.6	406.3	21.24	20.127		
3,300.0 3,400.0	3,266.7 3,364.9	3,335.1 3,434.9	3,321.6 3,420.4	12.5 12.9	9.3 9.6	169.57 169.26	-2.1 -15.0	-95.1 -90.0	433.8 439.9	411.8 417.3	21.94 22.64	19.773 19.433		
3,500.0	3,463.0	3,534.7	3,519.2	13.3	9.9	168.96	-27.9	-85.0	446.2	422.8	23.35	19.108		
3,600.0	3,561.2	3,634.5	3,618.0	13.7	10.2	168.67	-40.9	-79.9	452.4	428.3	24.07	18.797		
3,700.0	3,659.4	3,734.3	3,716.9	14.2	10.6	168.39	-53.8	-74.8	458.6	433.8	24.79	18.500		
3,800.0	3,757.5	3,834.1	3,815.7	14.6	10.9	168.12	-66.7	-69.7	464.8	439.3	25.52	18.216		
3,900.0	3,855.7	3,933.8	3,914.5	15.0	11.3	167.85	-79.6	-64.6	471.1	444.8	26.25	17.945		
4,000.0	3,953.9	4,033.6	4,013.3	15.5	11.6	167.59	-92.5	-59.5	477.3	450.4	26.99	17.687		
4,100.0	4,052.0	4,133.4	4,112.1	15.9	12.0	167.33	-105.5	-54.4	483.6	455.9	27.73	17.440		
4,200.0	4,150.2	4,233.2	4,210.9	16.4	12.3	167.09	-118.4	-49.3	489.9	461.4	28.47	17.205		
4,300.0	4,248.3	4,333.0	4,309.7	16.8	12.7	166.85	-131.3	-44.2	496.2	467.0	29.22	16.980		
4,400.0	4,346.5	4,432.7	4,408.5	17.3	13.1	166.61	-144.2	-39.1	502.5	472.5	29.97	16.765		
4,500.0	4,444.7	4,532.5	4,507.3	17.7	13.5	166.38	-157.1	-34.1	508.8	478.1	30.72	16.559		
4,600.0	4,542.8	4,632.3	4,606.1	18.1	13.8	166.16	-170.1	-29.0	515.1	483.6	31.48	16.363		
4,700.0	4,641.0	4,732.1	4,704.9	18.6	14.2	165.94	-183.0	-23.9	521.4	489.2	32.24	16.175		
4,800.0	4,739.2	4,831.9	4,803.8	19.0	14.6	165.73	-195.9	-18.8	527.7	494.8	32.99	15.996		
,	4,837.3	4,931.4	4,902.3	19.5	15.0	165.52	-208.8	-13.7	534.1	500.3	33.74	15.828		

Anticollision Report

Company: DELAWARE BASIN WEST

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

Project: ATLAS PROSPECT (DBW)
Reference Site: WILD THING PROJECT

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

Site Error: 0.0 usft
Reference Well: _WILD THING FED COM 902H

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Well Error: 3.0 usft
Reference Wellbore OWB

Output errors are at 2.00 sigma

Database: EDT 17 Permian Prod
Offset TVD Reference: Reference Datum

Reference Design: PWP0 Offset TVD Reference: Ref

Offset Design: WILD THING PROJECT - _WILD THING FED COM 703H - OWB - PWP0

Jiiset Des	sign: ··												Offset Site Error:	0.0 us
urvey Progr		-r.5 MWD+IFR1								Rule Assi	gned:		Offset Well Error:	3.0 us
Refer Measured	rence Vertical	Off Measured	set Vertical	Semi I Reference	Major Axis Offset	Highside	Offset Wellb	ore Centre	Dist Between	tance Between	No-Go	Separation	Warning	
Depth	Depth	Depth	Depth	Reference	Onset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Distance	Factor	vuilling	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
5,000.0	4,935.5	5,027.2	4,997.3	19.9	15.3	165.35	-220.8	-9.0	540.8	506.4	34.48	15.686		
5,100.0	5,033.6	5,122.9	5,092.2	20.4	15.7	165.22	-232.0	-4.6	548.3	513.1	35.23	15.564		
5,106.5	5,040.0	5,129.1	5,098.4	20.4	15.7	165.22	-232.7	-4.3	548.8	513.6	35.28	15.557		
5,200.0	5,131.9		5,187.2	20.8	16.1	165.14	-242.5	-0.4	556.2	520.2	35.97	15.462		
5,300.0	5,230.3		5,282.2	21.3	16.4	165.08	-252.3	3.4	563.9	527.2	36.70	15.364		
0,000.0	0,200.0	0,011.2	0,202.2	21.0	10.1	100.00	202.0	0.1	000.0	027.2	00.70	10.001		
5,400.0	5,328.8	5,409.8	5,377.3	21.7	16.8	165.03	-261.3	7.0	571.6	534.1	37.43	15.270		
5,500.0	5,427.5		5,472.4	22.2	17.1	165.01	-269.5	10.2	579.1	540.9	38.15	15.180		
5,600.0	5,526.3		5,566.8	22.6	17.5	165.00	-277.0	13.2	586.5	547.6	38.85	15.096		
5,700.0	5,625.3		5,662.7	23.0	17.8	165.01	-283.8	15.9	593.7	554.2	39.55	15.012		
5,800.0	5,724.4		5,757.9	23.4	18.2	165.03	-289.9	18.2	600.9	560.7	40.24	14.935		
3,000.0	5,724.4	3,731.0	3,737.8	25.4	10.2	103.03	-203.5	10.2	000.9	300.7	40.24	14.955		
5,900.0	5,823.6	5,887.0	5,853.1	23.9	18.5	165.08	-295.2	20.3	608.0	567.1	40.91	14.862		
6,000.0	5,922.9		5,948.3	24.3	18.8	165.13	-299.8	22.1	614.9	573.3	41.57	14.793		
6,100.0	6,022.3		6,043.5	24.3	19.1	165.20	-303.6	23.6	621.7	573.5 579.5	42.21	14.793		
6,200.0	6,121.8		6,138.7	25.1	19.4	165.29	-306.7	24.8	628.4	585.6	42.84	14.670		
6,300.0	6,221.3	6,268.0	6,233.8	25.5	19.7	165.39	-309.0	25.8	635.0	591.6	43.44	14.617		
6,400.0	6,321.0	6,363.1	6,328.9	25.8	19.9	165.50	-310.7	26.4	641.5	597.5	44.03	14.570		
									647.9	603.3				
6,500.0	6,420.7		6,424.0	26.2	20.1	165.62	-311.5	26.8			44.58	14.534		
6,600.0	6,520.5		6,520.5	26.6	20.2	165.76	-311.7	26.8	654.1	609.0	45.05	14.518		
6,700.0	6,620.3		6,620.3	26.9	20.2	165.89	-311.7	26.8	659.6	614.1	45.48	14.503		
6,800.0	6,720.2	6,754.4	6,720.2	27.3	20.3	166.00	-311.7	26.8	664.3	618.4	45.90	14.473		
6 000 0	6 000 1	6.054.0	6 000 4	07.0	00.0	166.00	244.7	20.0	600.0	604.0	40.00	14 400		
6,900.0	6,820.1		6,820.1	27.6	20.3	166.09	-311.7	26.8	668.2	621.9	46.30	14.432		
7,000.0	6,920.1		6,920.1	27.9	20.3	166.15	-311.7	26.8	671.2	624.5	46.68	14.380		
7,100.0	7,020.1		7,020.1	28.2	20.4	166.20	-311.7	26.8	673.4	626.4	47.03	14.319		
7,200.0	7,120.0	7,154.2	7,120.0	28.4	20.4	166.23	-311.7	26.8	674.7	627.4	47.34	14.251		
7,300.0	7,220.0	7,254.2	7,220.0	28.6	20.4	166.24	-311.7	26.8	675.2	627.7	47.52	14.210		
7,306.5	7,226.5		7,226.5	28.6	20.4	-49.56	-311.7	26.8	675.2	627.7	47.53	14.206		
7,400.0	7,320.0	7,354.2	7,320.0	28.6	20.5	-49.56	-311.7	26.8	675.2	627.6	47.57	14.195		
7,500.0	7,420.0	7,454.2	7,420.0	28.6	20.5	-49.56	-311.7	26.8	675.2	627.6	47.61	14.181		
7,600.0	7,520.0	7,554.2	7,520.0	28.6	20.5	-49.56	-311.7	26.8	675.2	627.5	47.66	14.168		
7,700.0	7,620.0	7,654.2	7,620.0	28.6	20.6	-49.56	-311.7	26.8	675.2	627.5	47.70	14.154		
7,800.0	7,720.0	7,754.2	7,720.0	28.6	20.6	-49.56	-311.7	26.8	675.2	627.4	47.75	14.140		
7,900.0	7,820.0	7,854.2	7,820.0	28.7	20.6	-49.56	-311.7	26.8	675.2	627.4	47.80	14.127		
8,000.0	7,920.0	7,954.2	7,920.0	28.7	20.7	-49.56	-311.7	26.8	675.2	627.3	47.84	14.113		
8,100.0	8,020.0	8,054.2	8,020.0	28.7	20.7	-49.56	-311.7	26.8	675.2	627.3	47.89	14.098		
8,200.0	8,120.0	8,154.2	8,120.0	28.7	20.7	-49.56	-311.7	26.8	675.2	627.3	47.94	14.084		
8,300.0	8,220.0	8,254.2	8,220.0	28.7	20.8	-49.56	-311.7	26.8	675.2	627.2	47.99	14.070		
8,400.0	8,320.0	8,354.2	8,320.0	28.8	20.8	-49.56	-311.7	26.8	675.2	627.2	48.04	14.055		
8,500.0	8,420.0		8,420.0	28.8	20.8	-49.56	-311.7	26.8	675.2	627.1	48.09	14.041		
8,600.0	8,520.0		8,520.0	28.8	20.9	-49.56	-311.7	26.8	675.2	627.1	48.14	14.026		
8,700.0	8,620.0		8,620.0	28.8	20.9	-49.56	-311.7	26.8	675.2	627.0	48.19	14.011		
-,. 00.0	_,0_0.0	-,001.2	-,520.0	20.0	20.0		- · · · ·	20.0	3.0.2					
8,800.0	8,720.0	8,754.2	8,720.0	28.8	20.9	-49.56	-311.7	26.8	675.2	627.0	48.24	13.996		
8,900.0	8,820.0		8,820.0	28.9	21.0	-49.56	-311.7	26.8	675.2	626.9	48.29	13.981		
9,000.0	8,920.0		8,920.0	28.9	21.0	-49.56	-311.7	26.8	675.2	626.8	48.34	13.966		
9,100.0	9,020.0		9,020.0	28.9	21.0	-49.56	-311.7	26.8	675.2	626.8	48.40	13.951		
9,200.0	9,120.0	9,154.2	9,120.0	28.9	21.1	-49.56	-311.7	26.8	675.2	626.7	48.45	13.936		
9,300.0	9,220.0	9,254.2	9,220.0	28.9	21.1	-49.56	-311.7	26.8	675.2	626.7	48.50	13.920		
	9,320.0													
9,400.0			9,320.0	29.0	21.2	-49.56	-311.7	26.8	675.2	626.6	48.56	13.905		
9,500.0	9,420.0		9,420.0	29.0	21.2	-49.56	-311.7	26.8	675.2	626.6	48.61	13.890		
9,600.0	9,520.0	9,522.8	9,488.6	29.0	21.1	-49.47	-310.3	26.8	676.9	628.5	48.38	13.991		
9,700.0	9,620.0	9,578.5	9,543.8	29.0	21.0	-49.04	-303.7	26.8	684.7	636.8	47.99	14.269		

Anticollision Report

Company: DELAWARE BASIN WEST

LAWARE BASIN WEST Local Co-ordinate Reference:

902H **TVD Reference:** GL @ 2940.0usft

Well _WILD THING FED COM 902H - Slot

Project: ATLAS PROSPECT (DBW)
Reference Site: WILD THING PROJECT

O THING PROJECT MD Reference: GL @ 2940.0usft sft North Reference: Grid

 Site Error:
 0.0 usft
 North Reference:
 Grid

 Reference Well:
 _WILD THING FED COM 902H
 Survey Calculation Method:
 Minimum Curvature

 Well Error:
 3.0 usft
 Output errors are at
 2.00 sigma

 Reference Wellbore
 OWB
 Database:
 EDT 17 Permian Prod

 Reference Design:
 PWP0
 Offset TVD Reference:
 Reference Datum

		5 MM/5 -=-											Offset Site Error:	0.0 usf
Survey Progr Refe	ram: 0-i rence	r.5 MWD+IFR1 Offs		Semi I	Major Axis		Offset Wellb	ore Centre	Dist	Rule Assignation	gned:		Offset Well Error:	3.0 usf
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
9,800.0	9,720.0	9,632.3	9,596.4	29.0	20.9	-48.33	-292.2	26.7	699.1	651.6	47.55	14.704		
9,900.0	9,820.0	9,683.6	9,645.3	29.1	20.8	-47.38	-276.7	26.6	720.1	673.1	47.04	15.308		
10,000.0	9,920.0	9,731.8	9,689.8	29.1	20.6	-46.29	-258.2	26.5	747.7	701.2	46.48	16.085		
10,100.0	10,020.0	9,776.4	9,729.5	29.1	20.5	-45.14	-237.8	26.4	781.7	735.8	45.87	17.040		
10,200.0	10,120.0	9,817.5	9,764.5	29.1	20.4	-43.97	-216.4	26.2	821.9	776.7	45.24	18.167		
10,207.0	10,127.0	9,820.2	9,766.7	29.1	20.4	-43.89	-214.9	26.2	824.9	779.7	45.20	18.251		
10,250.0	10,170.0	9,850.0	9,791.1	29.1	20.3	-41.35	-197.7	26.1	843.4	798.4	45.04	18.725		
10,300.0	10,219.6	9,850.0	9,791.1	29.0	20.3	-39.96	-197.7	26.1	863.1	818.8	44.32	19.475		
10,350.0	10,268.6	9,876.9	9,812.2	28.8	20.2	-38.18	-181.1	26.0	881.2	837.3	43.91	20.068		
10,400.0	10,316.4	9,900.0	9,829.7	28.7	20.1	-36.74	-166.0	25.9	897.6	854.2	43.43	20.668		
10,450.0	10,362.8	9,917.4	9,842.5	28.5	20.1	-35.61	-154.3	25.8	912.2	869.3	42.88	21.276		
10,500.0	10,407.4	9,950.0	9,865.5	28.4	20.0	-34.50	-131.1	25.7	925.1	882.6	42.48	21.776		
10,550.0	10,449.9	9,950.0	9,865.5	28.2	20.0	-33.89	-131.1	25.7	935.6	893.8	41.76	22.405		
10,600.0	10,489.9	9,978.9	9,884.8	28.0	19.9	-33.20	-109.6	25.5	944.1	902.8	41.34	22.838		
10,650.0	10,527.2	10,000.0	9,898.1	27.9	19.9	-32.73	-93.2	25.4	950.6	909.8	40.86	23.264		
10,700.0	10,561.4	10,020.2	9,910.4	27.7	19.8	-32.43	-77.2	25.3	955.0	914.6	40.40	23.639		
10,750.0	10,592.3	10,050.0	9,927.3	27.6	19.8	-32.26	-52.7	25.2	957.3	917.3	40.03	23.913		
10,800.0	10,619.7	10,050.0	9,927.3	27.5	19.8	-32.26	-52.7	25.2	957.5	918.0	39.49	24.246		
10,850.0	10,643.3	10,082.3	9,944.3	27.4	19.7	-32.41	-25.1	25.0	955.2	916.0	39.20	24.371		
10,900.0	10,663.0	10,100.0	9,952.9	27.3	19.7	-32.70	-9.7	24.9	951.0	912.2	38.84	24.485		
10,950.0	10,678.6	10,123.7	9,963.6	27.2	19.6	-33.16	11.4	24.8	944.6	906.1	38.55	24.505		
11,000.0	10,690.0	10,150.0	9,974.5	27.2	19.6	-33.82	35.3	24.6	936.2	897.9	38.30	24.447		
11,050.0	10,697.1	10,164.8	9,980.2	27.2	19.6	-34.56	49.0	24.5	925.7	887.6	38.02	24.345		
11,100.0	10,699.9	10,185.2	9,987.4	27.2	19.5	-35.53	68.1	24.4	913.1	875.3	37.80	24.160		
11,107.0	10,700.0	10,200.0	9,992.2	27.2	19.5	-35.83	82.1	24.3	911.4	873.6	37.80	24.110		
11,200.0	10,700.0	10,226.8	10,000.0	27.2	19.5	-36.13	107.7	24.1	888.2	850.9	37.36	23.776		
11,300.0	10,700.0	10,270.1	10,010.0	27.3	19.5	-36.52	149.8	23.9	869.4	832.3	37.06	23.456		
11,400.0	10,700.0	10,314.7	10,017.0	27.4	19.4	-36.80	193.9	23.6	856.8	819.8	36.95	23.189		
11,500.0	10,700.0	10,360.1	10,020.5	27.4	19.4	-36.95	239.2	23.3	850.5	813.5	37.03	22.971		
11,564.7	10,700.0	10,398.6	10,021.0	27.5	19.4	-36.96	277.6	23.0	849.8	812.6	37.16	22.865		
11,600.0	10,700.0	10,434.0	10,021.0	27.5	19.5	-36.96	313.0	22.8	849.8	812.5	37.24	22.822		
11,700.0	10,700.0	10,534.0	10,021.0	27.6	19.5	-36.96	413.0	22.2	849.8	812.3	37.48	22.674		
11,800.0	10,700.0	10,634.0	10,021.0	27.7	19.5	-36.96	513.0	21.5	849.8	812.0	37.78	22.492		
11,900.0	10,700.0	10,734.0	10,021.0	27.8	19.6	-36.96	613.0	20.9	849.8	811.6	38.14	22.277		
12,000.0	10,700.0	10,834.0	10,021.0	27.9	19.6	-36.96	713.0	20.2	849.8	811.2	38.57	22.033		
12,100.0	10,700.0	10,934.0	10,021.0	28.1	19.7	-36.96	813.0	19.6	849.8	810.7	39.05	21.763		
12,200.0	10,700.0	11,034.0	10,021.0	28.2	19.8	-36.96	913.0	18.9	849.7	810.2	39.58	21.470		
12,300.0	10,700.0	11,134.0	10,021.0	28.4	19.9	-36.96	1,013.0	18.3	849.7	809.6	40.16	21.158		
12,400.0	10,700.0	11,234.0	10,021.0	28.6	20.0	-36.96	1,113.0	17.7	849.7	808.9	40.80	20.828		
12,500.0	10,700.0	11,334.0	10,021.0	28.8	20.2	-36.96	1,213.0	17.0	849.7	808.3	41.48	20.486		
12,600.0	10,700.0	11,434.0	10,021.0	29.0	20.3	-36.96	1,313.0	16.4	849.7	807.5	42.21	20.132		
12,700.0	10,700.0	11,534.0	10,021.0	29.2	20.5	-36.96	1,413.0	15.7	849.7	806.7	42.98	19.772		
12,800.0	10,700.0	11,634.0	10,021.0	29.4	20.7	-36.96	1,513.0	15.1	849.7	805.9	43.79	19.405		
12,900.0	10,700.0	11,734.0	10,021.0	29.7	21.0	-36.96	1,613.0	14.4	849.7	805.1	44.64	19.036		
13,000.0	10,700.0	11,834.0	10,021.0	30.0	21.2	-36.96	1,713.0	13.8	849.7	804.2	45.52	18.666		
13,100.0	10,700.0	11,934.0	10,021.0	30.2	21.6	-36.96	1,813.0	13.2	849.7	803.3	46.44	18.296		
13,200.0	10,700.0	12,034.0	10,021.0	30.5	21.9	-36.96	1,913.0	12.5	849.7	802.3	47.39	17.929		
13,300.0	10,700.0	12,134.0	10,021.0	30.9	22.3	-36.95	2,013.0	11.9	849.7	801.3	48.38	17.565		
13,400.0	10,700.0	12,234.0	10,021.0	31.2	22.8	-36.95	2,113.0	11.2	849.7	800.3	49.39	17.205		
13,500.0	10,700.0	12,334.0	10,021.0	31.6	23.2	-36.95	2,212.9	10.6	849.7	799.3	50.42	16.852		
13,600.0	10,700.0	12,434.0	10,021.0	31.9	23.7	-36.95	2,312.9	9.9	849.7	798.2	51.48	16.504		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

Site Error: 0.0 usft North Reference: Grid

_WILD THING FED COM 902H Reference Well: 3.0 usft Well Error:

Survey Calculation Method: Minimum Curvature

Reference Wellbore OWB PWP0 Reference Design:

Output errors are at 2.00 sigma

Database: EDT 17 Permian Prod Reference Datum

Offset TVD Reference:

	sign: VVII												Offset Site Error:	0.0 us
ey Progr Refe		.5 MWD+IFR1 Off		Semi I	Major Axis		Offset Wellb	ore Centre	Dis	Rule Assig	gned:		Offset Well Error:	3.0 us
asured Depth Jusft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
3,700.0	10,700.0	12,534.0	10,021.0	32.3	24.2	-36.95	2,412.9	9.3	849.7	797.1	52.57	16.163		
3,800.0	10,700.0	12,634.0	10,021.0	32.7	24.8	-36.95	2,512.9	8.7	849.7	796.0	53.68	15.830		
3,900.0	10,700.0	12,734.0	10,021.0	33.1	25.3	-36.95	2,612.9	8.0	849.7	794.9	54.80	15.504		
4,000.0	10,700.0	12,834.0	10,021.0	33.6	25.9	-36.95	2,712.9	7.4	849.7	793.7	55.95	15.186		
4,100.0	10,700.0	12,934.0	10,021.0	34.0	26.5	-36.95	2,812.9	6.7	849.7	792.5	57.12	14.876		
4,200.0	10,700.0	13,034.0	10,021.0	34.5	27.1	-36.95	2,912.9	6.1	849.7	791.4	58.30	14.574		
4,300.0	10,700.0	13,134.0	10,021.0	35.0	27.7	-36.95	3,012.9	5.4	849.7	790.2	59.50	14.280		
4,400.0	10,700.0	13,234.0	10,021.0	35.5	28.4	-36.95	3,112.9	4.8	849.6	788.9	60.71	13.995		
4,500.0	10,700.0	13,334.0	10,021.0	36.0	29.0	-36.95	3,212.9	4.1	849.6	787.7	61.94	13.717		
4,600.0	10,700.0	13,434.0	10,021.0	36.5	29.7	-36.95	3,312.9	3.5	849.6	786.5	63.18	13.448		
4,700.0	10,700.0	13,534.0	10,021.0	37.0	30.3	-36.95	3,412.9	2.9	849.6	785.2	64.44	13.186		
4,800.0	10,700.0	13,634.0	10,021.0	37.6	31.0	-36.95	3,512.9	2.2	849.6	783.9	65.70	12.932		
4,900.0	10,700.0	13,734.0	10,021.0	38.1	31.6	-36.95	3,612.9	1.6	849.6	782.6	66.98	12.685		
5,000.0	10,700.0	13,834.0	10,021.0	38.7	32.3	-36.95	3,712.9	0.9	849.6	781.4	68.27	12.446		
5,100.0	10,700.0	13,934.0	10,021.0	39.2	33.0	-36.95	3,812.9	0.3	849.6	780.1	69.56	12.213		
5,200.0	10,700.0	14,034.0	10,021.0	39.8	33.7	-36.95	3,912.9	-0.4	849.6	778.7	70.87	11.988		
5,300.0	10,700.0	14,134.0	10,021.0	40.4	34.4	-36.95	4,012.9	-1.0	849.6	777.4	72.19	11.769		
5,400.0	10,700.0	14,234.0	10,021.0	41.0	35.0	-36.95	4,112.9	-1.6	849.6	776.1	73.51	11.557		
5,500.0	10,700.0	14,334.0	10,021.0	41.6	35.7	-36.95	4,212.9	-2.3	849.6	774.8	74.85	11.351		
5,600.0	10,700.0	14,434.0	10,021.0	42.2	36.4	-36.95	4,312.9	-2.9	849.6	773.4	76.19	11.152		
5,700.0	10,700.0	14,534.0	10,021.0	42.8	37.1	-36.95	4,412.9	-3.6	849.6	772.1	77.53	10.958		
5,800.0	10,700.0	14,634.0	10,021.0	43.5	37.8	-36.94	4,512.9	-4.2	849.6	770.7	78.89	10.769		
5,900.0	10,700.0	14,734.0	10,021.0	44.1	38.5	-36.94	4,612.9	-4.9	849.6	769.3	80.25	10.587		
6,000.0	10,700.0	14,834.0	10,021.0	44.7	39.2	-36.94	4,712.9	-5.5	849.6	768.0	81.62	10.409		
6,100.0	10,700.0	14,934.0	10,021.0	45.4	40.0	-36.94	4,812.9	-6.2	849.6	766.6	82.99	10.237		
6,200.0	10,700.0	15,034.0	10,021.0	46.0	40.7	-36.94	4,912.9	-6.8	849.6	765.2	84.37	10.070		
6,300.0	10,700.0	15,134.0	10,021.0	46.7	41.4	-36.94	5,012.9	-7.4	849.6	763.8	85.75	9.907		
6,400.0	10,700.0	15,234.0	10,021.0	47.3	42.1	-36.94	5,112.9	-8.1	849.6	762.4	87.14	9.750		
6,500.0	10,700.0	15,334.0	10,021.0	48.0	42.8	-36.94	5,212.9	-8.7	849.6	761.0	88.53	9.596		
6,600.0	10,700.0	15,434.0	10,021.0	48.6	43.5	-36.94	5,312.9	-9.4	849.5	759.6	89.93	9.447		
6,700.0	10,700.0	15,534.0	10,021.0	49.3	44.3	-36.94	5,412.9	-10.0	849.5	758.2	91.33	9.302		
6,800.0	10,700.0	15,634.0	10,021.0	50.0	45.0	-36.94	5,512.9	-10.7	849.5	756.8	92.74	9.161		
6,900.0	10,700.0	15,734.0	10,021.0	50.6	45.7	-36.94	5,612.9	-11.3	849.5	755.4	94.15	9.023		
7,000.0	10,700.0	15,834.0	10,021.0	51.3	46.4	-36.94	5,712.9	-11.9	849.5	754.0	95.56	8.890		
7,100.0	10,700.0	15,934.0	10,021.0	52.0	47.2	-36.94	5,812.9	-12.6	849.5	752.5	96.98	8.760		
7,200.0	10,700.0	16,034.0	10,021.0	52.7	47.9	-36.94	5,912.9	-13.2	849.5	751.1	98.40	8.633		
7,300.0	10,700.0	16,134.0	10,021.0	53.4	48.6	-36.94	6,012.9	-13.9	849.5	749.7	99.83	8.510		
7,400.0	10,700.0	16,234.0	10,021.0	54.1	49.3	-36.94	6,112.9	-14.5	849.5	748.3	101.25	8.390		
7,500.0	10,700.0	16,334.0	10,021.0	54.7	50.1	-36.94	6,212.9	-15.2	849.5	746.8	102.68	8.273		
7,600.0	10,700.0	16,434.0	10,021.0	55.4	50.8	-36.94	6,312.9	-15.8	849.5	745.4	104.12	8.159		
7,700.0	10,700.0	16,534.0	10,021.0	56.1	51.5	-36.94	6,412.9	-16.5	849.5	743.9	105.55	8.048		
7,800.0	10,700.0	16,634.0	10,021.0	56.8	52.3	-36.94	6,512.9	-17.1	849.5	742.5	106.99	7.940		
7,900.0	10,700.0	16,734.0	10,021.0	57.5	53.0	-36.94	6,612.9	-17.7	849.5	741.1	108.43	7.834		
8,000.0	10,700.0	16,834.0	10,021.0	58.2	53.8	-36.94	6,712.9	-18.4	849.5	739.6	109.88	7.731		
8,100.0	10,700.0	16,934.0	10,021.0	58.9	54.5	-36.94	6,812.9	-19.0	849.5	738.2	111.33	7.631		
8,200.0	10,700.0	17,034.0	10,021.0	59.6	55.2	-36.93	6,912.9	-19.7	849.5	736.7	112.77	7.533		
8,300.0	10,700.0	17,134.0	10,021.0	60.3	56.0	-36.93	7,012.8	-20.3	849.5	735.2	114.23	7.437		
8,400.0	10,700.0	17,234.0	10,021.0	61.0	56.7	-36.93	7,112.8	-21.0	849.5	733.8	115.68	7.343		
8,500.0	10,700.0	17,334.0	10,021.0	61.8	57.4	-36.93	7,212.8	-21.6	849.5	732.3	117.13	7.252		
8,600.0	10,700.0	17,434.0	10,021.0	62.5	58.2	-36.93	7,312.8	-22.2	849.5	730.9	118.59	7.163		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: Reference Site: WILD THING PROJECT

0.0 usft

Site Error:

Well Error:

Reference Well:

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

North Reference: Grid

Survey Calculation Method:

Output errors are at

Minimum Curvature 2.00 sigma

3.0 usft OWB Database: Reference Wellbore

_WILD THING FED COM 902H

EDT 17 Permian Prod Reference Datum

PWP0 Reference Design: Offset TVD Reference:

Offset Des	sign: WI	LD THING	PROJECT	WILD 1	THING FE	D COM 703	H - OWB - PW	'P0					Offset Site Error:	0.0 usft
Survey Progra		r.5 MWD+IFR1								Rule Assi	gned:		Offset Well Error:	3.0 usft
Refer Measured	Vertical	Offs Measured	Vertical	Semi M Reference	Major Axis Offset	Highside	Offset Wellbe	re Centre +E/-W	Between	Between	No-Go	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	(usft)	(usft)	Centres (usft)	Ellipses (usft)	Distance (usft)	Factor		
18,700.0	10,700.0	17,534.0	10,021.0	63.2	58.9	-36.93	7,412.8	-22.9	849.5	729.4	120.05	7.076		
18,800.0	10,700.0	17,634.0	10,021.0	63.9	59.7	-36.93	7,512.8	-23.5	849.4	727.9	121.51	6.991		
18,900.0	10,700.0	17,734.0	10,021.0	64.6	60.4	-36.93	7,612.8	-24.2	849.4	726.5	122.97	6.908		
19,000.0	10,700.0	17,834.0	10,021.0	65.3	61.2	-36.93	7,712.8	-24.8	849.4	725.0	124.44	6.826		
19,100.0	10,700.0	17,934.0	10,021.0	66.0	61.9	-36.93	7,812.8	-25.5	849.4	723.5	125.90	6.747		
19,200.0	10,700.0	18,034.0	10,021.0	66.8	62.6	-36.93	7,912.8	-26.1	849.4	722.1	127.37	6.669		
19,300.0	10,700.0	18,134.0	10,021.0	67.5	63.4	-36.93	8,012.8	-26.7	849.4	720.6	128.84	6.593		
19,400.0	10,700.0	18,234.0	10,021.0	68.2	64.1	-36.93	8,112.8	-27.4	849.4	719.1	130.31	6.518		
19,500.0	10,700.0	18,334.0	10,021.0	68.9	64.9	-36.93	8,212.8	-28.0	849.4	717.6	131.78	6.446		
19,600.0	10,700.0	18,434.0	10,021.0	69.7	65.6	-36.93	8,312.8	-28.7	849.4	716.2	133.25	6.374		
19,700.0	10,700.0	18,534.0	10,021.0	70.4	66.4	-36.93	8,412.8	-29.3	849.4	714.7	134.73	6.305		
19,800.0	10,700.0	18,634.0	10,021.0	71.1	67.1	-36.93	8,512.8	-30.0	849.4	713.2	136.21	6.236		
19,900.0	10,700.0	18,734.0	10,021.0	71.8	67.9	-36.93	8,612.8	-30.6	849.4	711.7	137.68	6.169		
20,000.0	10,700.0	18,834.0	10,021.0	72.6	68.6	-36.93	8,712.8	-31.3	849.4	710.2	139.16	6.104		
20,100.0	10,700.0	18,934.0	10,021.0	73.3	69.4	-36.93	8,812.8	-31.9	849.4	708.7	140.64	6.039		
20,200.0	10,700.0	19,034.0	10,021.0	74.0	70.1	-36.93	8,912.8	-32.5	849.4	707.3	142.12	5.976		
20,300.0	10,700.0	19,134.0	10,021.0	74.7	70.9	-36.93	9,012.8	-33.2	849.4	705.8	143.60	5.915		
20,400.0	10,700.0	19,234.0	10,021.0	75.5	71.6	-36.93	9,112.8	-33.8	849.4	704.3	145.09	5.854		
20,500.0	10,700.0	19,334.0	10,021.0	76.2	72.4	-36.93	9,212.8	-34.5	849.4	702.8	146.57	5.795		
20,600.0	10,700.0	19,434.0	10,021.0	76.9	73.1	-36.93	9,312.8	-35.1	849.4	701.3	148.05	5.737		
20,700.0	10,700.0	19,534.0	10,021.0	77.7	73.9	-36.92	9,412.8	-35.8	849.4	699.8	149.54	5.680		
20,800.0	10,700.0	19,634.0	10,021.0	78.4	74.6	-36.92	9,512.8	-36.4	849.4	698.3	151.03	5.624		
20,900.0	10,700.0	19,734.0	10,021.0	79.1	75.4	-36.92	9,612.8	-37.0	849.4	696.8	152.51	5.569		
21,000.0	10,700.0	19,834.0	10,021.0	79.9	76.1	-36.92	9,712.8	-37.7	849.3	695.3	154.00	5.515		
21,100.0	10,700.0	19,934.0	10,021.0	80.6	76.9	-36.92	9,812.8	-38.3	849.3	693.8	155.49	5.462		
21,200.0	10,700.0	20,034.0	10,021.0	81.3	77.6	-36.92	9,912.8	-39.0	849.3	692.4	156.98	5.410		
21,300.0	10,700.0	20,134.0	10,021.0	82.1	78.4	-36.92	10,012.8	-39.6	849.3	690.9	158.47	5.359		
21,300.0	10,700.0	20,134.0	10,021.0	82.8	79.1	-36.92	10,112.8	-40.3	849.3	689.4	159.96	5.309		
21,500.0	10,700.0	20,234.0	10,021.0	83.6	79.1	-36.92	10,712.8	-40.9	849.3	687.9	161.46	5.260		
21,500.0	10,700.0	20,334.0	10,021.0	84.3	80.6	-36.92	10,312.8	-40.9 -41.6	849.3	686.4	162.95	5.212		
21,700.0	10,700.0	20,434.0	10,021.0	85.0	81.4	-36.92	10,412.8	-42.2	849.3	684.9	164.44	5.165		
21,800.0	10,700.0	20,634.0	10,021.0	85.8	82.1	-36.92	10,512.8	-42.8	849.3	683.4	165.94	5.118		
21,900.0	10,700.0	20,734.0	10,021.0	86.5	82.9	-36.92	10,612.8	-43.5	849.3	681.9	167.43	5.072		
22,000.0	10,700.0	20,834.0	10,021.0	87.3	83.6	-36.92	10,712.8	-44.1	849.3	680.4	168.93	5.027		
22,100.0	10,700.0	20,934.0	10,021.0	88.0	84.4	-36.92	10,812.8	-44.8	849.3	678.9	170.43	4.983		
22,200.0	10,700.0	21,034.0	10,021.0	88.7	85.2	-36.92	10,912.8	-45.4	849.3	677.4	171.93	4.940		
22,300.0	10,700.0	21,134.0	10,021.0	89.5	85.9	-36.92	11,012.8	-46.1	849.3	675.9	173.42	4.897		
22,400.0	10,700.0	21,234.0	10,021.0	90.2	86.7	-36.92	11,112.8	-46.7	849.3	674.4	174.92	4.855		
22,500.0	10,700.0	21,334.0	10,021.0	91.0	87.4	-36.92	11,212.8	-47.3	849.3	672.9	176.42	4.814		
22,600.0	10,700.0	21,434.0	10,021.0	91.7	88.2	-36.92	11,312.8	-48.0	849.3	671.4	177.92	4.773		
22,700.0	10,700.0	21,534.0	10,021.0	92.4	88.9	-36.92	11,412.8	-48.6	849.3	669.8	179.42	4.733		
22,800.0	10,700.0	21,634.0	10,021.0	93.2	89.7	-36.92	11,512.8	-49.3	849.3	668.3	180.92	4.694		
22,900.0	10,700.0	21,734.0	10,021.0	93.9	90.4	-36.92	11,612.8	-49.9	849.3	666.8	182.42	4.655		
23,000.0	10,700.0	21,834.0	10,021.0	94.7	91.2	-36.92	11,712.8	-50.6	849.3	665.3	183.92	4.617		
23,100.0	10,700.0	21,934.0	10,021.0	95.4	91.9	-36.91	11,812.8	-51.2	849.2	663.8	185.43	4.580		
23,200.0	10,700.0	22,034.0	10,021.0	96.2	92.7	-36.91	11,912.7	-51.9	849.2	662.3	186.93	4.543		
23,300.0	10,700.0	22,134.0	10,021.0	96.9	93.5	-36.91	12,012.7	-52.5	849.2	660.8	188.43	4.507		
23,400.0	10,700.0	22,234.0	10,021.0	97.7	94.2	-36.91	12,112.7	-53.1	849.2	659.3	189.94	4.471		
23,500.0	10,700.0	22,334.0	10,021.0	98.4	95.0	-36.91	12,212.7	-53.8	849.2	657.8	191.44	4.436		
23,552.6	10,700.0	22,386.5	10,021.0	98.8	95.4	-36.91	12,265.3	-54.1	849.2	657.0	192.23	4.418		
23,559.2	10,700.0	22,389.2	10,021.0	98.8	95.4	-36.91	12,267.9	-54.1	849.2	656.8	192.43	4.413 SF		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: Reference Site: WILD THING PROJECT

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

Site Error: 0.0 usft North Reference: Grid

_WILD THING FED COM 902H Reference Well: 3.0 usft Well Error:

Survey Calculation Method:

Minimum Curvature

Reference Wellbore **OWB** PWP0 Reference Design:

Output errors are at 2.00 sigma EDT 17 Permian Prod Database:

Reference Datum Offset TVD Reference:

WILD THING PROJECT - _WILD THING FED COM 703H - OWB - PWP0 Offset Design: 0.0 usft Offset Site Error: Survey Program: Reference Measured Vertical 0-r.5 MWD+IFR1+MS

Offset

Measured Vertical Rule Assigned: Offset Well Error: 3.0 usft Distance en Between Semi Major Axis Offset Wellbore Centre Reference Highside Between No-Go Separation Warning Toolface +N/-S +F/-W Depth Depth Depth Depth Centres Ellipses Distance Factor (°) (usft) (usft)

Anticollision Report

TVD Reference:

MD Reference:

North Reference:

DELAWARE BASIN WEST Company:

MULD THING DDG IFCT MULD THING FED COM 704H OWD DWDG

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

Site Error: 0.0 usft

_WILD THING FED COM 902H Reference Well:

Well Error: 3.0 usft OWB Reference Wellbore

PWP0 Reference Design:

Local Co-ordinate Reference: Well _WILD THING FED COM 902H - Slot

902H

GL @ 2940.0usft GL @ 2940.0usft

Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

EDT 17 Permian Prod Database:

Offset TVD Reference: Reference Datum

urvey Prog		r.5 MWD+IFR1								Rule Assi	gned:		Offset Well Error:	3.0 us
Refe Measured	rence Vertical	Off Measured	set Vertical	Semi I Reference	Major Axis Offset	Highside	Offset Wellb	ore Centre	Dist Between	tance Between	No-Go	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Distance	Factor	· ·	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
0.0	0.0	0.0	0.0	3.0	3.0	-55.74	117.6	-172.6	208.9	202.4	6.43	32.490		
100.0	100.0	100.0	100.0	3.2	3.2	-55.74	117.6	-172.6	208.9	202.0	6.89	30.305		
200.0	200.0	200.0	200.0	3.5	3.5	-55.74	117.6	-172.6	208.9	201.5	7.33	28.503		
300.0	300.0	300.0	300.0	3.7	3.7	-55.74	117.6	-172.6	208.9	201.1	7.74	26.982		
400.0	400.0	400.0	400.0	3.9	3.9	-55.74	117.6	-172.6	208.9	200.7	8.14	25.674		
500.0	500.0	500.0	500.0	4.1	4.1	-55.74	117.6	-172.6	208.9	200.4	8.51	24.534		
600.0	600.0	600.0	600.0	4.2	4.2	-55.74	117.6	-172.6	208.9	200.0	8.88	23.528		
700.0	700.0	700.0	700.0	4.4	4.4	-55.74	117.6	-172.6	208.9	199.6	9.23	22.631		
800.0	800.0	800.0	800.0	4.6	4.6	-55.74	117.6	-172.6	208.9	199.3	9.57	21.825		
900.0	900.0	900.0	900.0	4.8	4.8	-55.74	117.6	-172.6	208.9	199.0	9.90	21.094		
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	-55.74	117.6	-172.6	208.9	198.7	10.22	20.428 CC, E	S	
1,100.0	1,100.0	1,101.8	1,101.8	5.1	5.1	159.83	116.3	-173.0	209.7	199.1	10.56	19.862		
1,200.0	1,199.9	1,203.6	1,203.5	5.3	5.3	159.16	112.4	-174.0	212.1	201.2	10.87	19.513		
1,300.0	1,299.7	1,305.2	1,304.8	5.5	5.5	158.06	105.8	-175.8	216.1	204.9	11.19	19.310		
1,400.0	1,399.3	1,406.5	1,405.7	5.7	5.7	156.59	96.7	-178.2	221.9	210.4	11.53	19.247 SF		
1,500.0	1,498.6	1,507.5	1,506.0	6.0	6.0	154.82	85.1	-181.3	229.5	217.7	11.87	19.333		
1,600.0	1,597.5	1,607.2	1,604.7	6.3	6.2	153.00	71.8	-184.9	239.3	227.1	12.17	19.658		
1,700.0	1,696.1	1,701.8	1,698.4	6.5	6.4	151.60	59.3	-188.9	252.1	239.6	12.50	20.175		
1,733.3	1,728.8	1,733.0	1,729.4	6.6	6.4	151.20	55.3	-190.7	257.4	244.9	12.57	20.486		
1,800.0	1,794.3	1,798.7	1,794.4	6.8	6.6	150.53	47.0	-194.5	268.5	255.8	12.76	21.042		
1,900.0	1,892.4	1,897.2	1,891.9	7.1	6.9	149.61	34.6	-200.3	285.2	272.1	13.15	21.693		
2,000.0	1,990.6	1,995.7	1,989.5	7.4	7.2	148.80	22.2	-206.1	301.9	288.4	13.55	22.290		
2,100.0	2,088.8	2,094.2	2,087.0	7.8	7.5	148.07	9.7	-211.9	318.7	304.8	13.96	22.837		
2,200.0	2,186.9	2,192.7	2,184.6	8.1	7.8	147.42	-2.7	-217.7	335.6	321.2	14.38	23.339		
2,300.0	2,285.1	2,291.2	2,282.1	8.5	8.2	146.82	-15.1	-223.5	352.5	337.6	14.81	23.800		
2,400.0	2,383.3	2,389.7	2,379.7	8.8	8.5	146.28	-27.5	-229.3	369.4	354.1	15.25	24.224		
2,500.0	2,481.4	2,488.2	2,477.2	9.2	8.8	145.79	-40.0	-235.1	386.3	370.6	15.70	24.613		
2,600.0	2,579.6	2,586.7	2,574.8	9.6	9.2	145.34	-52.4	-240.9	403.3	387.1	16.15	24.971		
2,700.0	2,677.7	2,685.2	2,672.3	10.0	9.6	144.93	-64.8	-246.7	420.3	403.6	16.61	25.301		
2,800.0	2,775.9	2,783.7	2,769.8	10.4	9.9	144.55	-77.2	-252.5	437.3	420.2	17.08	25.606		
2,900.0	2,874.1	2,882.2	2,867.4	10.8	10.3	144.19	-89.7	-258.2	454.3	436.7	17.55	25.888		
3,000.0	2,972.2	2,980.7	2,964.9	11.2	10.7	143.86	-102.1	-264.0	471.3	453.3	18.02	26.149		
3,100.0	3,070.4	3,079.2	3,062.5	11.6	11.1	143.56	-114.5	-269.8	488.4	469.9	18.51	26.390		
3,200.0	3,168.6	3,177.7	3,160.0	12.0	11.5	143.28	-126.9	-275.6	505.4	486.5	18.99	26.614		
3,300.0	3,266.7	3,276.2	3,257.6	12.5	11.8	143.01	-139.4	-281.4	522.5	503.0	19.48	26.822		
3,400.0	3,364.9	3,374.8	3,355.1	12.9	12.2	142.76	-151.8	-287.2	539.6	519.6	19.97	27.016		
3,500.0	3,463.0	3,473.3	3,452.6	13.3	12.6	142.53	-164.2	-293.0	556.7	536.2	20.47	27.197		
3,600.0	3,561.2	3,571.8	3,550.2	13.7	13.0	142.31	-176.6	-298.8	573.8	552.8	20.97	27.365		
3,700.0	3,659.4	3,670.3	3,647.7	14.2	13.4	142.10	-189.1	-304.6	590.9	569.5	21.47	27.523		
3,800.0	3,757.5	3,768.8	3,745.3	14.6	13.8	141.91	-201.5	-310.4	608.1	586.1	21.98	27.670		
3,900.0	3,855.7	3,867.3	3,842.8	15.0	14.2	141.72	-213.9	-316.2	625.2	602.7	22.48	27.808		
4,000.0	3,953.9	3,965.8	3,940.4	15.5	14.6	141.55	-226.3	-322.0	642.3	619.3	22.99	27.937		
4,100.0	4,052.0	4,064.3	4,037.9	15.9	15.0	141.38	-238.8	-327.8	659.4	635.9	23.50	28.059		
4,200.0	4,150.2	4,162.8	4,135.5	16.4	15.4	141.22	-251.2	-333.6	676.6	652.6	24.02	28.173		
4,300.0	4,248.3	4,261.3	4,233.0	16.8	15.8	141.07	-263.6	-339.4	693.7	669.2	24.53	28.280		
4,400.0	4,346.5	4,359.8	4,330.5	17.3	16.2	140.93	-276.0	-345.2	710.9	685.8	25.05	28.382		
4,500.0	4,444.7	4,458.3	4,428.1	17.7	16.6	140.79	-288.5	-350.9	728.1	702.5	25.57	28.477		
4,600.0	4,542.8	4,556.8	4,525.6	18.1	17.0	140.67	-300.9	-356.7	745.2	719.1	26.09	28.567		
4,700.0	4,641.0	4,655.3	4,623.2	18.6	17.5	140.54	-313.3	-362.5	762.4	735.8	26.61	28.652		
4,800.0	4,739.2	4,753.8	4,720.7	19.0	17.9	140.42	-325.7	-368.3	779.5	752.4	27.13	28.733		
4,900.0	4,837.3	4,852.3	4,818.3	19.5	18.3	140.31	-338.2	-374.1	796.7	769.1	27.65	28.809		

Anticollision Report

Company: DELAWARE BASIN WEST

WARE BASIN WEST Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

Project: ATLAS PROSPECT (DBW)
Reference Site: WILD THING PROJECT

 $\begin{array}{lll} \textbf{TVD Reference:} & & \text{GL @ } 2940.0 \text{usft} \\ \textbf{MD Reference:} & & \text{GL @ } 2940.0 \text{usft} \\ \end{array}$

Site Error: 0.0 usft

North Reference: Grid

Reference Well: _WILD THING FED COM 902H

Survey Calculation Method: Minimum Curvature

Well Error: 3.0 usft

Output errors are at 2

2.00 sigma

Reference Wellbore OWB
Reference Design: PWP0

Database: EDT 17 Permian Prod

Offset TVD Reference: Reference Datum

ırvey Progi		.5 MWD+IFR1								Rule Assig	jned:		Offset Well Error:	3.0 us
Refe Measured	rence Vertical	Off: Measured	set Vertical	Semi I Reference	Major Axis Offset	Highside	Offset Wellb	ore Centre	Dist Between	ance Between	No-Go	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Distance (usft)	Factor	••uning	
5,000.0	4,935.5	4,950.8	4,915.8	19.9	18.7	140.20	-350.6	-379.9	813.9	785.7	28.18	28.882		
5,100.0	5,033.6	5,049.3	5,013.3	20.4	19.1	140.10	-363.0	-385.7	831.1	802.3	28.71	28.946		
5,106.5	5,040.0	5,055.7	5,019.7	20.4	19.1	140.09	-363.8	-386.1	832.2	803.4	28.75	28.950		
5,200.0	5,131.9	5,147.9	5,110.9	20.8	19.5	140.03	-375.4	-391.5	848.0	818.7	29.23	29.009		
5,300.0	5,230.3	5,246.5	5,208.6	21.3	19.9	139.94	-387.9	-397.3	864.2	834.4	29.74	29.053		
5,400.0	5,328.8	5,345.2	5,306.4	21.7	20.3	139.81	-400.3	-403.1	879.8	849.5	30.25	29.083		
5,500.0	5,427.5	5,444.1	5,404.3	22.2	20.8	139.64	-412.8	-408.9	894.7	864.0	30.75	29.100		
5,600.0	5,526.3	5,543.0	5,502.2	22.6	21.2	139.45	-425.3	-414.7	909.0	877.8	31.23	29.105		
5,700.0	5,625.3	5,641.9	5,600.2	23.0	21.6	139.23	-437.8	-420.6	922.7	890.9	31.71	29.099		
5,800.0	5,724.4	5,741.0	5,698.3	23.4	22.0	138.97	-450.2	-426.4	935.7	903.5	32.17	29.083		
5,900.0	5,823.6	5,840.1	5,796.4	23.9	22.4	138.69	-462.7	-432.2	948.1	915.4	32.63	29.058		
6,000.0	5,922.9	5,939.2	5,894.6	24.3	22.9	138.38	-475.2	-438.0	959.8	926.8	33.07	29.026		
6,100.0	6,022.3	6,038.4	5,992.8	24.7	23.3	138.04	-487.8	-443.9	971.0	937.5	33.50	28.986		
6,200.0	6,121.8	6,137.6	6,091.0	25.1	23.7	137.68	-500.3	-449.7	981.6	947.7	33.92	28.939		
6,300.0	6,221.3	6,236.8	6,189.3	25.5	24.1	137.29	-512.8	-455.6	991.5	957.2	34.32	28.887		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: Reference Site: WILD THING PROJECT

TVD Reference: GL @ 2940.0usft GL @ 2940.0usft

Grid

Site Error: 0.0 usft _WILD THING FED COM 902H Reference Well:

MD Reference: North Reference:

Well Error: 3.0 usft **Survey Calculation Method:**

Minimum Curvature

OWB Reference Wellbore Reference Design: PWP0 Output errors are at 2.00 sigma

EDT 17 Permian Prod Database: Reference Datum Offset TVD Reference:

			. 1.10											
rvey Progr Refei	rence	r.5 MWD+IFR1 Off	set		Major Axis		Offset Wellb	ore Centre		Rule Assi tance	-		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	No-Go Distance	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
0.0	0.0	0.0	0.0	3.0	3.0	-63.26	98.7	-195.9	219.4	213.0	6.43	34.124		
100.0	100.0	100.0	100.0	3.2	3.2	-63.26	98.7	-195.9	219.4	212.5	6.89	31.830		
200.0	200.0	200.0	200.0	3.5	3.5	-63.26	98.7	-195.9	219.4	212.1	7.33	29.937		
300.0	300.0	300.0	300.0	3.7	3.7	-63.26	98.7	-195.9	219.4	211.6	7.74	28.339		
400.0	400.0	400.0	400.0	3.9	3.9	-63.26	98.7	-195.9	219.4	211.2	8.14	26.966		
500.0	500.0	500.0	500.0	4.1	4.1	-63.26	98.7	-195.9	219.4	210.9	8.51	25.769		
600.0	600.0	600.0	600.0	4.2	4.2	-63.26	98.7	-195.9	219.4	210.5	8.88	24.712		
700.0	700.0	700.0	700.0	4.4	4.4	-63.26	98.7	-195.9	219.4	210.2	9.23	23.770		
800.0	800.0	800.0	800.0	4.6	4.6	-63.26	98.7	-195.9	219.4	209.8	9.57	22.923		
900.0	900.0	900.0	900.0	4.8	4.8	-63.26	98.7	-195.9	219.4	209.5	9.90	22.156		
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	-63.26	98.7	-195.9	219.4	209.2	10.22	21.456 CC, ES	3	
1,100.0	1,100.0	1,097.7	1,097.7	5.1	5.1	152.38	97.9	-196.9	221.1	210.5	10.55	20.950		
1,200.0	1,199.9	1,195.3	1,195.2	5.3	5.3	151.93	95.5	-199.8	226.1	215.2	10.86	20.816 SF		
1,300.0	1,299.7	1,292.5	1,292.2	5.5	5.5	151.21	91.6	-204.5	234.5	223.3	11.18	20.965		
1,400.0	1,399.3	1,389.1	1,388.4	5.7	5.7	150.29	86.1	-211.2	246.3	234.7	11.52	21.369		
1,500.0	1,498.6	1,485.0	1,483.7	6.0	6.0	149.22	79.1	-219.6	261.4	249.5	11.88	22.003		
1,600.0	1,597.5	1,580.1	1,577.9	6.3	6.2	148.06	70.6	-229.8	280.0	267.7	12.26	22.843		
1,700.0	1,696.1	1,674.1	1,670.6	6.5	6.5	146.87	60.8	-241.6	302.0	289.3	12.65	23.866		
1,733.3	1,728.8	1,705.4	1,701.4	6.6	6.6	146.46	57.2	-245.9	310.0	297.3	12.76	24.304		
1,800.0	1,794.3	1,769.9	1,764.9	6.8	6.8	145.83	49.7	-254.9	326.5	313.5	13.00	25.122		
1,900.0	1,892.4	1,866.7	1,860.0	7.1	7.0	144.98	38.4	-268.5	351.3	337.9	13.42	26.180		
2,000.0	1,990.6	1,963.4	1,955.1	7.4	7.4	144.25	27.2	-282.1	376.2	362.3	13.86	27.140		
2,100.0	2,088.8	2,060.2	2,050.3	7.8	7.7	143.60	15.9	-295.6	401.1	386.8	14.32	28.009		
2,200.0	2,186.9	2,157.0	2,145.4	8.1	8.0	143.04	4.7	-309.2	426.0	411.2	14.79	28.797		
2,300.0	2,285.1	2,253.7	2,240.5	8.5	8.3	142.53	-6.6	-322.8	451.0	435.7	15.28	29.510		
2,400.0	2,383.3	2,350.5	2,335.7	8.8	8.7	142.08	-17.9	-336.3	476.0	460.3	15.79	30.156		
2,500.0	2,481.4	2,447.2	2,430.8	9.2	9.0	141.67	-29.1	-349.9	501.1	484.8	16.30	30.741		
2,600.0	2,579.6	2,544.0	2,525.9	9.6	9.4	141.30	-40.4	-363.5	526.1	509.3	16.82	31.272		
2,700.0	2,677.7	2,640.7	2,621.1	10.0	9.8	140.97	-51.7	-377.0	551.2	533.9	17.36	31.755		
2,800.0	2,775.9	2,737.5	2,716.2	10.4	10.2	140.66	-62.9	-390.6	576.3	558.4	17.90	32.194		
2,900.0	2,874.1	2,834.2	2,811.3	10.8	10.6	140.38	-74.2	-404.2	601.4	583.0	18.45	32.594		
2 000 0	0.070.0	0.004.0	0.000 5	44.0	40.0	440.40	05.4	447.7	000.0	007.0	40.04	22.050		
3,000.0 3,100.0	2,972.2 3,070.4	2,931.0 3,027.8	2,906.5 3,001.6	11.2 11.6	10.9 11.3	140.13 139.89	-85.4 -96.7	-417.7 -431.3	626.6 651.7	607.6 632.1	19.01 19.58	32.959 33.292		
3,200.0	3,168.6	3,124.5	3,001.6	12.0	11.7	139.69	-108.0	-431.3 -444.9	676.8	656.7	20.15	33.597		
3,300.0	3,266.7	3,221.3	3,191.9	12.5	12.1	139.46	-119.2	-458.4	702.0	681.3	20.13	33.876		
3,400.0	3,364.9	3,318.0	3,191.9	12.9	12.1	139.40	-119.2	-472.0	702.0	705.9	21.30	34.133		
3,500.0	3,463.0	3,414.8	3,382.2	13.3	12.9	139.10	-141.8	-485.6	752.3	730.4	21.89	34.369		
3,600.0	3,561.2	3,511.5	3,477.3	13.7	13.3	138.93	-153.0	-499.1	777.5	755.0	22.48	34.587		
3,700.0	3,659.4	3,608.3	3,572.4	14.2	13.8	138.77	-164.3	-512.7	802.7	779.6	23.07	34.787		
3,800.0 3,900.0	3,757.5 3,855.7	3,705.0 3,801.8	3,667.6 3,762.7	14.6 15.0	14.2 14.6	138.63 138.49	-175.6 -186.8	-526.3 -539.8	827.9 853.1	804.2 828.8	23.67 24.27	34.972 35.144		
4,000.0	3,953.9	3,898.6	3,857.8	15.5	15.0	138.36	-198.1	-553.4	878.3	853.4	24.88	35.303		
4,100.0	4,052.0	3,995.3	3,953.0	15.9	15.4	138.24	-209.3	-567.0	903.5	878.0	25.49	35.450		
4,200.0	4,150.2	4,092.1	4,048.1	16.4	15.8	138.12	-220.6	-580.5	928.7	902.6	26.10	35.587		
4,300.0 4,400.0	4,248.3 4,346.5	4,188.8 4,285.6	4,143.2 4,238.4	16.8 17.3	16.3	138.01	-231.9	-594.1	953.9	927.2	26.71	35.714		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

0.0 usft

_WILD THING FED COM 902H

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

North Reference: Grid

Survey Calculation Method:

Minimum Curvature

3.0 usft Well Error: Reference Wellbore OWB

Output errors are at 2.00 sigma

PWP0 Reference Design:

Site Error:

Reference Well:

Database: EDT 17 Permian Prod Offset TVD Reference: Reference Datum

vey Progr		r.5 MWD+IFR1	+MS							Rule Assig	unadı.		Offset Site Error: Offset Well Error:	0.0 u:
Refe	rence	Off	set		Major Axis		Offset Wellb	ore Centre		tance				3.0 u
easured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	50.90	18.9	23.2	29.9	23.5	6.43	4.657		
100.0	100.0	100.0	100.0	3.2	3.2	50.90	18.9	23.2	29.9	23.0	6.89	4.344		
200.0	200.0	200.0	200.0	3.5	3.5	50.90	18.9	23.2	29.9	22.6	7.33	4.085		
300.0	300.0	300.0	300.0	3.7	3.7	50.90	18.9	23.2	29.9	22.2	7.74	3.867		
400.0	400.0	400.0	400.0	3.9	3.9	50.90	18.9	23.2	29.9	21.8	8.14	3.680		
500.0	500.0	500.0	500.0	4.1	4.1	50.90	18.9	23.2	29.9	21.4	8.51	3.517		
600.0	600.0	600.0	600.0	4.2	4.2	50.90	18.9	23.2	29.9	21.1	8.88	3.372		
700.0	700.0	700.0	700.0	4.4	4.4	50.90	18.9	23.2	29.9	20.7	9.23	3.244		
800.0	800.0	800.0	800.0	4.6	4.6	50.90	18.9	23.2	29.9	20.4	9.57	3.128		
900.0	900.0	900.0	900.0	4.8	4.8	50.90	18.9	23.2	29.9	20.0	9.90	3.024		
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	50.90	18.9	23.2	29.9	19.7	10.22	2.928 Norm	nal Operations, CC, ES	
1,100.0	1,100.0	1,099.8	1,099.8	5.1	5.1	-93.35	18.1	24.2	30.3	19.8	10.52	2.879 Norm	nal Operations	
1,200.0	1,199.9	1,199.7	1,199.6	5.3	5.3	-93.49	15.6	27.3	31.3	20.5	10.78	2.905 Norm	nal Operations	
1,300.0	1,299.7	1,299.5	1,299.2	5.5	5.5	-93.70	11.5	32.4	33.1	22.0	11.05	2.993 Norm	nal Operations	
1,400.0	1,399.3	1,399.3	1,398.5	5.7	5.7	-93.96	5.8	39.5	35.5	24.2	11.31	3.139		
1,500.0	1,498.6	1,499.0	1,497.6	6.0	6.0	-94.24	-1.6	48.6	38.6	27.0	11.57	3.337		
1,600.0	1,597.5	1,598.8	1,596.3	6.3	6.3	-94.52	-10.5	59.7	42.4	30.6	11.83	3.585		
1,700.0	1,696.1	1,698.5	1,694.6	6.5	6.6	-94.79	-21.1	72.8	46.9	34.8	12.10	3.877		
1,733.3	1,728.8	1,731.7	1,727.2	6.6	6.7	-94.87	-25.0	77.6	48.6	36.4	12.16	3.992		
1,800.0	1,794.3	1,798.1	1,792.3	6.8	6.9	-94.45	-33.3	87.9	52.0	39.7	12.31	4.226		
1,900.0	1,892.4	1,897.6	1,889.4	7.1	7.2	-91.80	-47.0	104.9	57.7	45.1	12.61	4.578		
2,000.0	1,990.6	1,997.3	1,986.4	7.4	7.5	-88.45	-61.7	123.1	63.9	50.9	12.93	4.939		
2,100.0	2,088.8	2,097.1	2,083.3	7.8	7.9	-85.69	-76.3	141.2	70.2	56.9	13.29	5.285		
2,200.0	2,186.9	2,196.8	2,180.3	8.1	8.2	-83.39	-90.9	159.3	76.7	63.0	13.67	5.612		
2,300.0	2,285.1	2,296.6	2,277.3	8.5	8.6	-81.45	-105.5	177.4	83.3	69.2	14.07	5.919		
2,400.0	2,383.3	2,396.3	2,374.3	8.8	9.0	-79.80	-120.2	195.5	89.9	75.4	14.49	6.206		
2,500.0	2,481.4	2,496.1	2,471.3	9.2	9.4	-78.38	-134.8	213.7	96.7	81.7	14.93	6.472		
2,600.0	2,579.6	2,595.8	2,568.3	9.6	9.8	-77.14	-149.4	231.8	103.4	88.0	15.39	6.719		
2,700.0	2,677.7	2,695.6	2,665.3	10.0	10.2	-76.05	-164.0	249.9	110.2	94.4	15.87	6.947		
2,800.0	2,775.9	2,795.3	2,762.3	10.4	10.6	-75.09	-178.6	268.0	117.1	100.7	16.36	7.158		
2,900.0	2,874.1	2,895.1	2,859.3	10.8	11.0	-74.24	-193.3	286.2	124.0	107.1	16.86	7.353		
3,000.0	2,972.2	2,994.8	2,956.3	11.2	11.4	-73.48	-207.9	304.3	130.9	113.5	17.37	7.533		
3,100.0	3,070.4	3,094.6	3,053.3	11.6	11.9	-72.79	-222.5	322.4	137.8	119.9	17.90	7.700		
3,200.0	3,168.6	3,194.3	3,150.2	12.0	12.3	-72.17	-237.1	340.5	144.8	126.3	18.43	7.853		
3,300.0	3,266.7	3,294.1	3,247.2	12.5	12.7	-71.61	-251.8	358.6	151.7	132.7	18.98	7.995		
3,400.0	3,364.9	3,393.8	3,344.2	12.9	13.2	-71.09	-266.4	376.8	158.7	139.2	19.53	8.127		
3,500.0	3,463.0	3,493.5	3,441.2	13.3	13.6	-70.62	-281.0	394.9	165.7	145.6	20.08	8.249		
3,600.0	3,561.2	3,593.3	3,538.2	13.7	14.1	-70.19	-295.6	413.0	172.7	152.0	20.65	8.362		
3,700.0	3,659.4	3,693.0	3,635.2	14.2	14.5	-69.79	-310.2	431.1	179.7	158.4	21.22	8.467		
3,800.0	3,757.5	3,792.8	3,732.2	14.6	15.0	-69.42	-324.9	449.2	186.7	164.9	21.79	8.565		
3,900.0	3,855.7	3,892.5	3,829.2	15.0	15.4	-69.08	-339.5	467.4	193.7	171.3	22.38	8.657		
4,000.0	3,953.9	3,992.3	3,926.2	15.5	15.9	-68.76	-354.1	485.5	200.7	177.8	22.96	8.742		
4,100.0	4,052.0	4,092.0	4,023.2	15.9	16.3	-68.46	-368.7	503.6	207.8	184.2	23.55	8.821		
4,200.0	4,150.2	4,191.8	4,120.2	16.4	16.8	-68.18	-383.4	521.7	214.8	190.6	24.15	8.895		
4,300.0	4,248.3	4,291.5	4,217.1	16.8	17.3	-67.92	-398.0	539.9	221.8	197.1	24.74	8.965		
4,400.0	4,346.5	4,391.3	4,314.1	17.3	17.7	-67.68	-412.6	558.0	228.9	203.5	25.35	9.030		
4,500.0	4,444.7	4,491.0	4,411.1	17.7	18.2	-67.45	-427.2	576.1	235.9	210.0	25.95	9.091		
4,600.0	4,542.8	4,590.8	4,508.1	18.1	18.7	-67.23	-441.8	594.2	243.0	216.4	26.56	9.149		
4,700.0	4,641.0	4,690.5	4,605.1	18.6	19.1	-67.03	-456.5	612.3	250.0	222.9	27.17	9.203		
4,800.0	4,739.2	4,790.3	4,702.1	19.0	19.6	-66.84	-471.1	630.5	257.1	229.3	27.78	9.254		
1,900.0	4,837.3	4,890.0	4,799.1	19.5	20.1	-66.66	-485.7	648.6	264.2	235.8	28.40	9.302		

Anticollision Report

Company: DELAWARE BASIN WEST

AWARE BASIN WEST Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

Project: ATLAS PROSPECT (DBW)
Reference Site: WILD THING PROJECT

 $\begin{array}{lll} \text{TVD Reference:} & \text{GL} @ 2940.0 \text{usft} \\ \text{MD Reference:} & \text{GL} @ 2940.0 \text{usft} \\ \end{array}$

Site Error: 0.0 usft

North Reference: Gri

Grid

Reference Well: _WILD THING FED COM 902H
Well Error: 3.0 usft

Survey Calculation Method:

Minimum Curvature

Reference Wellbore OWB
Reference Design: PWP0

Output errors are at Database:

2.00 sigma EDT 17 Permian Prod

Offset TVD Reference:

Reference Datum

vey Progr Refe	ram: 0-r. rence	.5 MWD+IFR1 Off		Semi I	Major Axis		Offset Wellb	ore Centre	Dis	Rule Assi	gned:		Offset Well Error:	3.0 u
easured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S (usft)	+E/-W (usft)	Between Centres	Between Ellipses	No-Go Distance	Separation Factor	Warning	
(usft) 5,000.0	(usft) 4,935.5	(usft) 4,989.8	(usft) 4,896.1	(usft) 19.9	(usft) 20.5	(°) -66.48	-500.3	666.7	(usft) 271.2	(usft) 242.2	(usft) 29.02	9.347		
5,100.0	5,033.6	5,089.5	4,993.1	20.4	21.0	-66.32	-515.0	684.8	278.3	248.6	29.64	9.389		
5,106.5	5,040.0	5,096.0	4,999.3	20.4	21.0	-66.31	-515.9	686.0	278.7	249.1	29.68	9.391		
5,200.0	5,131.9	5,189.2	5,090.0	20.8	21.5	-66.12	-529.6	702.9	285.5	255.2	30.28	9.429		
5,300.0	5,230.3	5,288.9	5,187.0	21.3	21.9	-65.79	-544.2	721.1	293.1	262.1	30.97	9.463		
5,400.0	5,328.8	5,388.6	5,283.9	21.7	22.4	-65.32	-558.8	739.2	301.0	269.3	31.72	9.492		
5,500.0	5,427.5	5,488.2	5,380.7	22.2	22.9	-64.73	-573.4	757.3	309.4	276.9	32.51	9.517		
5,600.0	5,526.3	5,587.7	5,477.5	22.6	23.3	-64.04	-588.0	775.3	318.2	284.8	33.35	9.539		
5,700.0	5,625.3	5,687.2	5,574.2	23.0	23.8	-63.25	-602.6	793.4	327.4	293.1	34.24	9.559		
5,800.0	5,724.4	5,786.6	5,670.9	23.4	24.3	-62.38	-617.1	811.5	337.0	301.8	35.18	9.580		
5,900.0	5,823.6	5,885.9	5,767.4	23.9	24.8	-61.43	-631.7	829.5	347.2	311.0	36.16	9.601		
6,000.0	5,922.9	5,985.1	5,863.9	24.3	25.2	-60.42	-646.2	847.5	357.9	320.7	37.18	9.625		
6,100.0	6,022.3	6,085.7	5,961.8	24.7	25.7	-59.35	-660.9	865.7	369.1	330.8	38.23	9.654		
6,200.0	6,121.8	6,189.9	6,063.4	25.1	26.2	-58.35	-675.3	883.5	379.8	340.5	39.28	9.670		
6,300.0	6,221.3	6,294.3	6,165.7	25.5	26.7	-57.46	-688.5	899.9	389.8	349.6	40.27	9.679		
6,400.0	6,321.0	6,399.2	6,268.8	25.8	27.1	-56.69	-700.5	914.8	399.0	357.8	41.21	9.683		
6,500.0	6,420.7	6,504.3	6,372.5	26.2	27.6	-56.03	-711.4	928.3	407.4	365.3	42.09	9.680		
6,600.0	6,520.5	6,609.7	6,476.7	26.6	28.1	-55.45	-721.2	940.4	414.9	372.0	42.90	9.671		
6,700.0	6,620.3	6,715.3	6,581.5	26.9	28.5	-54.96	-729.7	951.0	421.5	377.9	43.66	9.655		
6,800.0	6,720.2	6,821.2	6,686.6	27.3	28.9	-54.54	-737.1	960.1	427.3	382.9	44.36	9.633		
6,900.0	6,820.1	6,927.2	6,792.2	27.6	29.4	-54.19	-743.2	967.7	432.1	387.1	44.99	9.605		
7,000.0	6,920.1	7,033.4	6,898.1	27.9	29.8	-53.92	-748.1	973.8	436.1	390.5	45.56	9.572		
7,100.0	7,020.1	7,139.7	7,004.2	28.2	30.1	-53.70	-751.8	978.4	439.1	393.0	46.05	9.534		
7,200.0	7,120.0	7,246.0	7,110.5	28.4	30.5	-53.55	-754.3	981.4	441.1	394.7	46.46	9.495		
7,300.0	7,220.0	7,352.5	7,217.0	28.6	30.7	-53.45	-755.5	982.9	442.3	395.6	46.68	9.474		
7,306.5	7,226.5	7,359.4	7,223.9	28.6	30.7	90.75	-755.5	983.0	442.3	395.6	46.69	9.473		
7,400.0	7,320.0	7,455.5	7,320.0	28.6	30.8	90.77	-755.6	983.1	442.4	395.7	46.73	9.468		
7,500.0	7,420.0	7,555.5	7,420.0	28.6	30.8	90.77	-755.6	983.1	442.4	395.7	46.77	9.460		
7,600.0	7,520.0	7,655.5	7,520.0	28.6	30.8	90.77	-755.6	983.1	442.4	395.6	46.81	9.452		
7,700.0	7,620.0	7,755.5	7,620.0	28.6	30.8	90.77	-755.6	983.1	442.4	395.6	46.85	9.444		
7,800.0	7,720.0	7,855.5	7,720.0	28.6	30.8	90.77	-755.6	983.1	442.4	395.5	46.89	9.436		
7,900.0	7,820.0	7,955.5	7,820.0	28.7	30.9	90.77	-755.6	983.1	442.4	395.5	46.93	9.428		
8,000.0	7,920.0	8,055.5	7,920.0	28.7	30.9	90.77	-755.6	983.1	442.4	395.5	46.97	9.419		
8,100.0	8,020.0	8,155.5	8,020.0	28.7	30.9	90.77	-755.6	983.1	442.4	395.4	47.01	9.411		
8,200.0	8,120.0	8,255.5	8,120.0	28.7	30.9	90.77	-755.6	983.1	442.4	395.4	47.05	9.403		
8,300.0	8,220.0	8,355.5	8,220.0	28.7	30.9	90.77	-755.6	983.1	442.4	395.3	47.10	9.394		
8,400.0	8,320.0	8,455.5	8,320.0	28.8	31.0	90.77	-755.6	983.1	442.4	395.3	47.14	9.385		
8,500.0	8,420.0	8,555.5	8,420.0	28.8	31.0	90.77	-755.6	983.1	442.4	395.2	47.18	9.377		
8,600.0	8,520.0	8,655.5	8,520.0	28.8	31.0	90.77	-755.6	983.1	442.4	395.2	47.23	9.368		
8,700.0	8,620.0	8,755.5	8,620.0	28.8	31.0	90.77	-755.6	983.1	442.4	395.2	47.27	9.359		
8,800.0	8,720.0	8,855.5	8,720.0	28.8	31.0	90.77	-755.6	983.1	442.4	395.1	47.32	9.350		
8,900.0	8,820.0	8,955.5	8,820.0	28.9	31.1	90.77	-755.6	983.1	442.4	395.1	47.37	9.341		
9,000.0	8,920.0	9,055.5	8,920.0	28.9	31.1	90.77	-755.6	983.1	442.4	395.0	47.41	9.332		
9,100.0	9,020.0	9,155.5	9,020.0	28.9	31.1	90.77	-755.6	983.1	442.4	395.0	47.46	9.322		
9,200.0	9,120.0	9,255.5	9,120.0	28.9	31.1	90.77	-755.6	983.1	442.4	394.9	47.51	9.313		
9,300.0	9,220.0	9,355.5	9,220.0	28.9	31.1	90.77	-755.6	983.1	442.4	394.9	47.55	9.303		
9,400.0	9,320.0	9,455.5	9,320.0	29.0	31.2	90.77	-755.6	983.1	442.4	394.8	47.60	9.294		
9,500.0	9,420.0	9,555.5	9,420.0	29.0	31.2	90.77	-755.6	983.1	442.4	394.8	47.65	9.284		
9,600.0	9,520.0	9,655.5	9,520.0	29.0	31.2	90.77	-755.6	983.1	442.4	394.7	47.70	9.275		
9,700.0	9,620.0	9,755.5	9,620.0	29.0	31.2	90.77	-755.6	983.1	442.4	394.7	47.75	9.265		

Anticollision Report

Company: DELAWARE BASIN WEST

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

Project: ATLAS PROSPECT (DBW)
Reference Site: WILD THING PROJECT

0.0 usft

 TVD Reference:
 GL @ 2940.0usft

 MD Reference:
 GL @ 2940.0usft

North Reference: Grid

Survey Calculation Method: Minimum

Output errors are at 2.00 sigma

Minimum Curvature

 Well Error:
 3.0 usft
 Out

 Reference Wellbore
 OWB
 Data

_WILD THING FED COM 902H

Database: EDT 17 Permian Prod

Reference Wellbore OWB **Reference Design:** PWP0

Site Error:

Reference Well:

Offset TVD Reference: Reference Datum

Offset Des	sign: WI	LD THING	PROJECT	WILD 1	THING FE	ED COM 901	H - OWB - PW	/P0					Offset Site Error:	0.0 usft
Survey Progra		r.5 MWD+IFR1			Maian Auto		0#			Rule Assi	gned:		Offset Well Error:	3.0 usft
Measured Depth (usft)	rence Vertical Depth (usft)	Off Measured Depth (usft)	vertical Depth (usft)	Reference (usft)	Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellb +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	tance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
9,800.0	9,720.0	9,855.5	9,720.0	29.0	31.3	90.77	-755.6	983.1	442.4	394.6	47.80	9.255		
9,900.0	9,820.0	9,955.5	9,820.0	29.1	31.3	90.77	-755.6	983.1	442.4	394.6	47.85	9.245		
10,000.0	9,920.0	10,055.5	9,920.0	29.1	31.3	90.77	-755.6	983.1	442.4	394.5	47.91	9.235		
10,100.0	10,020.0	10,155.5	10,020.0	29.1	31.3	90.77	-755.6	983.1	442.4	394.5	47.96	9.225		
10,200.0	10,120.0	10,255.5	10,120.0	29.1	31.4	90.77	-755.6	983.1	442.4	394.4	48.01	9.215		
10,207.0	10,127.0	10,262.5	10,127.0	29.1	31.4	90.77	-755.6	983.1	442.4	394.4	48.02	9.214		
10,250.0	10,170.0	10,305.5	10,170.0	29.1	31.4	91.35	-755.6	983.1	442.5	394.3	48.12	9.194		
10,300.0	10,219.6	10,355.1	10,219.6	29.0	31.4	92.09	-755.6	983.1	442.6	394.2	48.48	9.130		
10,350.0	10,268.6	10,404.1	10,268.6	28.8	31.4	93.33	-755.6	983.1	443.1	394.1	49.07	9.030		
10,400.0 10,450.0	10,316.4 10,362.8	10,451.8 10,500.4	10,316.3 10,364.5	28.7 28.5	31.4 31.3	94.83 96.30	-754.3 -748.9	983.2 983.7	444.2 446.1	394.4 395.7	49.80 50.44	8.921 8.844		
10,500.0	10,407.4	10,550.1	10,413.3	28.4	31.2	97.72	-739.2	984.5	448.8	397.8	50.97	8.804		
10,550.0	10,449.9	10,601.0	10,462.1	28.2	31.1	99.09	-725.0	985.8	452.1	400.8	51.36	8.803		
10,600.0	10,489.9	10,653.3	10,510.7	28.0	30.9	100.38	-706.0	987.4	456.2	404.6	51.60	8.842		
10,650.0	10,527.2	10,706.8	10,558.6	27.9	30.8	101.59	-681.9	989.5	460.9	409.3	51.66	8.923		
10,700.0	10,561.4	10,761.9	10,605.1	27.7	30.7	102.70	-652.8	992.1	466.2	414.6	51.54	9.046		
10,750.0	10,592.3	10,818.4	10,649.8	27.6	30.6	103.70	-618.3	995.1	471.9	420.7	51.24	9.209		
10,800.0	10,619.7	10,876.5	10,691.9	27.5	30.5	104.58	-578.5	998.6	478.0	427.2	50.78	9.412		
10,850.0	10,643.3	10,936.1	10,730.7	27.4	30.3	105.33	-533.4	1,002.5	484.4	434.2	50.18	9.653		
10,900.0	10,663.0	10,997.2	10,765.4	27.3	30.2	105.94	-483.3	1,006.9	490.8	441.4	49.45	9.926		
10,950.0	10,678.6	11,059.9	10,795.2	27.2	30.2	106.40	-428.4	1,011.7	497.4	448.7	48.63	10.228		
11,000.0	10,690.0	11,124.0	10,819.2	27.2	30.1	106.69	-369.3	1,016.9	503.8	456.0	47.74	10.552		
11,050.0	10,697.1	11,189.3	10,836.8	27.2	30.1	106.82	-306.7	1,022.4	510.0	463.1	46.84	10.888		
11,100.0	10,699.9	11,255.7	10,847.1	27.2	30.1	106.78	-241.4	1,028.1	515.9	469.9	45.94	11.229		
11,107.0	10,700.0	11,265.0	10,848.0	27.2	30.1	106.76	-232.2	1,028.9	516.7	470.9	45.82	11.276		
11,200.0	10,700.0	11,382.2	10,850.0	27.2	30.2	106.65	-115.3	1,038.3	524.8	480.1	44.72	11.735		
11,300.0	10,700.0	11,503.5	10,850.0	27.3	30.3	106.47	5.8	1,043.3	529.4	485.6	43.82	12.083		
11,400.0	10,700.0	11,616.0	10,850.0	27.4	30.4	106.43	118.3	1,043.7	530.3	487.1	43.26	12.260		
11,500.0	10,700.0	11,716.0	10,850.0	27.4	30.5	106.42	218.3	1,043.3	530.6	487.3	43.22	12.276		
11,600.0	10,700.0	11,816.0	10,850.0	27.5	30.6	106.41	318.3	1,042.9	530.8	487.6	43.24	12.276		
11,700.0	10,700.0	11,916.0	10,850.0	27.6	30.7	106.41	418.3	1,042.5	531.0	487.7	43.31	12.262		
11,800.0	10,700.0	12,016.0	10,850.0	27.7	30.9	106.40	518.3	1,042.1	531.3	487.8	43.43	12.232		
11,900.0	10,700.0	12,116.0	10,850.0	27.8	31.0	106.39	618.3	1,041.7	531.5	487.9	43.61	12.188		
12,000.0	10,700.0	12,216.0	10,850.0	27.9	31.2	106.38	718.3	1,041.3	531.8	487.9	43.84	12.130		
12,100.0	10,700.0	12,316.0	10,850.0	28.1	31.4	106.38	818.3	1,040.9	532.0	487.9	44.12	12.058		
12,200.0	10,700.0	12,416.0	10,850.0	28.2	31.6	106.37	918.3	1,040.5	532.2	487.8	44.45	11.973		
12,300.0	10,700.0	12,516.0	10,850.0	28.4	31.8	106.36	1,018.3	1,040.1	532.5	487.6	44.83	11.877		
12,400.0	10,700.0	12,616.0	10,850.0	28.6	32.0	106.35	1,118.3	1,039.7	532.7	487.4	45.26	11.770		
12,500.0	10,700.0	12,716.0	10,850.0	28.8	32.3	106.35	1,218.3	1,039.3	532.9	487.2	45.73	11.653		
12,600.0 12,700.0	10,700.0 10,700.0	12,816.0 12,916.0	10,850.0 10,850.0	29.0 29.2	32.5 32.8	106.34 106.33	1,318.3 1,418.3	1,038.9 1,038.5	533.2 533.4	486.9 486.6	46.25 46.82	11.527 11.394		
12,800.0	10,700.0	13,016.0	10,850.0	29.4	33.1	106.32	1,518.3	1,038.1	533.7	486.2	47.42	11.253		
12,900.0	10,700.0	13,116.0	10,850.0	29.7	33.4	106.32	1,618.3	1,037.7	533.9	485.8	48.07	11.107		
13,000.0	10,700.0	13,216.0	10,850.0	30.0	33.7	106.31	1,718.3	1,037.3	534.1	485.4	48.75	10.956		
13,100.0	10,700.0	13,316.0	10,850.0	30.2	34.0	106.30	1,818.3	1,036.9	534.4	484.9	49.48	10.801		
13,200.0	10,700.0	13,416.0	10,850.0	30.5	34.3	106.29	1,918.3	1,036.5	534.6	484.4	50.23	10.642		
13,300.0 13,400.0	10,700.0 10,700.0	13,516.0 13,616.0	10,850.0 10,850.0	30.9 31.2	34.7 35.0	106.29 106.28	2,018.3 2,118.3	1,036.1 1,035.7	534.8 535.1	483.8 483.2	51.03 51.85	10.482 10.320		
13,400.0		13,716.0		31.2	35.0 35.4	106.28	2,118.3		535.1	483.2 482.6	52.70	10.320		
13,500.0	10,700.0 10,700.0	13,716.0	10,850.0 10,850.0	31.9	35.4 35.8	106.27	2,218.3	1,035.3 1,034.9	535.3	482.6	53.59	9.994		
13,700.0	10,700.0	13,916.0	10,850.0	32.3	36.1	106.27	2,316.3	1,034.9	535.8	481.3	54.50	9.831		
10,700.0	10,700.0	10,010.0	10,000.0	32.0	30.1	100.20	2,410.0	1,004.0	333.6	701.3	34.50	9.001		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

0.0 usft

TVD Reference: GL @ 2940.0usft GL @ 2940.0usft MD Reference:

North Reference:

_WILD THING FED COM 902H Reference Well:

Site Error:

Reference Design:

Grid

Well Error: 3.0 usft **Survey Calculation Method:** Minimum Curvature

OWB Reference Wellbore PWP0 Output errors are at 2.00 sigma

Offset TVD Reference:

Database:

EDT 17 Permian Prod Reference Datum

WILD THING PROJECT - _WILD THING FED COM 901H - OWB - PWP0 Offset Design: 0.0 usft Offset Site Error: 0-r.5 MWD+IFR1+MS Survey Program: Referenc Rule Assigned: Offset Well Error: 3.0 usft Offset Wellbore Centre Distance rence Semi Major Axis ence Offset Measured Vertical Measured Vertical Reference Highside Between Between No-Go Separation Warning +N/-S +F/-W Toolface Depth Depth Depth Depth Centres Ellipses Distance Factor (usft) (usft) (usft) (usft) (usft) (usft) (usft) (usft) (usft) (°) (usft) (usft) 13.800.0 10.700.0 14.016.0 10.850.0 32.7 36.6 106.25 2.518.3 1.034.0 536.0 480.6 55.44 9.669 2,618.3 479.9 13,900.0 10,700.0 14,116.0 10,850.0 33.1 37.0 106.24 1,033.6 536.3 56.40 9 508 14,000.0 10,700.0 14,216.0 10,850.0 33.6 37.4 106.24 2,718.3 1,033.2 536.5 479.1 57.39 9.348 10.700.0 10.850.0 2.818.3 1.032.8 536.7 478.3 14.100.0 14.316.0 34.0 37.8 106.23 58.40 9.191 14,200.0 10,700.0 14,416.0 10,850.0 34.5 38.3 106.22 2,918.3 1.032.4 537.0 477.6 59.43 9.035 476.7 14,300.0 10,700.0 14,516.0 10,850.0 35.0 38.7 106.21 3,018.3 1,032.0 537.2 60.49 8.882 14.400.0 10.700.0 14.616.0 10.850.0 35.5 39.2 106.21 3.118.3 1.031.6 537.5 475.9 61.56 8.731 14,500.0 10,700.0 14,716.0 10,850.0 36.0 39.7 106.20 3,218.3 1,031.2 537.7 475.1 62.65 8.583 14.600.0 10.700.0 14.816.0 10.850.0 36.5 40.2 106.19 3.318.3 1.030.8 537.9 474.2 63.76 8.437 14,700.0 10,700.0 14,916.0 10,850.0 37.0 40.7 106.18 3,418.3 1,030.4 538.2 473.3 64.88 8.295 14,800.0 10,700.0 15,016.0 10,850.0 37.6 41.2 106.18 3,518.3 1,030.0 538.4 472.4 66.02 8.155 14,900.0 10,700.0 15,116.0 10,850.0 38.1 41.7 106.17 3,618.3 1,029.6 538.7 471.5 67.18 8.018 15.000.0 10.700.0 15.216.0 10.850.0 38.7 42.2 106.16 3.718.3 1.029.2 538.9 470.5 68.35 7.885 15,100.0 10.700.0 15.316.0 10.850.0 39.2 42.7 106.15 3.818.3 1.028.8 469.6 69.53 7.754 539.1 15,200.0 10,700.0 15,416.0 10,850.0 39.8 43.3 106.15 3,918.3 1,028.4 539.4 70.72 7.627 15,300.0 10,700.0 15,516.0 10,850.0 40.4 43.8 106.14 4,018.3 1,028.0 539.6 467.7 71.93 7.502 15,400.0 10.700.0 15.616.0 10,850.0 41.0 44.3 106.13 4,118.3 1,027.6 539.8 466.7 73.15 7.380 10,700.0 15,716.0 10,850.0 41.6 44.9 4,218.3 1,027.2 465.7 7.261 15,500.0 106.13 540.1 74.38 15.600.0 10.700.0 15 816 0 10.850.0 42.2 45.5 106.12 4.318.3 1.026.8 540.3 464.7 75.62 7.145 15,700.0 10,700.0 15,916.0 10,850.0 42.8 106.11 4,418.3 1,026.4 463.7 7.032 46.0 540.6 76.87 15.800.0 10.700.0 16.016.0 10.850.0 43.5 46.6 106.10 4.518.3 1.026.0 540.8 462.7 78.13 6.922 15,900.0 10,700.0 16,116.0 10,850.0 44.1 47.2 106.10 4.618.3 1.025.6 541.0 461 6 79.39 6.815 16,000.0 10,700.0 16,216.0 10,850.0 44.7 47.8 106.09 4,718.3 1,025.2 541.3 460.6 80.67 6.710 16.100.0 10.700.0 16.316.0 10.850.0 45.4 48.4 106.08 4.818.3 1.024.8 541.5 459.6 81.95 6.607 16,200.0 10,700.0 16,416.0 10,850.0 46.0 49.0 106.07 4,918.3 1.024.4 541.7 458.5 83.25 6.508 10,700.0 46.7 5,018.3 542.0 6.411 16,300.0 16,516.0 10,850.0 49.6 106.07 1,024.0 457.4 84.55 16.400.0 10.700.0 16.616.0 10.850.0 47.3 50.2 106.06 5.118.3 1.023.6 542.2 456.4 85.85 6.316 16,500.0 10,700.0 16,716.0 10,850.0 48.0 50.8 106.05 5,218.3 1,023.2 542.5 455.3 87.17 6.223 16.600.0 10.700.0 16.816.0 10.850.0 48.6 51.4 106.05 5.318.3 1.022.7 542.7 454.2 88.49 6.133 10,700.0 16,916.0 10,850.0 49.3 52.1 5,418.3 1,022.3 453.1 89.81 6.045 16,700.0 106.04 542.9 52.7 16,800.0 10,700.0 17,016.0 10,850.0 50.0 106.03 5,518.3 1,021.9 543.2 452.0 91.14 5.960 16,900.0 10,700.0 17,116.0 10,850.0 50.6 53.3 106.02 5,618.3 1,021.5 543.4 450.9 92.48 5.876 17.000.0 10.700.0 17.216.0 10.850.0 51.3 53.9 106.02 5.718.3 1.021.1 543.7 449.8 93.82 5.794 17.100.0 10.700.0 17,316.0 10.850.0 52.0 54.6 106.01 5.818.3 1.020.7 543.9 448.7 95.17 5.715 17,200.0 10,700.0 17,416.0 10,850.0 52.7 55.2 106.00 5,918.3 1,020.3 544.1 447.6 96.52 5.637 544.4 17,300.0 10,700.0 17,516.0 10,850.0 53.4 55.9 106.00 6,018.3 1.019.9 446.5 97.88 5.561 17,400.0 10,700.0 17,616.0 10,850.0 54.1 56.5 6,118.3 1,019.5 544.6 445.4 99.24 5.488 17,500.0 10,700.0 17,716.0 10,850.0 54.7 57.2 6,218.3 1,019.1 544.8 444.2 100.61 5.415 105.98 17.600.0 10.700.0 17.816.0 10.850.0 55.4 57.8 105.97 6.318.3 1.018.7 545.1 443.1 101.98 5.345 17,700.0 10,700.0 17,916.0 10,850.0 56.1 58.5 105.97 6,418.3 1,018.3 545.3 442.0 103.35 5.276 17.800.0 10.700.0 18.016.0 10.850.0 56.8 59.2 105.96 6.518.3 1.017.9 545.6 440.8 104.73 5.209 5.143 17,900.0 10,700.0 18,116.0 10,850.0 57.5 59.8 105.95 6,618.3 1,017.5 545.8 439.7 106.12 18,000.0 10,700.0 18,216.0 10,850.0 58.2 60.5 105.95 6,718.3 1,017.1 546.0 438.5 107.50 5.079 18.100.0 10.700.0 18.316.0 10.850.0 58.9 61.1 105.94 6.818.3 1.016.7 546.3 437.4 108.89 5.017 18,200.0 10,700.0 18,416.0 10,850.0 59.6 61.8 105.93 6,918.3 1,016.3 546.5 436.2 110.28 4.956 18,300.0 10,700.0 18,516.0 10,850.0 60.3 62.5 105.92 7,018.3 1,015.9 546.7 435.1 111.68 4.896 18.400.0 10.700.0 18.616.0 10.850.0 61.0 63.2 105.92 7.118.3 1.015.5 547.0 433.9 113.08 4.837 18,500.0 63.8 7,218.3 10,700.0 18,716.0 10,850.0 61.8 105.91 1,015.1 547.2 432.7 114.48 4.780 18.600.0 10.700.0 18.816.0 10.850.0 62.5 64.5 7.318.3 1.014.7 115.88 4.724 18,916.0 18,700.0 10,700.0 10,850.0 63.2 65.2 105.90 7,418.2 1,014.3 547.7 430.4 117.29 4.670

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

PWP0

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

EDT 17 Permian Prod Database:

Site Error: 0.0 usft _WILD THING FED COM 902H Reference Well:

Reference Design:

Well Error: 3.0 usft Reference Wellbore OWB

Offset Des	Jigii.			vvild	I HING FE	D COM 901	H - OWB - PW	/PU					Offset Site Error:	0.0 usf
Survey Progr Refe	ram: 0-r rence	.5 MWD+IFR1 Offs		Semi I	Major Axis		Offset Wellb	ore Centre	Dist	Rule Assig	gned:		Offset Well Error:	3.0 usf
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
18,800.0	10,700.0	19,016.0	10,850.0	63.9	65.9	105.89	7,518.2	1,013.9	547.9	429.2	118.70	4.616		
18,900.0	10,700.0	19,116.0	10,850.0	64.6	66.6	105.88	7,618.2	1,013.5	548.2	428.1	120.11	4.564		
19,000.0	10,700.0	19,216.0	10,850.0	65.3	67.3	105.87	7,718.2	1,013.1	548.4	426.9	121.52	4.513		
19,100.0	10,700.0	19,316.0	10,850.0	66.0	68.0	105.87	7,818.2	1,012.7	548.7	425.7	122.94	4.463		
19,200.0	10,700.0	19,416.0	10,850.0	66.8	68.7	105.86	7,918.2	1,012.3	548.9	424.5	124.36	4.414		
19,300.0	10,700.0	19,516.0	10,850.0	67.5	69.3	105.85	8,018.2	1,011.9	549.1	423.3	125.78	4.366		
19,400.0	10,700.0	19,616.0	10,850.0	68.2	70.0	105.85	8,118.2	1,011.4	549.4	422.2	127.20	4.319		
19,500.0	10,700.0	19,716.0	10,850.0	68.9	70.7	105.84	8,218.2	1,011.0	549.6	421.0	128.63	4.273		
19,600.0	10,700.0	19,816.0	10,850.0	69.7	71.4	105.83	8,318.2	1,010.6	549.8	419.8	130.06	4.228		
19,700.0	10,700.0	19,916.0	10,850.0	70.4	72.1	105.83	8,418.2	1,010.2	550.1	418.6	131.49	4.184		
19,800.0	10,700.0	20,016.0	10,850.0	71.1	72.8	105.82	8,518.2	1,009.8	550.3	417.4	132.92	4.140		
19,900.0	10,700.0	20,116.0	10,850.0	71.8	73.5	105.81	8,618.2	1,009.4	550.6	416.2	134.35	4.098		
20,000.0	10,700.0	20,216.0	10,850.0	72.6	74.2	105.80	8,718.2	1,009.0	550.8	415.0	135.79	4.056		
20,100.0	10,700.0	20,316.0	10,850.0	73.3	74.9	105.80	8,818.2	1,008.6	551.0	413.8	137.22	4.016		
20,200.0	10,700.0	20,416.0	10,850.0	74.0	75.7	105.79	8,918.2	1,008.2	551.3	412.6	138.66	3.976		
20,300.0	10,700.0	20,516.0	10,850.0	74.7	76.4	105.78	9,018.2	1,007.8	551.5	411.4	140.10	3.937		
20,400.0	10,700.0	20,616.0	10,850.0	75.5	77.1	105.78	9,118.2	1,007.4	551.8	410.2	141.54	3.898		
20,500.0	10,700.0	20,716.0	10,850.0	76.2	77.8	105.77	9,218.2	1,007.0	552.0	409.0	142.98	3.861		
20,600.0	10,700.0	20,816.0	10,850.0	76.9	78.5	105.76	9,318.2	1,006.6	552.2	407.8	144.43	3.824		
20,700.0	10,700.0	20,916.0	10,850.0	77.7	79.2	105.76	9,418.2	1,006.2	552.5	406.6	145.87	3.787		
20,800.0	10,700.0	21,016.0	10,850.0	78.4	79.9	105.75	9,518.2	1,005.8	552.7	405.4	147.32	3.752		
20,900.0	10,700.0	21,116.0	10,850.0	79.1	80.6	105.74	9,618.2	1,005.4	552.9	404.2	148.77	3.717		
21,000.0	10,700.0	21,216.0	10,850.0	79.9	81.3	105.73	9,718.2	1,005.0	553.2	403.0	150.22	3.683		
21,100.0	10,700.0	21,316.3	10,850.0	80.6	82.1	105.73	9,818.6	1,004.6	553.4	401.7	151.67	3.649		
21,200.0	10,700.0	21,422.2	10,850.0	81.3	82.8	105.75	9,924.5	1,003.1	552.7	399.5	153.15	3.609		
21,300.0	10,700.0	21,522.2	10,850.0	82.1	83.5	105.78	10,024.4	1,001.5	551.8	397.2	154.59	3.569		
21,400.0	10,700.0	21,622.2	10,850.0	82.8	84.3	105.80	10,124.4	999.9	550.9	394.9	156.03	3.531		
21,500.0	10,700.0	21,722.2	10,850.0	83.6	85.0	105.83	10,224.4	998.4	550.0	392.5	157.47	3.493		
21,600.0	10,700.0	21,822.2	10,850.0	84.3	85.7	105.85	10,324.4	996.8	549.1	390.2	158.92	3.455		
21,700.0	10,700.0	21,922.2	10,850.0	85.0	86.4	105.88	10,424.4	995.2	548.2	387.8	160.36	3.419		
21,800.0	10,700.0	22,022.2	10,850.0	85.8	87.1	105.91	10,524.4	993.6	547.3	385.5	161.81	3.382		
21,900.0	10,700.0	22,122.2	10,850.0	86.5	87.9	105.93	10,624.3	992.1	546.4	383.2	163.26	3.347		
22,000.0	10,700.0	22,222.2	10,850.0	87.3	88.6	105.96	10,724.3	990.5	545.5	380.8	164.71	3.312		
22,100.0	10,700.0	22,322.2	10,850.0	88.0	89.3	105.99	10,824.3	988.9	544.6	378.5	166.16	3.278		
22,200.0	10,700.0	22,422.2	10,850.0	88.7	90.0	106.01	10,924.3	987.3	543.8	376.2	167.61	3.244		
22,300.0	10,700.0	22,522.2	10,850.0	89.5	90.8	106.04	11,024.3	985.7	542.9	373.8	169.06	3.211		
22,400.0	10,700.0	22,622.2	10,850.0	90.2	91.5	106.07	11,124.3	984.2	542.0	371.5	170.51	3.179		
22,500.0	10,700.0	22,722.2	10,850.0	91.0	92.2	106.10	11,224.2	982.6	541.1	369.1	171.96	3.147		
22,600.0	10,700.0	22,822.2	10,850.0	91.7	92.9	106.12	11,324.2	981.0	540.2	366.8	173.42	3.115		
22,700.0	10,700.0	22,922.2	10,850.0	92.4	93.7	106.15	11,424.2	979.4	539.3	364.4	174.87	3.084		
22,800.0	10,700.0	23,022.2	10,850.0	93.2	94.4	106.18	11,524.2	977.9	538.4	362.1	176.33	3.053		
22,900.0	10,700.0	23,122.1	10,850.0	93.9	95.1	106.20	11,624.2	976.3	537.5	359.7	177.79	3.023		
23,000.0	10,700.0	23,222.1	10,850.0	94.7	95.9	106.23	11,724.2	974.7	536.6	357.4	179.24	2.994 Norr	nal Operations	
23,100.0	10,700.0	23,322.1	10,850.0	95.4	96.6	106.26	11,824.1	973.1	535.8	355.1	180.70	2.965 Norr	nal Operations	
23,200.0	10,700.0	23,422.1	10,850.0	96.2	97.3	106.29	11,924.1	971.6	534.9	352.7	182.16	2.936 Norr	nal Operations	
23,300.0	10,700.0	23,522.1	10,850.0	96.9	98.1	106.32	12,024.1	970.0	534.0	350.4	183.62	2.908 Norr	nal Operations	
23,400.0	10,700.0	23,622.1	10,850.0	97.7	98.8	106.34	12,124.1	968.4	533.1	348.0	185.08	2.880 Norr	nal Operations	
23,500.0	10,700.0	23,722.1	10,850.0	98.4	99.5	106.37	12,224.1	966.8	532.2	345.7	186.54	2.853 Norr	nal Operations	
23,559.2	10,700.0	23,780.2	10,850.0	98.8	100.0	106.39	12,282.1	965.9	531.7	344.3	187.39	2.837 Norr	nal Operations, SF	

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

GL @ 2940.0usft TVD Reference: GL @ 2940.0usft MD Reference:

Site Error: 0.0 usft North Reference: Grid

_WILD THING FED COM 902H Reference Well:

Minimum Curvature **Survey Calculation Method:**

Well Error: 3.0 usft Reference Wellbore OWB PWP0

Reference Design:

Output errors are at 2.00 sigma EDT 17 Permian Prod Database:

	0.5	.5 MWD+IFR1	IMC							Bula Assi			Offset Site Error:	0.0 us
ey Progr Refer	rence	Offs	set		Major Axis		Offset Wellb	ore Centre	Dis	Rule Assig	=		Offset Well Error:	3.0 us
asured epth usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	-129.01	-18.9	-23.3	30.0	23.6	6.43	4.666		
100.0	100.0	100.0	100.0	3.2	3.2	-129.01	-18.9	-23.3	30.0	23.1	6.89	4.353		
200.0	200.0	200.0	200.0	3.5	3.5	-129.01	-18.9	-23.3	30.0	22.7	7.33	4.094		
300.0	300.0	300.0	300.0	3.7	3.7	-129.01	-18.9	-23.3	30.0	22.3	7.74	3.875		
400.0	400.0	400.0	400.0	3.9	3.9	-129.01	-18.9	-23.3	30.0	21.9	8.14	3.688		
500.0	500.0	500.0	500.0	4.1	4.1	-129.01	-18.9	-23.3	30.0	21.5	8.51	3.524		
600.0	600.0	600.0	600.0	4.2	4.2	-129.01	-18.9	-23.3	30.0	21.1	8.88	3.379		
700.0	700.0	700.0	700.0	4.4	4.4	-129.01	-18.9	-23.3	30.0	20.8	9.23	3.250		
800.0	800.0	800.0	800.0	4.6	4.6	-129.01	-18.9	-23.3	30.0	20.4	9.57	3.135		
900.0	900.0	900.0	900.0	4.8	4.8	-129.01	-18.9	-23.3	30.0	20.1	9.90	3.030		
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	-129.01	-18.9	-23.3	30.0	19.8	10.22	2.934 Norn	nal Operations	
1,100.0	1,100.0	1,100.0	1,100.0	5.1	5.1	89.29	-18.9	-23.3	30.0	19.4	10.53	2.845 Norn	nal Operations	
1,113.3	1,113.3	1,113.3	1,113.3	5.1	5.1	90.00	-18.9	-23.3	30.0	19.4	10.57		nal Operations, CC	
1,200.0	1,199.9	1,199.9	1,199.9	5.3	5.2	96.76	-18.9	-23.3	30.2	19.4	10.81		nal Operations, ES	
1,300.0	1,299.7	1,299.7	1,299.7	5.5	5.4	108.57	-18.9	-23.3	31.6	20.5	11.11		nal Operations	
1,400.0	1,399.3	1,399.3	1,399.3	5.7	5.5	122.58	-18.9	-23.3	35.6	24.2	11.44	3.111		
1,500.0	1,498.6	1,498.6	1,498.6	6.0	5.7	135.74	-18.9	-23.3	43.1	31.3	11.84	3.642		
1,600.0	1,597.5	1,597.5	1,597.5	6.3	5.8	146.23	-18.9	-23.3	54.3	42.1	12.28	4.427		
1,700.0	1,696.1	1,696.1	1,696.1	6.5	6.0	153.94	-18.9	-23.3	69.1	56.4	12.74	5.424		
1,733.3	1,728.8	1,728.8	1,728.8	6.6	6.0	155.99	-18.9	-23.3	74.8	61.9	12.87	5.810		
1,800.0	1,794.3	1,794.3	1,794.3	6.8	6.1	159.41	-18.9	-23.3	86.6	73.4	13.14	6.587		
1,900.0	1,892.4	1,892.4	1,892.4	7.1	6.2	163.08	-18.9	-23.3	104.7	91.1	13.60	7.694		
2,000.0	1,990.6	1,990.6	1,990.6	7.4	6.4	165.66	-18.9	-23.3	123.1	109.0	14.08	8.742		
2,100.0	2,088.8	2,091.2	2,091.2	7.4	6.5	167.30	-20.0	-23.2	140.9	126.3	14.57	9.672		
2,200.0	2,186.9	2,192.7	2,192.6	8.1	6.7	167.90	-23.7	-23.0	156.9	141.9	15.05	10.425		
2,300.0	2,285.1	2,192.7	2,294.6	8.5	6.8	167.75	-30.2	-22.5	171.1	155.5	15.55	11.002		
2,400.0	2,383.3	2,397.5	2,396.8	8.8	7.0	167.03	-39.5	-21.9	183.3	167.2	16.05	11.417		
2,500.0	2,481.4	2,500.5	2,499.0	9.2	7.2	165.81	-51.5	-21.1	193.7	177.1	16.56	11.692		
2,600.0	2,579.6	2,603.6	2,601.1	9.6	7.4	164.14	-66.4	-20.1	202.3	185.2	17.07	11.849		
2,700.0	2,677.7	2,706.8	2,702.8	10.0	7.7	162.04	-83.9	-18.9	209.3	191.8	17.57	11.915		
2,800.0	2,775.9	2,809.5	2,803.5	10.4	7.9	159.52	-104.1	-17.5	214.9	196.9	18.04	11.916		
2,900.0	2,874.1	2,908.9	2,900.7	10.8	8.2	156.97	-124.8	-16.1	220.3	201.8	18.48	11.917		
3,000.0	2,972.2	3,008.3	2,997.9	11.2	8.5	154.55	-145.4	-14.7	226.0	207.1	18.91	11.950		
3,100.0	3,070.4	3,107.7	3,095.1	11.6	8.8	152.26	-166.0	-13.3	232.2	212.8	19.33	12.012		
3,200.0	3,168.6	3,207.1	3,192.3	12.0	9.1	150.08	-186.6	-11.9	238.7	218.9	19.73	12.099		
3,300.0	3,266.7	3,306.4	3,289.5	12.5	9.4	148.02	-207.2	-10.5	245.5	225.4	20.11	12.208		
3,400.0	3,364.9	3,405.8	3,386.8	12.9	9.7	146.07	-227.8	-9.1	252.6	232.1	20.48	12.337		
3,500.0	3,463.0	3,505.2	3,484.0	13.3	10.1	144.23	-248.4	-7.7	260.0	239.2	20.83	12.482		
3,600.0	3,561.2	3,604.6	3,581.2	13.7	10.4	142.50	-269.1	-6.3	267.7	246.5	21.18	12.640		
3,700.0 3,800.0	3,659.4 3,757.5	3,704.0 3,803.4	3,678.4 3,775.6	14.2 14.6	10.8 11.2	140.86 139.31	-289.7 -310.3	-4.8 -3.4	275.6 283.7	254.0 261.8	21.51 21.83	12.811 12.991		
3,900.0	3,855.7	3,902.8	3,872.8	15.0 15.5	11.5	137.85	-330.9 -351.5	-2.0 -0.6	292.0	269.8 278.0	22.15	13.179		
1,000.0	3,953.9	4,002.1	3,970.0	15.5	11.9	136.47	-351.5	-0.6	300.4	278.0	22.46	13.373		
4,100.0	4,052.0	4,101.5	4,067.2	15.9	12.3	135.17	-372.1	0.8	309.1	286.3	22.77	13.572		
4,200.0 4,300.0	4,150.2 4,248.3	4,200.9 4,300.3	4,164.5 4,261.7	16.4 16.8	12.7 13.1	133.94 132.77	-392.8 -413.4	2.2 3.6	317.8 326.8	294.8 303.4	23.08 23.38	13.774 13.979		
1,400.0	4,346.5	4,399.7	4,358.9	17.3	13.5	131.67	-434.0 454.6	5.0	335.8	312.2	23.67	14.185		
4,500.0	4,444.7	4,499.1	4,456.1	17.7	13.9	130.62	-454.6	6.4	345.0	321.0	23.97	14.392		
4,600.0	4,542.8	4,598.5	4,553.3	18.1	14.4	129.63	-475.2	7.8	354.3	330.0	24.27	14.598		
4,700.0	4,641.0	4,697.8	4,650.5	18.6	14.8	128.69	-495.8	9.2	363.7	339.1	24.56	14.806		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

0.0 usft

PWP0

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

North Reference: _WILD THING FED COM 902H

Grid Minimum Curvature

Well Error: 3.0 usft Reference Wellbore OWB

Site Error:

Reference Well:

Reference Design:

Survey Calculation Method:

Output errors are at 2.00 sigma Database: EDT 17 Permian Prod

													Offset Site Error:	0.0 us
ey Prog	ram: 0-r.	.5 MWD+IFR1 Off		Sami I	Major Axis		Offset Wellb	oro Contro	Die	Rule Assi	gned:		Offset Well Error:	3.0 u
asured epth usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset	Highside Toolface	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
4,900.0	4,837.3	4,896.0	4,844.7	19.5	(usft) 15.7	(°) 127.21	-535.2	11.9	382.9	357.5	25.35	15.100		
5,000.0	4,935.5	4,995.1	4,942.1	19.9	16.1	126.72	-553.7	13.2	392.7	367.0	25.71	15.273		
5,100.0	5,033.6	5,094.3	5,039.6	20.4	16.6	126.36	-571.3	14.4	402.6	376.5	26.10	15.427		
5,106.5	5,040.0	5,100.7	5,046.0	20.4	16.6	126.35	-572.4	14.4	403.2	377.1	26.12	15.436		
5,200.0	5,131.9	5,193.5	5,137.4	20.8	17.0	126.14	-588.1	15.5	412.3	385.8	26.49	15.568		
5,300.0	5,230.3	5,292.7	5,235.4	21.3	17.4	125.95	-604.1	16.6	421.7	394.8	26.88	15.688		
5,400.0	5,328.8	5,392.1	5,333.5	21.7	17.8	125.80	-619.2	17.6	430.6	403.3	27.27	15.789		
5,500.0	5,427.5	5,491.4	5,431.9	22.2	18.2	125.66	-633.5	18.6	439.0	411.4	27.66	15.871		
5,600.0	5,526.3	5,590.8	5,530.4	22.6	18.6	125.55	-646.9	19.5	447.0	419.0	28.05	15.937		
5,700.0	5,625.3	5,690.3	5,629.0	23.0	19.0	125.47	-659.5	20.4	454.6	426.2	28.43	15.987		
5,800.0	5,724.4	5,789.7	5,727.8	23.4	19.4	125.40	-671.2	21.2	461.7	432.9	28.82	16.022		
5,900.0	5,823.6	5,889.3	5,826.7	23.9	19.8	125.35	-682.1	21.9	468.4	439.2	29.20	16.041		
0.000,6	5,922.9	5,988.8	5,925.7	24.3	20.1	125.33	-692.1	22.6	474.6	445.0	29.58	16.047		
6,100.0	6,022.3	6,088.4	6,024.9	24.7	20.5	125.32	-701.3	23.2	480.4	450.4	29.95	16.039		
6,200.0	6,121.8	6,188.0	6,124.1	25.1	20.9	125.32	-709.6	23.8	485.7	455.4	30.32	16.018		
6,300.0	6,221.3	6,287.6	6,223.5	25.5	21.2	125.35	-717.0	24.3	490.6	459.9	30.69	15.985		
6,400.0	6,321.0	6,387.2	6,322.9	25.8	21.6	125.39	-723.6	24.7	495.0	464.0	31.05	15.941		
6,500.0	6,420.7	6,486.9	6,422.4	26.2	21.9	125.44	-729.3	25.1	499.0	467.6	31.41	15.885		
6,600.0	6,520.5	6,586.6	6,521.9	26.6	22.2	125.51	-734.2	25.5	502.5	470.7	31.77	15.818		
6,700.0	6,620.3	6,686.2	6,621.5	26.9	22.6	125.60	-738.2	25.7	505.6	473.5	32.12	15.741		
6,800.0	6,720.2	6,785.9	6,721.1	27.3	22.8	125.70	-741.3	25.9	508.2	475.8	32.46	15.655		
6,900.0	6,820.1	6,885.6	6,820.8	27.6	23.1	125.81	-743.6	26.1	510.4	477.6	32.80	15.559		
7,000.0	6,920.1	6,985.2	6,920.4	27.9	23.4	125.94	-745.0	26.2	512.1	479.0	33.13	15.456		
7,100.0	7,020.1	7,084.9	7,020.1	28.2	23.5	126.09	-745.5	26.2	513.4	480.0	33.44	15.354		
7,200.0	7,120.0	7,184.8	7,120.0	28.4	23.6	126.22	-745.5	26.2	514.2	480.4	33.80	15.212		
7,300.0	7,220.0	7,284.8	7,220.0	28.6	23.7	126.26	-745.5	26.2	514.5	480.5	33.97	15.145		
7,306.5	7,226.5	7,291.3	7,226.5	28.6	23.7	-89.54	-745.5	26.2	514.5	480.5	33.98	15.141		
7,400.0	7,320.0	7,384.8	7,320.0	28.6	23.7	-89.54	-745.5	26.2	514.5	480.5	34.02	15.121		
7,500.0 7,600.0	7,420.0 7,520.0	7,484.8 7,584.8	7,420.0 7,520.0	28.6 28.6	23.7 23.7	-89.54 -89.54	-745.5 -745.5	26.2 26.2	514.5 514.5	480.4 480.4	34.08 34.13	15.098 15.075		
7,000.0	7,520.0	7,564.6	7,520.0	20.0	23.1	-09.54	-745.5	20.2	514.5	400.4	34.13	15.075		
7,700.0	7,620.0	7,684.8	7,620.0	28.6	23.8	-89.54	-745.5	26.2	514.5	480.3	34.18	15.051		
7,800.0	7,720.0	7,784.8	7,720.0	28.6	23.8	-89.54	-745.5	26.2	514.5	480.3	34.24	15.027		
7,900.0	7,820.0	7,884.8	7,820.0	28.7	23.8	-89.54	-745.5	26.2	514.5	480.2	34.29	15.003		
8,000.0 8,100.0	7,920.0 8,020.0	7,984.8 8,084.8	7,920.0 8,020.0	28.7 28.7	23.8 23.9	-89.54 -89.54	-745.5 -745.5	26.2 26.2	514.5 514.5	480.1 480.1	34.35 34.40	14.979 14.954		
8,200.0	8,120.0	8,184.8	8,120.0	28.7	23.9	-89.54	-745.5	26.2	514.5	480.0	34.46	14.930		
8,300.0	8,220.0	8,284.8	8,220.0	28.7	23.9	-89.54 -89.54	-745.5 -745.5	26.2	514.5	480.0	34.46	14.930		
8,400.0	8,320.0	8,384.8	8,320.0	28.8	23.9	-89.54	-745.5 -745.5	26.2	514.5	479.9	34.58	14.880		
8,500.0	8,420.0	8,484.8	8,420.0	28.8	24.0	-89.54	-745.5	26.2	514.5	479.9	34.64	14.854		
8,600.0	8,520.0	8,584.8	8,520.0	28.8	24.0	-89.54	-745.5	26.2	514.5	479.8	34.70	14.829		
8,700.0	8,620.0	8,684.8	8,620.0	28.8	24.0	-89.54	-745.5	26.2	514.5	479.7	34.76	14.803		
8,800.0	8,720.0	8,784.8	8,720.0	28.8	24.0	-89.54	-745.5	26.2	514.5	479.7	34.82	14.777		
8,900.0	8,820.0	8,884.8	8,820.0	28.9	24.1	-89.54	-745.5	26.2	514.5	479.6	34.88	14.751		
9,000.0	8,920.0	8,984.8	8,920.0	28.9	24.1	-89.54	-745.5	26.2	514.5	479.5	34.94	14.725		
9,100.0	9,020.0	9,084.8	9,020.0	28.9	24.1	-89.54	-745.5	26.2	514.5	479.5	35.00	14.698		
9,200.0	9,120.0	9,184.8	9,120.0	28.9	24.1	-89.54	-745.5	26.2	514.5	479.4	35.07	14.672		
9,300.0	9,220.0	9,284.8	9,220.0	28.9	24.2	-89.54	-745.5	26.2	514.5	479.4	35.13	14.645		
9,400.0	9,320.0	9,384.8	9,320.0	29.0	24.2	-89.54	-745.5	26.2	514.5	479.3	35.20	14.618		
9,500.0	9,420.0	9,484.8	9,420.0	29.0	24.2	-89.54	-745.5	26.2	514.5	479.2	35.26	14.591		
9,600.0	9,520.0	9,584.8	9,520.0	29.0	24.3	-89.54	-745.5	26.2	514.5	479.2	35.33	14.563		

Anticollision Report

Company: DELAWARE BASIN WEST

DELAWARE BASIN WEST Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

Project: ATLAS PROSPECT (DBW)
Reference Site: WILD THING PROJECT

0.0 usft

 $\begin{array}{lll} \textbf{TVD Reference:} & & \text{GL} @ 2940.0 \text{usft} \\ \textbf{MD Reference:} & & \text{GL} @ 2940.0 \text{usft} \\ \end{array}$

North Reference: Grid

_WILD THING FED COM 902H

Survey Calculation Method: Minimum Curvature

Well Error: 3.0 usft
Reference Wellbore OWB

Site Error:

Reference Well:

Output errors are at 2.00 sigma

Reference Design: PWP0

Database: EDT 17 Permian Prod
Offset TVD Reference: Reference Datum

	sign: VVIII	5 A NA/F :==	.110										Offset Site Error:	0.0 us
rvey Progi Refe	ram: 0-r rence	5 MWD+IFR1. Off		Semi I	Major Axis		Offset Wellb	ore Centre	Dis	Rule Assi	gned:		Offset Well Error:	3.0 us
leasured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
9,700.0	9,620.0	9,684.8	9,620.0	29.0	24.3	-89.54	-745.5	26.2	514.5	479.1	35.39	14.536		
9,800.0	9,720.0	9,784.8	9,720.0	29.0	24.3	-89.54	-745.5	26.2	514.5	479.0	35.46	14.508		
9,900.0	9,820.0	9,884.8	9,820.0	29.1	24.4	-89.54	-745.5	26.2	514.5	479.0	35.53	14.481		
10,000.0	9,920.0	9,984.8	9,920.0	29.1	24.4	-89.54	-745.5	26.2	514.5	478.9	35.60	14.453		
10,100.0	10,020.0	10,084.8	10,020.0	29.1	24.4	-89.54	-745.5	26.2	514.5	478.8	35.67	14.425		
10,200.0	10,120.0	10,184.8	10,120.0	29.1	24.4	-89.54	-745.5	26.2	514.5	478.7	35.74	14.395		
10,207.0	10,127.0	10,191.8	10,127.0	29.1	24.4	-89.54	-745.5	26.2	514.5	478.7	35.75	14.393		
10,250.0	10,170.0	10,234.8	10,170.0	29.1	24.5	-89.35	-745.5	26.2	514.5	478.8	35.70	14.409		
10,299.8	10,219.4	10,284.2	10,219.4	29.0	24.5	-90.00	-745.5	26.2	514.4	478.9	35.51	14.485		
10,300.0	10,219.6	10,284.4	10,219.6	29.0	24.5	-90.00	-745.5	26.2	514.4	478.9	35.51	14.486		
10,350.0	10,268.6	10,333.4	10,268.6	28.8	24.5	-91.11	-745.5	26.2	514.5	479.4	35.17	14.629		
10,400.0	10,316.4	10,382.9	10,318.1	28.7	24.4	-92.50	-744.1	26.2	515.0	480.2	34.77	14.812		
10,450.0	10,362.8	10,433.9	10,368.7	28.5	24.3	-93.91	-738.2	26.2	515.7	481.3	34.40	14.990		
10,500.0	10,407.4	10,486.1	10,419.8	28.4	24.2	-95.29	-727.5	26.1	516.8	482.7	34.09	15.158		
10,550.0	10,449.9	10,539.7	10,471.0	28.2	24.0	-96.66	-711.7	26.0	518.1	484.3	33.85	15.308		
10,600.0	10,489.9	10,594.7	10,521.8	28.0	23.8	-97.98	-690.6	25.9	519.8	486.1	33.68	15.432		
10,650.0	10,527.2	10,651.2	10,571.6	27.9	23.6	-99.26	-664.0	25.7	521.6	488.0	33.60	15.523		
10,700.0	10,561.4	10,709.3	10,619.8	27.7	23.4	-100.48	-631.7	25.5	523.5	489.9	33.62	15.573		
10,750.0	10,592.3	10,768.9	10,665.6	27.6	23.2	-101.62	-593.6	25.3	525.6	491.8	33.75	15.575		
10,800.0	10,619.7	10,830.0	10,708.2	27.5	23.0	-102.66	-549.9	25.0	527.6	493.6	33.99	15.523		
10,850.0	10,643.3	10,892.6	10,746.8	27.4	22.8	-103.61	-500.6	24.7	529.6	495.2	34.36	15.415		
10,900.0	10,663.0	10,956.5	10,780.4	27.3	22.7	-104.43	-446.2	24.4	531.4	496.5	34.84	15.251		
10,950.0	10,678.6	11,021.7	10,808.2	27.2	22.5	-105.11	-387.3	24.0	533.0	497.5	35.45	15.036		
11,000.0	10,690.0	11,087.9	10,829.4	27.2	22.4	-105.65	-324.6	23.6	534.2	498.1	36.14	14.782		
11,050.0	10,697.1	11,154.9	10,843.4	27.2	22.4	-106.03	-259.1	23.2	535.1	498.2	36.90	14.503		
11,100.0	10,699.9	11,222.5	10,849.6	27.2	22.3	-106.24	-191.9	22.8	535.6	497.9	37.68	14.214		
11,107.0	10,700.0	11,231.9	10,849.9	27.2	22.3	-106.25	-182.5	22.8	535.7	497.9	37.79	14.174		
11,200.0	10,700.0	11,327.5	10,850.0	27.2	22.3	-106.26	-86.9	22.2	535.6	497.4	38.20	14.022		
11,300.0	10,700.0	11,427.5	10,850.0	27.3	22.3	-106.26	13.1	21.5	535.6	497.0	38.61	13.874		
11,400.0	10,700.0	11,527.5	10,850.0	27.4	22.4	-106.26	113.1	20.9	535.6	496.5	39.07	13.709		
11,500.0	10,700.0	11,627.5	10,850.0	27.4	22.4	-106.27	213.1	20.3	535.5	496.0	39.58	13.531		
11,600.0	10,700.0	11,727.5	10,850.0	27.5	22.4	-106.27	313.1	19.7	535.5	495.4	40.15	13.339		
11,700.0	10,700.0	11,827.5	10,850.0	27.6	22.4	-106.27	413.1	19.1	535.5	494.7	40.76	13.138		
11,800.0	10,700.0	11,927.5	10,850.0	27.7	22.4	-106.27	513.1	18.5	535.4	494.0	41.42	12.927		
11,900.0	10,700.0	12,027.5	10,850.0	27.8	22.4	-106.27	613.1	17.8	535.4	493.3	42.12	12.710		
12,000.0	10,700.0	12,127.5	10,850.0	27.9	22.4	-106.27	713.1	17.2	535.4	492.5	42.87	12.488		
12,100.0	10,700.0	12,227.5	10,850.0	28.1	22.5	-106.27	813.1	16.6	535.4	491.7	43.66	12.262		
12,200.0	10,700.0	12,327.5	10,850.0	28.2	22.5	-106.27	913.1	16.0	535.3	490.8	44.49	12.034		
12,300.0	10,700.0	12,427.5	10,850.0	28.4	22.5	-106.27	1,013.1	15.4	535.3	489.9	45.35	11.804		
12,400.0	10,700.0	12,527.5	10,850.0	28.6	22.5	-106.27	1,113.1	14.8	535.3	489.0	46.24	11.575		
12,500.0	10,700.0	12,627.5	10,850.0	28.8	22.6	-106.28	1,213.1	14.1	535.2	488.1	47.17	11.347		
12,600.0	10,700.0	12,727.5	10,850.0	29.0	22.6	-106.28	1,313.1	13.5	535.2	487.1	48.13	11.120		
12,700.0	10,700.0	12,827.5	10,850.0	29.2	22.7	-106.28	1,413.1	12.9	535.2	486.0	49.11	10.897		
12,800.0	10,700.0	12,927.5	10,850.0	29.4	22.7	-106.28	1,513.1	12.3	535.1	485.0	50.12	10.676		
12,900.0	10,700.0	13,027.5	10,850.0	29.7	22.7	-106.28	1,613.1	11.7	535.1	483.9	51.16	10.459		
13,000.0	10,700.0	13,127.5	10,850.0	30.0	22.8	-106.28	1,713.1	11.0	535.1	482.8	52.22	10.246		
13,100.0	10,700.0	13,227.5	10,850.0	30.2	22.9	-106.28	1,813.1	10.4	535.0	481.7	53.30	10.037		
13,200.0	10,700.0	13,327.5	10,850.0	30.2	23.0	-106.28	1,913.1	9.8	535.0	480.6	54.41	9.833		
13,200.0	10,700.0	13,327.5	10,850.0	30.5	23.0	-106.28	2,013.1		535.0	480.6	55.53	9.833		
13,400.0	10,700.0	13,427.5	10,850.0	30.9			2,013.1	9.2	535.0	479.4 478.3		9.634		
13,400.0	10,700.0	13,321.3	10,000.0	31.2	23.7	-106.28	۷,۱۱۵.۱	8.6	JJ4.9	410.3	56.67	5.439		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

Site Error: 0.0 usft North Reference: Grid

_WILD THING FED COM 902H Reference Well: 3.0 usft Well Error:

Survey Calculation Method:

Minimum Curvature

Reference Wellbore OWB PWP0 Reference Design:

Output errors are at Database:

2.00 sigma EDT 17 Permian Prod

Offset TVD Reference:

Reference Datum

	sign: VVI	LD THING		_									Offset Site Error:	0.0 us
urvey Prog	ram: 0-	r.5 MWD+IFR1	+MS							Rule Assig	gned:		Offset Well Error:	3.0 us
Refe Measured	rence Vertical	Offs Measured	set Vertical	Semi I Reference	Major Axis Offset	Highside	Offset Wellk	ore Centre	Dis Between	tance Between	No-Go	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Distance	Factor	. •	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
13,600.0	10,700.0	13,727.5	10,850.0	31.9	24.8	-106.29	2,313.1	7.3	534.9	475.9	59.00	9.065		
13,700.0	10,700.0	13,827.5	10,850.0	32.3	25.4	-106.29	2,413.1	6.7	534.8	474.6	60.19	8.885		
13,800.0	10,700.0	13,927.5	10,850.0	32.7	26.0	-106.29	2,513.1	6.1	534.8	473.4	61.40	8.710		
13,900.0	10,700.0	14,027.5	10,850.0	33.1	26.7	-106.29	2,613.1	5.5	534.8	472.2	62.62	8.540		
14,000.0	10,700.0	14,127.5	10,850.0	33.6	27.3	-106.29	2,713.1	4.9	534.7	470.9	63.85	8.375		
14,100.0	10,700.0	14,227.5	10,850.0	34.0	28.0	-106.29	2,813.1	4.3	534.7	469.6	65.09	8.215		
14,200.0	10,700.0	14,327.5	10,850.0	34.5	28.6	-106.29	2,913.1	3.6	534.7	468.3	66.34	8.059		
14,300.0	10,700.0	14,427.5	10,850.0	35.0	29.3	-106.29	3,013.0	3.0	534.6	467.0	67.61	7.908		
14,400.0	10,700.0	14,527.5	10,850.0	35.5	30.0	-106.29	3,113.0	2.4	534.6	465.7	68.88	7.761		
14,500.0	10,700.0	14,627.5	10,850.0	36.0	30.7	-106.30	3,213.0	1.8	534.6	464.4	70.17	7.619		
14,600.0	10,700.0	14,727.5	10,850.0	36.5	31.4	-106.30	3,313.0	1.2	534.5	463.1	71.46	7.480		
14,700.0	10,700.0	14,827.5	10,850.0	37.0	32.0	-106.30	3,413.0	0.5	534.5	461.7	72.76	7.346		
14,800.0	10,700.0	14,927.5	10,850.0	37.6	32.7	-106.30	3,513.0	-0.1	534.5	460.4	74.07	7.216		
14,900.0	10,700.0	15,027.5	10,850.0	38.1	33.4	-106.30	3,613.0	-0.7	534.4	459.1	75.39	7.089		
15,000.0	10,700.0	15,127.5	10,850.0	38.7	34.1	-106.30	3,713.0	-1.3	534.4	457.7	76.71	6.966		
15,100.0	10,700.0	15,227.5	10,850.0	39.2	34.8	-106.30	3,813.0	-1.9	534.4	456.3	78.04	6.847		
15,200.0	10,700.0	15,327.5	10,850.0	39.8	35.5	-106.30	3,913.0	-2.5	534.3	455.0	79.38	6.731		
15,300.0	10,700.0	15,427.5	10,850.0	40.4	36.2	-106.30	4,013.0	-3.2	534.3	453.6	80.73	6.619		
15,400.0	10,700.0	15,527.5	10,850.0	41.0	36.9	-106.30	4,113.0	-3.8	534.3	452.2	82.08	6.510		
15,500.0	10,700.0	15,627.5	10,850.0	41.6	37.7	-106.31	4,213.0	-4.4	534.3	450.8	83.43	6.403		
15,600.0	10,700.0	15,727.5	10,850.0	42.2	38.4	-106.31	4,313.0	-5.0	534.2	449.4	84.79	6.300		
15,700.0	10,700.0	15,827.5	10,850.0	42.8	39.1	-106.31	4,413.0	-5.6	534.2	448.0	86.16	6.200		
15,800.0	10,700.0	15,927.5	10,850.0	43.5	39.8	-106.31	4,513.0	-6.2	534.2	446.6	87.53	6.102		
15,900.0	10,700.0	16,027.5	10,850.0	44.1	40.5	-106.31	4,613.0	-6.9	534.1	445.2	88.91	6.008		
16,000.0	10,700.0	16,127.5	10,850.0	44.7	41.2	-106.31	4,713.0	-7.5	534.1	443.8	90.29	5.915		
16,100.0	10,700.0	16,227.5	10,850.0	45.4	42.0	-106.31	4,813.0	-8.1	534.1	442.4	91.67	5.826		
16,200.0	10,700.0	16,327.5	10,850.0	46.0	42.7	-106.31	4,913.0	-8.7	534.0	441.0	93.06	5.738		
16,300.0	10,700.0	16,427.5	10,850.0	46.7	43.4	-106.31	5,013.0	-9.3	534.0	439.5	94.45	5.653		
16,400.0	10,700.0	16,527.5	10,850.0	47.3	44.1	-106.32	5,113.0	-10.0	534.0	438.1	95.85	5.571		
16,500.0	10,700.0	16,627.5	10,850.0	48.0	44.9	-106.32	5,213.0	-10.6	533.9	436.7	97.25	5.490		
16,600.0	10,700.0	16,727.5	10,850.0	48.6	45.6	-106.32	5,313.0	-11.2	533.9	435.2	98.65	5.412		
16,700.0	10,700.0	16,827.5	10,850.0	49.3	46.3	-106.32	5,413.0	-11.8	533.9	433.8	100.06	5.336		
16,800.0	10,700.0	16,927.5	10,850.0	50.0	47.0	-106.32	5,513.0	-12.4	533.8	432.4	101.47	5.261		
16,900.0	10,700.0	17,027.5	10,850.0	50.6	47.8	-106.32	5,613.0	-13.0	533.8	430.9	102.88	5.189		
17,000.0	10,700.0	17,127.5	10,850.0	51.3	48.5	-106.32	5,713.0	-13.7	533.8	429.5	104.29	5.118		
17,100.0	10,700.0	17,227.5	10,850.0	52.0	49.2	-106.32	5,813.0	-14.3	533.7	428.0	105.71	5.049		
17,100.0	10,700.0	17,327.5	10,850.0	52.7	50.0	-106.32	5,913.0	-14.3	533.7	426.6	103.71	4.982		
17,300.0	10,700.0	17,427.5	10,850.0	53.4	50.7	-106.32	6,013.0	-15.5	533.7	425.1	108.56	4.916		
17,400.0	10,700.0	17,527.5	10.850.0	54.1	51.4	-106.33	6,113.0	-16.1	533.6	423.7	109.98	4.852		
17,500.0	10,700.0	17,627.5	10,850.0	54.7	52.2	-106.33	6,213.0	-16.7	533.6	422.2	111.41	4.790		
17 600 0	10 700 0	17,727.5	10,850.0	EE 1	E2.0	106.22	6 242 0	47 /	E22.0	400.7	110.04	4 700		
17,600.0 17,700.0	10,700.0 10,700.0	17,727.5 17,827.5	10,850.0	55.4 56.1	52.9 53.7	-106.33 -106.33	6,313.0 6,413.0	-17.4 -18.0	533.6 533.5	420.7 419.3	112.84 114.27	4.729 4.669		
17,700.0	10,700.0	17,927.5	10,850.0	56.8	54.4	-106.33	6,513.0	-18.6	533.5	417.8	115.71	4.611		
17,900.0	10,700.0	18,027.5	10,850.0	57.5	55.1	-106.33	6,613.0	-19.2	533.5	416.3	117.14	4.554		
18,000.0	10,700.0	18,127.5	10,850.0	58.2	55.9	-106.33	6,713.0	-19.8	533.4	414.9	118.58	4.499		
10 100 0	10 700 0	10 007 5	10.050.0	50.0	50.0	100.00	6.040.0	00.4	F00.4	440.4	100.00	4.444		
18,100.0 18,200.0	10,700.0 10,700.0	18,227.5 18,327.5	10,850.0 10,850.0	58.9 59.6	56.6 57.4	-106.33 -106.33	6,813.0 6,913.0	-20.4 -21.1	533.4 533.4	413.4 411.9	120.02 121.46	4.444 4.391		
18,300.0	10,700.0	18,427.5	10,850.0	60.3	58.1	-106.33	7,013.0	-21.1 -21.7	533.4	411.9	121.46	4.391		
18,400.0	10,700.0	18,527.5	10,850.0	61.0	58.9	-106.33	7,013.0	-21.7	533.3	409.0	124.35	4.340		
18,500.0	10,700.0	18,627.5	10,850.0	61.8	59.6	-106.34	7,113.0	-22.3 -22.9	533.3	407.5	125.80	4.239		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

0.0 usft

PWP0

TVD Reference: GL @ 2940.0usft GL @ 2940.0usft MD Reference:

North Reference: Grid

_WILD THING FED COM 902H

Survey Calculation Method: Minimum Curvature

Well Error: 3.0 usft **OWB** Reference Wellbore

Site Error:

Reference Well:

Reference Design:

Output errors are at 2.00 sigma

EDT 17 Permian Prod Database: Offset TVD Reference: Reference Datum

WILD THING PROJECT - _WILD THING FED COM 903H - OWB - PWP0 Offset Design: 0.0 usft Offset Site Error: 0-r.5 MWD+IFR1+MS Survey Program: Reference Rule Assigned: Offset Well Error: 3.0 usft Offset Wellbore Centre Distance rence Semi Major Axis ence Offset Measured Vertical Measured Vertical Reference Highside Between Between No-Go Separation Warning +N/-S +F/-W Toolface Depth Depth Depth Depth Centres Ellipses Distance Factor (usft) (usft) (usft) (usft) (usft) (usft) (usft) (usft) (usft) (°) (usft) (usft) 18.600.0 10.700.0 18.727.5 10.850.0 62.5 60.3 -106.34 7.313.0 -23.5 533.2 406.0 127.24 4.191 404.5 18,700.0 10,700.0 18.827.5 10.850.0 63.2 61.1 -106.34 7,413.0 -24.2 533.2 128.69 4.143 18,800.0 10,700.0 18,927.5 10,850.0 63.9 61.8 -106.34 7,513.0 -24.8 533.2 403.0 130.15 4.097 10.700.0 10.850.0 -106.34 -25.4 18.900.0 19.027.5 64.6 62.6 7.613.0 533.2 401.6 131.60 4.051 19.000.0 10.700.0 19.127.5 10.850.0 65.3 63.3 -106.347.713.0 -26.0 533.1 400.1 133.05 4.007 3.963 19,100.0 10,700.0 19,227.5 10,850.0 66.0 64.1 -106.34 7,813.0 -26.6 533.1 398.6 134.51 19.200.0 10.700.0 19.327.5 10.850.0 66.8 64.8 -106.34 7.913.0 -27.2 533.1 397.1 135.96 3.921 19,300.0 10,700.0 19,427.5 10,850.0 67.5 65.6 -106.34 8,013.0 -27.9 533.0 395.6 137.42 3.879 19.400.0 10.700.0 19.527.5 10.850.0 68.2 66.3 -106.35 8.113.0 -28.5 533.0 394.1 138.88 3.838 19,500.0 10,700.0 19,627.5 10,850.0 68.9 67.1 -106.35 8,212.9 -29.1 533.0 392.6 140.34 3.798 19.600.0 10.700.0 19.727.5 10.850.0 69.7 67.8 -106.35 8.312.9 -29 7 532 9 391 1 141 80 3 758 19,700.0 10,700.0 19,827.5 10,850.0 70.4 68.6 -106.35 8.412.9 -30.3 532.9 389.6 143.26 3.720 19.800.0 10.700.0 19.927.5 10.850.0 71.1 69.3 -106.35 8.512.9 -30.9 532.9 388.1 144.73 3.682 19.900.0 10.700.0 20.027.5 10.850.0 71.8 70.1 -106.35 8.612.9 -31.6 532.8 386.6 146.19 3.645 20,000.0 10,700.0 20,127.5 10,850.0 72.6 70.8 -106.35 8,712.9 -32.2 532.8 385.1 147.66 3.608 20,100.0 10,700.0 20,227.5 10,850.0 73.3 71.6 -106.35 8,812.9 -32.8 532.8 149.12 3.573 383.6 20.200.0 10,700.0 20.327.5 10,850.0 74.0 72.3 -106.35 8,912.9 -33.4 532.7 382.1 150.59 3.538 20,300.0 10,700.0 20,427.5 10,850.0 74.7 -106.35 9,012.9 -34.0 380.6 152.06 3.503 73.1 532.7 20.400.0 10.700.0 20 527 5 10.850.0 75.5 73.8 -106.36 9.112.9 -34.7 532.7 379.1 153.53 3.470 20,500.0 10,700.0 20,627.5 10,850.0 76.2 74.6 -106.36 9,212.9 -35.3 532.6 377.6 155.00 3.436 20,600.0 10,700.0 20,727.5 10,850.0 76.9 75.3 -106.36 9,312.9 -35.9 376.1 156.47 3.404 157.94 20.700.0 10.700.0 20.827.5 10.850.0 77.7 76.1 -106.36 9.412.9 -36.5 532 6 374 6 3.372 20,800.0 10,700.0 20,927.5 10,850.0 78.4 76.8 -106.36 9,512.9 -37.1 532.5 373.1 159.41 3.341 20.900.0 10.700.0 21.027.5 10.850.0 79.1 77.6 -106.36 9.612.9 -37.7 532.5 371.6 160.89 3.310 21,000.0 10.700.0 21,127.5 10.850.0 79.9 78.3 -106.36 9.712.9 -38.4 532.5 370.1 162.36 3.280 21,100.0 10,700.0 21,227.5 10,850.0 80.6 79.1 -106.36 9,812.9 -39.0 532.4 368.6 163.83 3.250 21,200.0 10.700.0 21.327.5 10.850.0 81.3 79.8 -106.36 9.912.9 -39.6 532.4 367.1 165.31 3.221 21,300.0 10,700.0 21,427.5 10,850.0 82.1 80.6 -106.37 10,012.9 -40.2 532.4 365.6 166.78 3.192 21.400.0 10.700.0 21.527.5 10.850.0 82.8 81.3 -106.37 10.112.9 -40.8 532.3 364.1 168.26 3.164 21,627.5 10,212.9 169.74 21,500.0 10,700.0 10,850.0 83.6 82.1 -106.37 -41.4 532.3 362.6 3.136 21.600.0 10.700.0 21.727.5 10.850.0 84.3 82.8 -106.37 10.312.9 -42 1 532.3 361.1 171 22 3 109 10,412.9 -42.7 172.69 3.082 21,700.0 10,700.0 21,827.5 10,850.0 85.0 83.6 -106.37 532.2 359.6 21.800.0 10.700.0 21,927.5 10.850.0 85.8 84.4 -106.37 10.512.9 -43.3 532.2 358.0 174.17 3.056 21.900.0 10.700.0 22.027.5 10.850.0 86.5 85.1 -106.37 10.612.9 -43.9 532.2 356.5 175.65 3.030 22,000.0 10,700.0 22,127.5 10,850.0 87.3 85.9 -106.37 10,712.9 -44.5 532.1 355.0 177.13 3.004 22,100.0 10,700.0 22,227.5 10,850.0 88.0 86.6 -106.37 10,812.9 -45.2 2.979 Normal Operations 532.1 353.5 178.61 22,200.0 10,700.0 22,327.5 10,850.0 87.4 -106.37 10,912.9 -45.8 532.1 180.10 2.954 Normal Operations 22,427.5 22,300.0 10,700.0 10,850.0 -106.38 11,012.9 -46.4 532.1 350.5 181.58 2.930 Normal Operations 89.5 88.1 22,400.0 10.700.0 22.527.5 10.850.0 90.2 88.9 -106.38 11.112.9 -47.0 532.0 349.0 183.06 2.906 Normal Operations 22,500.0 10,700.0 22,627.5 10,850.0 91.0 89.6 -106.38 11,212.9 -47.6 532.0 347.4 184.54 2.883 Normal Operations 22,600.0 10,700.0 22,727.5 10,850.0 91.7 90.4 -106.38 11,312.9 -48.2 532.0 345.9 186.03 2.860 Normal Operations 22,700.0 10,700.0 22.827.5 10.850.0 924 91 2 -106.38 11.412.9 -48 9 531.9 344 4 187 51 2.837 Normal Operations 22,800.0 10,700.0 22,927.5 10,850.0 93.2 91.9 -106.38 11,512.9 -49.5 531.9 342.9 188.99 2.814 Normal Operations 92.7 11.612.9 -50.1 531.9 341.4 190.48 2.792 Normal Operations 22.900.0 10.700.0 23.027.5 10.850.0 93.9 -106.38 23.000.0 10.700.0 23.127.5 10.850.0 94.7 93.4 -106.38 11.712.9 -50.7 531.8 339.9 191.96 2.770 Normal Operations 23,100.0 10,700.0 23,227.5 10,850.0 95.4 94.2 -106.38 11,812.9 -51.3 531.8 338.3 193.45 2.749 Normal Operations 23,200.0 10.700.0 23.327.5 10.850.0 96.2 94.9 -106.38 11.912.9 -51.9 531.8 336.8 194.94 2.728 Normal Operations 12,012.9 23,300.0 10,700.0 23,427.5 10,850.0 96.9 95.7 -106.39 -52.6 531.7 335.3 196.42 2.707 Normal Operations 23.400.0 10.700.0 23.527.5 10.850.0 97.7 96.4 -106.39 12.112.9 -53.2 531.7 333.8 197.91 23,627.5 97.2 199.40 23,500.0 10,700.0 10,850.0 98.4 -106.39 12,212.9 -53.8 531.7 332.3 2.666 Normal Operations 23.553.5 10.700.0 23.681.0 10.850.0 98.8 97.6 -106.39 12.266.4 -54 1 531.6 331.5 200.19 2.656 Normal Operations, SF

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

PWP0

GL @ 2940.0usft TVD Reference: GL @ 2940.0usft MD Reference:

North Reference: Grid

Site Error: 0.0 usft _WILD THING FED COM 902H Reference Well:

Survey Calculation Method:

Well Error: 3.0 usft Reference Wellbore OWB

Reference Design:

Minimum Curvature Output errors are at 2.00 sigma

EDT 17 Permian Prod Database: Offset TVD Reference: Reference Datum

Offset Des	sign: WII	LD THING	PROJECT	WILD	THING FE	D COM 903	H - OWB - PW	/P0					Offset Site Error:	0.0 usft
Survey Progra Refere Measured Depth (usft)		5.5 MWD+IFR1 Off Measured Depth (usft)		Semi I Reference (usft)	Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellb +N/-S (usft)	ere Centre +E/-W (usft)	Dis Between Centres (usft)	Rule Assiq tance Between Ellipses (usft)	ned: No-Go Distance (usft)	Separation Factor	Offset Well Error: Warning	3.0 usft
23,559.2	10,700.0	23,682.6	10,850.0	98.8	97.6	-106.39	12,267.9	-54.1	531.7	331.6	200.11	2.657 Norn	nal Operations	

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

GL @ 2940.0usft TVD Reference: GL @ 2940.0usft MD Reference:

Site Error: 0.0 usft North Reference: Grid

_WILD THING FED COM 902H Reference Well: Well Error: 3.0 usft

Minimum Curvature **Survey Calculation Method:**

Reference Wellbore OWB Output errors are at

2.00 sigma EDT 17 Permian Prod

Reference Datum

Database: Offset TVD Reference: PWP0 Reference Design:

	g			vvild	IIING FE	.D COIVI 904	H - OWB - PW	VI U					Offset Site Error:	0.0 us
Survey Progr Refe		r.5 MWD+IFR1- Off	1+MS fset		Major Axis		Offset Wellb	ore Centre	Dis	Rule Assi	gned:		Offset Well Error:	3.0 us
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S (usft)	+E/-W (usft)	Between Centres	Between Ellipses (usft)	No-Go Distance	Separation Factor	Warning	
(usft) 0.0	(usft) 0.0	(usft) 0.0	(usft) 0.0	(usft) 3.0	(usft) 3.0	(°) -129.01	-37.8	-46.6	(usft) 60.0	53.6	(usft) 6.43	9.333		
100.0	100.0		100.0	3.2	3.2	-129.01	-37.8	-46.6	60.0	53.1	6.89	8.705		
200.0	200.0		200.0	3.5	3.5	-129.01	-37.8	-46.6	60.0	52.7	7.33	8.188		
300.0	300.0		300.0	3.7	3.7	-129.01	-37.8	-46.6	60.0	52.3	7.74	7.751		
400.0	400.0		400.0	3.9	3.9	-129.01	-37.8	-46.6	60.0	51.9	8.14	7.375		
500.0	500.0		500.0	4.1	4.1	-129.01	-37.8	-46.6	60.0	51.5	8.51	7.048		
600.0	600.0		600.0	4.2	4.2	-129.01	-37.8	-46.6	60.0	51.1	8.88	6.759		
700.0	700.0		700.0	4.4	4.4	-129.01	-37.8	-46.6	60.0	50.8	9.23	6.501		
800.0	800.0		0.008	4.6	4.6	-129.01	-37.8	-46.6	60.0	50.4	9.57	6.269		
900.0	900.0		900.0	4.8	4.8	-129.01	-37.8	-46.6	60.0	50.1	9.90	6.059		
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	-129.01	-37.8	-46.6	60.0	49.8	10.22	5.868 CC, E	S	
1,100.0	1,100.0	1,098.8	1,098.8	5.1	5.1	87.20	-39.0	-46.8	60.9	50.4	10.53	5.782 SF		
1,200.0	1,199.9	1,197.6	1,197.5	5.3	5.3	88.37	-42.8	-47.5	63.6	52.8	10.81	5.885		
1,300.0	1,299.7	1,296.2	1,295.9	5.5	5.5	90.09	-49.1	-48.6	68.2	57.1	11.09	6.151		
1,400.0	1,399.3		1,394.2	5.7	5.6	92.74	-57.2	-50.5	74.7	63.4	11.30	6.614		
1,500.0	1,498.6	1,493.2	1,492.1	6.0	5.8	97.87	-64.5	-54.6	83.2	71.7	11.53	7.219		
1,600.0	1,597.5	1,592.2	1,590.8	6.3	6.0	103.97	-71.6	-59.6	93.5	81.7	11.84	7.900		
1,700.0	1,696.1	1,690.8	1,689.1	6.5	6.2	110.10	-78.6	-64.5	105.6	93.4	12.17	8.679		
1,733.3	1,728.8	1,723.6	1,721.7	6.6	6.3	112.11	-81.0	-66.1	110.1	97.8	12.25	8.984		
1,800.0	1,794.3	1,789.2	1,787.0	6.8	6.5	115.89	-85.7	-69.4	119.6	107.1	12.46	9.596		
1,900.0	1,892.4	1,887.5	1,885.0	7.1	6.7	120.55	-92.7	-74.3	134.6	121.7	12.83	10.484		
2,000.0	1,990.6	1,985.9	1,983.0	7.4	7.0	124.26	-99.7	-79.3	150.3	137.0	13.23	11.358		
2,100.0	2,088.8		2,080.9	7.8	7.3	127.26	-106.7	-84.2	166.5	152.8	13.64	12.201		
2,200.0	2,186.9		2,178.9	8.1	7.6	129.73	-113.8	-89.1	183.0	169.0	14.07	13.007		
2,300.0	2,285.1	2,280.9	2,276.8	8.5	7.9	131.79	-120.8	-94.0	199.9	185.4	14.52	13.770		
2,400.0	2,383.3	2,379.2	2,374.8	8.8	8.2	133.53	-127.8	-98.9	217.0	202.0	14.97	14.490		
2,500.0	2,481.4		2,472.8	9.2	8.5	135.01	-134.8	-103.8	234.2	218.7	15.44	15.166		
2,600.0	2,579.6		2,570.7	9.6	8.8	136.29	-141.8	-108.7	251.6	235.6	15.92	15.801		
2,700.0	2,677.7		2,668.7	10.0	9.1	137.40	-148.9	-113.7	269.0	252.6	16.41	16.396		
2,800.0	2,775.9		2,766.7	10.4	9.5	138.38	-155.9	-118.6	286.6	269.7	16.90	16.953		
2,900.0	2,874.1	2,870.9	2,864.6	10.8	9.8	139.25	-162.9	-123.5	304.2	286.8	17.41	17.474		
3,000.0 3,100.0	2,972.2 3,070.4		2,962.6 3,060.5	11.2 11.6	10.1 10.5	140.02 140.71	-169.9 -176.9	-128.4 -133.3	321.9 339.6	304.0 321.2	17.92 18.44	17.962 18.420		
3,200.0	3,168.6		3,158.5	12.0	10.8	141.33	-184.0	-138.2	357.4	338.4	18.96	18.848		
3,300.0	3,266.7		3,256.5	12.5	11.1	141.90	-191.0	-143.2	375.2	355.7	19.49	19.250		
3,400.0	3,364.9		3,354.4	12.9	11.5	142.41	-198.0	-148.1	393.1	373.0	20.03	19.627		
3,500.0	3,463.0	3,460.9	3,452.4	13.3	11.8	142.88	-205.0	-153.0	410.9	390.4	20.57	19.982		
3,600.0	3,561.2		3,550.4	13.7	12.2	143.31	-212.0	-157.9	428.8	407.7	21.11	20.315		
3,700.0	3,659.4	3,657.6	3,648.3	14.2	12.5	143.70	-219.1	-162.8	446.8	425.1	21.66	20.629		
3,800.0	3,757.5	3,755.9	3,746.3	14.6	12.9	144.06	-226.1	-167.7	464.7	442.5	22.21	20.924		
3,900.0	3,855.7	3,854.2	3,844.2	15.0	13.2	144.40	-233.1	-172.7	482.7	459.9	22.76	21.203		
4,000.0	3,953.9		3,942.2	15.5	13.6	144.71	-240.1	-177.6	500.6	477.3	23.32	21.467		
4,100.0	4,052.0		4,040.2	15.9	13.9	145.01	-247.1	-182.5	518.6	494.7	23.88	21.716		
4,200.0	4,150.2		4,138.1	16.4	14.3	145.28	-254.2	-187.4	536.6	512.2	24.45	21.951		
4,300.0	4,248.3		4,236.1	16.8	14.7	145.53	-261.2	-192.3	554.6	529.6	25.01	22.174		
4,400.0	4,346.5	4,345.9	4,334.0	17.3	15.0	145.77	-268.2	-197.2	572.7	547.1	25.58	22.386		
4,500.0	4,444.7		4,432.0	17.7	15.4	145.99	-275.2	-202.1	590.7	564.5	26.15	22.586		
4,600.0	4,542.8		4,530.0	18.1	15.8	146.20	-282.2	-207.1	608.7	582.0	26.73	22.777		
4,700.0	4,641.0		4,627.9	18.6	16.1	146.40	-289.3	-212.0	626.8	599.5	27.30	22.958		
4,800.0	4,739.2		4,725.9	19.0	16.5	146.59	-296.3	-216.9	644.8	616.9	27.88	23.131		
4,900.0	4,837.3	4,837.6	4,823.9	19.5	16.8	146.77	-303.3	-221.8	662.9	634.4	28.46	23.295		

Anticollision Report

TVD Reference:

MD Reference:

North Reference:

DELAWARE BASIN WEST Company:

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

Site Error: 0.0 usft

_WILD THING FED COM 902H Reference Well:

Well Error: 3.0 usft Reference Wellbore OWB

Reference Design:

PWP0

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

GL @ 2940.0usft GL @ 2940.0usft

Grid

Minimum Curvature **Survey Calculation Method:**

2.00 sigma

Output errors are at EDT 17 Permian Prod Database:

urvey Progi		.5 MWD+IFR1								Rule Assig	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	Dis Between	tance Between	No-Go	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Distance	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
5,000.0	4,935.5	4,935.9	4,921.8	19.9	17.2	146.93	-310.3	-226.7	680.9	651.9	29.04	23.452		
5,100.0	5,033.6	5,033.2	5,018.7	20.4	17.6	147.09	-317.3	-231.6	699.0	669.4	29.61	23.607		
5,106.5	5,040.0	5,039.3	5,024.7	20.4	17.6	147.09	-317.8	-232.0	700.2	670.6	29.65	23.618		
5,200.0	5,131.9	5,126.3	5,111.2	20.8	18.0	147.09	-325.7	-237.5	717.3	687.1	30.15	23.794		
5,300.0	5,230.3	5,219.1	5,203.1	21.3	18.4	146.84	-336.5	-245.1	735.6	704.9	30.64	24.004		
5,400.0	5,328.8	5,314.4	5,297.0	21.7	18.8	146.35	-349.8	-254.3	753.8	722.7	31.11	24.232		
5,500.0	5,427.5	5,412.5	5,393.6	22.2	19.2	145.81	-363.7	-264.1	771.5	739.9	31.60	24.416		
5,600.0	5,526.3	5,510.7	5,490.3	22.6	19.6	145.26	-377.7	-273.9	788.6	756.5	32.08	24.581		
5,700.0	5,625.3	5,609.0	5,587.1	23.0	20.0	144.69	-391.7	-283.7	805.1	772.5	32.56	24.727		
5,800.0	5,724.4	5,707.3	5,684.0	23.4	20.5	144.12	-405.7	-293.5	820.9	787.9	33.03	24.857		
5,900.0	5,823.6	5,805.7	5,780.9	23.9	20.9	143.53	-419.7	-303.3	836.2	802.7	33.49	24.972		
6,000.0	5,922.9	5,904.2	5,877.9	24.3	21.3	142.93	-433.7	-313.1	850.8	816.9	33.94	25.072		
6,100.0	6,022.3	6,002.7	5,974.9	24.7	21.8	142.31	-447.7	-322.9	864.9	830.6	34.38	25.160		
6,200.0	6,121.8	6,101.3	6,071.9	25.1	22.2	141.68	-461.7	-332.7	878.4	843.6	34.81	25.236		
6,300.0	6,221.3	6,199.9	6,169.0	25.5	22.6	141.03	-475.7	-342.5	891.4	856.2	35.23	25.300		
6,400.0	6,321.0	6,298.5	6,266.1	25.8	23.1	140.37	-489.7	-352.4	903.8	868.2	35.65	25.355		
6,500.0	6,420.7	6,397.1	6,363.3	26.2	23.5	139.68	-503.8	-362.2	915.7	879.6	36.05	25.400		
6,600.0	6,520.5	6,495.7	6,460.4	26.6	23.9	138.99	-517.8	-372.0	927.1	890.6	36.45	25.437		
6,700.0	6,620.3	6,594.4	6,557.6	26.9	24.4	138.27	-531.8	-381.8	937.9	901.1	36.83	25.466		
6,800.0	6,720.2	6,693.0	6,654.7	27.3	24.8	137.53	-545.9	-391.7	948.3	911.1	37.21	25.489		
6,900.0	6,820.1	6,791.7	6,751.8	27.6	25.2	136.78	-559.9	-401.5	958.3	920.7	37.57	25.506		
7,000.0	6,920.1	6,890.3	6,848.9	27.9	25.7	136.00	-573.9	-411.3	967.8	929.8	37.92	25.518		
7,100.0	7,020.1	6,988.9	6,946.0	28.2	26.1	135.21	-587.9	-421.1	976.8	938.5	38.27	25.527		
7,200.0	7,120.0	7,087.4	7,043.1	28.4	26.6	134.39	-602.0	-430.9	985.5	946.9	38.59	25.536		
7,300.0	7,220.0	7,192.1	7,146.3	28.6	27.0	133.53	-616.4	-441.1	993.5	954.6	38.86	25.565		
7,306.5	7,226.5	7,199.1	7,153.2	28.6	27.1	-82.33	-617.3	-441.7	994.0	955.1	38.88	25.565		

Anticollision Report

Company: DELAWARE BASIN WEST

Project: ATLAS PROSPECT (DBW)
Reference Site: WILD THING PROJECT

Site Error: 0.0 usft

Reference Well: _WILD THING FED COM 902H

Well Error: 3.0 usft
Reference Wellbore OWB

Reference Wellbore OWB **Reference Design:** PWP0

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

 TVD Reference:
 GL @ 2940.0usft

 MD Reference:
 GL @ 2940.0usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: EDT 17 Permian Prod
Offset TVD Reference: Reference Datum

Offset De				WILD	THING FE	D COM 905	H - OWB - PW	/P0					Offset Site Error:	0.0 usft
Survey Progr	ram: 0 rence	-r.5 MWD+IFR1	I+MS set	Somi I	Major Axis		Offset Wellb	oro Contro	Die	Rule Assi tance	gned:		Offset Well Error:	3.0 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	+N/-S	+E/-W	Between	Between	No-Go	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	(usft)	(usft)	Centres (usft)	Ellipses (usft)	Distance (usft)	Factor		
0.0	0.0	0.0	0.0	3.0	3.0	-129.05	-56.7	-69.9	90.0	83.6	6.43	13.999		
100.0	100.0	100.0	100.0	3.2	3.2	-129.05	-56.7	-69.9	90.0	83.1	6.89	13.058		
200.0	200.0		200.0	3.5	3.5	-129.05	-56.7	-69.9	90.0	82.7	7.33	12.281		
300.0	300.0		300.0	3.7	3.7	-129.05	-56.7	-69.9	90.0	82.3	7.74	11.626		
400.0	400.0		400.0	3.9	3.9	-129.05	-56.7	-69.9	90.0	81.9	8.14	11.063		
500.0	500.0	500.0	500.0	4.1	4.1	-129.05	-56.7	-69.9	90.0	81.5	8.51	10.571		
600.0	600.0	600.0	600.0	4.2	4.2	-129.05	-56.7	-69.9	90.0	81.1	8.88	10.138		
700.0	700.0	700.0	700.0	4.4	4.4	-129.05	-56.7	-69.9	90.0	80.8	9.23	9.751		
800.0	800.0	800.0	800.0	4.6	4.6	-129.05	-56.7	-69.9	90.0	80.4	9.57	9.404		
900.0	900.0		900.0	4.8	4.8	-129.05	-56.7	-69.9	90.0	80.1	9.90	9.089		
966.7	966.7	966.7	966.7	4.9	4.9	-129.05	-56.7	-69.9	90.0	79.9	10.12	8.896		
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	-129.05	-56.7	-69.9	90.0	79.8	10.22	8.802 CC, E	·s	
1,100.0	1,100.0		1,097.7	5.1	5.1	87.56	-57.5	-70.9	91.2	80.7	10.55	8.646 SF		
1,200.0	1,199.9		1,195.1	5.3	5.3	89.87	-59.7	-73.9	95.0	84.1	10.86	8.748		
1,300.0	1,299.7		1,292.0	5.5	5.5	93.30	-63.4	-78.8	101.5	90.4	11.17	9.091		
1,400.0	1,399.3	1,388.8	1,388.1	5.7	5.7	97.38	-68.6	-85.7	111.3	99.8	11.49	9.679		
4 500 0	1 400 0	4 404 0	1 400 0	0.0	0.0	104.04	75.4	04.4	404.5	110.0	44.04	10.510		
1,500.0	1,498.6		1,483.3	6.0 6.3	6.0 6.2	101.61	-75.1 -83.0	-94.4 -105.0	124.5	112.6	11.84	10.516		
1,600.0 1,700.0	1,597.5 1,696.1	1,579.4 1,673.2	1,577.2 1,669.8	6.5	6.5	105.63 109.22	-03.0 -92.2	-105.0	141.3 162.0	129.2 149.4	12.20 12.56	11.589 12.891		
1,733.3	1,728.8		1,700.7	6.6	6.6	110.33	-95.6	-117.2	169.7	157.0	12.56	13.396		
1,800.0	1,794.3		1,764.0	6.8	6.8	112.58	-102.6	-131.0	185.4	172.4	12.99	14.276		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,	.,	.,					101.0			12.00			
1,900.0	1,892.4	1,865.7	1,859.1	7.1	7.1	115.33	-113.1	-145.0	209.5	196.1	13.46	15.567		
2,000.0	1,990.6		1,954.1	7.4	7.4	117.51	-123.5	-158.9	234.0	220.1	13.91	16.821		
2,100.0	2,088.8		2,049.1	7.8	7.7	119.28	-134.0	-172.9	258.7	244.3	14.38	17.993		
2,200.0	2,186.9		2,144.2	8.1	8.1	120.74	-144.5	-186.8	283.6	268.7	14.86	19.084		
2,300.0	2,285.1	2,252.2	2,239.2	8.5	8.4	121.97	-154.9	-200.7	308.7	293.3	15.36	20.097		
2,400.0	2,383.3	2,348.8	2,334.2	8.8	8.8	123.01	-165.4	-214.7	333.8	318.0	15.87	21.036		
2,500.0	2,481.4		2,429.2	9.2	9.1	123.90	-175.9	-228.6	359.1	342.7	16.39	21.906		
2,600.0	2,579.6	2,542.0	2,524.3	9.6	9.5	124.68	-186.4	-242.6	384.4	367.5	16.92	22.713		
2,700.0	2,677.7	2,638.6	2,619.3	10.0	9.8	125.36	-196.8	-256.5	409.8	392.3	17.47	23.460		
2,800.0	2,775.9	2,735.2	2,714.3	10.4	10.2	125.97	-207.3	-270.5	435.2	417.2	18.02	24.154		
0.000.0	0.074.4	0.004.0	0.000.4	40.0	40.0	100.50	047.0	2011	400.7	440.4	40.50	04.707		
2,900.0	2,874.1		2,809.4	10.8	10.6	126.50	-217.8	-284.4	460.7	442.1	18.58	24.797		
3,000.0	2,972.2		2,904.4	11.2	11.0	126.98	-228.3 -238.7	-298.4	486.2	467.1 492.0	19.15 19.72	25.395 25.951		
3,100.0 3,200.0	3,070.4 3,168.6		2,999.4 3,094.4	11.6 12.0	11.4 11.8	127.42 127.81	-230.7 -249.2	-312.3 -326.3	511.7 537.3	517.0	20.30	26.469		
3,300.0	3,266.7		3,189.5	12.5	12.2	128.16	-259.7	-340.2	562.9	542.0	20.88	26.952		
-,	-,	-,	-,					0.10.2	002.0	0.2.0	20.00	20.002		
3,400.0	3,364.9	3,314.9	3,284.5	12.9	12.6	128.49	-270.1	-354.2	588.5	567.0	21.48	27.403		
3,500.0	3,463.0		3,379.5	13.3	13.0	128.78	-280.6	-368.1	614.1	592.0	22.07	27.824		
3,600.0	3,561.2		3,474.6	13.7	13.4	129.06	-291.1	-382.1	639.7	617.1	22.67	28.219		
3,700.0	3,659.4		3,569.6	14.2	13.8	129.31	-301.6	-396.0	665.4	642.1	23.27	28.588		
3,800.0	3,757.5	3,701.4	3,664.6	14.6	14.2	129.54	-312.0	-410.0	691.0	667.1	23.88	28.935		
3,900.0	3,855.7	3,798.0	3,759.6	15.0	14.6	129.76	-322.5	-423.9	716.7	692.2	24.49	29.261		
4,000.0	3,953.9		3,854.7	15.5	15.0	129.96	-333.0	-437.9	742.4	717.3	25.11	29.568		
4,100.0	4,052.0		3,949.7	15.9	15.4	130.15	-343.4	-451.8	768.0	742.3	25.72	29.856		
4,200.0	4,150.2	4,087.9	4,044.7	16.4	15.8	130.33	-353.9	-465.7	793.7	767.4	26.34	30.129		
4,300.0	4,248.3	4,184.5	4,139.8	16.8	16.3	130.49	-364.4	-479.7	819.4	792.5	26.97	30.386		
			4.000.0			400 00			e	a	a=	00.555		
4,400.0	4,346.5		4,234.8	17.3	16.7	130.65	-374.9	-493.6	845.1	817.5	27.59	30.629		
4,500.0	4,444.7		4,329.8	17.7	17.1	130.80	-385.3	-507.6	870.8	842.6	28.22	30.859		
4,600.0 4,700.0	4,542.8 4,641.0		4,424.8 4,519.9	18.1 18.6	17.5 18.0	130.93 131.06	-395.8 -406.3	-521.5 -535.5	896.5 922.3	867.7 892.8	28.85 29.48	31.077 31.284		
4,700.0	4,739.2		4,614.9	19.0	18.4	131.06	-406.3 -416.7	-535.5 -549.4	922.3 948.0	892.8 917.9	29.48 30.11	31.284		
4,000.0	٦,١٥٥.٢	4,007.0	7,017.8	13.0	10.4	101.10	-410.7	-548.4	J40.U	311.3	30.11	31.400		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

TVD Reference: GL @ 2940.0usft GL @ 2940.0usft MD Reference:

North Reference: Grid

Site Error: 0.0 usft

_WILD THING FED COM 902H Reference Well: Well Error:

Survey Calculation Method:

Minimum Curvature

3.0 usft Reference Wellbore OWB PWP0

Reference Design:

Output errors are at

2.00 sigma

Database: Offset TVD Reference: EDT 17 Permian Prod Reference Datum

Off4 D	WI	II D THING	PROJECT	L- WILD	THING FE	D COM 905	H - OWB - PV	VP0						
Offset Des	sign: ***		11100201	_****		.D 00111 000		0					Offset Site Error:	0.0 usft
Survey Progr Refer		r.5 MWD+IFR1		Semi	Maior Axis		Offset Wellb	oore Centre	Dis	Rule Assig	gned:		Offset Well Error:	3.0 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	No-Go	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Distance	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
4,900.0	4,837.3	4,764.2	4,709.9	19.5	18.8	131.30	-427.2	-563.4	973.7	943.0	30.75	31.666		
5.000.0	4.935.5	4.860.8	4.805.0	19.9	19.2	131.41	-437.7	-577.3	999.4	968.0	31.39	31.844		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

North Reference: Grid

Survey Calculation Method:

Output errors are at

Minimum Curvature

Well Error: 3.0 usft OWB

0.0 usft

_WILD THING FED COM 902H

2.00 sigma

Reference Wellbore PWP0 Reference Design:

Site Error:

Reference Well:

EDT 17 Permian Prod Database: Offset TVD Reference: Reference Datum

Offset Des	ign: WI	LD THING	PROJECT	- COOPE	R 31 FEC	ERAL 2H_	_P&A - OWB - A	AWP					Offset Site Error:	0.0 usft
Survey Progra		00-r.5 GYRO-N								Rule Assi	gned:		Offset Well Error:	3.0 usft
Refere Measured Depth (usft)	ence Vertical Depth (usft)	Off Measured Depth (usft)	set Vertical Depth (usft)	Semi I Reference (usft)	Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbo	+E/-W (usft)	Dist Between Centres (usft)	tance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	11.4	0.4	3.0	3.0	104.56	-194.3	747.8	772.6	766.2	6.43	120.172		
100.0	100.0	114.6	103.6	3.2	3.0	104.55	-194.0	747.6	772.4	765.6	6.70	115.192		
200.0	200.0	216.4	205.4	3.5	3.1	104.53	-193.6	747.1	771.8	764.7	7.03	109.792		
300.0	300.0	317.4	306.4	3.7	3.3	104.50	-193.0	746.4	771.0	763.6	7.37	104.545		
400.0	400.0	416.8	405.8	3.9	3.4	104.46	-192.4	745.7	770.2	762.4	7.74	99.550		
500.0	500.0	513.2	502.2	4.1	3.6	104.38	-191.2	745.5	769.6	761.5	8.11	94.924		
600.0	600.0	611.5	600.5	4.2	3.8	104.26	-189.6	745.8	769.5	761.0	8.50	90.571		
678.4	678.4	689.5	678.4	4.4	4.0	104.16	-188.2	746.1	769.5	760.7	8.81	87.351		
700.0	700.0	710.8	699.8	4.4	4.1	104.13	-187.9	746.2	769.5	760.6	8.90	86.483		
800.0	800.0	809.3	798.3	4.6	4.3	103.99	-186.1	746.7	769.6	760.3	9.31	82.695		
900.0	900.0	908.5	897.4	4.8	4.6	103.86	-184.4	747.5	769.9	760.2	9.73	79.163		
1,000.0	1,000.0	1,009.5	998.4	4.9	4.9	103.76	-183.2	748.1	770.2	760.0	10.16	75.834		
1,100.0	1,100.0	1,111.8	1,100.7	5.1	5.1	-40.54	-182.8	748.2	769.2	758.6	10.61	72.515		
1,200.0	1,199.9	1,213.0	1,201.9	5.3	5.4	-40.78	-182.6	748.1	766.1	755.0	11.06	69.271		
1,300.0	1,299.7	1,314.1	1,303.0	5.5	5.7	-41.21	-181.8	747.9	760.8	749.2	11.53	66.002		
1,400.0	1,399.3	1,412.5	1,401.4	5.7	6.0	-41.79	-181.0	747.7	753.5	741.5	12.00	62.782		
1,500.0	1,498.6	1,512.2	1,501.1	6.0	6.3	-42.52	-180.6	747.5	744.5	732.0	12.50	59.568		
1,600.0	1,597.5	1,611.4	1,600.3	6.3	6.7	-43.40	-180.3	747.2	733.6	720.6	13.01	56.398		
1,700.0	1,696.1	1,710.1	1,699.0	6.5	7.0	-44.47	-180.0	746.8	720.9	707.4	13.53	53.298		
1,733.3	1,728.8	1,742.9	1,731.8	6.6	7.1	-44.88	-179.9	746.7	716.3	702.6	13.67	52.396		
1,800.0	1,794.3	1,808.4	1,797.3	6.8	7.3	-45.63	-179.5	746.5	707.0	693.0	13.98	50.556		
1,900.0	1,892.4	1,905.6	1,894.5	7.1	7.6	-46.79	-178.8	746.3	693.3	678.8	14.50	47.812		
2,000.0	1,990.6	2,006.3	1,995.2	7.4	7.9	-48.05	-177.9	745.9	679.8	664.7	15.03	45.221		
2,100.0	2,088.8	2,105.7	2,094.5	7.8	8.2	-49.37	-176.7	745.2	666.2	650.7	15.56	42.814		
2,200.0	2,186.9	2,200.0	2,188.9	8.1	8.5	-50.67	-175.6	744.7	653.3	637.2	16.08	40.635		
2,300.0	2,285.1	2,289.1	2,278.0	8.5	8.8	-51.95	-174.5	745.2	641.6	625.0	16.58	38.699		
2,400.0	2,383.3	2,386.0	2,374.8	8.8	9.2	-53.45	-172.7	746.5	631.2	614.1	17.09	36.925		
2,500.0	2,481.4	2,477.8	2,466.6	9.2	9.5	-54.88	-171.3	748.1	621.7	604.1	17.59	35.350		
2,600.0	2,579.6	2,573.0	2,561.8	9.6	9.8	-56.36	-170.4	750.7	613.5	595.4	18.09	33.924		
2,700.0 2,800.0	2,677.7 2,775.9	2,675.3 2,779.3	2,664.1 2,768.0	10.0 10.4	10.1 10.5	-57.95 -59.58	-169.7 -169.5	753.4 755.3	605.8 597.5	587.2 578.4	18.60 19.12	32.565 31.258		
2,900.0	2,874.1	2,880.0	2,868.7	10.8	10.8	-61.18	-169.6	756.4	589.0	569.4	19.61	30.032		
3,000.0	2,972.2	2,979.1	2,967.8	11.2	11.1	-62.81	-169.6	757.2	580.8	560.7	20.10	28.898		
3,100.0	3,070.4	3,078.1	3,066.8	11.6	11.5	-64.48	-169.7	757.9	572.9	552.3	20.57	27.845		
3,200.0 3,300.0	3,168.6 3,266.7	3,176.5 3,274.9	3,165.2 3,263.6	12.0 12.5	11.8 12.1	-66.19 -67.93	-169.7 -169.8	758.5 759.1	565.4 558.5	544.4 537.0	21.04 21.50	26.872 25.973		
3,400.0	3,364.9	3,373.4	3,362.1	12.9	12.5	-69.71	-170.0	759.7	552.0	530.0	21.96	25.142		
3,500.0	3,463.0	3,472.4	3,461.1	13.3	12.8	-71.53	-170.3	760.3	546.0	523.6	22.41	24.368		
3,600.0	3,561.2	3,571.0	3,559.7	13.7	13.1	-73.37	-170.6	760.7	540.5	517.6	22.85	23.651		
3,700.0	3,659.4	3,669.9	3,658.6	14.2	13.5	-75.26	-171.1	761.1	535.5	512.2	23.30	22.984		
3,800.0	3,757.5	3,769.2	3,757.9	14.6	13.8	-77.17	-171.6	761.3	530.9	507.1	23.74	22.359		
3,900.0	3,855.7	3,867.7	3,856.4	15.0	14.1	-79.11	-172.2	761.5	526.8	502.6	24.19	21.777		
4,000.0	3,953.9	3,965.9	3,954.6	15.5	14.5	-81.06	-172.8	761.6	523.3	498.6	24.64	21.238		
4,100.0	4,052.0	4,064.1	4,052.8	15.9	14.8	-83.03	-173.4	761.8	520.4	495.3	25.10	20.738		
4,200.0	4,150.2	4,163.1	4,151.8	16.4	15.2	-85.05	-173.9	761.9	518.2	492.6	25.57	20.270		
4,300.0	4,248.3	4,261.8	4,250.5	16.8	15.5	-87.09	-174.5	761.7	516.5	490.4	26.05	19.828		
4,400.0	4,346.5	4,360.7	4,349.4	17.3	15.8	-89.14	-175.0	761.5	515.4	488.8	26.55	19.413		
4,500.0	4,444.7	4,459.9	4,448.6	17.7	16.2	-91.21	-175.6	761.2	514.8	487.7	27.07	19.017		
4,564.4	4,507.9	4,523.6	4,512.2	18.0	16.4	-92.55	-176.1	760.9	514.6	487.2	27.41	18.772 CC		
4,600.0	4,542.8	4,558.6	4,547.3	18.1	16.5	-93.29	-176.3	760.7	514.7	487.1	27.61	18.641		
4,700.0	4,641.0	4,657.3	4,646.0	18.6	16.8	-95.35	-177.1	760.2	515.2	487.0	28.18	18.286		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

GL @ 2940.0usft TVD Reference: GL @ 2940.0usft MD Reference:

Site Error: 0.0 usft North Reference: Grid

_WILD THING FED COM 902H Reference Well: Well Error: 3.0 usft

Minimum Curvature **Survey Calculation Method:**

Reference Wellbore OWB

Reference Design:

Output errors are at 2.00 sigma

Database:

EDT 17 Permian Prod

Offset TVD Reference: PWP0

Reference Datum

rvey Progra	am: 100	-r 5 GYRO-N	S, 6679-r.5 M	WD						Rule Assi	aned.		Offset Well Error:	3.0 us
Refer	ence	Off	set	Semi I	Major Axis		Offset Wellb	ore Centre		tance	_			0.0 us
leasured	Vertical	Measured	Vertical	Reference	Offset	Highside	+N/-S	+E/-W	Between	Between	No-Go	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	(usft)	(usft)	Centres (usft)	Ellipses (usft)	Distance (usft)	Factor		
4,800.0	4.739.2	4,756.3	4.744.9	19.0	17.2	-97.37	-178.2	759.8	516.3	487.5	28.77	17.947		
4,900.0	4,837.3	4,854.3	4,843.0	19.5	17.5	-99.34	-179.5	759.5	518.0	488.6	29.38	17.629		
5,000.0	4,935.5	4,952.8	4,941.5	19.9	17.9	-101.23	-181.2	759.8	520.3	490.3	30.02	17.334		
5,100.0	5,033.6	5,052.6	5,041.2	20.4	18.2	-103.08	-183.4	760.2	523.1	492.4	30.69	17.045		
5,106.5	5,040.0	5,059.1	5,047.7	20.4	18.2	-103.20	-183.5	760.3	523.3	492.6	30.74	17.027		
5,200.0	5,131.9	5,152.3	5,140.9	20.8	18.5	-104.90	-185.7	760.5	526.1	494.7	31.37	16.768		
5,300.0	5,230.3	5,252.0	5,240.6	21.3	18.9	-106.61	-188.0	760.5	529.2	497.1	32.08	16.497		
5,400.0	5,328.8	5,351.3	5,339.8	21.7	19.2	-108.24	-190.4	760.3	532.3	499.5	32.79	16.233		
5,500.0	5,427.5	5,449.5	5,438.0	22.2	19.6	-109.78	-192.5	759.8	535.5	502.0	33.51	15.982		
5,600.0	5,526.3	5,547.1	5,535.6	22.6	19.9	-111.22	-194.3	759.3	539.1	504.8	34.23	15.749		
5,700.0	5,625.3	5,644.8	5,633.3	23.0	20.2	-112.55	-196.0	759.0	542.9	508.0	34.95	15.534		
5,800.0	5,724.4	5,743.7	5,732.2	23.4	20.6	-113.80	-197.5	758.9	546.8	511.2	35.68	15.327		
5,900.0	5,823.6	5,843.6	5,832.1	23.9	20.9	-114.93	-199.2	758.9	550.6	514.2	36.40	15.125		
6,000.0	5,922.9	5,943.5	5,931.9	24.3	21.3	-115.96	-201.0	758.9	554.1	517.0	37.12	14.926		
6,100.0	6,022.3	6,042.8	6,031.2	24.7	21.6	-116.87	-203.0	759.1	557.4	519.5	37.83	14.734		
6,200.0	6,121.8	6,141.9	6,130.3	25.1	22.0	-117.68	-204.9	759.4	560.4	521.9	38.52	14.549		
6,300.0	6,221.3	6,241.7	6,230.1	25.5	22.3	-118.40	-206.7	759.8	563.3	524.1	39.20	14.367		
6,400.0	6,321.0	6,342.3	6,330.7	25.8	22.7	-119.02	-208.8	760.3	565.6	525.7	39.88	14.184		
6,500.0	6,420.7	6,441.3	6,429.6	26.2	23.0	-119.53	-211.0	761.0	567.6	527.1	40.52	14.008		
6,600.0	6,520.5	6,539.0	6,527.2	26.6	23.3	-119.92	-212.9	762.0	569.5	528.4	41.13	13.845		
6,700.0	6,620.3	6,637.8	6,626.1	26.9	23.6	-120.28	-214.4	762.9	571.3	529.6	41.71	13.698		
6,800.0	6,720.2	6,739.8	6,728.1	27.3	23.7	-120.67	-215.3	762.9	573.0	530.9	42.04	13.629		
6,900.0	6,820.1	6,950.5	6,930.3	27.6	23.8	-126.13	-219.6	710.7	563.4	520.1	43.24	13.030		
7,000.0	6,920.1	7,070.1	7,029.3	27.9	23.9	-132.99	-222.7	644.2	545.4	500.3	45.08	12.099		
7,100.0	7,020.1	7,160.6	7,088.2	28.2	24.0	-140.32	-224.6	575.9	529.3	481.9	47.32	11.184		
7,180.5	7,100.5	7,193.4	7,105.1	28.4	24.1	-143.39	-224.7	547.7	524.5	476.4	48.15	10.893 ES		
7,200.0	7,120.0	7,200.1	7,108.2	28.4	24.2	-144.03	-224.6	541.9	524.8	476.6	48.23	10.881 SF		
7,300.0	7,220.0	7,227.8	7,119.8	28.6	24.3	-146.81	-224.0	516.7	535.7	487.9	47.78	11.212		
7,306.5	7,226.5	7,229.3	7,120.4	28.6	24.3	-2.76	-224.0	515.3	536.9	489.2	47.71	11.255		
7,400.0	7,320.0	7,249.2	7,127.4	28.6	24.4	-4.78	-223.2	496.7	562.3	516.2	46.14	12.186		
7,500.0	7,420.0	7,273.0	7,134.2	28.6	24.5	-7.22	-222.3	473.9	603.6	559.5	44.05	13.702		
7,600.0	7,520.0	7,273.0	7,134.2	28.6	24.5	-7.22	-222.3	473.9	656.9	615.7	41.15	15.963		
7,700.0	7,620.0	7,289.4	7,137.9	28.6	24.6	-8.91	-221.7	457.9	719.8	680.8	38.91	18.497		
7,800.0	7,720.0	7,304.0	7,140.6	28.6	24.7	-10.41	-221.2	443.6	790.2	753.3	36.93	21.398		
7,900.0	7,820.0	7,304.0	7,140.6	28.7	24.7	-10.41	-221.2	443.6	866.2	831.2	35.01	24.743		
8,000.0	7,920.0	7,312.3	7,142.0	28.7	24.7	-11.27	-220.9	435.4	946.6	913.0	33.62	28.156		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

Site Error: 0.0 usft North Reference: _WILD THING FED COM 902H Reference Well:

Grid

Survey Calculation Method:

Minimum Curvature

3.0 usft Well Error: Reference Wellbore OWB PWP0

Reference Design:

Output errors are at 2.00 sigma

Database: EDT 17 Permian Prod Offset TVD Reference: Reference Datum

vey Prog	ram: 10	0-Standard Ke	eper 104 763	70-r.5 MWD+IF	R1+MS					Rule Assi	aned.		Offset Well Error:	3.0 us
Refe	rence Vertical	Offs		Semi I	Major Axis Offset	Himbaida	Offset Wellb	ore Centre		tance	No-Go	Camanatian	Warning	5.0 us
easured Depth (usft)	Depth (usft)	Measured Depth (usft)	Depth (usft)	Reference (usft)	(usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Separation Factor	warning	
0.0	0.0	21.0	-2.6	3.0	3.0	110.27	-239.2	647.9	690.6	684.2	6.43	107.427		
100.0	100.0	111.1	87.4	3.2	3.0	110.43	-241.5	648.2	691.8	685.1	6.66	103.803		
200.0	200.0	213.7	190.0	3.5	3.0	110.76	-245.8	648.4	693.5	686.6	6.90	100.558		
300.0	300.0	316.2	292.4	3.7	3.0	111.09	-250.0	648.1	694.7	687.5	7.12	97.514		
400.0	400.0	419.6	395.7	3.9	3.0	111.44	-254.2	647.5	695.7	688.3	7.35	94.682		
500.0	500.0	537.6	513.6	4.1	3.1	111.70	-256.9	645.7	695.0	687.5	7.56	91.878		
000.0	000.0	007.0	0.0.0		0.1		200.0	040.7	000.0	001.0	7.00	01.070		
600.0	600.0	637.6	613.6	4.2	3.1	111.75	-256.8	643.6	693.1	685.3	7.78	89.100		
700.0	700.0	734.4	710.5	4.4	3.1	111.78	-256.5	641.8	691.2	683.2	7.99	86.487		
800.0	800.0	833.5	809.5	4.6	3.1	111.78	-256.0	640.5	689.8	681.6	8.21	84.065		
900.0	900.0	928.3	904.3	4.8	3.1	111.78	-255.5	639.6	688.7	680.3	8.42	81.811		
1,000.0	1,000.0	1,028.0	1,004.0	4.9	3.1	111.77	-255.3	639.0	688.1	679.5	8.63	79.718		
1,100.0	1,100.0	1,128.9	1,104.9	5.1	3.2	-32.52	-254.8	638.6	686.4	677.6	8.87	77.430		
1,200.0	1,199.9	1,229.8	1,205.7	5.3	3.2	-32.79	-253.8	638.1	682.3	673.2	9.09	75.039		
1,300.0	1,299.7	1,328.9	1,304.9	5.5	3.2	-33.21	-252.8	637.5	675.9	666.6	9.34	72.391		
1,400.0	1,399.3	1,428.6	1,404.6	5.7	3.3	-33.78	-251.7	637.2	667.6	658.0	9.60	69.550		
1,500.0	1,498.6	1,528.6	1,504.6	6.0	3.3	-34.51	-250.8	636.7	657.1	647.2	9.88	66.497		
1,600.0	1,597.5	1,626.4	1,602.4	6.3	3.3	-35.40	-249.8	636.2	644.5	634.3	10.18	63.300		
1,700.0	1,696.1	1,725.5	1,701.5	6.5	3.4	-36.50	-248.8	635.7	629.9	619.4	10.50	60.002		
1,733.3	1,728.8	1,757.7	1,733.6	6.6	3.4	-36.91	-248.4	635.6	624.6	614.1	10.57	59.113		
1,800.0	1,794.3	1,823.5	1,799.4	6.8	3.4	-37.67	-247.7	635.2	613.8	603.1	10.73	57.193		
1,900.0	1,892.4	1,924.1	1,900.0	7.1	3.5	-38.93	-246.2	634.5	597.7	586.6	11.05	54.107		
	4 000 0	0.007.4	0.000.0		0.5	40.04	044.0	200.0	504.0	500.0	44.00	F4 447		
2,000.0	1,990.6	2,027.1	2,003.0	7.4	3.5	-40.31	-244.3	633.2	581.2	569.8	11.36	51.147		
2,100.0	2,088.8	2,125.0	2,100.9	7.8	3.6	-41.74	-242.0	631.5	564.4	552.7	11.68	48.307		
2,200.0	2,186.9	2,209.1	2,185.0	8.1	3.7	-43.06	-239.9	631.1	549.2	537.2	12.00	45.759		
2,300.0	2,285.1	2,301.0	2,276.8	8.5	3.7	-44.60	-237.8	632.6	536.5	524.2	12.29	43.645		
2,400.0	2,383.3	2,398.9	2,374.7	8.8	3.7	-46.33	-235.5	634.4	524.5	511.9	12.57	41.738		
2,500.0	2,481.4	2,493.9	2,469.6	9.2	3.7	-48.07	-233.4	636.4	513.2	500.4	12.83	40.000		
2,600.0	2,579.6	2,588.0	2,563.7	9.6	3.8	-49.82	-233.4	639.2	503.3	490.3	13.08	38.479		
							-231.7 -231.7							
2,700.0	2,677.7	2,699.2	2,674.8	10.0	3.8	-51.74		641.7	493.4 482.1	480.1	13.30	37.082		
2,800.0 2,900.0	2,775.9 2,874.1	2,798.7 2,897.3	2,774.2 2,872.9	10.4 10.8	3.8 3.8	-53.32 -55.02	-233.5 -234.7	642.1		468.5	13.55	35.574		
2,900.0	2,074.1	2,097.3	2,012.9	10.6	3.0	-55.02	-234.1	642.4	471.1	457.3	13.78	34.192		
3,000.0	2,972.2	2,995.4	2,971.0	11.2	3.8	-56.77	-236.0	642.7	460.6	446.6	13.99	32.923		
3,100.0	3,070.4	3,092.3	3,067.8	11.6	3.8	-58.58	-237.3	643.1	450.6	436.4	14.18	31.776		
3,200.0	3,168.6	3,191.8	3,167.3	12.0	3.8	-60.53	-238.5	643.7	441.3	427.0	14.34	30.765		
3,300.0	3,266.7	3,289.9	3,265.5	12.5	3.8	-62.53	-239.8	644.1	432.3	417.8	14.49	29.834		
3,400.0	3,364.9	3,389.3	3,364.8	12.9	3.9	-64.64	-241.0	644.5	423.9	409.2	14.61	29.009		
, ,	.,	.,	.,					05	.20.0	.00.2	,			
3,500.0	3,463.0	3,487.9	3,463.5	13.3	3.9	-66.83	-242.2	644.7	415.9	401.2	14.71	28.266		
3,600.0	3,561.2	3,586.3	3,561.8	13.7	3.9	-69.09	-243.4	644.8	408.5	393.7	14.80	27.604		
3,700.0	3,659.4	3,685.1	3,660.6	14.2	4.0	-71.44	-244.6	644.8	401.6	386.7	14.87	27.015		
3,800.0	3,757.5	3,783.3	3,758.8	14.6	4.0	-73.86	-245.8	644.9	395.5	380.6	14.93	26.495		
3,900.0	3,855.7	3,881.2	3,856.7	15.0	4.1	-76.33	-246.9	645.1	390.3	375.3	14.99	26.045		
4,000.0	3,953.9	3,979.7	3,955.2	15.5	4.1	-78.89	-248.1	645.2	385.7	370.6	15.05	25.630		
4,100.0	4,052.0	4,077.6	4,053.1	15.9	4.2	-81.49	-249.1	645.3	382.1	366.9	15.13	25.253		
4,200.0	4,150.2	4,176.8	4,152.2	16.4	4.2	-84.17	-250.2	645.4	379.1	363.9	15.24	24.883		
4,300.0	4,248.3	4,275.2	4,250.6	16.8	4.3	-86.85	-251.4	645.4	377.0	361.6	15.38	24.507		
4,400.0	4,346.5	4,374.0	4,349.5	17.3	4.3	-89.58	-252.6	645.4	375.7	360.1	15.58	24.110		
4,500.0	4,444.7	4,473.0	4,448.4	17.7	4.4	-92.35	-253.7	645.1	375.1	359.3	15.85	23.675		
4,535.4	4,479.4	4,508.1	4,483.6	17.9	4.4	-93.33	-254.2	645.0	375.1	359.1	15.96	23.509		
4,600.0	4,542.8	4,571.1	4,546.5	18.1	4.5	-95.09	-254.9	644.8	375.4	359.2	16.18	23.201		
4,700.0	4,641.0	4,669.4	4,644.8	18.6	4.6	-97.84	-256.1	644.5	376.5	359.9	16.59	22.697		
4,800.0	4,739.2	4,768.6	4,744.0	19.0	4.6	-100.57	-257.4	644.2	378.4	361.4	17.08	22.162		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

Site Error: 0.0 usft North Reference: Grid

_WILD THING FED COM 902H Reference Well: 3.0 usft Well Error:

Survey Calculation Method:

Minimum Curvature

Reference Wellbore OWB PWP0 Reference Design:

Output errors are at

2.00 sigma EDT 17 Permian Prod

Offset TVD Reference:

Database:

Reference Datum

													Offset Site Error:	0.0 us
urvey Progr	ram: 10 rence	0-Standard Ke Offs		70-r.5 MWD+IF Semi	R1+MS Major Axis		Offset Wellb	ore Centre	Die	Rule Assig	ned:		Offset Well Error:	3.0 us
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	No-Go	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Distance (usft)	Factor		
4,900.0	4,837.3	4,867.8	4,843.2	19.5	4.7	-103.24	-259.0	643.9	381.0	363.4	17.64	21.601		
5,000.0	4,935.5	4,967.1	4,942.5	19.9	4.8	-105.83	-261.1	643.5	384.0	365.7	18.27	21.020		
5,100.0	5,033.6	5,062.1	5,037.5	20.4	4.9	-108.24	-262.7	643.7	388.4	369.5	18.95	20.501		
5,106.5	5,040.0	5,068.3	5,043.7	20.4	4.9	-108.41	-262.8	643.7	388.7	369.7	18.99	20.467		
5,200.0	5,131.9	5,161.0	5,136.4	20.8	5.0	-110.85	-263.4	643.0	393.8	374.1	19.71	19.981		
5,300.0	5,230.3	5,260.9	5,236.3	21.3	5.0	-113.31	-264.3	642.1	399.3	378.8	20.51	19.462		
5,400.0	5,328.8	5,359.9	5,335.2	21.7	5.1	-115.58	-265.5	641.0	404.8	383.5	21.33	18.981		
5,500.0	5,427.5	5,458.8	5,434.1	22.2	5.2	-117.70	-266.8	639.6	410.3	388.1	22.15	18.523		
5,600.0	5,526.3	5,558.7	5,534.0	22.6	5.3	-119.67	-268.0	638.3	416.0	393.1	22.97	18.109		
5,700.0	5,625.3	5,656.7	5,632.0	23.0	5.4	-121.46	-269.3	636.9	421.6	397.8	23.77	17.733		
5,800.0	5,724.4	5,758.5	5,733.8	23.4	5.5	-123.22	-270.8	635.0	426.9	402.3	24.60	17.351		
5,900.0	5,823.6	5,858.4	5,833.7	23.9	5.6	-124.80	-272.4	633.2	431.8	406.4	25.40	17.003		
6,000.0	5,922.9	5,958.6	5,933.8	24.3	5.7	-126.24	-274.3	631.3	436.3	410.1	26.17	16.674		
6,100.0	6,022.3	6,058.1	6,033.3	24.7	5.8	-127.52	-276.3	629.7	440.5	413.6	26.90	16.373		
6,200.0	6,121.8	6,157.2	6,132.3	25.1	5.9	-128.65	-278.5	628.4	444.3	416.7	27.60	16.096		
6,300.0	6,221.3	6,257.9	6,233.0	25.5	6.0	-129.64	-280.8	627.3	447.6	419.3	28.28	15.829		
6,400.0	6,321.0	6,356.9	6,332.0	25.8	6.1	-130.47	-283.2	626.6	450.5	421.6	28.89	15.590		
6,500.0	6,420.7	6,456.4	6,431.5	26.2	6.2	-131.18	-285.5	626.1	452.9	423.4	29.48	15.363		
6,600.0	6,520.5	6,557.3	6,532.3	26.6	6.3	-131.82	-288.1	625.6	454.7	424.7	30.05	15.130		
6,700.0	6,620.3	6,658.6	6,633.6	26.9	6.4	-132.43	-290.5	624.5	456.0	425.3	30.62	14.892		
6,800.0	6,720.2	6,758.9	6,733.8	27.3	6.5	-132.71	-293.9	625.2	456.1	425.1	31.06	14.685		
6,900.0	6,820.1	6,845.9	6,820.8	27.6	6.6	-132.90	-295.6	625.9	457.1	425.7	31.35	14.579		
7,000.0	6,920.1	6,937.2	6,912.1	27.9	6.6	-132.92	-295.2	628.0	460.1	428.5	31.58	14.571		
7,100.0	7,020.1	7,037.2	7,012.0	28.2	6.6	-133.00	-293.5	629.5	463.6	431.7	31.87	14.546		
7,200.0	7,120.0	7,139.1	7,113.9	28.4	6.6	-132.85	-292.7	632.0	465.7	433.6	32.09	14.514		
7.000.0	7.000.0	7.000.4	7.007.0	00.0		100.70	201.0	200.7	407.0	105.0	00.40	44.500		
7,300.0	7,220.0	7,233.1	7,207.8	28.6	6.6	-132.73	-291.3	633.7	467.9	435.8	32.13	14.566		
7,306.5	7,226.5	7,239.4	7,214.2	28.6	6.6	11.47	-291.1	633.8	468.1	436.0	32.13	14.568		
7,400.0	7,320.0	7,336.0	7,310.7	28.6	6.6	11.40	-288.4	633.7	470.7	438.4	32.22	14.609		
7,500.0 7,600.0	7,420.0 7,520.0	7,445.0 7,547.8	7,419.7 7,522.5	28.6 28.6	6.6 6.7	11.74 12.08	-288.4 -289.3	636.5 639.2	471.2 470.8	438.9 438.6	32.24 32.21	14.613 14.615		
7,000.0	7,520.0	7,547.6	7,322.3	20.0	0.7	12.00	-209.3	039.2	470.6	430.0	32.21	14.015		
7,700.0	7,620.0	7,650.2	7,624.8	28.6	6.8	12.38	-290.6	641.5	470.0	437.8	32.21	14.593		
7,800.0	7,720.0	7,791.6	7,765.6	28.6	6.9	13.60	-300.3	649.4	464.6	432.4	32.21	14.423		
7,900.0	7,820.0	7,931.5	7,900.8	28.7	7.2	17.38	-325.0	673.6	452.3	421.0	31.26	14.467		
8,000.0	7,920.0	8,366.7	8,166.8	28.7	8.2	62.47	-602.1	823.9	403.6	379.0	24.69	16.346		
8,100.0	8,020.0	8,385.7	8,169.0	28.7	8.2	65.86	-619.6	830.9	351.2	327.0	24.15	14.539		
8,200.0	8,120.0	8,395.4	8,169.7	28.7	8.2	67.60	-628.6	834.5	321.6	297.5	24.11	13.340		
8,249.9	8,169.9	8,398.6	8,169.9	28.7	8.2	68.18	-631.6	835.7	317.8	293.3	24.44	13.002 CC, ES	3	
8,300.0	8,220.0	8,401.2	8,170.1	28.7	8.2	68.65	-634.0	836.7	321.7	296.7	25.00	12.865 SF	-	
8,400.0	8,320.0	8,405.0	8,170.3	28.8	8.3	69.33	-637.5	838.1	351.4	324.9	26.47	13.276		
8,500.0	8,420.0	8,409.4	8,170.5	28.8	8.3	70.13	-641.6	839.7	404.2	376.3	27.88	14.500		
8,600.0	8,520.0	8,413.7	8,170.7	28.8	8.3	70.90	-645.6	841.3	472.5	443.6	28.94	16.329		
8,700.0	8,620.0	8,418.1	8,170.9	28.8	8.3	71.68	-649.6	843.0	550.6	520.9	29.71	18.533		
8,800.0	8,720.0	8,422.5	8,171.1	28.8	8.3	72.47	-653.7	844.6	634.8	604.5	30.29	20.955		
8,900.0	8,820.0	8,427.0	8,171.3	28.9	8.3	73.27	-657.8	846.3	723.0	692.2	30.77	23.500		
9,000.0	8,920.0	8,431.5	8,171.5	28.9	8.3	74.08	-662.0	848.0	813.9	782.7	31.18	26.107		

Anticollision Report

Company: DELAWARE BASIN WEST

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

Project: ATLAS PROSPECT (DBW)
Reference Site: WILD THING PROJECT

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

Site Error: 0.0 usft
Reference Well: _WILD THING FED COM 902H

North Reference: Grid

Well Error: 3.0 usft

Survey Calculation Method: Minimum Curvature

Reference Wellbore OWB
Reference Design: PWP0

Output errors are at 2.00 sigma

Database: EDT 17 Permian Prod
Offset TVD Reference: Reference Datum

D	40	O Standard I/-	oper 104 700	22 × E MM/D / IE	D1±MC					Dul. A.			Offset Site Error: Offset Well Error:	0.0 us
ey Progr Refe	ram: 10 rence	0-Standard Ke		33-r.5 MWD+IF Semi N	Major Axis		Offset Wellb	ore Centre	Dis	Rule Assig	gnea:		Offset Well Error:	3.0 us
sured epth isft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	21.0	-2.6	3.0	3.0	110.27	-239.2	647.9	690.6	684.2	6.43	107.427		
100.0	100.0	111.1	87.4	3.2	3.0	110.43	-241.5	648.2	691.8	685.1	6.66	103.803		
200.0	200.0	213.7	190.0	3.5	3.0	110.76	-245.8	648.4	693.5	686.6	6.90	100.558		
300.0	300.0	316.2	292.4	3.7	3.0	111.09	-250.0	648.1	694.7	687.5	7.12	97.514		
400.0	400.0	419.6	395.7	3.9	3.0	111.44	-254.2	647.5	695.7	688.3	7.35	94.682		
500.0	500.0	537.6	513.6	4.1	3.1	111.70	-256.9	645.7	695.0	687.5	7.56	91.878		
600.0	600.0	637.6	613.6	4.2	3.1	111.75	-256.8	643.6	693.1	685.3	7.78	89.100		
700.0	700.0	734.4	710.5	4.4	3.1	111.78	-256.5	641.8	691.2	683.2	7.99	86.487		
0.008	800.0	833.5	809.5	4.6	3.1	111.78	-256.0	640.5	689.8	681.6	8.21	84.065		
900.0	900.0	928.3	904.3	4.8	3.1	111.78	-255.5	639.6	688.7	680.3	8.42	81.811		
,000.0	1,000.0	1,028.0	1,004.0	4.9	3.1	111.77	-255.3	639.0	688.1	679.5	8.63	79.718		
,100.0	1,100.0	1,128.9	1,104.9	5.1	3.2	-32.52	-254.8	638.6	686.4	677.6	8.87	77.430		
,200.0	1,199.9	1,229.8	1,205.7	5.3	3.2	-32.79	-253.8	638.1	682.3	673.2	9.09	75.039		
,300.0	1,299.7	1,328.9	1,304.9	5.5	3.2	-33.21	-252.8	637.5	675.9	666.6	9.34	72.391		
,400.0	1,399.3	1,428.6	1,404.6	5.7	3.3	-33.78	-251.7	637.2	667.6	658.0	9.60	69.550		
,500.0	1,498.6	1,528.6	1,504.6	6.0	3.3	-34.51	-250.8	636.7	657.1	647.2	9.88	66.497		
,600.0	1,597.5	1,626.4	1,602.4	6.3	3.3	-35.40	-249.8	636.2	644.5	634.3	10.18	63.300		
,700.0	1,696.1	1,725.5	1,701.5	6.5	3.4	-36.50	-248.8	635.7	629.9	619.4	10.50	60.002		
,733.3	1,728.8	1,757.7	1,733.6	6.6	3.4	-36.91	-248.4	635.6	624.6	614.1	10.57	59.113		
,800.0	1,794.3	1,823.5	1,799.4	6.8	3.4	-37.67	-247.7	635.2	613.8	603.1	10.73	57.193		
,900.0	1,892.4	1,924.1	1,900.0	7.1	3.5	-38.93	-246.2	634.5	597.7	586.6	11.05	54.107		
,000.0	1,990.6	2,027.1	2,003.0	7.4	3.5	-40.31	-244.3	633.2	581.2	569.8	11.36	51.147		
,100.0	2,088.8	2,125.0	2,100.9	7.8	3.6	-41.74	-242.0	631.5	564.4	552.7	11.68	48.307		
,200.0	2,186.9	2,209.1	2,185.0	8.1	3.7	-43.06	-239.9	631.1	549.2	537.2	12.00	45.759		
,300.0	2,285.1	2,301.0	2,276.8	8.5	3.7	-44.60	-237.8	632.6	536.5	524.2	12.29	43.645		
,400.0	2,383.3	2,398.9	2,374.7	8.8	3.7	-46.33	-235.5	634.4	524.5	511.9	12.57	41.738		
,500.0	2,481.4	2,493.9	2,469.6	9.2	3.7	-48.07	-233.4	636.4	513.2	500.4	12.83	40.000		
,600.0	2,579.6	2,588.0	2,563.7	9.6	3.8	-49.82	-231.7	639.2	503.3	490.3	13.08	38.479		
,700.0	2,677.7	2,699.2	2,674.8	10.0	3.8	-51.74	-231.7	641.7	493.4	490.3	13.30	37.082		
,800.0	2,775.9	2,798.7	2,774.2	10.0	3.8	-53.32	-231.7	642.1	482.1	468.5	13.55	35.574		
,900.0	2,874.1	2,897.3	2,872.9	10.4	3.8	-55.02	-233.5	642.4	471.1	457.3	13.78	34.192		
	0.070.0	0.005.4	0.074.0	44.0		50.77	000.0	040.7	400.0	440.0	10.00	00.000		
,000.0	2,972.2 3,070.4	2,995.4 3,092.3	2,971.0 3,067.8	11.2 11.6	3.8 3.8	-56.77 -58.58	-236.0 -237.3	642.7 643.1	460.6 450.6	446.6 436.4	13.99 14.18	32.923 31.776		
,200.0	3,168.6	3,191.8	3,167.3	12.0	3.8	-60.53	-238.5	643.7	441.3	427.0	14.10	30.765		
,300.0	3,266.7	3,289.9	3,265.5	12.5	3.8	-62.53	-239.8	644.1	432.3	417.8	14.49	29.834		
,400.0	3,364.9	3,389.3	3,364.8	12.9	3.9	-64.64	-241.0	644.5	423.9	409.2	14.61	29.009		
,500.0	2 462 0	3,487.9	3,463.5	13.3	3.9	66.02	-242.2	644.7	415.9	401.2	14.71	28.266		
,500.0	3,463.0 3,561.2	3,487.9	3,463.5	13.3	3.9	-66.83 -69.09	-242.2 -243.4	644.8	415.9	393.7	14.71	27.604		
,700.0	3,659.4	3,685.1	3,660.6	14.2	4.0	-71.44	-243.4	644.8	400.5	386.7	14.87	27.004		
,800.0	3,757.5	3,783.3	3,758.8	14.6	4.0	-73.86	-245.8	644.9	395.5	380.6	14.93	26.495		
,900.0	3,855.7	3,881.2	3,856.7	15.0	4.1	-76.33	-246.9	645.1	390.3	375.3	14.99	26.045		
000 0	3 053 0	3 070 7	3 055 3	15.5	4.4	_79 00	_240.4	645.0	205.7	370.6	1E 0E	25 620		
,000.0	3,953.9 4,052.0	3,979.7 4,077.6	3,955.2 4,053.1	15.5 15.9	4.1 4.2	-78.89 -81.49	-248.1 -249.1	645.2 645.3	385.7 382.1	370.6 366.9	15.05 15.13	25.630 25.253		
,200.0	4,150.2	4,176.8	4,152.2	16.4	4.2	-84.17	-250.2	645.4	379.1	363.9	15.24	24.883		
,300.0	4,248.3	4,275.2	4,250.6	16.8	4.3	-86.85	-251.4	645.4	377.0	361.6	15.38	24.507		
,400.0	4,346.5	4,374.0	4,349.5	17.3	4.3	-89.58	-252.6	645.4	377.0	360.1	15.58	24.110		
500 O	4 444 7	4 472 0	4 440 4	477	4.4	00.05	050.7	CAE A			45.05	22 675		
,500.0	4,444.7 4,479.4	4,473.0	4,448.4 4,483.6	17.7 17.9	4.4	-92.35 -93.33	-253.7 -254.2	645.1 645.0	375.1 375.1	359.3 359.1	15.85 15.96	23.675		
,535.4		4,508.1			4.4				375.1			23.509		
,600.0	4,542.8	4,571.1	4,546.5	18.1	4.5	-95.09 07.84	-254.9 256.1	644.8	375.4	359.2	16.18	23.201		
,700.0	4,641.0 4,739.2	4,669.4 4,768.6	4,644.8 4,744.0	18.6	4.6	-97.84	-256.1	644.5	376.5	359.9	16.59	22.697		

Anticollision Report

DELAWARE BASIN WEST Company:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

ATLAS PROSPECT (DBW) Project: WILD THING PROJECT Reference Site:

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

Site Error: 0.0 usft North Reference: Grid

_WILD THING FED COM 902H Reference Well:

Reference Design:

Survey Calculation Method: Minimum Curvature

3.0 usft Well Error: Reference Wellbore OWB

Output errors are at

Database:

2.00 sigma

Offset TVD Reference: PWP0

EDT 17 Permian Prod Reference Datum

ey Progr		0-Standard Ke								Rule Assig	gned:		Offset Well Error:	3.0 u
Refer	rence Vertical	Offs Measured	set Vertical	Semi I Reference	Major Axis Offset	Highside	Offset Wellb	ore Centre	Dis Between	tance Between	No-Go	Separation	Warning	
epth usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Distance (usft)	Factor		
4,900.0	4,837.3	4,867.8	4,843.2	19.5	4.7	-103.24	-259.0	643.9	381.0	363.4	17.64	21.601		
5,000.0	4,935.5	4,967.1	4,942.5	19.9	4.8	-105.83	-261.1	643.5	384.0	365.7	18.27	21.020		
5,100.0	5,033.6	5,062.1	5,037.5	20.4	4.9	-108.24	-262.7	643.7	388.4	369.5	18.95	20.501		
5,106.5	5,040.0	5,068.3	5,043.7	20.4	4.9	-108.41	-262.8	643.7	388.7	369.7	18.99	20.467		
5,200.0	5,131.9	5,161.0	5,136.4	20.8	5.0	-110.85	-263.4	643.0	393.8	374.1	19.71	19.981		
5,300.0	5,230.3	5,260.9	5,236.3	21.3	5.0	-113.31	-264.3	642.1	399.3	378.8	20.51	19.462		
5,400.0	5,328.8	5,359.9	5,335.2	21.7	5.1	-115.58	-265.5	641.0	404.8	383.5	21.33	18.981		
5,500.0	5,427.5	5,458.8	5,434.1	22.2	5.2	-117.70	-266.8	639.6	410.3	388.1	22.15	18.523		
5,600.0	5,526.3	5,558.7	5,534.0	22.6	5.3	-119.67	-268.0	638.3	416.0	393.1	22.97	18.109		
5,700.0	5,625.3	5,656.7	5,632.0	23.0	5.4	-121.46	-269.3	636.9	421.6	397.8	23.77	17.733		
5,800.0	5,724.4	5,758.5	5,733.8	23.4	5.5	-123.22	-270.8	635.0	426.9	402.3	24.60	17.351		
5,900.0	5,823.6	5,858.4	5,833.7	23.9	5.6	-124.80	-272.4	633.2	431.8	406.4	25.40	17.003		
3,000.0	5,922.9	5,958.6	5,933.8	24.3	5.7	-126.24	-274.3	631.3	436.3	410.1	26.17	16.674		
5,100.0	6,022.3	6,058.1	6,033.3	24.7	5.8	-127.52	-276.3	629.7	440.5	413.6	26.90	16.373		
3,200.0	6,121.8	6,157.2	6,132.3	25.1	5.9	-128.65	-278.5	628.4	444.3	416.7	27.60	16.096		
6,300.0	6,221.3	6,257.9	6,233.0	25.5	6.0	-129.64	-280.8	627.3	447.6	419.3	28.28	15.829		
5,400.0	6,321.0	6,356.9	6,332.0	25.8	6.1	-130.47	-283.2	626.6	450.5	421.6	28.89	15.590		
5,500.0	6,420.7	6,456.4	6,431.5	26.2	6.2	-131.18	-285.5	626.1	452.9	423.4	29.48	15.363		
5,600.0	6,520.5	6,557.3	6,532.3	26.6	6.3	-131.82	-288.1	625.6	454.7	424.7	30.05	15.130		
5,700.0	6,620.3	6,658.6	6,633.6	26.9	6.4	-132.43	-290.5	624.5	456.0	425.3	30.62	14.892		
5,800.0	6,720.2	6,758.9	6,733.8	27.3	6.5	-132.71	-293.9	625.2	456.1	425.1	31.06	14.685		
5,900.0	6,820.1	6,845.9	6,820.8	27.6	6.6	-132.90	-295.6	625.9	457.1	425.7	31.35	14.579		
7,000.0	6,920.1	6,937.2	6,912.1	27.9	6.6	-132.92	-295.2	628.0	460.1	428.5	31.58	14.571		
7,100.0	7,020.1	7,037.2	7,012.0	28.2	6.6	-133.00	-293.5	629.5	463.6	431.7	31.87	14.546		
7,200.0	7,120.0	7,124.0	7,098.7	28.4	6.6	-132.70	-291.7	633.4	467.5	435.6	31.88	14.662		
7,300.0	7,220.0	7,214.8	7,189.1	28.6	6.8	-131.95	-287.0	641.2	474.5	442.8	31.71	14.962		
7,306.5	7,226.5	7,214.6	7,109.1	28.6	6.8	12.29	-286.7	641.6	474.9	443.2	31.71	14.902		
7,400.0	7,320.0	7,312.5	7,286.5	28.6	7.0	12.70	-281.7	646.2	480.9	449.3	31.64	15.200		
7,500.0 7,600.0	7,420.0 7,520.0	7,411.6 7,516.2	7,385.3 7,489.6	28.6 28.6	7.1 7.3	13.09 13.37	-275.4 -269.1	651.0 654.9	488.2 494.9	456.6 463.2	31.60 31.67	15.448 15.628		
7,700.0	7,620.0	7,621.4	7,594.6	28.6	7.5	13.57	-263.8	658.0	500.5	468.7	31.77	15.753		
7,800.0	7,720.0	7,729.6	7,702.7	28.6	7.7	13.64	-259.4	659.7	504.8	472.8	31.95	15.798		
7,900.0	7,820.0	7,943.8	7,915.7	28.7	7.8	14.72	-268.7	667.1	506.4	474.0	32.50	15.585		
3,000.0 3,100.0	7,920.0 8,020.0	8,147.7 8,275.5	8,102.5 8,204.2	28.7 28.7	7.7 7.8	21.42 30.10	-340.0 -407.4	701.4 739.1	476.4 436.4	445.7 407.9	30.75 28.43	15.491 15.347		
	0,020.0							135.1				10.047		
3,200.0	8,120.0	8,371.9	8,271.9	28.7	7.9	39.42	-466.9	773.1	396.3	370.2	26.09	15.191		
3,300.0	8,220.0	8,477.1	8,334.0	28.7	8.1	52.56	-542.2	811.7	359.8	335.8	24.02	14.976		
3,400.0	8,320.0	8,527.0	8,357.4	28.8	8.3	59.96	-581.8	831.1	337.5	313.9	23.65	14.274		
3,445.1	8,365.1	8,545.1	8,365.2	28.8	8.3	62.76	-596.4	838.5	334.9	310.9	24.04	13.931 CC, E	S	
3,500.0	8,420.0	8,564.0	8,373.3	28.8	8.4	65.67	-611.5	846.4	338.7	313.8	24.91	13.600		
3,600.0	8,520.0	8,598.6	8,387.8	28.8	8.5	70.98	-639.1	861.4	364.1	336.9	27.19	13.390 SF		
3,700.0	8,620.0	8,623.0	8,396.8	28.8	8.6	74.70	-659.0	872.2	409.9	380.7	29.20	14.036		
3,800.0	8,720.0	8,648.9	8,405.2	28.8	8.7	78.61	-680.6	883.8	470.8	439.9	30.86	15.254		
3,900.0	8,820.0	8,670.0	8,411.0	28.9	8.8	81.75	-698.6	893.1	542.3	510.3	31.96	16.969		
9,000.0	8,920.0	8,682.4	8,414.1	28.9	8.8	83.57	-709.4	898.6	621.0	588.4	32.58	19.061		
9,100.0	9,020.0	8,696.4	8,417.3	28.9	8.9	85.58	-721.6	904.6	704.6	671.5	33.10	21.285		
9,200.0	9,120.0	8,718.0	8,421.6	28.9	9.0	88.61	-740.6	913.7	791.8	758.1	33.68	23.510		
9,300.0	9,220.0	8,718.0	8,421.6	28.9	9.0	88.61	-740.6	913.7	881.3	847.4	33.84	26.041		
9,400.0	9,320.0	8,718.0	8,421.6	29.0	9.0	88.61	-740.6	913.7	972.8	938.8	34.02	28.591		

Anticollision Report

TVD Reference:

MD Reference:

Company: **DELAWARE BASIN WEST**

ATLAS PROSPECT (DBW) Project: Reference Site: WILD THING PROJECT

Site Error: 0.0 usft

_WILD THING FED COM 902H Reference Well:

3.0 usft Well Error: **OWB** Reference Wellbore PWP0 Reference Design:

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

GL @ 2940.0usft GL @ 2940.0usft

Grid

North Reference: Minimum Curvature **Survey Calculation Method:**

Output errors are at 2.00 sigma

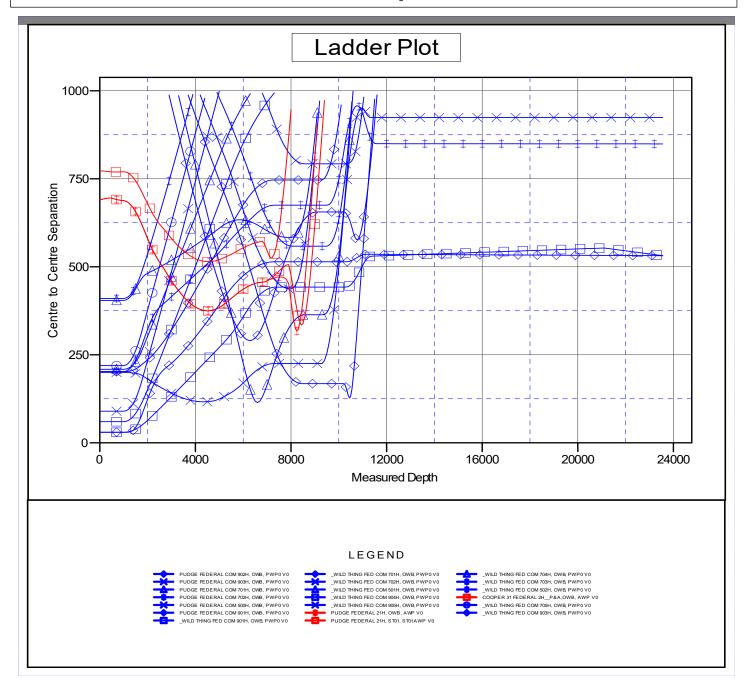
EDT 17 Permian Prod Database: Offset TVD Reference: Reference Datum

Reference Depths are relative to GL @ 2940.0usft Offset Depths are relative to Offset Datum Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _WILD THING FED COM 902H - Slot 902H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.17°



Anticollision Report

North Reference:

Company: DELAWARE BASIN WEST

Project: ATLAS PROSPECT (DBW)
Reference Site: WILD THING PROJECT

Site Error: 0.0 usft

Reference Well: _WILD THING FED COM 902H

Well Error: 3.0 usft
Reference Wellbore OWB
Reference Design: PWP0

Local Co-ordinate Reference:

Well _WILD THING FED COM 902H - Slot

902H

TVD Reference: GL @ 2940.0usft MD Reference: GL @ 2940.0usft

Grid

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma

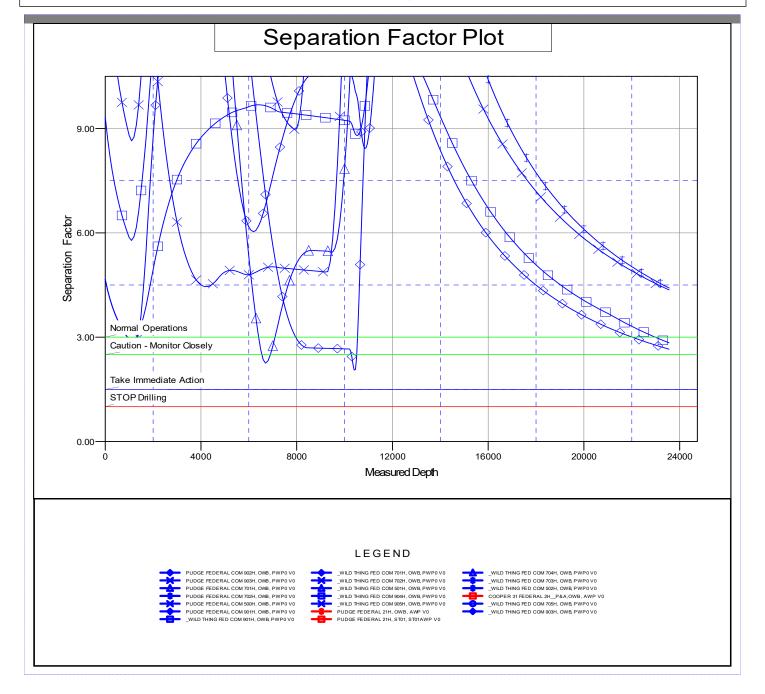
Database: EDT 17 Permian Prod
Offset TVD Reference: Reference Datum

Reference Depths are relative to GL @ 2940.0usft Offset Depths are relative to Offset Datum Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _WILD THING FED COM 902H - Slot 902H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.17°



DELAWARE BASIN WEST

ATLAS PROSPECT (DBW)
WILD THING PROJECT
_WILD THING FED COM 902H - Slot 902H

OWB

Plan: PWP0

Standard Planning Report

09 October, 2024

Planning Report

TVD Reference:

MD Reference:

North Reference:

Database: EDT 17 Permian Prod

DELAWARE BASIN WEST ATLAS PROSPECT (DBW) WILD THING PROJECT

Well: _WILD THING FED COM 902H

Wellbore: OWB Design: PWP0

Company:

Project:

Site:

Local Co-ordinate Reference:

Survey Calculation Method:

Well _WILD THING FED COM 902H - Slot

902H

GL @ 2940.0usft GL @ 2940.0usft

Grid

Minimum Curvature

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	4/11/2023	6.61	59.66	47,408.60598718

PWP0 Design **Audit Notes:** 0.0 Version: Phase: PLAN Tie On Depth: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.0 0.0 0.0 2.13

 Plan Survey Tool Program
 Date 10/9/2024

 Depth From (usft)
 Depth To (usft)
 Survey (Wellbore)
 Tool Name
 Remarks

 1
 0.0
 23,559.2
 PWP0 (OWB)
 r.5 MWD+IFR1+MS

OWSG MWD + IFR1 + Multi-St

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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,733.3	11.00	144.20	1,728.8	-56.9	41.1	1.50	1.50	0.00	144.20	
5,106.5	11.00	144.20	5,040.0	-578.9	417.5	0.00	0.00	0.00	0.00	
7,306.5	0.00	0.00	7,226.5	-749.7	540.7	0.50	-0.50	0.00	180.00	
10,207.0	0.00	0.00	10,127.0	-749.7	540.7	0.00	0.00	0.00	0.00	
11,107.0	90.00	359.63	10,700.0	-176.8	537.0	10.00	10.00	-0.04	359.63	
23,559.2	90.00	359.63	10,700.0	12,275.2	455.9	0.00	0.00	0.00	0.00	PBHL (WILD THING I

Planning Report

Database: EDT 17 Permian Prod

DELAWARE BASIN WEST ATLAS PROSPECT (DBW) WILD THING PROJECT

Well: _WILD THING FED COM 902H Wellbore: OWB

Design: PWP0

Company:

Project:

Site:

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well _WILD THING FED COM 902H - Slot

902H

GL @ 2940.0usft GL @ 2940.0usft

Grid

esign:	PWP0								
lanned 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
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
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	1.50	144.20	1,100.0	-1.1	0.8	-1.0	1.50	1.50	0.00
1,200.0	3.00	144.20	1,199.9	-4.2	3.1	-4.1	1.50	1.50	0.00
1,300.0	4.50	144.20	1,299.7	-9.6	6.9	-9.3	1.50	1.50	0.00
1,400.0	6.00	144.20	1,399.3	-9.0 -17.0	12.2	-9.5 -16.5	1.50	1.50	0.00
1,500.0	7.50	144.20	1,498.6	-26.5	19.1	-25.8	1.50	1.50	0.00
1,600.0	9.00	144.20	1,597.5	-38.1	27.5	-37.1	1.50	1.50	0.00
1,700.0	10.50	144.20	1,696.1	-51.9	37.4	-50.5	1.50	1.50	0.00
1,733.3	11.00	144.20	1,728.8	-56.9	41.1	-55.4	1.50	1.50	0.00
1,800.0	11.00	144.20	1,794.3	-67.2	48.5	-65.4	0.00	0.00	0.00
1,900.0	11.00	144.20	1,892.4	-82.7	59.7	-80.4	0.00	0.00	0.00
2,000.0	11.00	144.20	1,990.6	-98.2	70.8	-95.5	0.00	0.00	0.00
2,100.0	11.00	144.20	2,088.8	-113.7	82.0	-110.5	0.00	0.00	0.00
2,200.0	11.00	144.20	2,186.9	-129.1	93.1	-125.6	0.00	0.00	0.00
2,300.0	11.00	144.20	2,285.1	-144.6	104.3	-140.6	0.00	0.00	0.00
0.400.0	44.00	444.00		100.1	445.5	455.7	0.00	0.00	0.00
2,400.0	11.00	144.20	2,383.3	-160.1	115.5	-155.7	0.00	0.00	0.00
2,500.0	11.00	144.20	2,481.4	-175.6	126.6	-170.7	0.00	0.00	0.00
2,600.0	11.00	144.20	2,579.6	-191.0	137.8	-185.8	0.00	0.00	0.00
2,700.0	11.00	144.20	2,677.7	-206.5	148.9	-200.8	0.00	0.00	0.00
2,800.0	11.00	144.20	2,775.9	-222.0	160.1	-215.9	0.00	0.00	0.00
2,900.0	11.00	144.20	2,874.1	-237.5	171.3	-231.0	0.00	0.00	0.00
		144.20	2,972.2	-252.9	182.4		0.00	0.00	
3,000.0	11.00					-246.0			0.00
3,100.0	11.00	144.20	3,070.4	-268.4	193.6	-261.1	0.00	0.00	0.00
3,200.0	11.00	144.20	3,168.6	-283.9	204.8	-276.1	0.00	0.00	0.00
3,300.0	11.00	144.20	3,266.7	-299.4	215.9	-291.2	0.00	0.00	0.00
3,400.0	11.00	144.20	3,364.9	-314.9	227.1	-306.2	0.00	0.00	0.00
3,500.0	11.00	144.20	3,463.0	-330.3	238.2	-321.3	0.00	0.00	0.00
3,600.0	11.00	144.20	3,561.2	-345.8	249.4	-336.3	0.00	0.00	0.00
			,			-350.3 -351.4			
3,700.0 3,800.0	11.00 11.00	144.20 144.20	3,659.4 3,757.5	-361.3 -376.8	260.6 271.7	-351.4 -366.4	0.00 0.00	0.00 0.00	0.00 0.00
3,900.0	11.00	144.20	3,855.7	-392.2	282.9	-381.5	0.00	0.00	0.00
4,000.0	11.00	144.20	3,953.9	-407.7	294.0	-396.5	0.00	0.00	0.00
4,100.0	11.00	144.20	4,052.0	-423.2	305.2	-411.6	0.00	0.00	0.00
4,200.0	11.00	144.20	4,150.2	-438.7	316.4	-426.6	0.00	0.00	0.00
4,300.0	11.00	144.20	4,248.3	-454.1	327.5	-441.7	0.00	0.00	0.00
4,400.0	11.00	144.20	4,346.5	-469.6	338.7	-456.7	0.00	0.00	0.00
4,500.0	11.00	144.20	4,444.7	-485.1	349.9	-471.8	0.00	0.00	0.00
4,600.0	11.00	144.20	4,542.8	-500.6	361.0	-486.8	0.00	0.00	0.00
4,700.0	11.00	144.20	4,641.0	-516.0	372.2	-501.9	0.00	0.00	0.00
4,800.0	11.00	144.20	4,739.2	-531.5	383.3	-516.9	0.00	0.00	0.00
4,900.0		144.20	4,837.3				0.00	0.00	0.00
	11.00			-547.0	394.5	-532.0			
5,000.0	11.00	144.20	4,935.5	-562.5	405.7	-547.0	0.00	0.00	0.00
5,106.5	11.00	144.20	5,040.0	-578.9	417.5	-563.0	0.00	0.00	0.00

Planning Report

EDT 17 Permian Prod Database:

DELAWARE BASIN WEST Company: ATLAS PROSPECT (DBW) WILD THING PROJECT _WILD THING FED COM 902H

OWB Wellbore: PWP0 Design:

Project:

Site:

Well:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well _WILD THING FED COM 902H - Slot

902H

GL @ 2940.0usft GL @ 2940.0usft

Grid

Planned Survey									
			M			Vantia al	Danie	Dtial	T
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
5,200.0	10.53	144.20	5,131.9	-593.1	427.8	-576.8	0.50	-0.50	0.00
5,300.0	10.03	144.20	5,230.3	-607.6	438.2	-590.9	0.50	-0.50	0.00
5,400.0	9.53	144.20	5,328.8	-621.4	448.1	-604.3	0.50	-0.50	0.00
5,500.0	9.03	144.20	5,427.5	-634.5	457.6	-617.0	0.50	-0.50	0.00
5,600.0	8.53	144.20	5,526.3	-646.8	466.5	-629.1	0.50	-0.50	0.00
5,700.0	8.03	144.20	5,625.3	-658.5	474.9	-640.4	0.50	-0.50	0.00
5,800.0	7.53	144.20	5,724.4	-669.5	482.9	-651.1	0.50	-0.50	0.00
5,900.0	7.03	144.20	5.823.6	-679.8	490.3	-661.1	0.50	-0.50	0.00
6,000.0	6.53	144.20	5,922.9	-689.4	497.2	-670.4	0.50	-0.50	0.00
6,100.0	6.03	144.20	6,022.3	-698.2	503.6	-679.1	0.50	-0.50	0.00
		144.20			509.5				
6,200.0	5.53		6,121.8	-706.4		-687.0	0.50	-0.50	0.00
6,300.0	5.03	144.20	6,221.3	-713.9	514.9	-694.3	0.50	-0.50	0.00
6,400.0	4.53	144.20	6,321.0	-720.6	519.7	-700.9	0.50	-0.50	0.00
6,500.0	4.03	144.20	6,420.7	-726.7	524.1	-706.7	0.50	-0.50	0.00
6,600.0	3.53	144.20	6,520.5	-732.0	528.0	-711.9	0.50	-0.50	0.00
6,700.0	3.03	144.20	6,620.3	-736.7	531.3	-716.5	0.50	-0.50	0.00
6,800.0	2.53	144.20	6,720.2	-740.6	534.2	-720.3	0.50	-0.50	0.00
6,900.0	2.03	144.20	6,820.1	-743.9	536.5	-723.4	0.50	-0.50	0.00
7,000.0	1.53	144.20	6,920.1	-746.4	538.3	-725.9	0.50	-0.50	0.00
7,100.0	1.03	144.20	7,020.1	-748.2	539.6	-727.6	0.50	-0.50	0.00
7,200.0	0.53	144.20	7,120.0	-749.3	540.4	-728.7	0.50	-0.50	0.00
7,306.5	0.00	0.00	7,226.5	-749.7	540.7	-729.1	0.50	-0.50	0.00
7,400.0	0.00	0.00	7,320.0	-749.7	540.7	-729.1	0.00	0.00	0.00
	0.00	0.00	7,420.0		540.7	-729.1 -729.1	0.00		
7,500.0				-749.7				0.00	0.00
7,600.0	0.00	0.00	7,520.0	-749.7	540.7	-729.1	0.00	0.00	0.00
7,700.0	0.00	0.00	7,620.0	-749.7	540.7	-729.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,720.0	-749.7	540.7	-729.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,820.0	-749.7	540.7	-729.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,920.0	-749.7	540.7	-729.1	0.00	0.00	0.00
8,100.0	0.00	0.00	8,020.0	-749.7	540.7	-729.1	0.00	0.00	0.00
8,200.0	0.00	0.00	8,120.0	-749.7	540.7	-729.1	0.00	0.00	0.00
8,300.0	0.00	0.00	8,220.0	-749.7	540.7	-729.1	0.00	0.00	0.00
8,400.0	0.00	0.00	8,320.0	-749.7	540.7	-729.1	0.00	0.00	0.00
8,500.0	0.00	0.00	8,420.0	-749.7	540.7	-729.1	0.00	0.00	0.00
8,600.0	0.00	0.00	8,520.0	-749.7	540.7	-729.1	0.00	0.00	0.00
8,700.0	0.00	0.00	8,620.0	-749.7	540.7	-729.1	0.00	0.00	0.00
8,800.0	0.00	0.00	8,720.0	-749.7	540.7	-729.1	0.00	0.00	0.00
8,900.0	0.00	0.00	8,820.0	-749.7	540.7	-729.1	0.00	0.00	0.00
9,000.0	0.00	0.00	8,920.0	-749.7	540.7	-729.1	0.00	0.00	0.00
9,100.0	0.00	0.00	9,020.0	-749.7	540.7	-729.1	0.00	0.00	0.00
9,200.0	0.00	0.00	9,120.0	-749.7	540.7	-729.1	0.00	0.00	0.00
9,300.0	0.00	0.00	9,220.0	-749.7	540.7	-729.1	0.00	0.00	0.00
9.400.0	0.00	0.00	9,320.0	-749.7	540.7	-729.1	0.00	0.00	0.00
9,500.0	0.00	0.00	9,420.0	-749.7 -749.7	540.7	-729.1 -729.1	0.00	0.00	0.00
9,600.0	0.00	0.00	9,520.0	-749.7	540.7	-729.1	0.00	0.00	0.00
9,700.0	0.00	0.00	9,620.0	-749.7	540.7	-729.1	0.00	0.00	0.00
9,800.0	0.00	0.00	9,720.0	-749.7	540.7	-729.1	0.00	0.00	0.00
9,900.0	0.00	0.00	9,820.0	-749.7	540.7	-729.1	0.00	0.00	0.00
10,000.0	0.00	0.00	9,920.0	-749.7	540.7	-729.1	0.00	0.00	0.00
10,100.0	0.00	0.00	10,020.0	-749.7	540.7	-729.1	0.00	0.00	0.00
10,207.0	0.00	0.00	10,127.0	-749.7	540.7	-729.1	0.00	0.00	0.00
10,250.0	4.30	359.63	10,170.0	-749.7 -748.1	540.7	-72 3 .1	10.00	10.00	0.00
10,300.0	9.30	359.63	10,219.6	-742.2	540.7	-721.6	10.00	10.00	0.00

Planning Report

Database: EDT 17 Permian Prod

DELAWARE BASIN WEST ATLAS PROSPECT (DBW) WILD THING PROJECT WILD THING FED COM 902H

Wellbore: OWB
Design: PWP0

Company:

Project:

Site:

Well:

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well _WILD THING FED COM 902H - Slot

902H

GL @ 2940.0usft GL @ 2940.0usft

Grid

esign:	PWP0								
lanned 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)
10,350.0	14.30	359.63	10,268.6	-731.9	540.6	-711.4	10.00	10.00	0.00
10,400.0	19.30	359.63	10,316.4	-717.5	540.5	-696.9	10.00	10.00	0.00
10,450.0	24.30	359.63	10,362.8	-698.9	540.4	-678.4	10.00	10.00	0.00
10,500.0	29.30	359.63	10,407.4	-676.4	540.2	-655.9	10.00	10.00	0.00
10,550.0	34.30	359.63	10,449.9	-650.0	540.1	-629.6	10.00	10.00	0.00
10,600.0	39.30	359.63	10,489.9	-620.1	539.9	-599.6	10.00	10.00	0.00
10,650.0	44.30	359.63	10,527.2	-586.8	539.6	-566.3	10.00	10.00	0.00
10,700.0	49.30	359.63	10,561.4	-550.3	539.4	-529.9	10.00	10.00	0.00
10,750.0	54.30	359.63	10,592.3	-511.1	539.1	-490.7	10.00	10.00	0.00
10,800.0	59.30	359.63	10,619.7	-469.2	538.9	-448.9	10.00	10.00	0.00
10,850.0	64.30	359.63	10,643.3	-425.2	538.6	-404.9	10.00	10.00	0.00
10,900.0	69.30	359.63	10,663.0	-379.2	538.3	-359.0	10.00	10.00	0.00
10,950.0	74.30	359.63	10,678.6	-331.8	538.0	-311.6	10.00	10.00	0.00
11,000.0	79.30	359.63	10,690.0	-283.1	537.7	-262.9	10.00	10.00	0.00
11,050.0	84.30	359.63	10,697.1	-233.6	537.3	-213.5	10.00	10.00	0.00
11,100.0	89.30	359.63	10,699.9	-183.7	537.0	-163.7	10.00	10.00	0.00
11,107.0	90.00	359.63	10,700.0	-176.8	537.0	-156.7	10.00	10.00	0.00
11,200.0	90.00	359.63	10,700.0	-83.7	536.4	-63.8	0.00	0.00	0.00
11,300.0	90.00	359.63	10,700.0	16.3	535.7	36.2	0.00	0.00	0.00
11,400.0	90.00	359.63	10.700.0	116.3	535.1	136.1	0.00	0.00	0.00
11,500.0	90.00	359.63	10,700.0	216.3	534.4	236.0	0.00	0.00	0.00
11,600.0	90.00	359.63	10,700.0	316.3	533.8	335.9	0.00	0.00	0.00
11,700.0	90.00	359.63	10,700.0	416.3	533.1	435.8	0.00	0.00	0.00
11,800.0	90.00	359.63	10,700.0	516.3	532.5	535.7	0.00	0.00	0.00
11,900.0	90.00	359.63	10,700.0	616.3	531.8	635.6	0.00	0.00	0.00
12,000.0	90.00	359.63	10,700.0	716.3	531.2	735.5	0.00	0.00	0.00
12,100.0	90.00	359.63	10,700.0	816.3	530.5	835.4	0.00	0.00	0.00
12,200.0	90.00	359.63	10,700.0	916.3	529.9	935.3	0.00	0.00	0.00
12,300.0	90.00	359.63	10,700.0	1,016.3	529.2	1,035.2	0.00	0.00	0.00
12,400.0	90.00	359.63	10,700.0	1,116.3	528.5	1,135.1	0.00	0.00	0.00
12,500.0	90.00	359.63	10,700.0	1,216.3	527.9	1,235.0	0.00	0.00	0.00
12,600.0	90.00	359.63	10,700.0	1,316.3	527.2	1,334.9	0.00	0.00	0.00
12,700.0	90.00	359.63	10,700.0	1,416.3	526.6	1,434.8	0.00	0.00	0.00
12,800.0	90.00	359.63	10,700.0	1,516.2	525.9	1,534.7	0.00	0.00	0.00
12,900.0	90.00	359.63	10.700.0	1,616.2	525.3	1,634.6	0.00	0.00	0.00
13,000.0	90.00	359.63	10,700.0	1,716.2	524.6	1,734.5	0.00	0.00	0.00
13,100.0	90.00	359.63	10,700.0	1,816.2	524.0	1,834.4	0.00	0.00	0.00
13,200.0	90.00	359.63	10,700.0	1,916.2	523.3	1,934.3	0.00	0.00	0.00
13,300.0	90.00	359.63	10,700.0	2,016.2	522.7	2,034.2	0.00	0.00	0.00
13,400.0	90.00	359.63	10,700.0	2,116.2	522.0 521.4	2,134.2	0.00	0.00	0.00
13,500.0	90.00	359.63	10,700.0	2,216.2	521.4 520.7	2,234.1	0.00	0.00	0.00
13,600.0	90.00	359.63	10,700.0	2,316.2 2,416.2	520.7 520.1	2,334.0	0.00	0.00	0.00
13,700.0 13,800.0	90.00 90.00	359.63 359.63	10,700.0 10,700.0	2,416.2 2,516.2	520.1 519.4	2,433.9 2,533.8	0.00 0.00	0.00 0.00	0.00 0.00
13,000.0	90.00	339.03		۷,510.۷	519.4	۷,۵۵۵.۵			
13,900.0	90.00	359.63	10,700.0	2,616.2	518.8	2,633.7	0.00	0.00	0.00
14,000.0	90.00	359.63	10,700.0	2,716.2	518.1	2,733.6	0.00	0.00	0.00
14,100.0	90.00	359.63	10,700.0	2,816.2	517.5	2,833.5	0.00	0.00	0.00
14,200.0	90.00	359.63	10,700.0	2,916.2	516.8	2,933.4	0.00	0.00	0.00
14,300.0	90.00	359.63	10,700.0	3,016.2	516.2	3,033.3	0.00	0.00	0.00
14,400.0	90.00	359.63	10,700.0	3,116.2	515.5	3,133.2	0.00	0.00	0.00
14,500.0	90.00	359.63	10,700.0	3,216.2	514.9	3,233.1	0.00	0.00	0.00
14,600.0	90.00	359.63	10,700.0	3,316.2	514.2	3,333.0	0.00	0.00	0.00
14,700.0	90.00	359.63	10,700.0	3,416.2	513.6	3,432.9	0.00	0.00	0.00

Planning Report

Database: EDT 17 Permian Prod

Company: DELAWARE BASIN WEST
Project: ATLAS PROSPECT (DBW)
Site: WILD THING PROJECT
Well: _WILD THING FED COM 902H

Wellbore: OWB
Design: PWP0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well _WILD THING FED COM 902H - Slot

902H

GL @ 2940.0usft GL @ 2940.0usft

Grid

Design:	PWP0								
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)
14,800.0	90.00	359.63	10,700.0	3,516.2	512.9	3,532.8	0.00	0.00	0.00
14,900.0	90.00	359.63	10,700.0	3,616.2	512.3	3,632.7	0.00	0.00	0.00
15,000.0	90.00	359.63	10,700.0	3,716.2	511.6	3,732.6	0.00	0.00	0.00
15,100.0	90.00	359.63	10,700.0	3,816.2	511.0	3,832.5	0.00	0.00	0.00
15,200.0	90.00	359.63	10,700.0	3,916.2	510.3	3,932.4	0.00	0.00	0.00
15,300.0	90.00	359.63	10,700.0	4,016.2	509.7	4,032.3	0.00	0.00	0.00
15,400.0	90.00	359.63	10,700.0	4,116.2	509.0	4,132.2	0.00	0.00	0.00
15,500.0	90.00	359.63	10,700.0	4,216.2	508.4	4,232.2	0.00	0.00	0.00
15,600.0	90.00	359.63	10,700.0	4,316.2	507.7	4,332.1	0.00	0.00	0.00
15,700.0	90.00	359.63	10,700.0	4,416.2	507.1	4,432.0	0.00	0.00	0.00
15,800.0	90.00	359.63	10,700.0	4,516.2	506.4	4,531.9	0.00	0.00	0.00
15,900.0	90.00	359.63	10,700.0	4,616.2	505.8	4,631.8	0.00	0.00	0.00
16,000.0	90.00	359.63	10,700.0	4,716.2	505.1	4,731.7	0.00	0.00	0.00
16,100.0	90.00	359.63	10,700.0	4,816.2	504.5	4,831.6	0.00	0.00	0.00
16,200.0	90.00	359.63	10,700.0	4,916.2	503.8	4,931.5	0.00	0.00	0.00
16,300.0	90.00	359.63	10,700.0	5,016.2	503.1	5,031.4	0.00	0.00	0.00
16,400.0	90.00	359.63	10,700.0	5,116.2	502.5	5,131.3	0.00	0.00	0.00
16,500.0	90.00	359.63	10,700.0	5,216.2	501.8	5,231.2	0.00	0.00	0.00
16,600.0	90.00	359.63	10,700.0	5,316.2	501.2	5,331.1	0.00	0.00	0.00
16,700.0	90.00	359.63	10,700.0	5,416.2	500.5	5,431.0	0.00	0.00	0.00
16,800.0	90.00	359.63	10,700.0	5,516.2	499.9	5,530.9	0.00	0.00	0.00
16,900.0	90.00	359.63	10,700.0	5,616.2	499.2	5,630.8	0.00	0.00	0.00
17,000.0	90.00	359.63	10,700.0	5,716.2	498.6	5,730.7	0.00	0.00	0.00
17,100.0	90.00	359.63	10,700.0	5,816.2	497.9	5,830.6	0.00	0.00	0.00
17,200.0	90.00	359.63	10,700.0	5,916.2	497.3	5,930.5	0.00	0.00	0.00
17,300.0	90.00	359.63	10,700.0	6,016.2	496.6	6,030.4	0.00	0.00	0.00
17,400.0	90.00	359.63	10,700.0	6,116.2	496.0	6,130.3	0.00	0.00	0.00
17,500.0	90.00	359.63	10,700.0	6,216.1	495.3	6,230.3	0.00	0.00	0.00
17,600.0	90.00	359.63	10,700.0	6,316.1	494.7	6,330.2	0.00	0.00	0.00
17,700.0	90.00	359.63	10,700.0	6,416.1	494.0	6,430.1	0.00	0.00	0.00
17,800.0	90.00	359.63	10,700.0	6,516.1	493.4	6,530.0	0.00	0.00	0.00
17,900.0	90.00	359.63	10,700.0	6,616.1	492.7	6,629.9	0.00	0.00	0.00
18,000.0	90.00	359.63	10,700.0	6,716.1	492.1	6,729.8	0.00	0.00	0.00
18,100.0	90.00	359.63	10,700.0	6,816.1	491.4	6,829.7	0.00	0.00	0.00
18,200.0 18,300.0	90.00 90.00	359.63 359.63	10,700.0 10,700.0	6,916.1 7,016.1	490.8 490.1	6,929.6 7,029.5	0.00 0.00	0.00 0.00	0.00 0.00
18,400.0	90.00	359.63	10,700.0	7,116.1	489.5	7,129.4	0.00	0.00	0.00
18,500.0	90.00	359.63	10,700.0	7,216.1	488.8	7,229.3	0.00	0.00	0.00
18,600.0 18,700.0	90.00	359.63 359.63	10,700.0 10,700.0	7,316.1	488.2 487.5	7,329.2 7,429.1	0.00 0.00	0.00	0.00 0.00
18,700.0	90.00 90.00	359.63 359.63	10,700.0	7,416.1 7,516.1	487.5 486.9	7,429.1 7,529.0	0.00	0.00 0.00	0.00
18,900.0	90.00	359.63	10,700.0	7,616.1	486.2	7,628.9	0.00	0.00	0.00
19,000.0 19,100.0	90.00	359.63 359.63	10,700.0 10,700.0	7,716.1	485.6	7,728.8 7,828.7	0.00	0.00	0.00
19,100.0	90.00 90.00	359.63 359.63	10,700.0	7,816.1 7,916.1	484.9 484.3	7,828.7 7,928.6	0.00 0.00	0.00 0.00	0.00 0.00
19,200.0	90.00	359.63	10,700.0	8,016.1	483.6	8,028.5	0.00	0.00	0.00
19,400.0	90.00	359.63	10,700.0	8,116.1	483.0	8,128.4	0.00	0.00	0.00
19,500.0 19,600.0	90.00 90.00	359.63 359.63	10,700.0 10,700.0	8,216.1 8,316.1	482.3 481.7	8,228.3 8,328.3	0.00 0.00	0.00 0.00	0.00 0.00
19,700.0	90.00	359.63	10,700.0	8,416.1	481.0	0,320.3 8,428.2	0.00	0.00	0.00
19,700.0	90.00	359.63	10,700.0	8,516.1	480.4	8,528.1	0.00	0.00	0.00
			,						
19,900.0	90.00	359.63	10,700.0	8,616.1	479.7	8,628.0	0.00	0.00	0.00
20,000.0	90.00	359.63	10,700.0	8,716.1	479.1	8,727.9	0.00	0.00	0.00

Planning Report

Database: EDT 17 Permian Prod

Company: DELAWARE BASIN WEST
Project: ATLAS PROSPECT (DBW)
Site: WILD THING PROJECT
Well: _WILD THING FED COM 902H

Wellbore: OWB
Design: PWP0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well _WILD THING FED COM 902H - Slot

902H

GL @ 2940.0usft GL @ 2940.0usft

Grid

sigii.									
lanned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,100.0	90.00	359.63	10,700.0	8,816.1	478.4	8,827.8	0.00	0.00	0.00
20,200.0	90.00	359.63	10,700.0	8,916.1	477.8	8,927.7	0.00	0.00	0.00
20,300.0	90.00	359.63	10,700.0	9,016.1	477.1	9,027.6	0.00	0.00	0.00
20,400.0	90.00	359.63	10,700.0	9,116.1	476.4	9,127.5	0.00	0.00	0.00
20,500.0	90.00	359.63	10,700.0	9,216.1	475.8	9,227.4	0.00	0.00	0.00
20,600.0	90.00	359.63	10,700.0	9,316.1	475.1	9,327.3	0.00	0.00	0.00
20,700.0	90.00	359.63	10,700.0	9,416.1	474.5	9,427.2	0.00	0.00	0.00
20,800.0	90.00	359.63	10,700.0	9,516.1	473.8	9,527.1	0.00	0.00	0.00
20,900.0	90.00	359.63	10,700.0	9,616.1	473.2	9,627.0	0.00	0.00	0.00
21,000.0	90.00	359.63	10,700.0	9,716.1	472.5	9,726.9	0.00	0.00	0.00
21,100.0	90.00	359.63	10,700.0	9,816.1	471.9	9,826.8	0.00	0.00	0.00
21,200.0	90.00	359.63	10,700.0	9,916.1	471.2	9,926.7	0.00	0.00	0.00
21,300.0	90.00	359.63	10,700.0	10,016.1	470.6	10,026.6	0.00	0.00	0.00
21,400.0	90.00	359.63	10,700.0	10,116.1	469.9	10,126.5	0.00	0.00	0.00
21,500.0	90.00	359.63	10,700.0	10,216.1	469.3	10,226.4	0.00	0.00	0.00
21,600.0	90.00	359.63	10,700.0	10,316.1	468.6	10,326.3	0.00	0.00	0.00
21,700.0	90.00	359.63	10,700.0	10,416.1	468.0	10,426.3	0.00	0.00	0.00
21,800.0	90.00	359.63	10,700.0	10,516.1	467.3	10,526.2	0.00	0.00	0.00
21,900.0	90.00	359.63	10,700.0	10,616.1	466.7	10,626.1	0.00	0.00	0.00
22,000.0	90.00	359.63	10,700.0	10,716.1	466.0	10,726.0	0.00	0.00	0.00
22,100.0	90.00	359.63	10,700.0	10,816.1	465.4	10,825.9	0.00	0.00	0.00
22,200.0	90.00	359.63	10,700.0	10,916.1	464.7	10,925.8	0.00	0.00	0.00
22,300.0	90.00	359.63	10,700.0	11,016.0	464.1	11,025.7	0.00	0.00	0.00
22,400.0	90.00	359.63	10,700.0	11,116.0	463.4	11,125.6	0.00	0.00	0.00
22,500.0	90.00	359.63	10,700.0	11,216.0	462.8	11,225.5	0.00	0.00	0.00
22,600.0	90.00	359.63	10,700.0	11,316.0	462.1	11,325.4	0.00	0.00	0.00
22,700.0	90.00	359.63	10,700.0	11,416.0	461.5	11,425.3	0.00	0.00	0.00
22,800.0	90.00	359.63	10,700.0	11,516.0	460.8	11,525.2	0.00	0.00	0.00
22,900.0	90.00	359.63	10,700.0	11,616.0	460.2	11,625.1	0.00	0.00	0.00
23,000.0	90.00	359.63	10,700.0	11,716.0	459.5	11,725.0	0.00	0.00	0.00
23,100.0	90.00	359.63	10,700.0	11,816.0	458.9	11,824.9	0.00	0.00	0.00
23,200.0	90.00	359.63	10,700.0	11,916.0	458.2	11,924.8	0.00	0.00	0.00
23,300.0	90.00	359.63	10,700.0	12,016.0	457.6	12,024.7	0.00	0.00	0.00
23,400.0	90.00	359.63	10,700.0	12,116.0	456.9	12,124.6	0.00	0.00	0.00
23,500.0	90.00	359.63	10,700.0	12,216.0	456.3	12,224.5	0.00	0.00	0.00
23,559.2	90.00	359.63	10,700.0	12,275.2	455.9	12,283.7	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (WILD THING FE - plan hits target ce - Rectangle (sides	enter	179.64 00.0 D20.0)	10,700.0	12,275.2	455.9	405,671.90	597,784.82	32° 6' 53.692 N	104° 1' 2.997 W
LTP (WILD THING FED - plan misses targe - Circle (radius 50.0	t center by 1.0	359.69 usft at 23429	10,700.0 0.2usft MD (1	12,145.2 0700.0 TVD, 1	455.8 12145.2 N, 456	405,541.87 6.7 E)	597,784.70	32° 6' 52.405 N	104° 1' 3.003 W
FTP (WILD THING FED - plan misses targe - Circle (radius 50.1	t center by 97.3	0.00 3usft at 1079	10,700.0 7.8usft MD (-524.4 10618.6 TVD,	536.8 -471.1 N, 538	392,872.28 .9 E)	597,865.76	32° 4' 47.019 N	104° 1' 2.492 W

Planning Report

EDT 17 Permian Prod Well _WILD THING FED COM 902H - Slot Database: Local Co-ordinate Reference: 902H DELAWARE BASIN WEST Company: **TVD Reference:** GL @ 2940.0usft Project: ATLAS PROSPECT (DBW) GL @ 2940.0usft MD Reference: Site: WILD THING PROJECT Grid North Reference: Well: _WILD THING FED COM 902H Minimum Curvature **Survey Calculation Method:** OWB Wellbore: PWP0 Design:

Released to Imaging: 2/12/2025 10:37:56 AM

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API BTC

Coupling Pipe Body

Grade: I 80-ICY Grade: L80-ICY 1st Band: Red Body: Red 1st Band: Brown 2nd Band: Brown 2nd Band: Pale Green 3rd Band: Pale Green 3rd Band: -4th Band: Pale Green

Outside Diameter	7.625 in.	Wall Thickness	0.375 in.	Grade	L80-ICY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Туре	Casing
Connection OD Option	Regular				

Pipe Body Data

Geometry			
Nominal OD	7.625 in.	Drift	6.750 in.
Wall Thickness	0.375 in.	Plain End Weight	29.06 lb/ft
Nominal Weight	29.700 lb/ft	OD Tolerance	API
Nominal ID	6.875 in.		

Performance	
SMYS	85,000 psi
Min UTS	95,000 psi
Body Yield Strength	726 x1000 lb
Min. Internal Yield Pressure	7320 psi
Collapse Pressure	5900 psi
Max. Allowed Bending	51 °/100 ft

Connection Data

Geometry	
Thread per In	5
Connection OD	8.500 in.
Hand Tight Stand Off	1 in.

Performance	
Joint Strength	733 x1000 lb
Coupling Face Load	597 x1000 lb
Internal Pressure Capacity	7320 psi

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.

For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.

Couplings OD are shown according to current API 5CT 10th Edition.

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1. Geologic Formations

TVD of target	10,700' EOL	Pilot hole depth	NA
MD at TD:	23,559'	Deepest expected fresh water:	50'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	120	Water	
Top of Salt	393	Salt	
Base of Salt	2595	Salt	
Lamar	2785	Salt Water	
Bell Canyon	2823	Salt Water	
Cherry Canyon	3672	Oil/Gas	
Brushy Canyon	4973	Oil/Gas	
Bone Spring	6542	Oil/Gas	
1st Bone Spring Sand	7496	Oil/Gas	
2nd Bone Spring Sand	8113	Oil/Gas	
3rd Bone Spring Sand	9339	Oil/Gas	
Wolfcamp	9690	Oil/Gas	
Wolfcamp A	9827	Not Penetrated	
Wolfcamp B	10153	Not Penetrated	

2. Casing Program

Hole Size	Casing	g Interval	Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF	SF
TIOIC OIZE	From	То	03g. 0120	(lbs) Grade Colli. Collapse		Or Burst	Body	Joint		
17.50"	0	350	13.375"	45.5	J55	BTC	13.05	1.14	44.90	49.98
9.875"	0	7500	7.625"	29.7	L80-ICY	BTC	1.51	1.14	3.26	3.29
8.750"	7500	10050	7.625"	29.7	P110-ICY	W513	1.41	1.72	3.58	2.15
6.75"	0	9850	5.5"	23	P110-CY	BTC	2.10	2.45	3.22	3.22
6.75"	9850	23,559	5.5"	23	P110-CY	W441	1.94	2.26	2.96	2.69
				BLM	1 Minimum Sa	fety Factor	1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

2b. Contingtency Casing Program

Hole Size	Casing	Interval	Csg. Size	Weight	Grade	Comm	SF	SF Burst	SF	SF
Hole Size	From	То	Csg. Size	(lbs)	Grade	Conn.	Collapse	SF Burst	Body	Joint
17.50"	0	350	13.375"	54.5	J55	BTC	7.06	2.42	44.72	47.65
12.25"	0	2690	9.625"	40	L80-IC	BTC	2.77	1.46	8.51	8.80
8.75"	2490	10050	7.625"	29.7	P110- ICY	W513	1.41	1.72	3.58	2.15
6.75"	0	9850	5.5"	23	P110-CY	втс	2.10	2.45	3.22	3.22
6.75"	9850	23,559	5.5"	23	P110-CY	W441	1.94	2.26	2.96	2.69
				BLM M	inimum Sa	fety Factor	1.125	1	1.6 Dry	1.6 Dry
									1.8 Wet	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 43 CFR Part 3170 Subpart 3172

Contingency program will be run if large water flows are encountered.

The 5 1/2" W441 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.

	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.				
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Υ			
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			
Is well located within Capitan Reef?	N			
If yes, does production casing cement tie back a minimum of 50' above the Reef? Is well within the designated 4 string boundary?				
Is well located in SOPA but not in R-111-P?	N			
	IN			
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?	N			
If yes, are there three strings cemented to surface?	14			

3. Cementing Program

Casing	# Sks	Wt. lb/	Yld ft3/	H₂0 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	210	12.8	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
Suii.	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Inter.	740	10.3	3.3	22	24	Halliburton tuned light
Stage 1	250	14.8	1.35	6.6	8	Tail: Class H
Prod	620	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
riou	1030	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

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	9,550'	20% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Sks	Wt. lb/	Yld ft3/	H₂0 gal/sk	500# Comp. Strength (hours)	Slurry Description
_	210	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
Surf.	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
14.44	320	12.8	1.75	9.21	12	Lead: Class C + 4% Gel + 1% CaCl2
Int. #1	390	14.8	1.35	6.6	8	Tail: Class C + 2% CaCl2
Inter. #2	300	10.5	3.3	22	24	Tuned light
(Liner)	90	14.8	1.35	6.6	8	Tail: Class H
Prod	530	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
FIOU	1030	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

Contingency program will be run if large water flows are encountered.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
2 nd Intermediate	2,490'	20%
Production	9,550'	20% OH in Lateral (KOP to EOL)

4. Pressure Control Equipment

	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
Υ	A variance is requested for the use of BOPE break testing on intermediate skids (in accordance with the 30 day full BOPE test requirements).

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		x	Tested to:						
			Ann	ular	Х	2500psi						
		5M	Blind	Ram	Х							
12-1/4" or 9-7/8"	13-5/8"		Pipe	Pipe Ram x		5000psi						
			l ſ						Double	e Ram	Х	5000psi
			Other*									
			5M Aı	nnular	Χ	5000psi						
		-5/8" 10M	Blind	Ram	Χ							
6-3/4"	13-5/8"		10M	Pipe	Ram	Х	10000000					
					Double	e Ram	Х	10000psi				
			Other*									

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3170 Subpart 3172 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 43 CFR Part 3170 Subpart 3172.
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 43 CFR Part 3170 Subpart 3172 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.

5. Mud Program

Depth		Type	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 - 10	28-34	N/C	
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 13.5	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

5b. Contingency Mud Program

	Depth	Type	Weight	Viscosity	Water Loss
From To		Type	(ppg)	Viscosity	water Loss
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	9-5/8" Int shoe	Brine	8.4 - 10	28-34	N/C
9-5/8" Int shoe	7-5/8" Int shoe	Brine	8.4 - 10	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 13.5	35-45	<20

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.				
Υ	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		
N	Resistivity	Pilot Hole TD to ICP		
N	Density	Pilot Hole TD to ICP		
Y	CBL	Production casing (If cement not circulated to surface)		
Υ	Mud log	Intermediate shoe to TD		
N	PEX			

7. Drilling Conditions

Condition	Specify what type and where?	
BH Pressure at deepest TVD	7515 psi at 10700' TVD	
Abnormal Temperature	NO 165 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 43 CFR Part 3170 Subpart 3176. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N	H2S is present
Y	H2S Plan attached

8. Other Facets of Operation

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

х	H2S Plan.
х	BOP & Choke Schematics.
х	Directional Plan

■ Tenaris

API STC

Coupling Pipe Body

Grade: J55 (Casing) Grade: J55 (Casing) Body: Bright Green 1st Band: Bright Green 1st Band: White 2nd Band: -2nd Band: -3rd Band: -

4th Band: -

Outside Diameter	13.375 in.	Wall Thickness	0.380 in.	Grade	J55 (Casing)
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Туре	Casing
Connection OD Option	Regular				

3rd Band: -

Pipe Body Data

Geometry			
Nominal OD	13.375 in.	Drift	12.459 in.
Wall Thickness	0.380 in.	Plain End Weight	52.79 lb/ft
Nominal Weight	54.500 lb/ft	OD Tolerance	API
Nominal ID	12.615 in.		

Performance	
SMYS	55,000 psi
Min UTS	75,000 psi
Body Yield Strength	853 x1000 lb
Min. Internal Yield Pressure	2730 psi
Collapse Pressure	1130 psi
Max. Allowed Bending	19 °/100 ft

Connection Data

Geometry	
Thread per In	8
Connection OD	14.375 in.
Hand Tight Stand Off	3.500 in.

Performance	
Joint Strength	514 x1000 lb
Coupling Face Load	519 x1000 lb
Internal Pressure Capacity	2730 psi

Make-Up Torques	
Minimum Torque	3860 ft-lb
Optimum Torque	5140 ft-lb
Maximum Torque	6430 ft-lb

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.

For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.

Couplings OD are shown according to current API 5CT 10th Edition.

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Tenaris

API BTC

Coupling Pipe Body

Grade: L80 Type 1 Grade: L80 Type 1 1st Band: Red Body: Red 1st Band: Brown 2nd Band: Brown 2nd Band: -3rd Band: -3rd Band: -4th Band: -

947 x1000 lb

837 x1000 lb

5750 psi

Outside Diameter	9.625 in.	Wall Thickness	0.395 in.	Grade	L80 Type 1
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Туре	Casing
Connection OD Option	Regular				

Pipe Body Data

Geometry			
Nominal OD	9.625 in.	Drift	8.679 in.
Wall Thickness	0.395 in.	Plain End Weight	38.97 lb/ft
Nominal Weight	40 lb/ft	OD Tolerance	API
Nominal ID	8.835 in.		

Performance	
SMYS	80,000 psi
Min UTS	95,000 psi
Body Yield Strength	916 x1000 lb
Min. Internal Yield Pressure	5750 psi
Collapse Pressure	3090 psi
Max. Allowed Bending	38 °/100 ft

Connection Data

Geometry		Performance
Thread per In	5	Joint Strength
Connection OD	10.625 in.	Coupling Face Load
Hand Tight Stand Off	1 in.	Internal Pressure Capacity

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.

For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.

Couplings OD are shown according to current API 5CT 10th Edition.

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WILD THING FEDERAL COM 902H

2. Casing Program

Hole Size	Casing	g Interval	Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF	SF
Tiole Size	From	То	OSg. OIZE	(lbs)	Grade	COIIII.	Collapse	or Burst	Body	Joint
17.50"	0	350	13.375"	45.5	J55	BTC	13.05	1.14	44.90	49.98
9.875"	0	7500	7.625"	29.7	L80-ICY	BTC	1.51	1.14	3.26	3.29
8.750"	7500	10050	7.625"	29.7	P110-ICY	W513	1.41	1.72	3.58	2.15
6.75"	0	9850	5.5"	23	P110-CY	BTC	2.10	2.45	3.22	3.22
6.75"	9850	23,559	5.5"	23	P110-CY	W441	1.94	2.26	2.96	2.69
				BLM Minimum Safety Factor				1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

2b. Contingtency Casing Program

Hole Size	Casing Interval		Csg. Size	Weight Grade		Conn.	SF	SF Burst	SF	SF
Hole Size	From	То	Csy. Size	(lbs)		Collii.	Collapse	or burst	Body	Joint
17.50"	0	350	13.375"	54.5	J55	BTC	7.06	2.42	44.72	47.65
12.25"	0	2690	9.625"	40	L80-IC	BTC	2.77	1.46	8.51	8.80
8.75"	2490	10050	7.625"	29.7	P110- ICY	W513	1.41	1.72	3.58	2.15
6.75"	0	9850	5.5"	23	P110-CY	втс	2.10	2.45	3.22	3.22
6.75"	9850	23,559	5.5"	23	P110-CY	W441	1.94	2.26	2.96	2.69
BLM Minimum Safety Factor						1.125	1	1.6 Dry	1.6 Dry	
						_			1.8 Wet	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 43 CFR Part 3170 Subpart 3172

Contingency program will be run if large water flows are encountered.

The 5 1/2" W441 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 - Wild Thing Fed Com 902H

3. Cementing Program

Casing	# Sks	Wt. lb/	Yld ft3/	H₂0 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	210	12.8	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
250		14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Inter.	740	10.3	3.3	22	24	Halliburton tuned light
Stage 1	250	14.8	1.35	6.6	8	Tail: Class H
Prod	620	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
FIUU	1030	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

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	9,550'	20% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Sks	Wt. lb/	Yld ft3/	H₂0 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	210	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
Suri.	250		1.34	6.34	8	Tail: Class C + 2% CaCl2
Int. #1	320		1.75	9.21	12	Lead: Class C + 4% Gel + 1% CaCl2
Inc. #1	390	14.8	1.35	6.6	8	Tail: Class C + 2% CaCl2
Inter. #2	300	10.5	3.3	22	24	Tuned light
(Liner)	90	14.8	1.35	6.6	8	Tail: Class H
Prod	530	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
FIUU	1030	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

Contingency program will be run if large water flows are encountered.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
2 nd Intermediate	2,490'	20%
Production	9,550'	20% OH in Lateral (KOP to EOL)

■Tenaris





Coupling	Pipe Body
Grade: P110-C	Y Grade: P110-CY
Body: White	1st Band: White
1st Band: Grey	2nd Band: Grey
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	5.500 in.	Wall Thickness	0.415 in.	Grade	P110-CY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Туре	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry			
Nominal OD	5.500 in.	Wall Thickness	0.415 in.
Nominal Weight	23 lb/ft	Plain End Weight	22.56 lb/ft
Drift	4.545 in.	OD Tolerance	API
Nominal ID	4.670 in.		

Performance	
Body Yield Strength	729 x1000 lb
Min. Internal Yield Pressure	14,530 psi
SMYS	110,000 psi
Collapse Pressure	14,540 psi

Connection Data

Geometry	
Connection OD	6.200 in.
Coupling Length	9.450 in.
Connection ID	4.658 in.
Make-up Loss	4.204 in.
Threads per inch	5
Connection OD Option	Regular

Performance	
Tension Efficiency	100 %
Joint Yield Strength	729 x1000 lb
Internal Pressure Capacity	14,530 psi
Compression Efficiency	100 %
Compression Strength	729 x1000 lb
Max. Allowable Bending	92 °/100 ft
External Pressure Capacity	14,540 psi

Make-Up Torques	
Minimum	12,980 ft-lb
Optimum	14,420 ft-lb
Maximum	15,860 ft-lb
Operation Limit Torques	
Operating Torque	24,200 ft-lb
Yield Torque	26,900 ft-lb

Notes

This connection is fully interchangeable with: TXP® BTC - 5.5 in. - 0.275 / 0.304 / 0.361 / 0.476 in.

Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version

Datasheet is also valid for Special Bevel option when applicable - except for Coupling Face Load, which will be reduced. Please contact a local Tenaris technical sales representative. Standard coupling design comes with optimized 20° bevel.

For the lastest performance data, always visit our website: www.tenaris.com

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State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 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.

Section 1 – Plan Description Effective May 25, 2021

I. Operator: COG O	perating LL	<u>C ogrid: 22</u>	9137	Date: _	11 / 11	<u>202</u> 4	
II. Type: ☒ Original ☐	☐ Amendment	due to 19.15.27.9	.D(6)(a) NMA	C □ 19.15.27.9.D	(6)(b) NM	IAC □ Other.	
If Other, please describe	e:						
III. Well(s): Provide the be recompleted from a s					wells prop	posed to be dr	illed or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Antici Gas M		Anticipated roduced Water BBL/D
Wild Thing Federal Com 902H	30-015-	O-31-25S-29E	856 FSL & 1409 FEL	± 7723	± 744	1	± 4671
V. Anticipated Schedu proposed to be recomple Well Name					1	of wells propo Initial Flow Back Date	First Production Date
Wild Thing Federal Com 902H	Pending	9/16/2024	± 25 days from spud	1/14/2025	;	1/24/2025	1/29/2025
VI. Separation Equipm VII. Operational Prac Subsection A through F VIII. Best Management during active and planne	tices: Attac of 19.15.27.8	ch a complete descrip NMAC.	ption of the ac	tions Operator wil	ll take to	comply with	he requirements of

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.

🛛 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 Anticipated Volume of N Natural Gas Rate MCF/D Gas for the First Year N				
X. Natural Gas Gathering System (NGGS):							
Operator	System	ULSTR of Tie-in	Anticipated Gathering	Available Maximum Daily Capacity			

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

XI. Map. \square 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 \square will \square will not have capacity to gather 100% of the anticipated natural	al gas
production volume from the well prior to the date of first production.	

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

☐ Attach O	perator's	plan to	manage	production	in res	ponse to	the	increased	line	pressure

XIV.	onfidentiality: \square 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 wh	h confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications Effective May 25, 2021

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

🗵 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 ☐ 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.

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.

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: power generation on lease; (a) power generation for grid; **(b)** compression on lease; (c) (d) liquids removal on lease: reinjection for underground storage; (e) reinjection for temporary storage; **(f)** reinjection for enhanced oil recovery; (g) fuel cell production; and (h)

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

- (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)

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

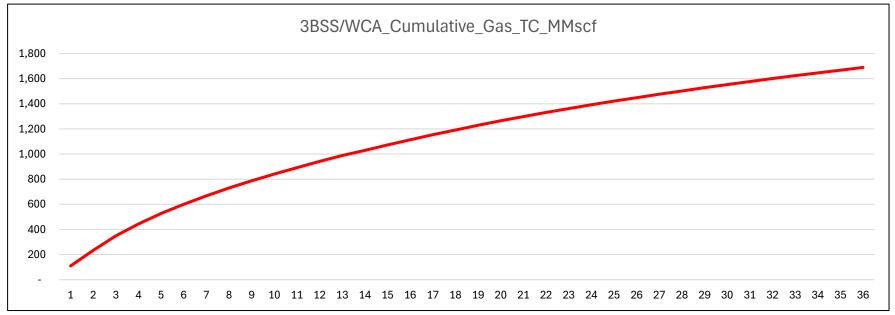
- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared
- During completions and production operations Operator will minimize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

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: Mayte Reyes			
Printed Name: Mayte Reyes			
Title: Sr. Regulatory Coodinator			
E-mail Address: mayte.x.reyes@conocophillips.com			
Date: 11/11/2024			
Phone: 575-748-6945			
OIL CONSERVATION DIVISION			
(Only applicable when submitted as a standalone form)			
Approved By:			
Title:			
Approval Date:			
Conditions of Approval:			

Anticipated Production Decline Curve







TenarisHydril Wedge 441®



Coupling	Pipe Body
Grade: P110-CY	Grade: P110-CY
Body: White	1st Band: White
1st Band: Grey	2nd Band: Grey
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	5.500 in.	Wall Thickness	0.415 in.	Grade	P110-CY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Туре	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry			
Nominal OD	5.500 in.	Wall Thickness	0.415 in.
Nominal Weight	23 lb/ft	Plain End Weight	22.56 lb/ft
Drift	4.545 in.	OD Tolerance	API
Nominal ID	4.670 in.		

Performance	
Body Yield Strength	729 x1000 lb
Min. Internal Yield Pressure	14,530 psi
SMYS	110,000 psi
Collapse Pressure	14,540 psi

Connection Data

Geometry	
Connection OD	5.900 in.
Coupling Length	8.714 in.
Connection ID	4.670 in.
Make-up Loss	3.780 in.
Threads per inch	3.40
Connection OD Option	Regular

Performance	
Tension Efficiency	90.80 %
Joint Yield Strength	662 x1000 lb
Internal Pressure Capacity	14,530 psi
Compression Efficiency	90.80 %
Compression Strength	662 x1000 lb
Max. Allowable Bending	79 °/100 ft
External Pressure Capacity	14,540 psi
Coupling Face Load	172,000 lb

Make-Up Torques	
Minimum	15,000 ft-lb
Optimum	16,000 ft-lb
Maximum	19,200 ft-lb
Operation Limit Torques	
Operating Torque	33,000 ft-lb
Yield Torque	39,000 ft-lb
Yield Torque	39,000 ft-lb
Yield Torque Buck-On	39,000 ft-lb
	39,000 ft-lb 19,200 ft-lb
Buck-On	,

Notes

This connection is fully interchangeable with: Wedge 441% - 5.5 in. - 0.476 in. Connections with Dopeless% Technology are fully compatible with the same connection in its Standard version

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Wedge 513®



Coupling	Pipe Body
Grade: P110-ICY	Grade: P110-ICY
Body: White	1st Band: White
1st Band: Pale Green	2nd Band: Pale Green
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	7.625 in.	Wall Thickness	0.375 in.	Grade	P110-ICY
Min. Wall Thickness	90.00 %	Pipe Body Drift	API Standard	Туре	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry			
Nominal OD	7.625 in.	Wall Thickness	0.375 in.
Nominal Weight	29.70 lb/ft	Plain End Weight	29.06 lb/ft
Drift	6.750 in.	OD Tolerance	API
Nominal ID	6.875 in.		

Performance	
Body Yield Strength	1068 x1000 lb
Min. Internal Yield Pressure	11,070 psi
SMYS	125,000 psi
Collapse Pressure	7360 psi

Connection Data

Geometry	
Connection OD	7.625 in.
Connection ID	6.800 in.
Make-up Loss	4.420 in.
Threads per inch	3.29
Connection OD Option	Regular

60 %
641 x1000 lb
11,070 psi
75.20 %
803 x1000 lb
45 °/100 ft
7360 psi

Make-Up Torques	
Minimum	9000 ft-lb
Optimum	10,800 ft-lb
Maximum	15,800 ft-lb
Operation Limit Torques	
Operating Torque	53,000 ft-lb
Yield Torque	79,000 ft-lb

Notes

This connection is fully interchangeable with: Wedge 523@-7.625 in. -0.375 in. Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version

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1. Component and Preventer Compatibility Table

The table below covers drilling and casing of the 10M MASP portion of the well and outlines the tubulars and the compatible preventers in use. Combined with the mud program, the below documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

Component	OD	Preventer	RWP
Drill pipe	4.5"		
HWDP	4.5"		
Jars	4.875" - 5"	Upper 4.5-7" VBR	10M
Drill collars and MWD tools	4.75" - 5"	Lower 4.5-7" VBR	TOW
Mud Motor	4.75"-5.875"		
Production casing	5.5" & 5"		
ALL	0- 13.625"	Annular	5M
Open-hole	-	Blind Rams	10M

VBR = Variable Bore Ram with compatible range listed in chart.

2. Well Control and Shut-In Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are minimum tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. The maximum pressure at which well control is transferred from the annular to another compatible ram is 2500 psi.

Drilling:

- 1. Sound the alarm (alert rig crew)
- 2. Space out the drill string
- 3. Shut down pumps and stop the rotary
- 4. Shut-in the well with the annular with HCR and choke in closed position
- 5. Confirm the well is shut-in
- 6. Notify contractor and company representatives
- 7. Read and record the following data
 - Time of shut-in
 - SIDPP and SICP
 - Pit gain
- 8. If pressure has increased to or is anticipated to increase to 2500 psi, confirm spacing and close the upper pipe rams.
- 9. Prepare for well kill operation.

Tripping:

- 1. Sound alarm (alert rig crew)
- 2. Stab full opening safety valve and close the valve
- 3. Space out the drill string
- 4. Shut-in the well with the annular with HCR and choke in closed position
- 5. Confirm shut-in
- 6. Notify contractor and company representatives
- 7. Read and record the following data:



- Time of shut-in
- SIDPP and SICP
- Pit gain
- 8. If pressure has increased to or is anticipated to increase to 2500 psi, confirm spacing and close the upper pipe rams.
- 9. Prepare for well kill operation.

Running Casing

- 1. Sound alarm (alert rig crew)
- 2. Stab crossover and valve and close the valve
- 3. Shut-in the well with annular with HCR and choke in closed position
- 4. Confirm shut-in
- 5. Notify contractor and company representatives
- 6. Read and record the following data
 - Time of shut-in
 - SIDPP and SICP
 - Pit gain
- 7. If pressure has increased to or is anticipated to increase to 2500 psi, confirm spacing and close the upper pipe rams.
- 8. Prepare for well kill operation

No Pipe in Hole (Open Hole)

- 1. At any point when pipe or BHA are not in BOP stack, well will be shut in with blind rams, HCR will be open and choke will be closed. If pressure increase is observed:
- 2. Sound alarm (alert crew)
- 3. Confirm shut-in
- 4. Notify contractor and company representatives
- 5. Read and record the following data
 - Time of shut-in
 - Time of pressure increase
 - SICP
- 6. Prepare for well kill operation

Pulling BHA through BOP Stack

- 1. Prior to pulling last joint/stand of drillpipe through the stack, perform a flow check. If well is flowing:
 - a. Sound alarm (alert crew)
 - b. Stab full opening safety valve and close the valve
 - c. Space out drill string with tooljoint just beneath the upper pipe ram.
 - d. Shut-in the well with upper pipe ram with HCR and choke in closed position
 - e. Confirm shut-in
 - f. Notify contractor and company representatives
 - g. Read and record the following data
 - Time of shut-in
 - SIDPP and SICP
 - Pit gain
 - h. Prepare for well kill operation.



2. With BHA in the stack:

- a. If possible to pick up high enough, pull BHA clear of the stack
 - i. Follow "Open Hole" procedure above
- b. If impossible to pick up high enough to pull BHA clear of the stack:
 - i. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
 - ii. Space out drill string with tooljoint just beneath the upper pipe ram.
 - iii. Shut-in the well with upper pipe ram with HCR and choke in closed position
 - iv. Confirm shut-in
 - v. Notify contractor and company representatives
 - vi. Read and record the following:
 - Time of shut-in
 - SIDPP and SICP
 - Pit gain
 - vii. Prepare for well kill operation.

3. Well Control Drills

Well control drills are specific to the rig equipment, personnel and operation at the time a kick occurs. Each crew will execute one drill weekly relevant to ongoing operations, but will make a reasonable attempt to vary the type of drills. The drills will be recorded in the daily drilling log. Below are minimum tasks for respective well control drills.

Drilling/Pit:

Action	Responsible Party
Initiate Drill Lift Flow Sensor or Pit Float to indicate a kick Immediately record start time	Company Representative / Rig Manager
Recognition Driller and/or Crew recognizes indicator Driller stop drilling, pick up off bottom and spaces out drill string, stop pumps and rotary Conduct flow check	Driller
Initiate Action • Sound alarm, notify rig crew that the well is flowing	Company Representative / Rig Manager
Reaction Driller moves BOP remote and stands by Crew is at their assigned stations Time is stopped Record time and drill type in the Drilling Report	Driller / Crew



Tripping Pit Drills (either in the hole or out of the hole)

Action	Responsible Party
Initiate Drill Lift Flow Sensor or Pit Float to indicate a kick Immediately record start time	Company Representative / Rig Manager
Recognition	Driller
Initiate Action • Sound alarm, notify rig crew that the well is flowing	Company Representative / Rig Manager
Reaction Position tool joint above rotary and set slips Stab FOSV and close valve Driller moves to BOP remote and stands by Crew is at their assigned stations Time is stopped Record time and drill type in the Drilling Report	Driller / Crew

Choke

Action	Responsible Party
 Have designated choke operator on station at the choke panel Close annular preventer Pressure annulus up 200-300 psi Pump slowly to bump the float and obtain SIDPP At choke operator instruction, slowly bring pumps online to slow pump rate while holding casing pressure constant at the SICP. Allow time for the well to stabilize. Mark and record circulating drillpipe pressure. Measure time lag on drillpipe gauge after choke adjustments. Hold casing pressure constant as pumps are slowed down while choke is closed. Record time and drill type in the Drilling Report 	Company Man / Rig Manager & Rig Crew



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT SUPO Data Report

APD ID: 10400094054

Submission Date: 08/24/2023

Highlighted data reflects the most recent changes

Operator Name: COG OPERATING LLC

Well Number: 902H

Show Final Text

Well Name: WILD THING FEDERAL COM

Well Work Type: Drill

Well Type: OIL WELL

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

COG_Wild_Thing_Existing_Road_20241202223111.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

Existing Road Improvement Description: Existing roads will be maintained in the same condition or better.

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

COG_Wild_Thing_Federal_Com_Access_Roads_20241202223135.pdf

New road type: RESOURCE

Length: 649.12 Feet Width (ft.): 30

Max slope (%): 33 Max grade (%): 1

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 20

New road access erosion control: Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns.

New road access plan or profile prepared? N

New road access plan

Well Name: WILD THING FEDERAL COM Well Number: 902H

Access road engineering design? N

Access road engineering design

Turnout? N

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: Blading

Access other construction information: No turnouts are planned.

Access miscellaneous information:

Number of access turnouts: Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: None necessary

Road Drainage Control Structures (DCS) description: None needed.

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

COG_Wild_Thing_902H_1_Mile_Data_20241202223214.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Wild Thing Federal CTBs. These CTBs will be built to accommodate the Wild Thing Fed Com #501H, #502, #503, #504, #701, #702,#703,#704, #705,#706, #707,#708,#709, #710, #901, #902,#903,#904, #905,#906, #907,#908,#909, #910. We plan to install (1) buried 6 FP 601HT production flowline with MAWP of 1500 psi from each wellhead to the inlet manifold of the proposed CTB (24 lines total); the route for these flowlines will follow the flowlines route as shown in the diagram below. We will install (1) buried 6 gas line for gas lift supply with MAWP of 1500 psi from the CTB to the well pad; the route for the gas lift line will follow the gas lift route as shown in layout below. We will install (1) buried 6 liquid return line with MAWP of 1500 psi for compressor liquids from the CTB to the well pad; the route for the liquid return lines will follow the liquid return route as shown in layout.

Well Name: WILD THING FEDERAL COM Well Number: 902H

Production Facilities map:

COG_Wild_Thing_East_Pad_CTB_20241202223302.pdf

COG_Wild_Thing_East_Pad_Layout_20241202223306.pdf

COG_Wild_Thing_Federal_Com_Flowlines_20241202223306.pdf

COG_Wild_Thing_Federal_Com_Powerlines_20241202223307.pdf

COG_Wild_Thing_Federal_Com_SS_20241202223307.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: OTHER

Describe type: Brine Water

Water source use type: INTERMEDIATE/PRODUCTION

CASING

Source latitude: Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: TRUCKING

Source land ownership: COMMERCIAL

Source transportation land ownership: COMMERCIAL

Water source volume (barrels): 30000 Source volume (acre-feet): 3.866793

Source volume (gal): 1260000

Water source type: OTHER

Describe type: Fresh Water

Water source use type: SURFACE CASING

STIMULATION

ICE PAD CONSTRUCTION &

MAINTENANCE

Source latitude: Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: PIPELINE

Received by OCD: 1/23/2025 2:28:26 PM

Page 165 of 334

Operator Name: COG OPERATING LLC

Well Name: WILD THING FEDERAL COM Well Number: 902H

Source land ownership: PRIVATE

Source transportation land ownership: PRIVATE

Water source volume (barrels): 450000 Source volume (acre-feet): 58.001892

Source volume (gal): 18900000

Water source and transportation

COG_Wild_Thing_Brine_H2O_Map_20230818162928.pdf

COG_Wild_Thing_H2O_Map_20230818162929.pdf

Water source comments: See attached maps

New water well? N

New Water Well Info

Well latitude: Well Longitude: Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft): Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft): Well casing type:

Well casing outside diameter (in.): Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method: Drill material:

Grout material: Grout depth:

Casing length (ft.): Casing top depth (ft.):

Well Production type: Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Caliche will be obtained from the actual well site. If caliche does not exist or is not plentiful from the well site, the caliche source will be from the MEC caliche pit located in Sec 34. T25S. R29E. SESE

Construction Materials source location

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Operator Name: COG OPERATING LLC

Well Name: WILD THING FEDERAL COM Well Number: 902H

Section 7 - Methods for Handling

Waste type: DRILLING

Waste content description: Drilling fluids and produced oil land water while drilling and completion operations

Amount of waste: 6000 barrels

Waste disposal frequency: One Time Only

Safe containment description: All drilling waste will be stored safely and disposed of properly

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: Trucked to an approved disposal facility

Waste type: SEWAGE

Waste content description: Human waste and gray water

Amount of waste: 1000 gallons

Waste disposal frequency: One Time Only

Safe containment description: Waste will be properly contained and disposed of properly at a state approved disposal

facility.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE

FACILITY

Disposal type description:

Disposal location description: Trucked to an approved disposal facility

Waste type: GARBAGE

Waste content description: Garbage and trash produced during drilling and completion operations.

Amount of waste: 500 pounds

Waste disposal frequency : One Time Only

Safe containment description: Garbage and trash produced during drilling and completion operations will be collected in a

trash container and disposed of properly at a state approved disposal facility

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: Trucked to an approved disposal facility.

Reserve Pit

Well Name: WILD THING FEDERAL COM Well Number: 902H

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

Description of cuttings location Roll off cutting containers on tracks

Cuttings area length (ft.) Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments: Gas Capture Plan attached

Section 9 - Well Site

Well Site Layout Diagram:

COG_Wild_Thing_East_Pad_Layout_20241202223401.pdf

Comments:

Well Name: WILD THING FEDERAL COM Well Number: 902H

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: WILD THING FEDERAL COM

Multiple Well Pad Number: 501H, 502H, 701H - 705H and 901H -

905H

Recontouring

COG Wild Thing East Layout Reclamation 20230818163900.pdf COG_Wild_Thing_East_Layout_Reclamation_20230818164711.pdf

Drainage/Erosion control construction: Proper erosion control methods will be used at the well site to control erosion, runoff, and siltation of the surrounding area. Straw waddles will be used as necessary at the well site to reduce sediment impacts to fragile/sensitive soils.

Drainage/Erosion control reclamation: The wellsite drainage will be monitored periodically to ensure that vegetation has re-established in unused areas of the pad and that erosion is controlled.

Well pad proposed disturbance

(acres): 9.55

Road proposed disturbance (acres):

Powerline proposed disturbance

(acres): 1.83

Pipeline proposed disturbance

(acres): 3.88

Other proposed disturbance (acres):

5.74

Total proposed disturbance:

21.450000000000003

Disturbance Comments: IR West, South.

Well pad long term disturbance Well pad interim reclamation (acres): 0.23

(acres): 8.99

Road interim reclamation (acres): 0 Road long term disturbance (acres):

0.45

Powerline interim reclamation (acres): Powerline long term disturbance

(acres): 1.83

Pipeline interim reclamation (acres): 0 Pipeline long term disturbance

(acres): 3.88

Other interim reclamation (acres): 0 Other long term disturbance (acres):

5.74

Total interim reclamation: 0.23 Total long term disturbance: 20.89

Reconstruction method: If needed, portions of the pad not needed for production operations will be re-contoured to its original state as much as possible. The caliche that is removed will be reused. The stockpiled topsoil will be spread out over reclaimed area and reseeded with BLM approved seed mixture.

Topsoil redistribution: Southwest, South.

Soil treatment: None

Existing Vegetation at the well pad: Shinnery Oak/Mesquite grassland

Existing Vegetation at the well pad

Existing Vegetation Community at the road: Shinnery Oak/Mesquite grassland

Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: Shinnery Oak/Mesquite grassland

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: N/A

Existing Vegetation Community at other disturbances

Well Name: WILD THING FEDERAL COM Well Number: 902H

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type

Pounds/Acre

Seed reclamation

Operator Contact/Responsible Official

First Name: Last Name:

Phone: Email:

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment

Weed treatment plan description: COP will maintain well pad and CTB with chemical treatment as necessary.

Weed treatment plan

Monitoring plan description: N/A

Monitoring plan

Success standards: N/A

Pit closure description: N/A

Well Name: WILD THING FEDERAL COM Well Number: 902H

Pit closure attachment:

COG_Wild_Thing_Closed_Loop_20241202223730.pdf	
Section 11 - Surface Ownership	
Disturbance type: EXISTING ACCESS ROAD	
Describe:	
Surface Owner: BUREAU OF LAND MANAGEMENT	
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:
Disturbance type: WELL PAD	
Describe:	
Surface Owner: BUREAU OF LAND MANAGEMENT	
Other surface owner description:	
BIA Local Office:	

Page 9 of 11

BOR Local Office:
COE Local Office:
DOD Local Office:
NPS Local Office:
State Local Office:

Military Local Office:

Well Name: WILD THING FEDERAL COM Well Number: 902H

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other

Right of Way needed? N

Use APD as ROW?

ROW Type(s):

ROW

SUPO Additional Information: Federal Surface. SUP attached. On-site was done by Gerald Herrera (COG); Zane Kirsch (BLM); on May 2nd, 2023.

Use a previously conducted onsite? N

Previous Onsite information:

Other SUPO

COG_Wild_Thing_Brine_H2O_Map_20230818165107.pdf

COG_Wild_Thing_H2O_Map_20230818165108.pdf

COG_Wild_Thing_902H_1_Mile_Data_20241202223920.pdf

COG_Wild_Thing_East_Pad_CTB_20241202223925.pdf

COG_Wild_Thing_East_Pad_Reclamation_20241202223925.pdf

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COG_Wild_Thing_East_Pad_Layout_20241202223925.pdf

COG_Wild_Thing_Federal_Com_Flowlines_20241202223926.pdf

COG_Wild_Thing_Federal_Com_Access_Roads_20241202223927.pdf

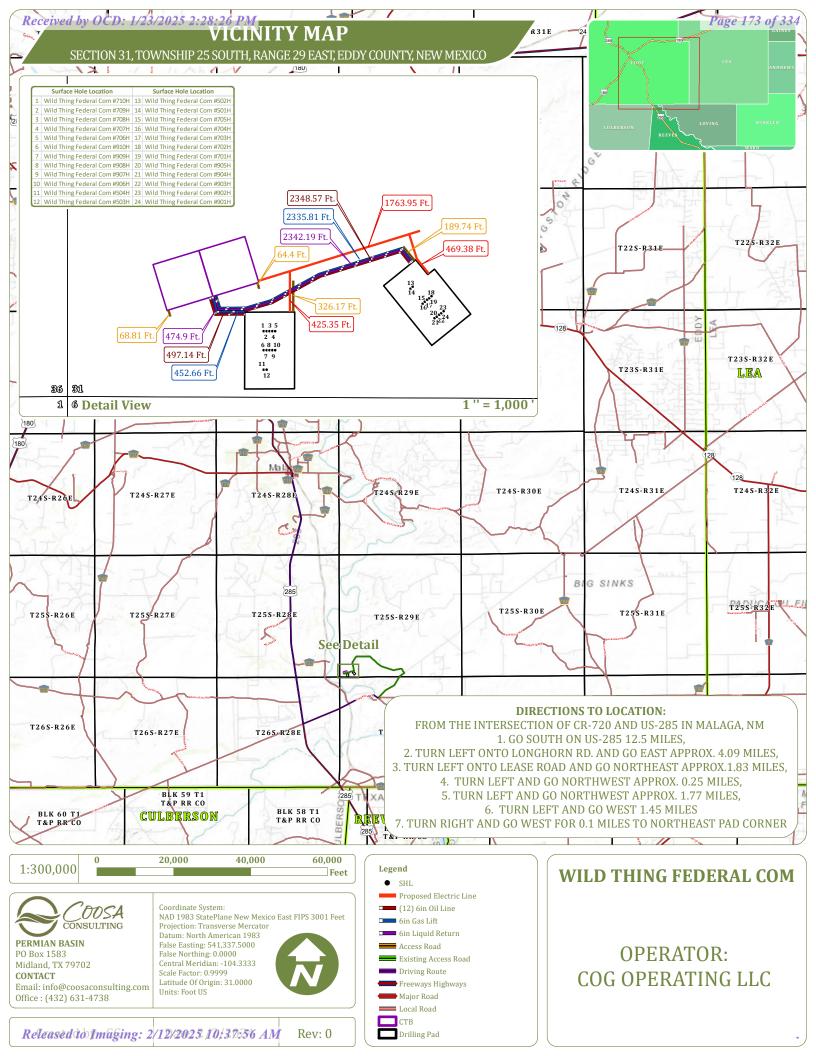
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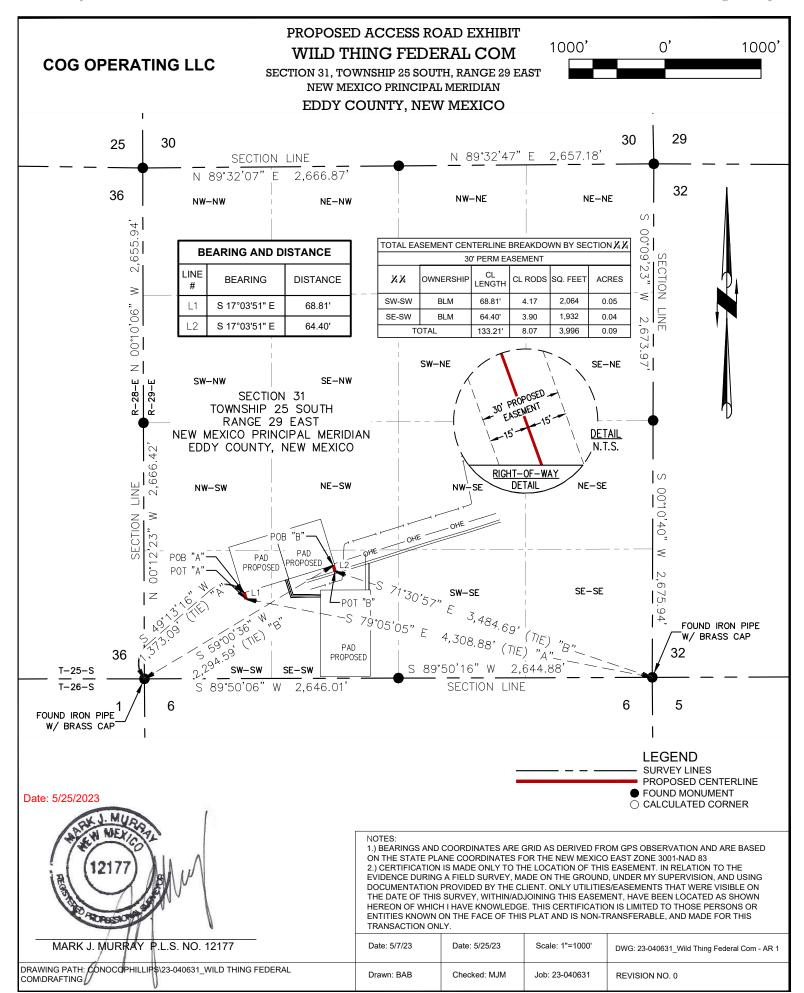
COG_Wild_Thing_Federal_Com_Powerlines_20241202223929.pdf

 $COG_Wild_Thing_Federal_Com_SS_20241202223929.pdf$

COG_Wild_Thing_Existing_Road_20241202224001.pdf







COG OPERATING LLC

PROPOSED ACCESS ROAD EXHIBIT WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

30-FOOT ACCESS ROAD CENTERLINE DESCRIPTION "A"

BEING, A THIRTY-FOOT (30') WIDE ACCESS ROAD EASEMENT FIFTEEN (15') FEET EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 393,484.22', E: 635,668.63' / LAT: 32.081402, LONG: -104.028759, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHWEST CORNER OF SAID SECTION 31 BEARS S 49°13'16" W, A DISTANCE OF 1.373.09 FEET:

THENCE S 17°03'51" E, A DISTANCE OF 68.81 FEET TO THE POINT OF TERMINATION (P.O.T.), HAVING COORDINATES OF N: 393,418.43', E: 635,688.83' / LAT: 32.081221, LONG: -104.028694 OF SAID THIRTY-FOOT (30') ACCESS ROAD EASEMENT, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 79°05'05" E, A DISTANCE OF 4,308.88 FEET.

WHEREAS THE ABOVE DESCRIBED THIRTY-FOOT (30') ACCESS ROAD EASEMENT "A" HAVING A CENTERLINE LENGTH OF 68.81 LINEAR FEET, OR 4.17 RODS IN SECTION 31.

30-FOOT ACCESS ROAD CENTERLINE DESCRIPTION "B"

BEING, A THIRTY-FOOT (30') WIDE ACCESS ROAD EASEMENT FIFTEEN (15') FEET EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

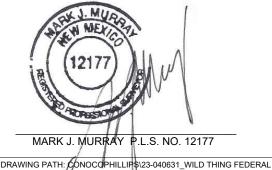
BEGINNING AT A POINT HAVING COORDINATES OF N: 393,768.85', E: 636,595.93' / LAT: 32.082177, LONG: -104.025762, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHWEST CORNER OF SAID SECTION 31 BEARS S 59°00'36" W, A DISTANCE OF 2.294.59 FEET:

THENCE S 17°03'51" E, A DISTANCE OF 64.40 FEET TO THE POINT OF TERMINATION (P.O.T.), HAVING COORDINATES OF N: 393,707.29', E: 636,614.83' / LAT: 32.082008, LONG: -104.025702 OF SAID THIRTY-FOOT (30') ACCESS ROAD EASEMENT, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 71°30'57" E, A DISTANCE OF 3,484.69 FEET.

WHEREAS THE ABOVE DESCRIBED THIRTY-FOOT (30') ACCESS ROAD EASEMENT "B" HAVING A CENTERLINE LENGTH OF 64.40 LINEAR FEET, OR 3.90 RODS IN SECTION 31.

Date: 5/25/2023

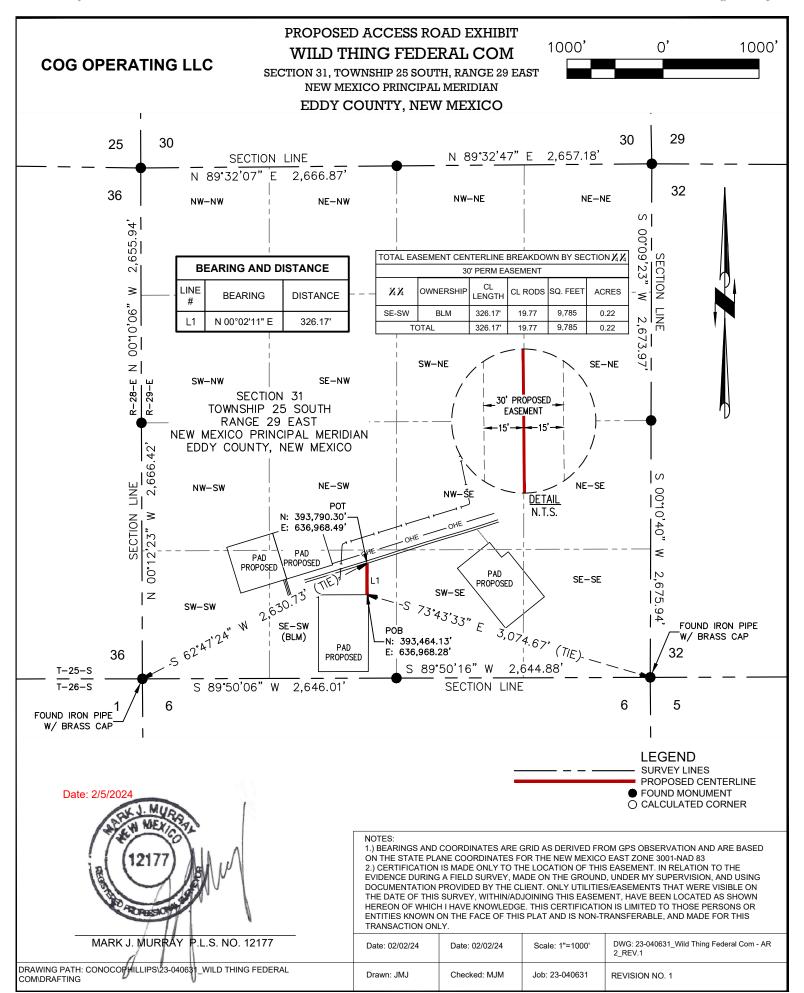
COM\DRAFTING /



NOTES:

1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83
2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

Date: 5/7/23	Date: 5/25/23	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - AR 1
Drawn: BAB	Checked: MJM	Job: 23-040631	REVISION NO. 0



COG OPERATING LLC

PROPOSED ACCESS ROAD EXHIBIT WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

30-FOOT ACCESS ROAD CENTERLINE DESCRIPTION

BEING, A THIRTY-FOOT (30') WIDE ACCESS ROAD EASEMENT FIFTEEN (15') FEET EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 393,464.13', E: 636,968.28' / LAT: 32.081336, LONG: -104.024563, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 73°43'33" E, A DISTANCE OF 3 074 67 FFFT:

THENCE N 00°02'11" E, A DISTANCE OF 326.17 FEET TO THE POINT OF TERMINATION (P.O.T.), HAVING COORDINATES OF N: 393,790.30', E: 636,968.49' / LAT: 32.082233, LONG: -104.024559 OF SAID THIRTY-FOOT (30') ACCESS ROAD EASEMENT, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHWEST CORNER OF SAID SECTION 31 BEARS S 62°47'24" W, A DISTANCE OF 2,630.73 FEET.

WHEREAS THE ABOVE DESCRIBED THIRTY-FOOT (30') ACCESS ROAD EASEMENT HAVING A CENTERLINE LENGTH OF 326.17 LINEAR FEET, OR 19.77 RODS IN SECTION 31.

Date: 2/5/2024

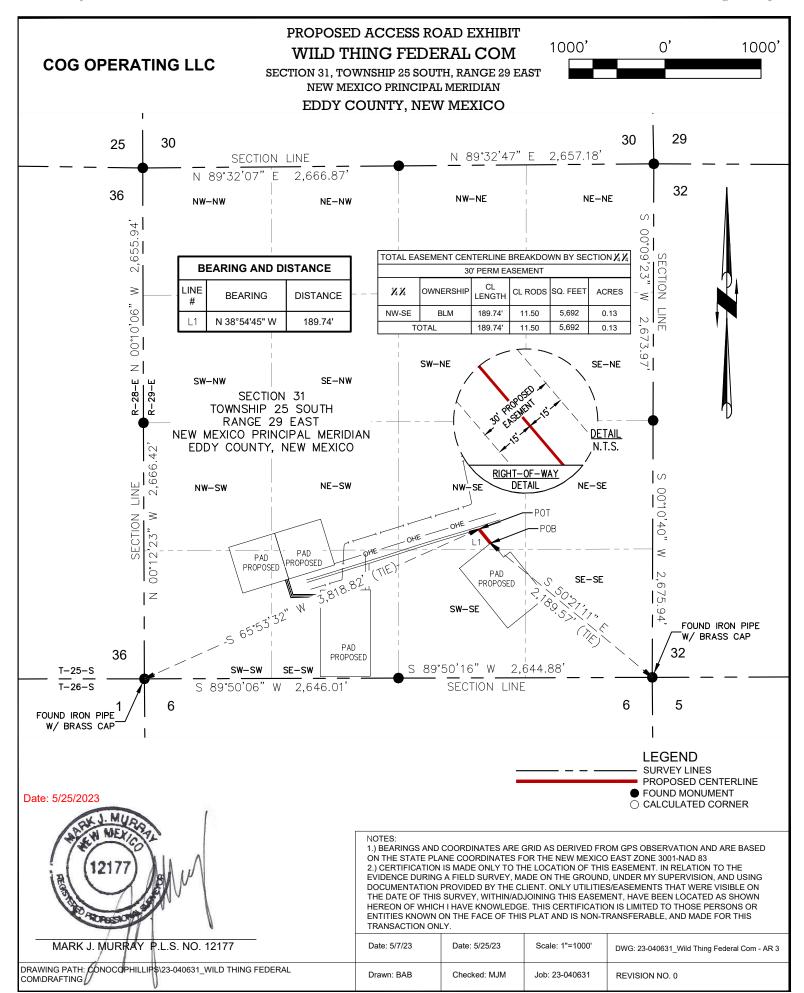
MARK J. MURRAY P.L.S. NO. 12177

DRAWING PATH: CONOCOPHILLIPS\23-040631_WILD THING FEDERAL COMDRAFTING

NOTES:

1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83
2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

Date: 02/02/24	Date: 02/02/24	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - AR 2_REV.1
Drawn: JMJ	Checked: MJM	Job: 23-040631	REVISION NO. 1



COG OPERATING LLC

PROPOSED ACCESS ROAD EXHIBIT WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

30-FOOT ACCESS ROAD CENTERLINE DESCRIPTION

BEING, A THIRTY-FOOT (30') WIDE ACCESS ROAD EASEMENT FIFTEEN (15') FEET EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 393,999.57', E: 638,233.80' / LAT: 32.082798, LONG: -104.020472, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 50°21'11" E, A DISTANCE OF 2.189.57 FEET:

THENCE N 38°54'45" W, A DISTANCE OF 189.74 FEET TO THE POINT OF TERMINATION (P.O.T.), HAVING COORDINATES OF N: 394,147.21', E: 638,114.62' / LAT: 32.083205, LONG: -104.020855 OF SAID THIRTY-FOOT (30') ACCESS ROAD EASEMENT, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHWEST CORNER OF SAID SECTION 31 BEARS S 65°53'32" W, A DISTANCE OF 3,818.82 FEET.

WHEREAS THE ABOVE DESCRIBED THIRTY-FOOT (30') ACCESS ROAD EASEMENT HAVING A CENTERLINE LENGTH OF 189.74 LINEAR FEET, OR 11.50 RODS IN SECTION 31.

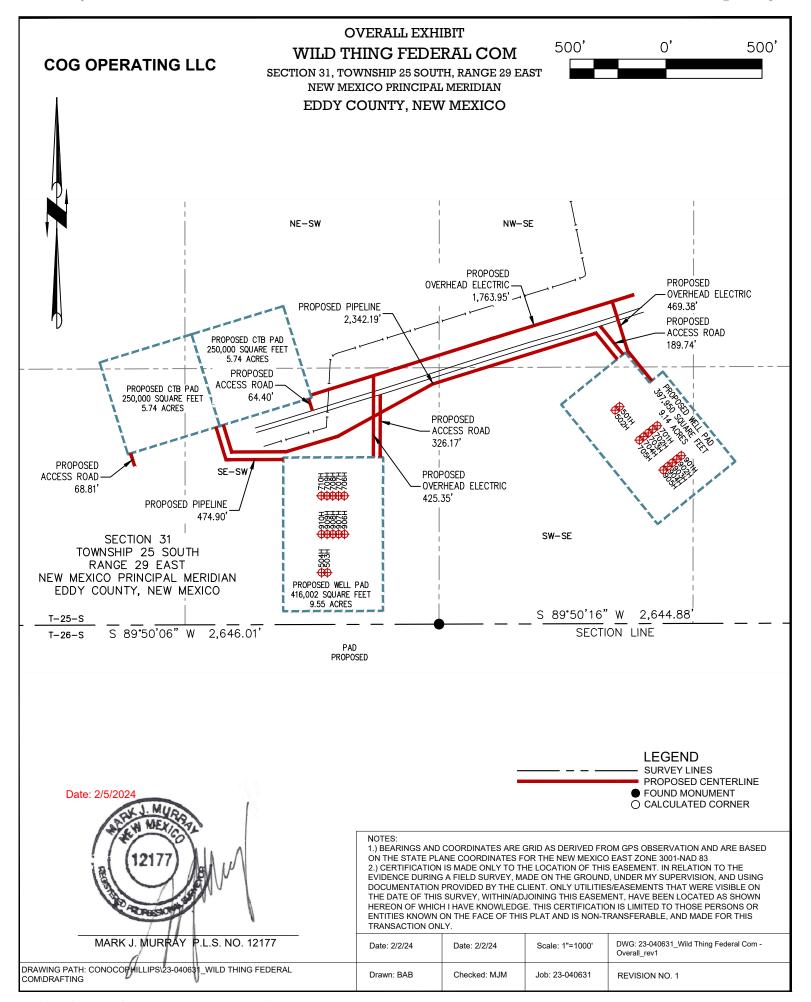
Date: 5/25/2023

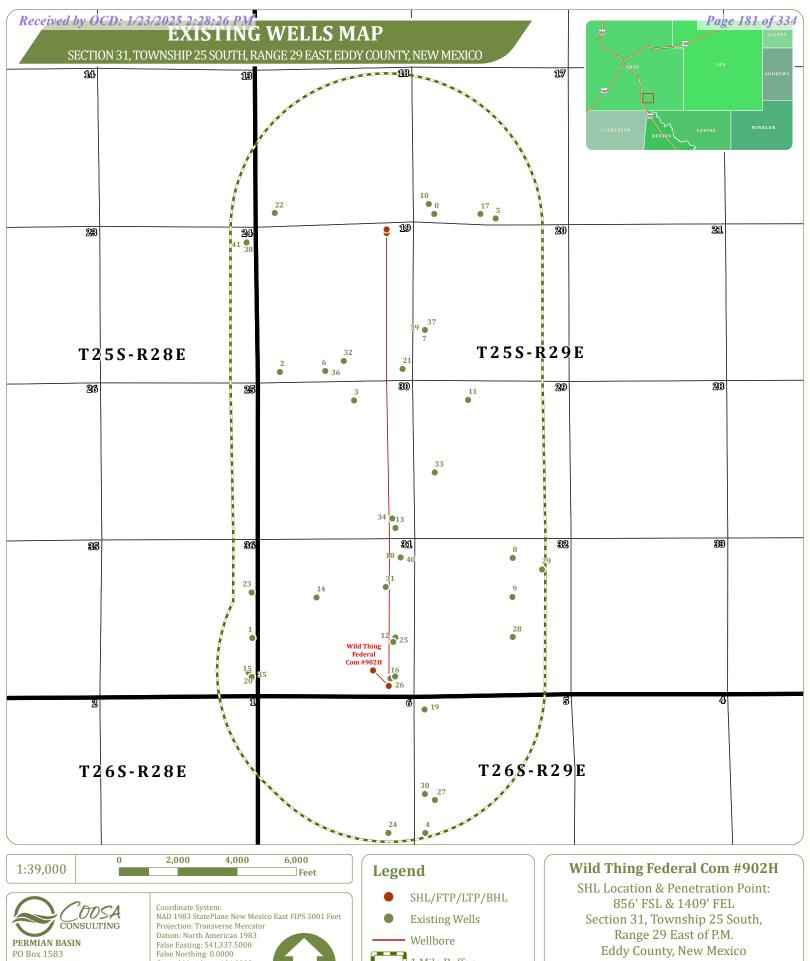
MARK J. MURRAY P.L.S. NO. 12177

1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83 2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT, ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

Date: 5/7/23	Date: 5/25/23	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - AR 3	
Drawn: BAB	Checked: MJM	Job: 23-040631	REVISION NO. 0	

DRAWING PATH: CONOCOPHILLIP\$\\23-040631_WILD THING FEDERAL COM\DRAFTING







Central Meridian: -104.3333 Scale Factor: 0.9999

Latitude Of Origin: 31.0000

Units: Foot US

PO Box 1583

CONTACT

Midland, TX 79702

Email: info@coosaconsulting.com

Rev: 0

Wellbore



1 Mile Buffer

Range 29 East of P.M. Eddy County, New Mexico

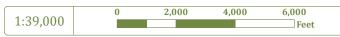
OPERATOR: COG OPERATING LLC

Received by OCD: 1/23/2025 2:28:26 PM

EXISTING WELLS MAP

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, EDDY COUNTY, NEW MEXICO

FID	API	Operator	Lease Name	Well#	Prod. Type	Well Stat.	Drl. Type
0	3001543727	COG OPERATING LLC	SHOWSTOPPER 17 FEDERAL COM	024H	OIL	EXPIRED PERMIT	Н
1	3001542053	EOG RESOURCES INC	TROJANS BQT STATE	002H	OIL	CANCELLED	Н
2	3001537480	COG OPERATING LLC	SHOWSTOPPER 19 FEDERAL	006H	OIL	INACTIVE	Н
3	3001503720	PRE-ONGARD WELL OPERATOR	JESSIE KINCAID	001	OIL	P & A	V
4	3001538980	COG OPERATING LLC	HAMBONE FEE COM	001H	OIL	P & A	Н
5	3001537837	COG OPERATING LLC	SHOWSTOPPER 17 FEDERAL COM	010H	OIL	CANCELLED	V
6	3001537373	COG OPERATING LLC	SHOWSTOPPER 19 FEDERAL COM	005H	OIL	ACTIVE	Н
7	3001536430	COG OPERATING LLC	SHOCKER 20 FEDERAL COM	001H	OIL	ACTIVE	Н
8	3001523882	DINERO OPERATING CO	NORTHERN NATURAL GAS	001	OIL	P & A	V
9	3001536224	EOG Y RESOURCES, INC.	SHOCKER 32 STATE	004G	OIL	CANCELLED	Н
10	3001537712	COG OPERATING LLC	SHOWSTOPPER 17 FEDERAL COM	012H	OIL	CANCELLED	Н
11	3001520987	PRE-ONGARD WELL OPERATOR	FEDERAL	001	OIL	P & A	V
12	3001520156	PRE-ONGARD WELL OPERATOR	SLATER	001	OIL	P & A	V
13	3001543909	XTO ENERGY, INC	THRILLER BWL FEDERAL	001H	OIL	ACTIVE	Н
14	3001525563	PRE-ONGARD WELL OPERATOR	EXXON FEDERAL	001	OIL	P & A	V
15	3001538261	EOG RESOURCES INC	TROJANS BQT STATE	001H	OIL	ACTIVE	Н
16	3001545045	COG OPERATING LLC	PUDGE FEDERAL	021H	GAS	ACTIVE	Н
17	3001537711	COG OPERATING LLC	SHOWSTOPPER 17 FEDERAL COM	011	OIL	CANCELLED	V
18	3001536282	COG PRODUCTION, LLC	COOPER 31 FEDERAL	001H	OIL	ACTIVE	U
19	3001503726	PRE-ONGARD WELL OPERATOR	SCULLY FED	001	OIL	P & A	V
20	3001542255	EOG Y RESOURCES, INC.	TROJANS BQT STATE	003H	OIL	CANCELLED	Н
21	3001537682	COG OPERATING LLC	SHOWSTOPPER 19 FEDERAL	003H	OIL	ACTIVE	Н
22	3001520173	PRE-ONGARD WELL OPERATOR	WHITE	001	OIL	DRILLED	V
23	3001538262	EOG RESOURCES INC	YADDOCK BQY STATE	001H	OIL	ACTIVE	Н
24	3001534836	MARBOB ENERGY CORP	PUDGE FEDERAL	001E	OIL	CANCELLED	V
25	3001539343	COG PRODUCTION, LLC	COOPER 31 FEDERAL	004H	OIL	INACTIVE	Н
26	3001536755	COG PRODUCTION, LLC	COOPER 31 FEDERAL	002H	GAS	P & A	Н
27	3001523909	COG OPERATING LLC	BENNETT FEE	001E	OIL	CANCELLED	V
28	3001503721	PRE-ONGARD WELL OPERATOR	SUPERIOR ST	001	OIL	P & A	V
29	3001539470	OWL SWD OPERATING, LLC	SHOCKER SWD	001	DISPOSAL	ACTIVE	V
30	3001538318	COG OPERATING LLC	HAMBONE FEE COM	002H	OIL	P & A	Н
31	3001537749	COG PRODUCTION, LLC	COOPER 31 FEDERAL	003H	OIL	ACTIVE	Н
32	3001537374	COG OPERATING LLC	SHOWSTOPPER 19 FEDERAL COM	004H	OIL	ACTIVE	Н
33	3001536932	XTO ENERGY, INC	COOPER 29 FEDERAL	001H	OIL	ACTIVE	Н
34	3001520988	PRE-ONGARD WELL OPERATOR	CITIES SERVICE FEDERAL	001	OIL	P & A	V
35	3001538261	EOG RESOURCES INC	TROJANS BQT STATE	001H	GAS	DRILLED	V
36	3001537373	COG OPERATING LLC	SHOWSTOPPER 19 FEDERAL COM	005H	GAS	DRILLED	V
37			SHOCKER 20 FEDERAL COM	001H	GAS	DRILLED	Н
38	3001545733	MEWBOURNE OIL CO	OXBOW 24 23 B2AD FEDERAL COM	001H	OIL	EXPIRED PERMIT	Н
39	3001536430	COG OPERATING LLC	SHOCKER 20 FEDERAL COM	001H	OIL	ACTIVE	Н
40	3001536282	COG PRODUCTION, LLC	COOPER 31 FEDERAL	001H	OIL	ACTIVE	U
41	3001545736	MEWBOURNE OIL CO	OXBOW 24 23 B3AD FEDERAL COM	002H	OIL	EXPIRED PERMIT	Н





PO Box 1583 Midland, TX 79702 CONTACT

Email: info@coosaconsulting.com Office : (432) 631-4738 Coordinate System:
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Projection: Transverse Mercator
Datum: North American 1983
False Easting: 541,337.5000
False Northing: 0.0000
Central Meridian: -104.3333
Scale Factor: 0.9999
Latitude Of Origin: 31.0000
Units: Foot US

Legend

- SHL/FTP/LTP/BHL
- Existing Wells

— Wellbore



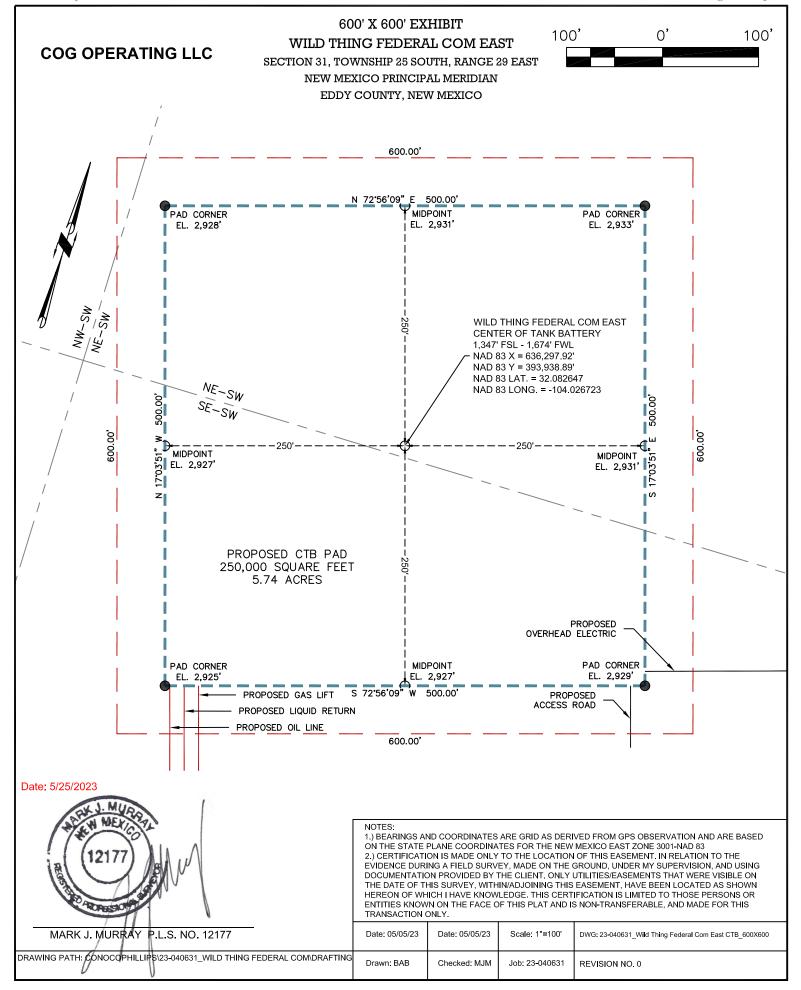
Wild Thing Federal Com #902H

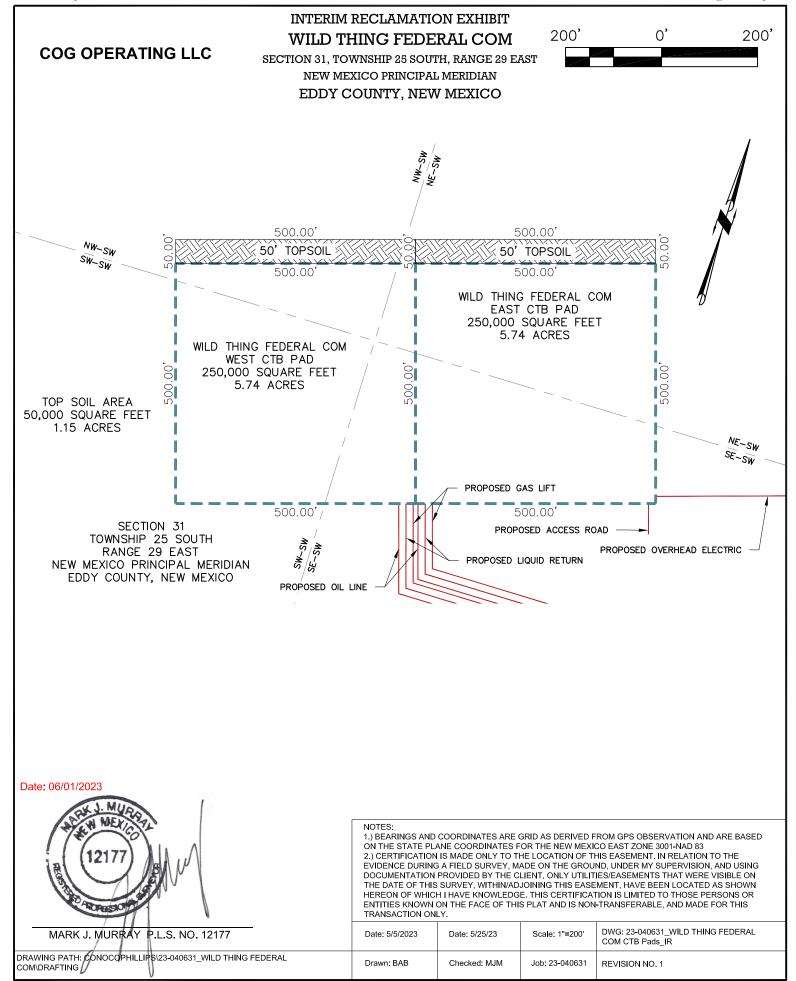
SHL Location & Penetration Point: 856' FSL & 1409' FEL Section 31, Township 25 South, Range 29 East of P.M. Eddy County, New Mexico

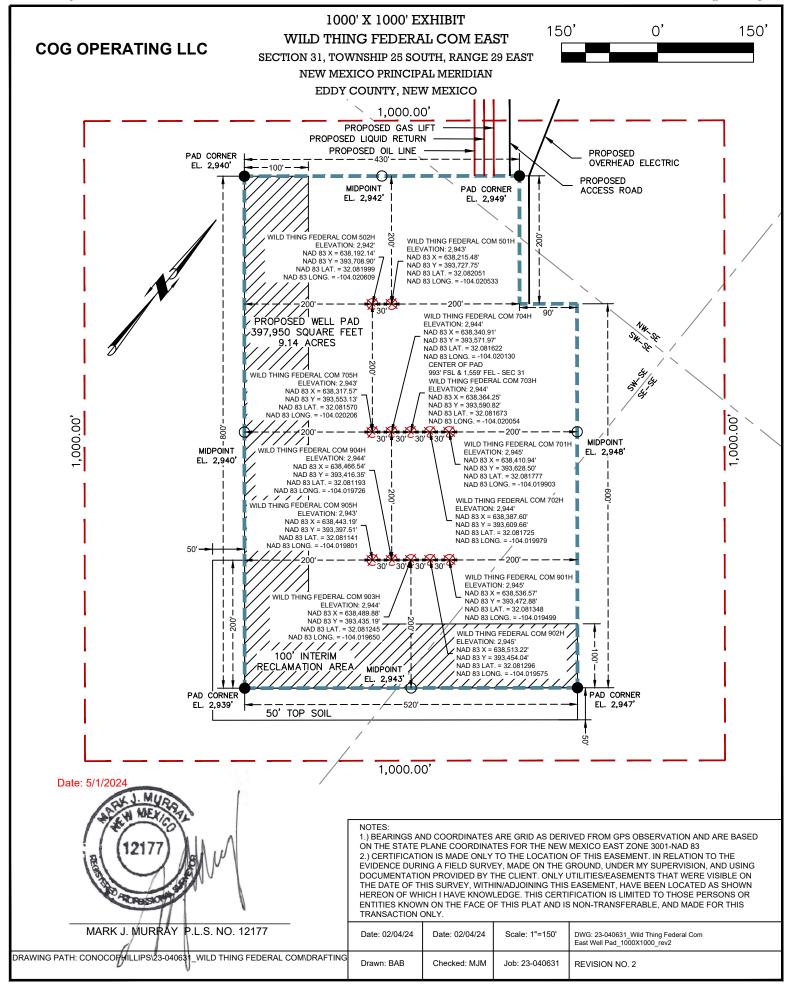
OPERATOR: COG OPERATING LLC

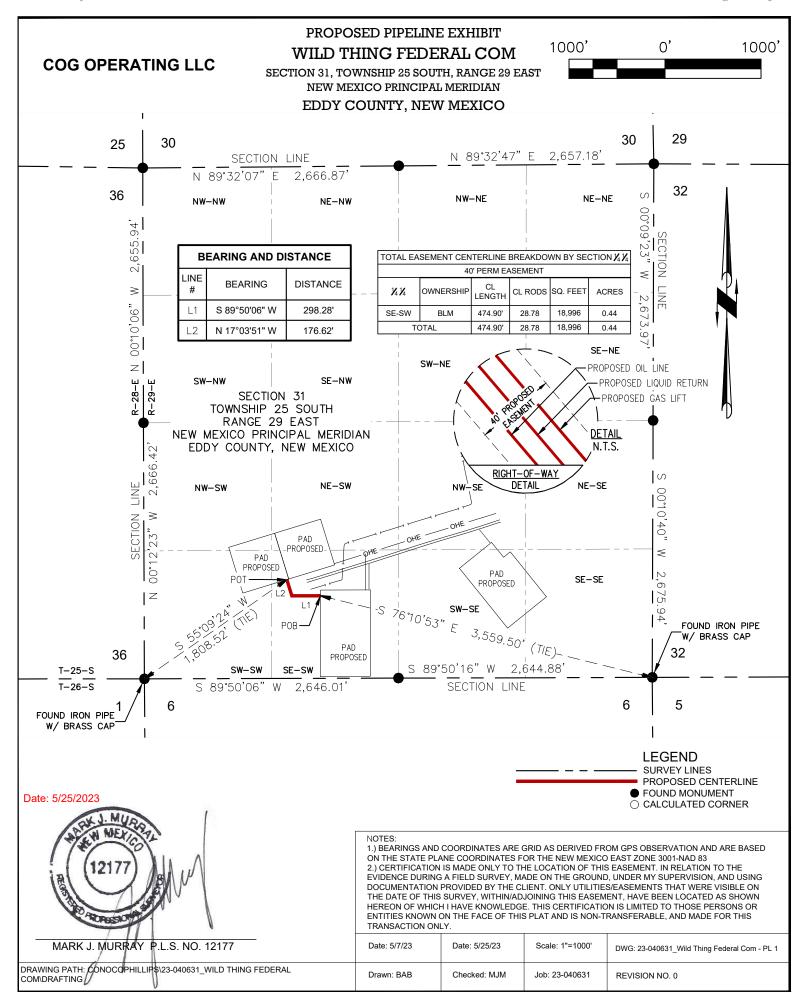
Released to Imaging: 2/12/2025 10437.5563AM

Rev: 0









PROPOSED PIPELINE EXHIBIT

WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

30-FOOT PIPELINE CENTERLINE DESCRIPTION

BEING, A THIRTY-FOOT (30') WIDE PIPELINE EASEMENT FIFTEEN (15') FEET EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 393,452.68', E: 636,463.27' / LAT: 32.081309, LONG: -104.026193, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 76°10'53" E, A DISTANCE OF 3,559.50 FEET:

THENCE S 89°50'06" W, WITH SAID CENTERLINE, A DISTANCE OF 298.28 FEET TO A POINT;

THENCE N 17°03'51" W, A DISTANCE OF 176.62 FEET TO THE POINT OF TERMINATION (P.O.T.), HAVING COORDINATES OF N: 393,620.67', E: 636,113.16' / LAT: 32.081773, LONG: -104.027322 OF SAID THIRTY-FOOT (30') PIPELINE EASEMENT, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHWEST CORNER OF SAID SECTION 31 BEARS S 55°09'24" W, A DISTANCE OF 1,808.52 FEET.

WHEREAS THE ABOVE DESCRIBED THIRTY-FOOT (30') PIPELINE EASEMENT HAVING A CENTERLINE LENGTH OF 474.90 LINEAR FEET, OR 28.78 RODS IN SECTION 31.

Date: 5/25/2023

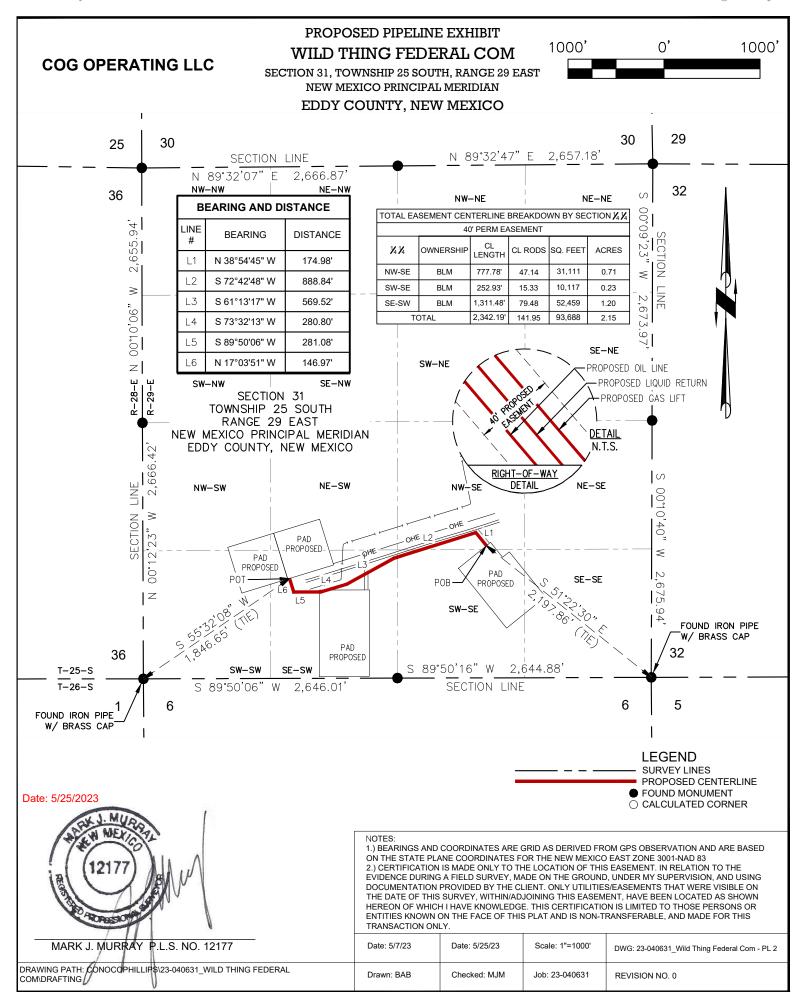
MARK J. MURRAY P.L.S. NO. 12177

1) REAF

1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83
2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

Date: 5/7/23	Date: 5/25/23	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - PL 1		
Drawn: BAB	Checked: MJM	Job: 23-040631	REVISION NO. 0		

DRAWING PATH: CONOCOPHILLIP\$\\23-040631_WILD THING FEDERAL COM\DRAFTING



PROPOSED PIPELINE EXHIBIT

WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

30-FOOT PIPELINE CENTERLINE DESCRIPTION

BEING, A THIRTY-FOOT (30') WIDE PIPELINE EASEMENT FIFTEEN (15') FEET EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 393,974.45', E: 638,202.68' / LAT: 32.082729, LONG: -104.020573, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 51°22'30" E, A DISTANCE OF 2.197.86 FEET:

THENCE N 38°54'45" W, WITH SAID CENTERLINE, A DISTANCE OF 174.98 FEET TO A POINT;

THENCE S 72°42'48" W, WITH SAID CENTERLINE, A DISTANCE OF 888.84 FEET TO A POINT;

THENCE S 61°13'17" W, WITH SAID CENTERLINE, A DISTANCE OF 569.52 FEET TO A POINT;

THENCE S 73°32'13" W, WITH SAID CENTERLINE, A DISTANCE OF 280.80 FEET TO A POINT; THENCE S 89°50'06" W, WITH SAID CENTERLINE, A DISTANCE OF 281.08 FEET TO A POINT;

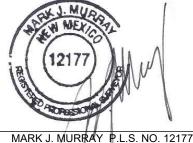
THENCE N 17°03'51" W, A DISTANCE OF 146.97 FEET TO THE POINT OF TERMINATION (P.O.T.), HAVING COORDINATES OF N: 393,632.40', E: 636,151.40' / LAT: 32.081805, LONG: -104.027199 OF SAID THIRTY-FOOT (30') PIPELINE EASEMENT, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHWEST

CORNER OF SAID SECTION 31 BEARS S 55°32'08" W, À DISTANCE OF 1,846.65 FEET.

WHEREAS THE ABOVE DESCRIBED THIRTY-FOOT (30') PIPELINE EASEMENT HAVING A CENTERLINE LENGTH OF 2,342.19 LINEAR FEET, OR 141.95 RODS IN

Date: 5/25/2023

SECTION 31.

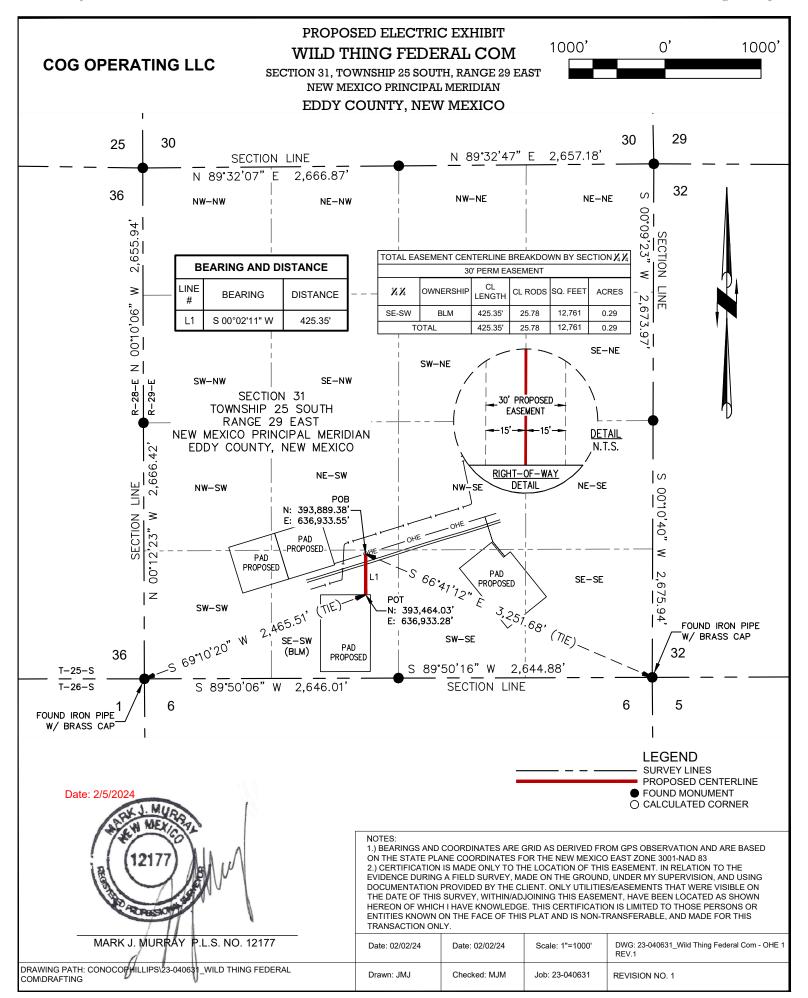


1) REAF

1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83
2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

Date: 5/7/23	Date: 5/25/23	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - PL 2
Drawn: BAB	Checked: MJM	Job: 23-040631	REVISION NO. 0

DRAWING PATH: CONOCOPHILLIP\$\23-040631_WILD THING FED COM\DRAFTING



PROPOSED ELECTRIC EXHIBIT

WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

30-FOOT ELECTRIC LINE CENTERLINE DESCRIPTION

BEING, A THIRTY-FOOT (30') WIDE ELECTRIC LINE EASEMENT FIFTEEN (15') FEET EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 393,889.38', E: 636,933.55' / LAT: 32.082506, LONG: -104.024671, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 66°41'12" E, A DISTANCE OF 3,251.68 FEET;

THENCE S 00°02'11" W, A DISTANCE OF 425.35 FEET TO THE POINT OF TERMINATION (P.O.T.), HAVING COORDINATES OF N: 393,464.03', E: 636,933.28' / LAT: 32.081336, LONG: -104.024676 OF SAID THIRTY-FOOT (30') ELECTRIC LINE EASEMENT, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHWEST CORNER OF SAID SECTION 31 BEARS S 69°10'20" W, A DISTANCE OF 2,465.51 FEET.

WHEREAS THE ABOVE DESCRIBED THIRTY-FOOT (30') ELECTRIC LINE EASEMENT HAVING A CENTERLINE LENGTH OF 425.35 LINEAR FEET, OR 25.78 RODS IN SECTION 31.

Date: 2/5/2024

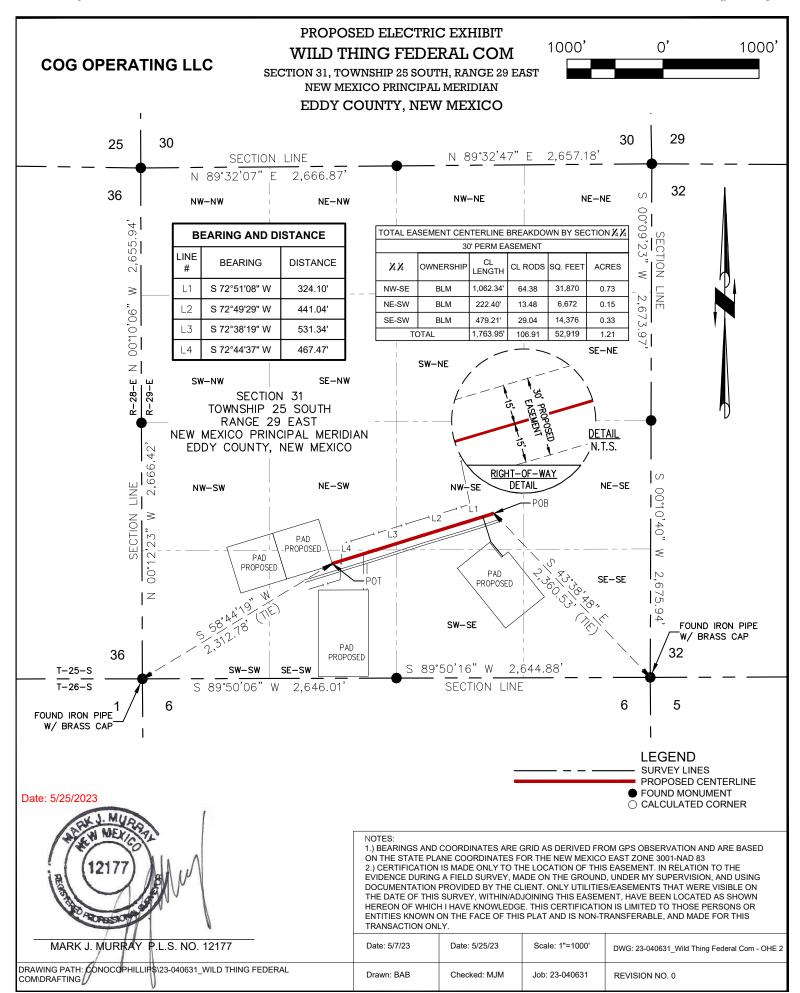
MARK J. MURRAY P.L.S. NO. 12177

DRAWING PATH: CONOCOPHILLIPS\23-040631_WILD THING FEDERAL COMDRAFTING

NOTES:

1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83
2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

Date: 02/02/24	Date: 02/02/24	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - OHE 1 REV.1
Drawn: JMJ	Checked: MJM	Job: 23-040631	REVISION NO. 1



PROPOSED ELECTRIC EXHIBIT

WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

30-FOOT ELECTRIC LINE CENTERLINE DESCRIPTION

BEING, A THIRTY-FOOT (30') WIDE ELECTRIC LINE EASEMENT FIFTEEN (15') FEET EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 394,310.61', E: 638,290.49' / LAT: 32.083653, LONG: -104.020286, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 43°38'48" E, A DISTANCE OF 2,360.53 FEET;

THENCE S 72°51'08" W, WITH SAID CENTERLINE, A DISTANCE OF 324.10 FEET TO A POINT;

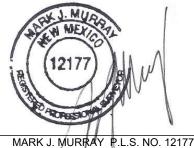
THENCE S 72°49'29" W, WITH SAID CENTERLINE, A DISTANCE OF 441.04 FEET TO A POINT;

THENCE S 72°38'19" W, WITH SAID CENTERLINE, A DISTANCE OF 531.34 FEET TO A POINT;

THENCE S 72°44'37" W, A DISTANCE OF 467.47 FEET TO THE POINT OF TERMINATION (P.O.T.), HAVING COORDINATES OF N: 393,787.60', E: 636,605.87' / LAT: 32.082228, LONG: -104.025730 OF SAID THIRTY-FOOT (30') ELECTRIC LINE EASEMENT, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHWEST CORNER OF SAID SECTION 31 BEARS S 58°44'19" W, A DISTANCE OF 2,312.78 FEET.

WHEREAS THE ABOVE DESCRIBED THIRTY-FOOT (30') ELECTRIC LINE EASEMENT HAVING A CENTERLINE LENGTH OF 1763.95 LINEAR FEET, OR 106.91 RODS IN SECTION 31.

Date: 5/25/2023

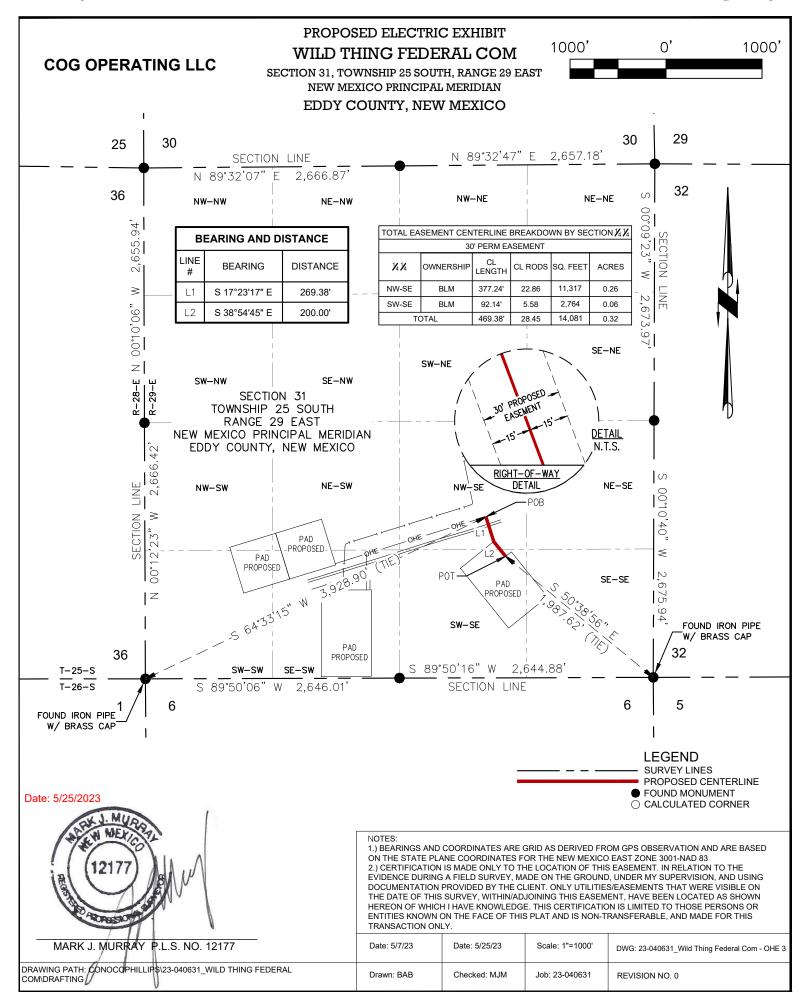


1) REAF

1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83
2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

Date: 5/7/23	Date: 5/25/23	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - OHE 2
Drawn: BAB	Checked: MJM	Job: 23-040631	REVISION NO. 0

DRAWING PATH: CONOCOPHILLIPS 23-040631_WILD THING FEDERAL COM/DRAFTING



PROPOSED ELECTRIC EXHIBIT

WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

30-FOOT ELECTRIC LINE CENTERLINE DESCRIPTION

BEING, A THIRTY-FOOT (30') WIDE ELECTRIC LINE EASEMENT FIFTEEN (15') FEET EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

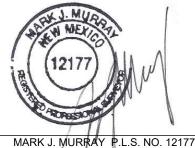
BEGINNING AT A POINT HAVING COORDINATES OF N: 394,275.49', E: 638,176.64' / LAT: 32.083557, LONG: -104.020654, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHWEST CORNER OF SAID SECTION 31 BEARS S 64°33'15" W, A DISTANCE OF 3,928.90 FEET;

THENCE S 17°23'17" E, WITH SAID CENTERLINE, A DISTANCE OF 269.38 FEET TO A POINT;

THENCE S 38°54'45" E, A DISTANCE OF 200.00 FEET TO THE POINT OF TERMINATION (P.O.T.), HAVING COORDINATES OF N: 393,862.80', E: 638,382.77' / LAT: 32.082421, LONG: -104.019992 OF SAID THIRTY-FOOT (30') ELECTRIC LINE EASEMENT, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHWEST CORNER OF SAID SECTION 31 BEARS S 50°38'56" E, A DISTANCE OF 1,987.62 FEET.

WHEREAS THE ABOVE DESCRIBED THIRTY-FOOT (30') ELECTRIC LINE EASEMENT HAVING A CENTERLINE LENGTH OF 469.38 LINEAR FEET, OR 28.45 RODS IN SECTION 31.

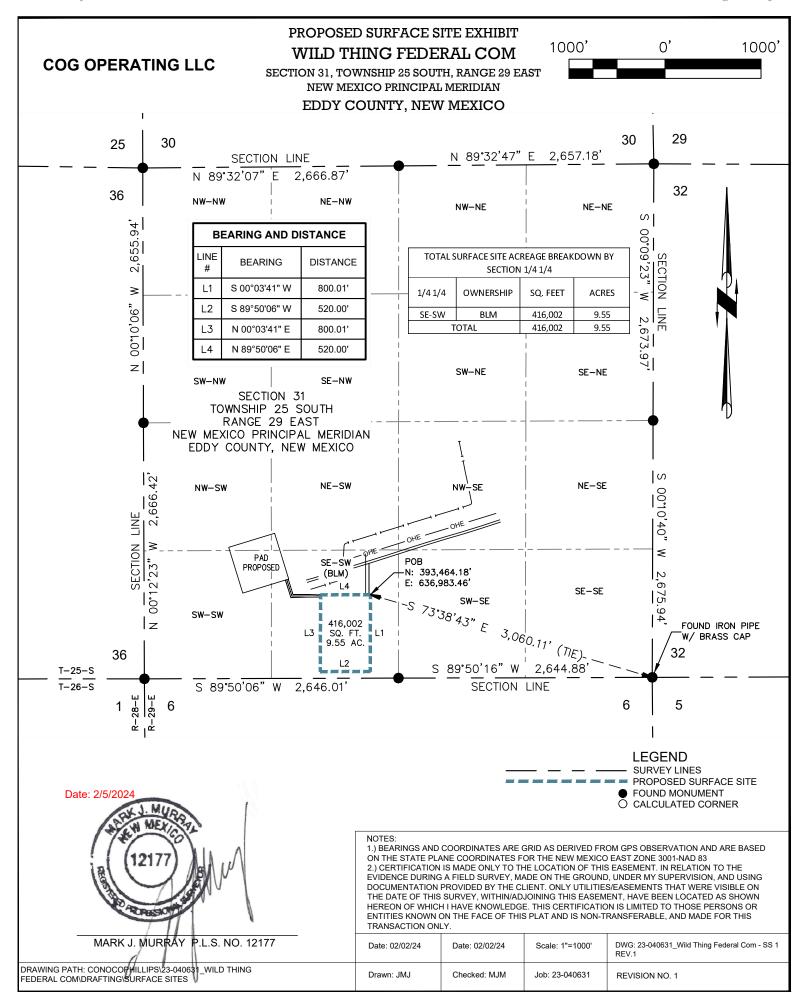
Date: 5/25/2023



1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83 2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT, ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

Date: 5/7/23	Date: 5/25/23	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - OHE 3
Drawn: BAB	Checked: MJM	Job: 23-040631	REVISION NO. 0

DRAWING PATH: CONOCOPHILLIP\$\\23-040631_WILD THING FEDERAL COM\DRAFTING



PROPOSED SURFACE SITE EXHIBIT WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

METES AND BOUNDS DESCRIPTION

BEING, A SURFACE SITE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 393,464.18', E: 636,983.46' / LAT: 32.081336, LONG: -104.024514, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 73°38'43" E, A DISTANCE OF 3.060.11 FEET:

THENCE S 00°03'41" W, A DISTANCE OF 800.01 FEET TO A POINT; THENCE S 89°50'06" W, A DISTANCE OF 520.00 FEET TO A POINT; THENCE N 00°03'41" E, A DISTANCE OF 800.01 FEET TO A POINT;

THENCE N 89°50'06" E, A DISTANCE OF 520.00 FEET, RETURNING TO THE POINT OF BEGINNING.

SAID SURFACE SITE CONTAINING 416,002 SQUARE FEET OR 9.55 ACRES IN SECTION 31.



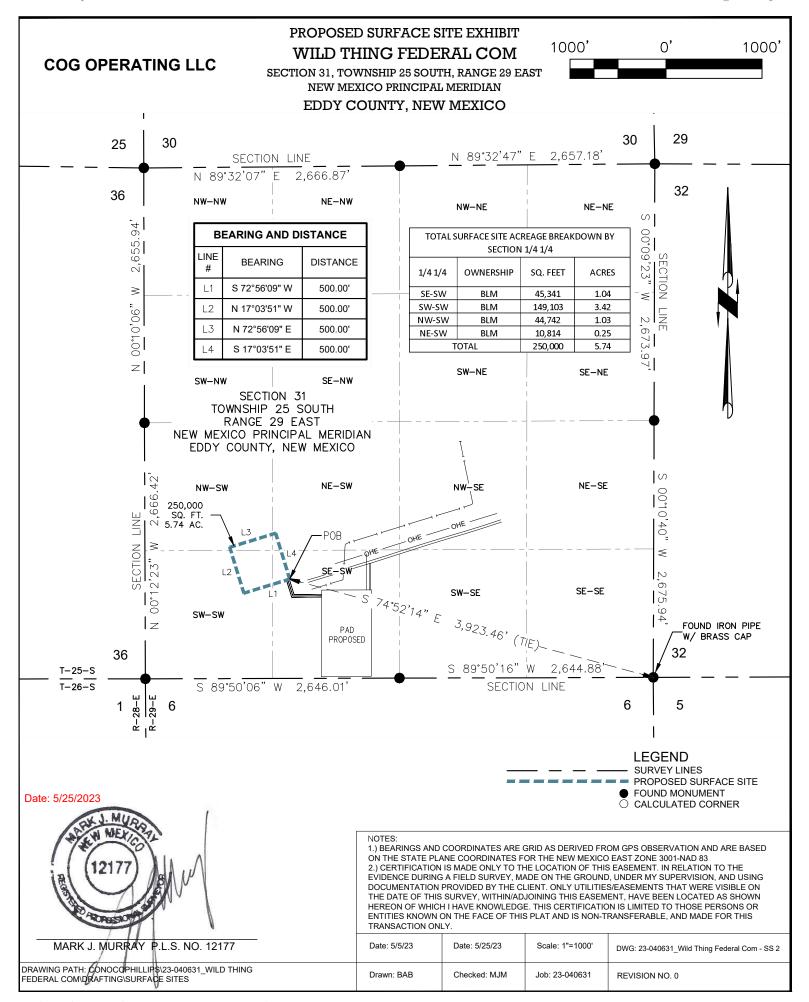
MARK J. MURRAY P.L.S. NO. 12177

DRAWING PATH: CONOCOPHILLIPS\23-040631_WILD THING FEDERAL COM\DRAFTING\SURFACE SITES

NOTES:

1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83
2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

Date: 02/02/24	Date: 02/02/24	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - SS 1 REV.1
Drawn: JMJ	Checked: MJM	Job: 23-040631	REVISION NO. 1



PROPOSED SURFACE SITE EXHIBIT WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

METES AND BOUNDS DESCRIPTION

BEING, A SURFACE SITE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 393,626.53', E: 636,132.28' / LAT: 32.081789, LONG: -104.027261, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 74°52'14" E, A DISTANCE OF 3,923.46 FEET;

THENCE S 72°56'09" W, A DISTANCE OF 500.00 FEET TO A POINT;

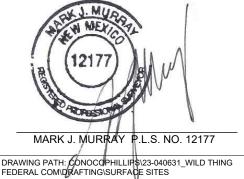
THENCE N 17°03'51" W, A DISTANCE OF 500.00 FEET TO A POINT;

THENCE N 72°56'09" E, A DISTANCE OF 500.00 FEET TO A POINT;

THENCE S 17°03'51" E, A DISTANCE OF 500.00 FEET, RETURNING TO THE POINT OF BEGINNING.

SAID SURFACE SITE CONTAINING 250,000 SQUARE FEET OR 5,74 ACRES IN SECTION 31.

Date: 5/25/2023



1) REAF

1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83
2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

Date: 5/5/23	Date: 5/25/23	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - SS 2
Drawn: BAB	Checked: MJM	Job: 23-040631	REVISION NO. 0

PROPOSED SURFACE SITE EXHIBIT 0 1000' 1000 WILD THING FEDERAL COM **COG OPERATING LLC** SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO 29 30 30 25 2,657.18 Ε SECTION LINE N 89°32'07" 2,666.87 E NW-NW NE-NW 32 36 NW-NF NF-NF **BEARING AND DISTANCE** S 94, 00.09 IINF 655. **BEARING** DISTANCE TOTAL SURFACE SITE ACREAGE BREAKDOWN BY SECTION **SECTION 1/4 1/4** L1 S 51°05'15" W 520.00' \vec{C} **OWNERSHIP** SQ. FEET **ACRES** L2 N 38°54'45" W 400.12 1/4 1/4 ≥ ≤ 00.10,00, L3 SE-SE BLM 49,177 1.13 LINE N 38°50'28" W 399.88' SW-SE BLM 7.88 343,040 \sim L4 N 51°05'15" E 429.75' ,673. NW-SE BLM 5,733 0.13 397,950 L5 TOTAL 9.14 S 38°54'45" F 200.00' .97 zL6 N 51°05'15" E 89.75 SW-NE SE-NE L7 S 38°54'45" E 600.00' SW-NW SE-NW SECTION 31 TOWNSHIP 25 SOUTH RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN NF-SF EDDY COUNTY, NEW MEXICO NW ·SE 666. NE-SW NW-SW LINE 40" PAD SECTION OHE 8 PROPOSED L6 POB 397,950 675 .94 |z|FOUND IRON PIPE W/ BRASS CAP SW-SF SW-SW SE-SW 32 36 S 89°50'16" 2,644.88 W T-25-S <u>—</u> T–26–S S 89°50'06" W 2.646.01 SECTION LINE _R-29-E R-28-E 6 6 5 1 LEGEND SURVEY LINES PROPOSED SURFACE SITE FOUND MONUMENT Date: 5/25/2023 CALCULATED CORNER 1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83 2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY P.L.S. NO. 12177 Date: 5/7/23 Scale: 1"=1000" MARK J. MURRAY Date: 5/25/23 DWG: 23-040631_Wild Thing Federal Com - SS 3 DRAWING PATH: CONOCOPHILLIPS\23-040631_WILD THING FEDERAL COM\DRAFTING\SURFACE SITES Drawn: BAB Checked: MJM Job: 23-040631 REVISION NO. 0

PROPOSED SURFACE SITE EXHIBIT WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

METES AND BOUNDS DESCRIPTION

BEING, A SURFACE SITE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 393,442.89', E: 638,817.82' / LAT: 32.081263, LONG: -104.018591, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 52°40'10" E, A DISTANCE OF 1.385.82 FEET:

THENCE S 51°05'15" W, A DISTANCE OF 520.00 FEET TO A POINT;

THENCE N 38°54'45" W, A DISTANCE OF 400.12 FEET TO A POINT;

THENCE N 38°50'28" W, A DISTANCE OF 399.88 FEET TO A POINT;

THENCE N 51°05'15" E, A DISTANCE OF 429.75 FEET TO A POINT;

THENCE S 38°54'45" E, A DISTANCE OF 200.00 FEET TO A POINT;

THENCE N 51°05'15" E, A DISTANCE OF 89.75 FEET TO A POINT;

THENCE S 38°54'45" E, A DISTANCE OF 600.00 FEET, RETURNING TO THE POINT OF BEGINNING.

SAID SURFACE SITE CONTAINING 397,950 SQUARE FEET OR 9.14 ACRES IN SECTION 31.

Date: 5/25/2023

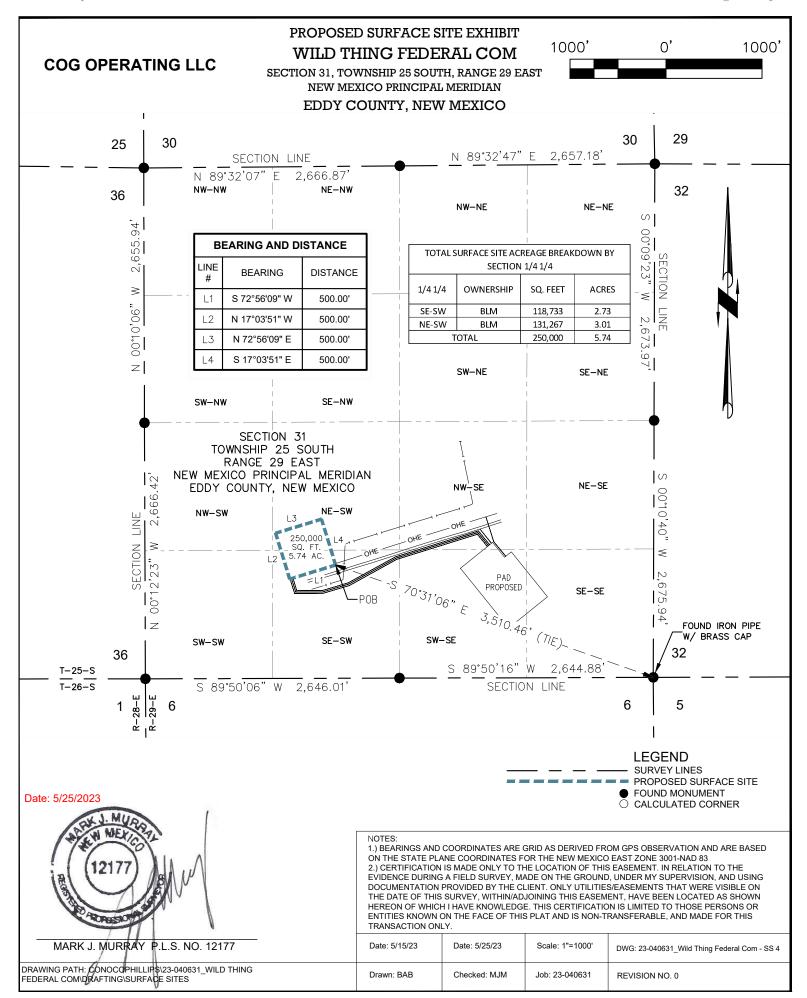


NOTES:

1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83
2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

Date: 5/07/23	Date: 5/25/23	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - SS 3
Drawn: BAB	Checked: MJM	Job: 23-040631	REVISION NO. 0

DRAWING PATH: CONOCOPHILLIPS\23-040631_WILD THING FEDERAL COM\DRAFTING\SURFACE SITES



PROPOSED SURFACE SITE EXHIBIT WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

METES AND BOUNDS DESCRIPTION

BEING, A SURFACE SITE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 393,773.26', E: 636,610.27' / LAT: 32.082189, LONG: -104.025716, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 70°31'06" E, A DISTANCE OF 3,510.46 FEET;

THENCE S 72°56'09" W, A DISTANCE OF 500.00 FEET TO A POINT;

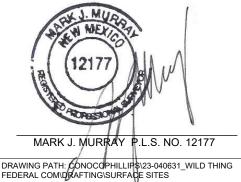
THENCE N 17°03'51" W, A DISTANCE OF 500.00 FEET TO A POINT;

THENCE N 72°56'09" E, A DISTANCE OF 500.00 FEET TO A POINT;

THENCE S 17°03'51" E, A DISTANCE OF 500.00 FEET, RETURNING TO THE POINT OF BEGINNING.

SAID SURFACE SITE CONTAINING 250,000 SQUARE FEET OR 5,74 ACRES IN SECTION 31.

Date: 5/25/2023



NOTES:

1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83
2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

Date: 5/15/23	Date: 5/25/23	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - SS 4
Drawn: BAB	Checked: MJM	Job: 23-040631	REVISION NO. 0

Rec	ceived ₈ by O	CD: 1/23/2	025 2:28;26 P	<u>M</u> 11	12	7	8	9	10	11 Pa	ge 204 of 334
18	17	16	15	14	T24S	ga Brine I Sta R29E Sec. 2 NE/4!8	17 T24		15	14	13 18
19	20	-21	724S R28E	23	24	19	20 R29	9E 21	22	23	24 19 T24S
30	29	28	27	26	25	30	29	28	27	26	R30E 25 30
31	32	33	34	35	36	31	32	33	34	35	<i>36 3</i> 1
6	5	4	3	2	1	6	5	4	3	2	1 6
7	8	9	10	11	12 EDD	7 Y	8	9	10	11	12 T 25 S
18	17	16	15 T25S	14	13	18	17	16 T2		14	R30E 13 18
19	20	21	R28E 22	Wild Thing 503H, 504H 707H, 708H 710H, 906H	I, 706H, I, 709H, I, 907H,	19	Wild Thing Fe 501H, 502H, 702H, 703H, 7 705H, 901H, 9	701H, 704H,2 1 902H,	9 E 22	23	24 19
30	29	28	27	908H, 909H T25S R29E SE4 SW4		CONTRACT	903H, 904H, 8 125S R29E S SW4 SE4	ec. 31 28	27	26	25 30
31	32	33	34	35	36	31	32	33	34	35	36 31
6	5	4	3	2	1	6	5	4	3	2	1 6 T26S
7	8		T26S ¹⁰ R28E	11	12	7	8	and the same	6S 9E ¹⁰	11	R30E 12 7
18	17	16	15	14	13	18	<i>17</i>	16	15	14	M axar 18

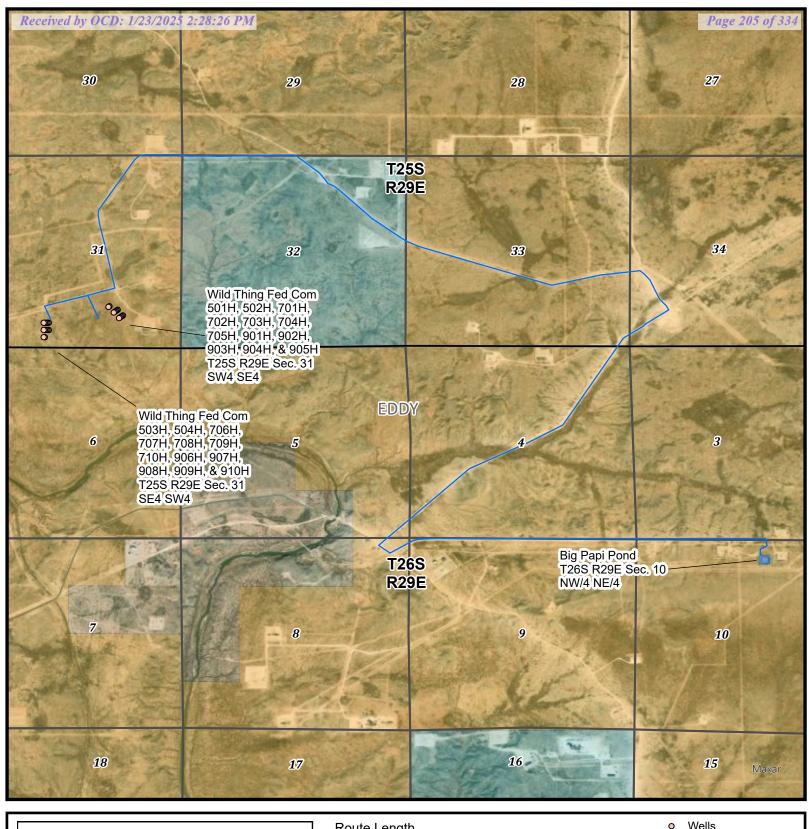


Route Length Miles: 27.71 Feet: 146,325.31' Rods: 8,868.20 Start Point: 32.081

0 0.5 1

Start Point: 32.081056, -104.025030 End Point: 32.209735, -104.004138 Wells
Brine
Surface Ownership
BLM
Private
State





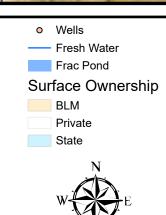


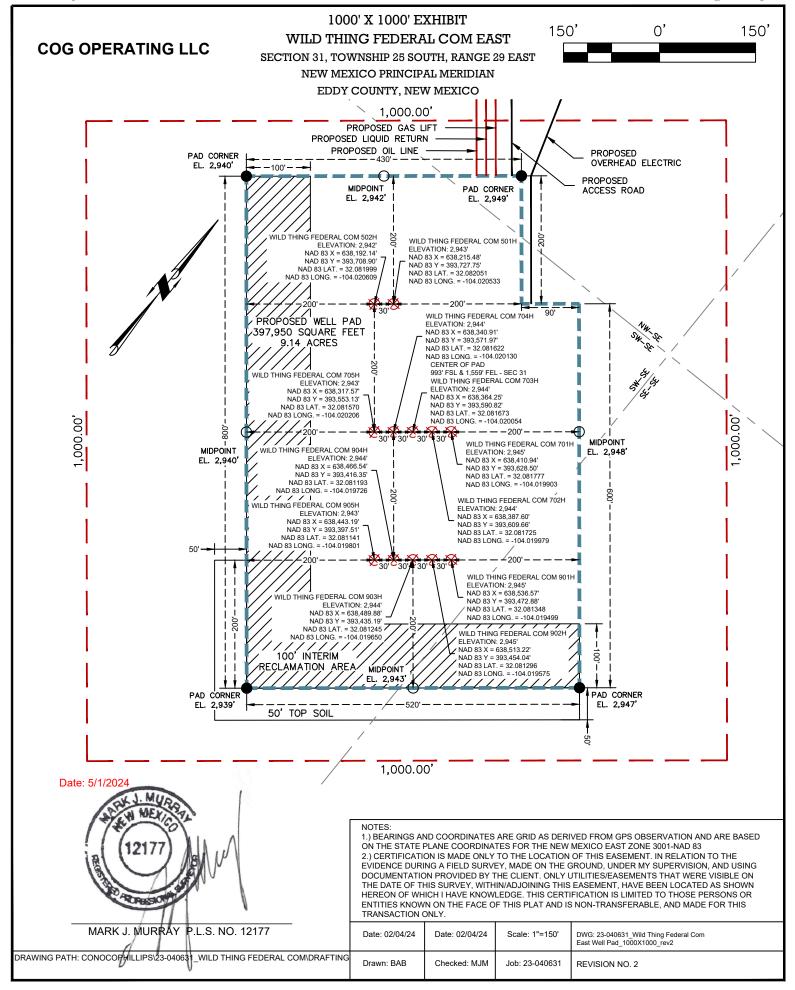
Route Length
Miles: 7.72
Feet: 40,735.45'
Rods: 2,468.81

Start Point: 32.081056, -104.025030
End Point: 32.063048, -103.970845

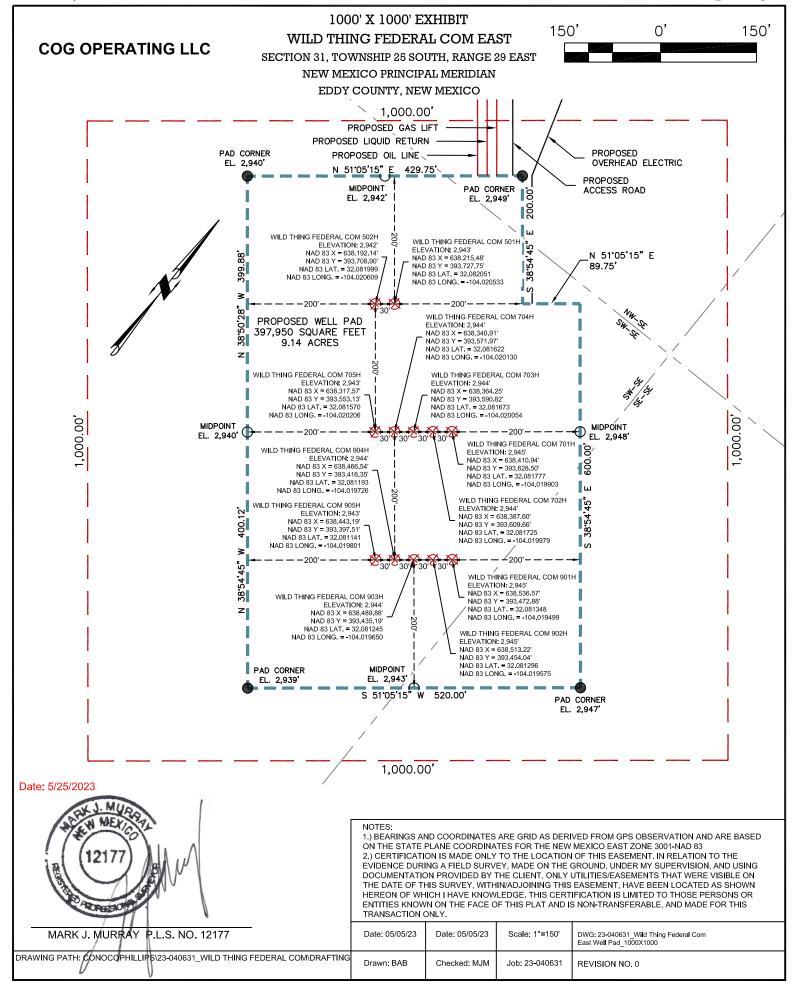
0 0.25 0.5 1

Miles





INTERIM RECLAMATION EXHIBIT 0 200' 200 WILD THING FEDERAL COM EAST **COG OPERATING LLC** SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO PROPOSED GAS LIFT PROPOSED LIQUID RETURN PROPOSED OIL LINE PROPOSED ACCESS ROAD 100.00 PROPOSED OVERHEAD ELECTRIC UNCLAIMED AREA 275,956 SQUARE FEET **6.34 ACRES** V ΑВ $\oplus \oplus$ SW.SE WILD THING FEDERAL COM INTERIM RECLAMATION EAST WELL PAD SEED IN PLACE 397,950 SQUARE FEET **9.14 ACRES** TOP SOIL AREA CDEFG 38,485 SQUARE FEET $\Phi\Phi\Phi\Phi\Phi$ 0.88 ACRES INTERIM RECLAMATION AREA 600. 121,994 SQUARE FEET 2.80 ACRES HIJKL 50.0 $\Phi\Phi\Phi\Phi\Phi$ SECTION 31 419.94 TOWNSHIP 25 SOUTH RANGE 29 EAST 100' INTERIM 49 NEW MEXICO PRINCIPAL MERIDIAN RECLAMATION EDDY COUNTY, NEW MEXICO TOPSOIL 570.03¹ WILD THING FEDERAL COM 502H 1,111' FSL - 1,731' FEL В WILD THING FEDERAL COM 501H 1,130' FSL - 1,708' FEL WILD THING FEDERAL COM 705H 955' FSL - 1,605' FEL WILD THING FEDERAL COM 704H 974' FSL - 1,582' FEL WILD THING FEDERAL COM 703H 993' FSL - 1,559' FEL WILD THING FEDERAL COM 702H 1,011' FSL - 1,535' FEL WILD THING FEDERAL COM 701H 1.030' FSL - 1.512' FEL WILD THING FEDERAL COM 905H 799' FSL - 1,479' FEL WILD THING FEDERAL COM 904H 818' FSL - 1,456' FEL WILD THING FEDERAL COM 903H 837' FSL - 1,432' FEL WILD THING FEDERAL COM 902H 856' FSL - 1,409' FEL Date: 06/01/2023 WILD THING FEDERAL COM 901H 874' FSL - 1,386' FEL NOTES: 1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83 2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY. DWG: 23-040631_Wild Thing Federal Com East Well Pad_IR Date: 5/5/2023 Date: 5/25/23 MARK J. MURRAY P.L.S. NO. 12177 Scale: 1"=200 DRAWING PATH: CONOCOPHILLIPS\23-040631_WILD THING FEDERAL Drawn: BAB Checked: MJM Job: 23-040631 **REVISION NO. 1** COM\DRAFTING/



PROPOSED SURFACE SITE EXHIBIT 0 1000' 1000 WILD THING FEDERAL COM **COG OPERATING LLC** SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO 29 30 30 25 2,657.18 Ε SECTION LINE N 89°32'07" 2,666.87 E NW-NW NE-NW 32 36 NW-NF NF-NF **BEARING AND DISTANCE** S 94, 00.09 IINF 655. **BEARING** DISTANCE TOTAL SURFACE SITE ACREAGE BREAKDOWN BY SECTION **SECTION 1/4 1/4** L1 S 51°05'15" W 520.00' \vec{C} **OWNERSHIP** SQ. FEET **ACRES** L2 N 38°54'45" W 400.12 1/4 1/4 ≥ ≤ 00.10,00, L3 SE-SE BLM 49,177 1.13 LINE N 38°50'28" W 399.88' SW-SE BLM 7.88 343,040 \sim L4 N 51°05'15" E 429.75' ,673. NW-SE BLM 5,733 0.13 397,950 L5 TOTAL 9.14 S 38°54'45" F 200.00' .97 zL6 N 51°05'15" E 89.75 SW-NE SE-NE L7 S 38°54'45" E 600.00' SW-NW SE-NW SECTION 31 TOWNSHIP 25 SOUTH RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN NF-SF EDDY COUNTY, NEW MEXICO NW ·SE 666. NE-SW NW-SW LINE 40" PAD SECTION OHE 8 PROPOSED L6 POB 397,950 675 .94 |z|FOUND IRON PIPE W/ BRASS CAP SW-SF SW-SW SE-SW 32 36 S 89°50'16" 2,644.88 W T-25-S <u>—</u> T–26–S S 89°50'06" W 2.646.01 SECTION LINE _R-29-E R-28-E 6 6 5 1 LEGEND SURVEY LINES PROPOSED SURFACE SITE FOUND MONUMENT Date: 5/25/2023 CALCULATED CORNER 1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83 2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY P.L.S. NO. 12177 Date: 5/7/23 Scale: 1"=1000" MARK J. MURRAY Date: 5/25/23 DWG: 23-040631_Wild Thing Federal Com - SS 3 DRAWING PATH: CONOCOPHILLIPS\23-040631_WILD THING FEDERAL COM\DRAFTING\SURFACE SITES Drawn: BAB Checked: MJM Job: 23-040631 REVISION NO. 0

PROPOSED SURFACE SITE EXHIBIT WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

METES AND BOUNDS DESCRIPTION

BEING, A SURFACE SITE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 393,442.89', E: 638,817.82' / LAT: 32.081263, LONG: -104.018591, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 52°40'10" E, A DISTANCE OF 1.385.82 FEET:

THENCE S 51°05'15" W, A DISTANCE OF 520.00 FEET TO A POINT;

THENCE N 38°54'45" W, A DISTANCE OF 400.12 FEET TO A POINT;

THENCE N 38°50'28" W, A DISTANCE OF 399.88 FEET TO A POINT;

THENCE N 51°05'15" E, A DISTANCE OF 429.75 FEET TO A POINT;

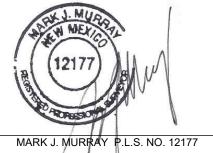
THENCE S 38°54'45" E, A DISTANCE OF 200.00 FEET TO A POINT;

THENCE N 51°05'15" E, A DISTANCE OF 89.75 FEET TO A POINT;

THENCE S 38°54'45" E, A DISTANCE OF 600.00 FEET, RETURNING TO THE POINT OF BEGINNING.

SAID SURFACE SITE CONTAINING 397,950 SQUARE FEET OR 9.14 ACRES IN SECTION 31.

Date: 5/25/2023



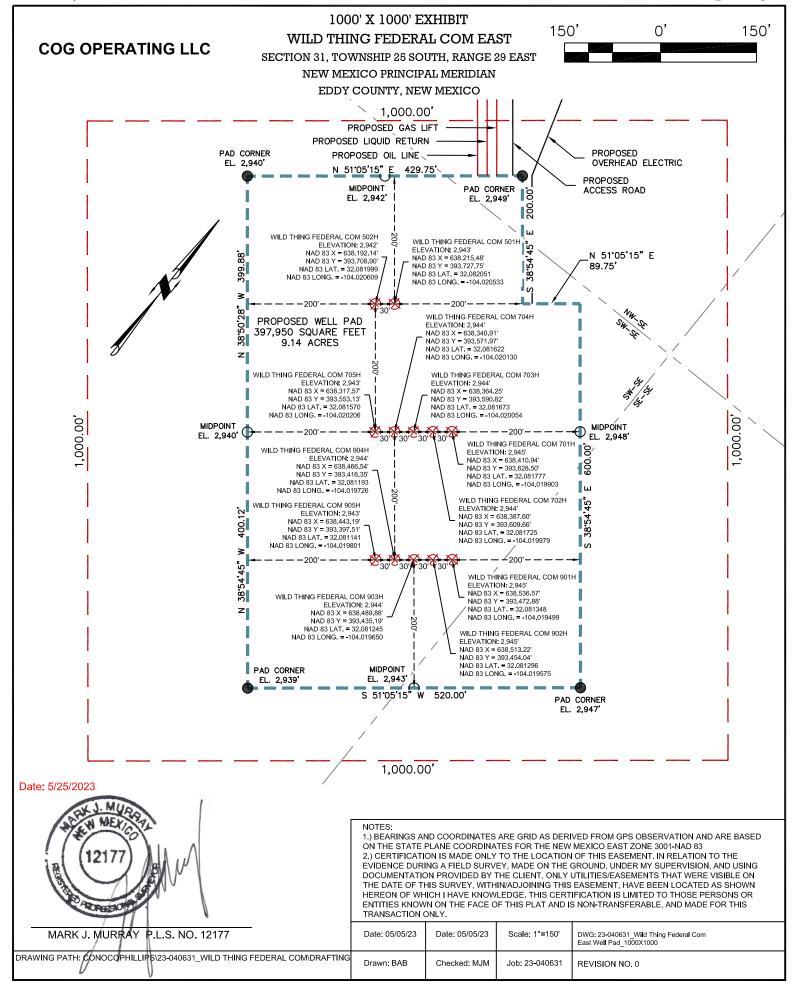
NOTES:

1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83
2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

Date: 5/07/23	Date: 5/25/23	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - SS 3
Drawn: BAB	Checked: MJM	Job: 23-040631	REVISION NO. 0

DRAWING PATH: CONOCOPHILLIPS\23-040631_WILD THING FEDERAL COM\DRAFTING\SURFACE SITES

INTERIM RECLAMATION EXHIBIT 0 200' 200 WILD THING FEDERAL COM EAST **COG OPERATING LLC** SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO PROPOSED GAS LIFT PROPOSED LIQUID RETURN PROPOSED OIL LINE PROPOSED ACCESS ROAD 100.00 PROPOSED OVERHEAD ELECTRIC UNCLAIMED AREA 275,956 SQUARE FEET **6.34 ACRES** V ΑВ $\oplus \oplus$ SW.SE WILD THING FEDERAL COM INTERIM RECLAMATION EAST WELL PAD SEED IN PLACE 397,950 SQUARE FEET **9.14 ACRES** TOP SOIL AREA CDEFG 38,485 SQUARE FEET $\Phi\Phi\Phi\Phi\Phi$ 0.88 ACRES INTERIM RECLAMATION AREA 600. 121,994 SQUARE FEET 2.80 ACRES HIJKL 50.0 $\Phi\Phi\Phi\Phi\Phi$ SECTION 31 419.94 TOWNSHIP 25 SOUTH RANGE 29 EAST 100' INTERIM 49 NEW MEXICO PRINCIPAL MERIDIAN RECLAMATION EDDY COUNTY, NEW MEXICO TOPSOIL 570.03¹ WILD THING FEDERAL COM 502H 1,111' FSL - 1,731' FEL В WILD THING FEDERAL COM 501H 1,130' FSL - 1,708' FEL WILD THING FEDERAL COM 705H 955' FSL - 1,605' FEL WILD THING FEDERAL COM 704H 974' FSL - 1,582' FEL WILD THING FEDERAL COM 703H 993' FSL - 1,559' FEL WILD THING FEDERAL COM 702H 1,011' FSL - 1,535' FEL WILD THING FEDERAL COM 701H 1.030' FSL - 1.512' FEL WILD THING FEDERAL COM 905H 799' FSL - 1,479' FEL WILD THING FEDERAL COM 904H 818' FSL - 1,456' FEL WILD THING FEDERAL COM 903H 837' FSL - 1,432' FEL WILD THING FEDERAL COM 902H 856' FSL - 1,409' FEL Date: 06/01/2023 WILD THING FEDERAL COM 901H 874' FSL - 1,386' FEL NOTES: 1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83 2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY. DWG: 23-040631_Wild Thing Federal Com East Well Pad_IR Date: 5/5/2023 Date: 5/25/23 MARK J. MURRAY P.L.S. NO. 12177 Scale: 1"=200' DRAWING PATH: CONOCOPHILLIPS\23-040631_WILD THING FEDERAL Drawn: BAB Checked: MJM Job: 23-040631 **REVISION NO. 1** COM\DRAFTING/



PROPOSED SURFACE SITE EXHIBIT 0 1000' 1000 WILD THING FEDERAL COM **COG OPERATING LLC** SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO 29 30 30 25 2,657.18 Ε SECTION LINE N 89°32'07" 2,666.87 E NW-NW NE-NW 32 36 NW-NF NF-NF **BEARING AND DISTANCE** S 94, 00.09 IINF 655. **BEARING** DISTANCE TOTAL SURFACE SITE ACREAGE BREAKDOWN BY SECTION **SECTION 1/4 1/4** L1 S 51°05'15" W 520.00' \vec{C} **OWNERSHIP** SQ. FEET **ACRES** L2 N 38°54'45" W 400.12 1/4 1/4 ≥ ≤ 00.10,00, L3 SE-SE BLM 49,177 1.13 LINE N 38°50'28" W 399.88' SW-SE BLM 7.88 343,040 \sim L4 N 51°05'15" E 429.75' ,673. NW-SE BLM 5,733 0.13 397,950 L5 TOTAL 9.14 S 38°54'45" F 200.00' .97 zL6 N 51°05'15" E 89.75 SW-NE SE-NE L7 S 38°54'45" E 600.00' SW-NW SE-NW SECTION 31 TOWNSHIP 25 SOUTH RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN NF-SF EDDY COUNTY, NEW MEXICO NW ·SE 666. NE-SW NW-SW LINE 40" PAD SECTION OHE 8 PROPOSED L6 POB 397,950 675 .94 |z|FOUND IRON PIPE W/ BRASS CAP SW-SF SW-SW SE-SW 32 36 S 89°50'16" 2,644.88 W T-25-S <u>—</u> T–26–S S 89°50'06" W 2.646.01 SECTION LINE _R-29-E R-28-E 6 6 5 1 LEGEND SURVEY LINES PROPOSED SURFACE SITE FOUND MONUMENT Date: 5/25/2023 CALCULATED CORNER 1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83 2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY P.L.S. NO. 12177 Date: 5/7/23 Scale: 1"=1000" MARK J. MURRAY Date: 5/25/23 DWG: 23-040631_Wild Thing Federal Com - SS 3 DRAWING PATH: CONOCOPHILLIPS\23-040631_WILD THING FEDERAL COM\DRAFTING\SURFACE SITES Drawn: BAB Checked: MJM Job: 23-040631 REVISION NO. 0

PROPOSED SURFACE SITE EXHIBIT WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

METES AND BOUNDS DESCRIPTION

BEING, A SURFACE SITE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 393,442.89', E: 638,817.82' / LAT: 32.081263, LONG: -104.018591, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 52°40'10" E, A DISTANCE OF 1.385.82 FEET:

THENCE S 51°05'15" W, A DISTANCE OF 520.00 FEET TO A POINT;

THENCE N 38°54'45" W, A DISTANCE OF 400.12 FEET TO A POINT;

THENCE N 38°50'28" W, A DISTANCE OF 399.88 FEET TO A POINT;

THENCE N 51°05'15" E, A DISTANCE OF 429.75 FEET TO A POINT;

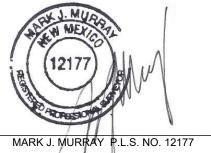
THENCE S 38°54'45" E, A DISTANCE OF 200.00 FEET TO A POINT;

THENCE N 51°05'15" E, A DISTANCE OF 89.75 FEET TO A POINT;

THENCE S 38°54'45" E, A DISTANCE OF 600.00 FEET, RETURNING TO THE POINT OF BEGINNING.

SAID SURFACE SITE CONTAINING 397,950 SQUARE FEET OR 9.14 ACRES IN SECTION 31.

Date: 5/25/2023

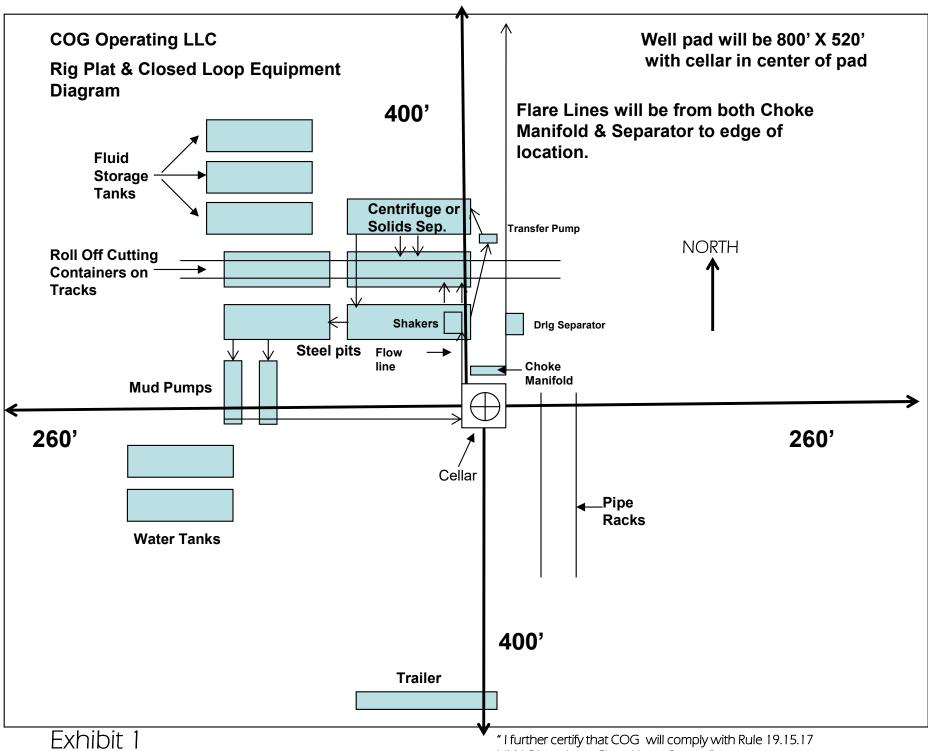


1) REAF

1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83
2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

Date: 5/07/23	Date: 5/25/23	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - SS 3
Drawn: BAB	Checked: MJM	Job: 23-040631	REVISION NO. 0

DRAWING PATH: CONOCOPHILLIPS\23-040631_WILD THING FEDERAL COM\DRAFTING\SURFACE SITES



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

Rec	ceived ₈ by O	CD: 1/23/2	025 2:28:26 P	<u>M</u> 11	12	7	8	9	10	11 Pa	ge 216 of 334
18	17	16	15	14	T24S	ga Brine I Sta R29E Sec. 2 NE/4!8	20 17 T2 4		15	14	13 18
19	20	21	724S R28E	23	24	19	20 R2	9E 21	22	23	24 19 T24S
30	29	28	27	26	25	30	29	28	27	26	R30E 25 30
31	32	33	34	35	36	31	32	33	34	35	36 31
6	5	4	3	2	1	6	5	4	3	2	1 6
7	8	9	10	11	12 EDD	7 Y	8	9	10	11	7 T25S
18	17	16	15 T25S	14	13	18	17	16 T2		14	R30E 13 18
19	20	21	22 22	Wild Thing 503H, 504H 707H, 708H 710H, 906H	I, 706H, I, 709H, I, 907H,	19	Wild Thing Fe 501H, 502H, 7 702H, 703H, 7 705H, 901H, 9	701H, 704H, 21 902H,	9 E 22	23	24 19
30	29	28	27	908H, 909H T25S R29E SE4 SW4		CONTRACTOR OF THE PARTY OF THE	903H, 904H, 8 125S R29E S SW4 SE4	ec. 31 28	27	26	25 30
31	32	33	34	35	36	31	32	33	34	35	36 31
6	5	4	3	2	1	6	5	4	3	2	1 6 T26S
7	8		T26S ¹⁰ R28E	11	12	7	8	and the same	6S 9E ¹⁰	11	R30E 12 7
18	17	16	15	14	13	18	<i>17</i>	16	15	14	M₃ xar 18

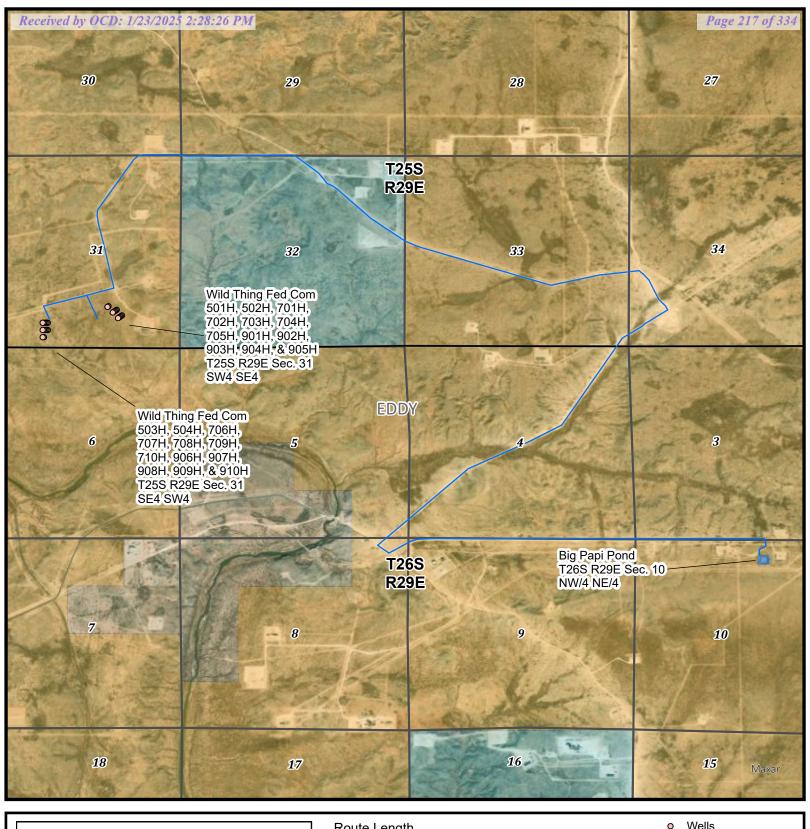


Route Length Miles: 27.71 Feet: 146,325.31' Rods: 8,868.20

Start Point: 32.081056, -104.025030 End Point: 32.209735, -104.004138 Wells
Brine
Surface Ownership
BLM
Private
State



0 0.5 1 2 3 4 Miles



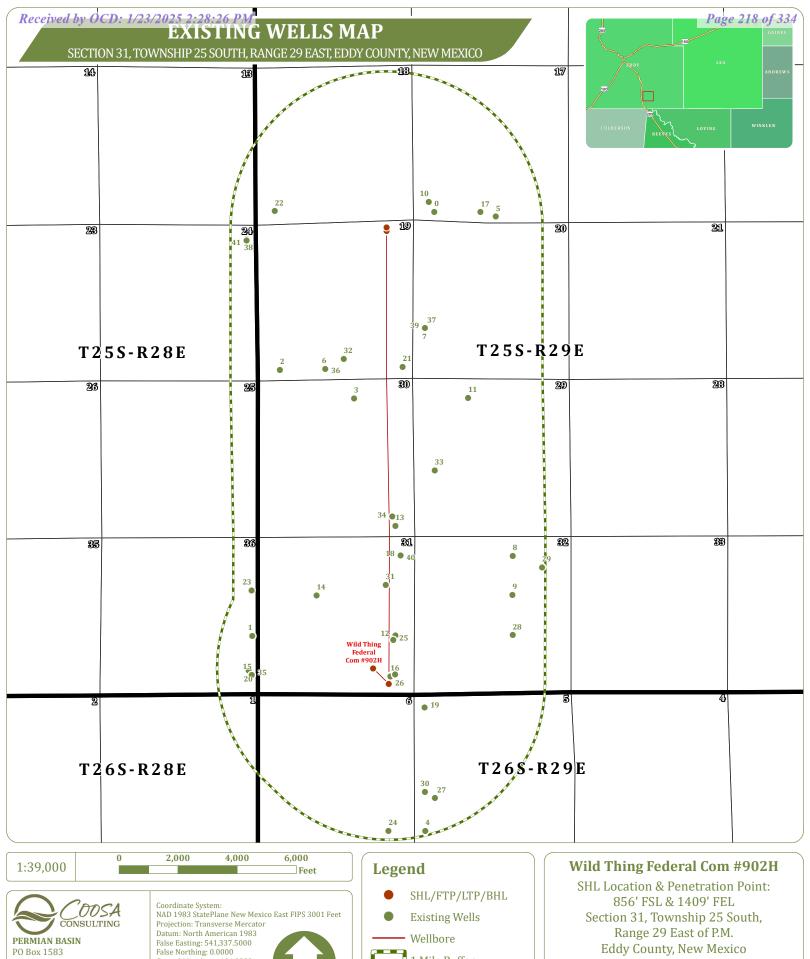


Route Length
Miles: 7.72
Feet: 40,735.45'
Rods: 2,468.81

Start Point: 32.081056, -104.025030
End Point: 32.063048, -103.970845

Miles





Office: (432) 631-4738 Released to Imaging: 2/12/2025 [0537:56] AM

Central Meridian: -104.3333 Scale Factor: 0.9999

Latitude Of Origin: 31.0000

Units: Foot US

PO Box 1583

CONTACT

Midland, TX 79702

Email: info@coosaconsulting.com

Rev: 0



1 Mile Buffer

Range 29 East of P.M. Eddy County, New Mexico

OPERATOR: COG OPERATING LLC

Received by OCD: 1/23/2025 2:28:26 PM

EXISTING WELLS MAP

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, EDDY COUNTY, NEW MEXICO

FID	API	Operator	Lease Name	Well#	Prod. Type	Well Stat.	Drl. Type
0	3001543727	COG OPERATING LLC	SHOWSTOPPER 17 FEDERAL COM	024H	OIL	EXPIRED PERMIT	Н
1	3001542053	EOG RESOURCES INC	TROJANS BQT STATE	002H	OIL	CANCELLED	Н
2	3001537480	COG OPERATING LLC	SHOWSTOPPER 19 FEDERAL	006H	OIL	INACTIVE	Н
3	3001503720	PRE-ONGARD WELL OPERATOR	JESSIE KINCAID	001	OIL	P & A	V
4	3001538980	COG OPERATING LLC	HAMBONE FEE COM	001H	OIL	P & A	Н
5	3001537837	COG OPERATING LLC	SHOWSTOPPER 17 FEDERAL COM	010H	OIL	CANCELLED	V
6	3001537373	COG OPERATING LLC	SHOWSTOPPER 19 FEDERAL COM	005H	OIL	ACTIVE	Н
7	3001536430	COG OPERATING LLC	SHOCKER 20 FEDERAL COM	001H	OIL	ACTIVE	Н
8	3001523882	DINERO OPERATING CO	NORTHERN NATURAL GAS	001	OIL	P & A	V
9	3001536224	EOG Y RESOURCES, INC.	SHOCKER 32 STATE	004G	OIL	CANCELLED	Н
10	3001537712	COG OPERATING LLC	SHOWSTOPPER 17 FEDERAL COM	012H	OIL	CANCELLED	Н
11	3001520987	PRE-ONGARD WELL OPERATOR	FEDERAL	001	OIL	P & A	V
12	3001520156	PRE-ONGARD WELL OPERATOR	SLATER	001	OIL	P & A	V
13	3001543909	XTO ENERGY, INC	THRILLER BWL FEDERAL	001H	OIL	ACTIVE	Н
14	3001525563	PRE-ONGARD WELL OPERATOR	EXXON FEDERAL	001	OIL	P & A	V
15	3001538261	EOG RESOURCES INC	TROJANS BQT STATE	001H	OIL	ACTIVE	Н
16	3001545045	COG OPERATING LLC	PUDGE FEDERAL	021H	GAS	ACTIVE	Н
17	3001537711	COG OPERATING LLC	SHOWSTOPPER 17 FEDERAL COM	011	OIL	CANCELLED	V
18	3001536282	COG PRODUCTION, LLC	COOPER 31 FEDERAL	001H	OIL	ACTIVE	U
19	3001503726	PRE-ONGARD WELL OPERATOR	SCULLY FED	001	OIL	P & A	V
20	3001542255	EOG Y RESOURCES, INC.	TROJANS BQT STATE	003H	OIL	CANCELLED	Н
21	3001537682	COG OPERATING LLC	SHOWSTOPPER 19 FEDERAL	003H	OIL	ACTIVE	Н
22	3001520173	PRE-ONGARD WELL OPERATOR	WHITE	001	OIL	DRILLED	V
23	3001538262	EOG RESOURCES INC	YADDOCK BQY STATE	001H	OIL	ACTIVE	Н
24	3001534836	MARBOB ENERGY CORP	PUDGE FEDERAL	001E	OIL	CANCELLED	V
25	3001539343	COG PRODUCTION, LLC	COOPER 31 FEDERAL	004H	OIL	INACTIVE	Н
26	3001536755	COG PRODUCTION, LLC	COOPER 31 FEDERAL	002H	GAS	P & A	Н
27	3001523909	COG OPERATING LLC	BENNETT FEE	001E	OIL	CANCELLED	V
28	3001503721	PRE-ONGARD WELL OPERATOR	SUPERIOR ST	001	OIL	P & A	V
29	3001539470	OWL SWD OPERATING, LLC	SHOCKER SWD	001	DISPOSAL	ACTIVE	V
30	3001538318	COG OPERATING LLC	HAMBONE FEE COM	002H	OIL	P & A	Н
31	3001537749	COG PRODUCTION, LLC	COOPER 31 FEDERAL	003H	OIL	ACTIVE	Н
32	3001537374	COG OPERATING LLC	SHOWSTOPPER 19 FEDERAL COM	004H	OIL	ACTIVE	Н
33	3001536932	XTO ENERGY, INC	COOPER 29 FEDERAL	001H	OIL	ACTIVE	Н
34	3001520988	PRE-ONGARD WELL OPERATOR	CITIES SERVICE FEDERAL	001	OIL	P & A	V
35	3001538261	EOG RESOURCES INC	TROJANS BQT STATE	001H	GAS	DRILLED	V
36	3001537373	COG OPERATING LLC	SHOWSTOPPER 19 FEDERAL COM	005H	GAS	DRILLED	V
37	3001536430	COG OPERATING LLC	SHOCKER 20 FEDERAL COM	001H	GAS	DRILLED	Н
38	3001545733	MEWBOURNE OIL CO	OXBOW 24 23 B2AD FEDERAL COM	001H	OIL	EXPIRED PERMIT	Н
39	3001536430	COG OPERATING LLC	SHOCKER 20 FEDERAL COM	001H	OIL	ACTIVE	Н
40	3001536282	COG PRODUCTION, LLC	COOPER 31 FEDERAL	001H	OIL	ACTIVE	U
41	3001545736	MEWBOURNE OIL CO	OXBOW 24 23 B3AD FEDERAL COM	002H	OIL	EXPIRED PERMIT	Н





PO Box 1583 Midland, TX 79702 CONTACT

Email: info@coosaconsulting.com Office : (432) 631-4738 Coordinate System:
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet
Projection: Transverse Mercator
Datum: North American 1983
False Easting: 541,337.5000
False Northing: 0.0000
Central Meridian: -104.3333
Scale Factor: 0.9999
Latitude 0f Origin: 31.0000
Units: Foot US

Legend

- SHL/FTP/LTP/BHL
- Existing Wells

— Wellbore



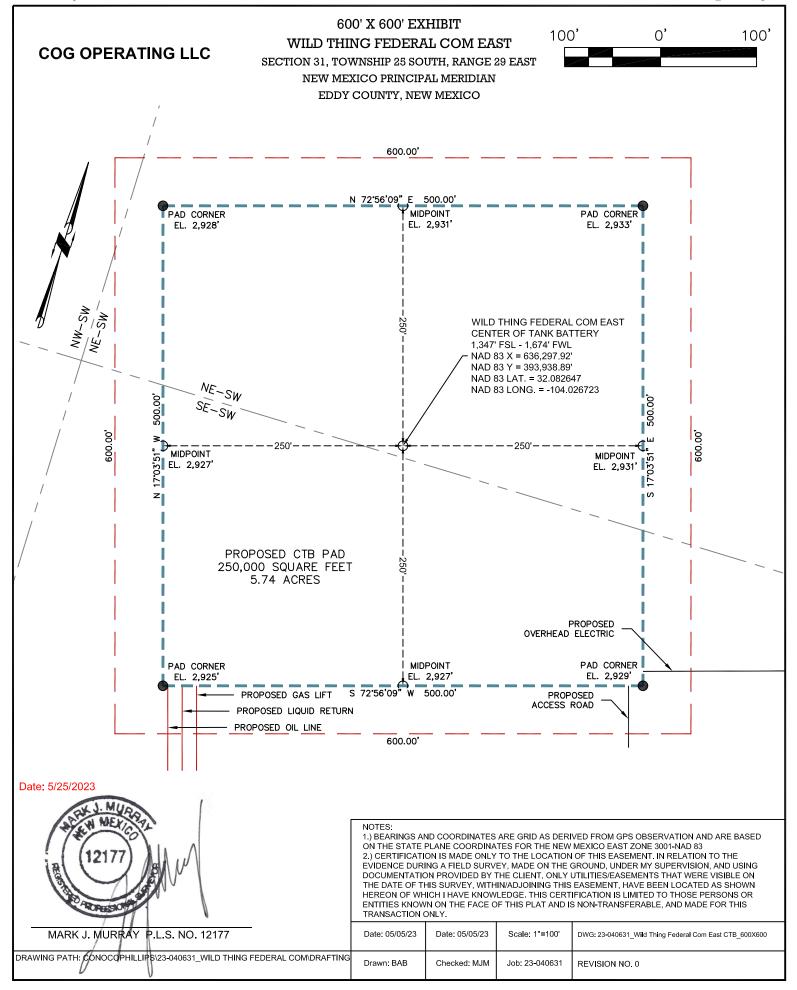
Wild Thing Federal Com #902H

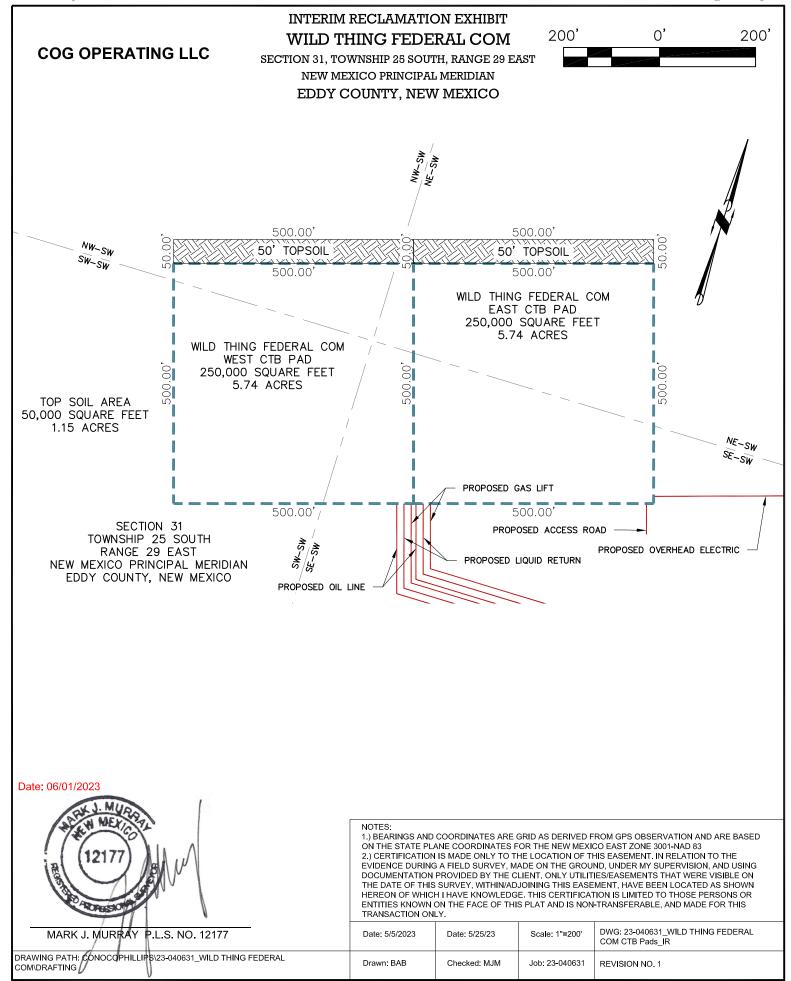
SHL Location & Penetration Point: 856' FSL & 1409' FEL Section 31, Township 25 South, Range 29 East of P.M. Eddy County, New Mexico

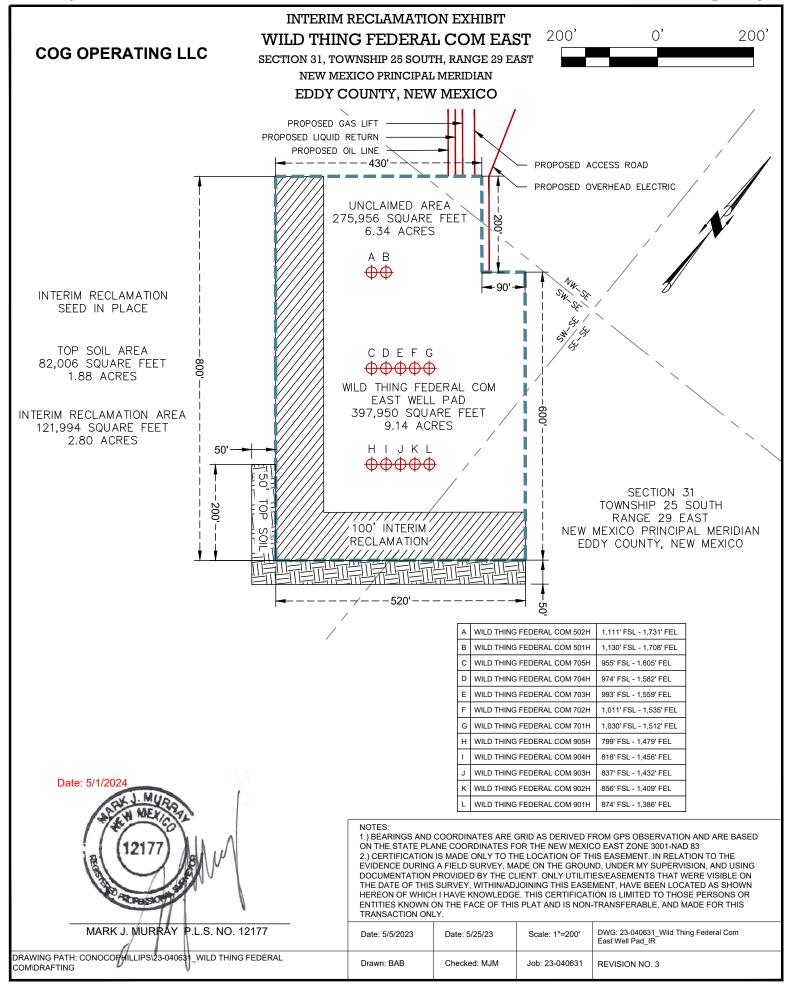
OPERATOR: COG OPERATING LLC

Released to Imaging: 2/12/2025 1043 7.556 AM

Rev: 0





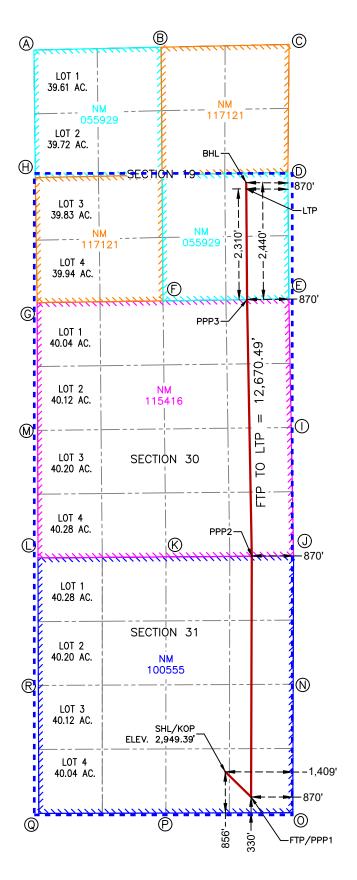


C-102 State of Ne Energy, Minerals & Natu Submit Electronically OIL CONSERVA				ral Resources Department		Revised July 9, 20				
	D Permitting	1		0,2	J. 10E/11/7			Submitta	√ Initial Su	
								Type:	☐ Amende	•
									☐ As Drille	d
					WELL LOCA	TION INFORMATION				
API Nu	30-015-		Pool Code	98220		Pool Name Purple S	Sage; Wol	fcamp,	_	
Proper	ty Code		Property N	Name	WII ח דעו	NG FEDERAL COM			Well Numb	er 902H
OGRID	D No. 22913	7	Operator I	Name		PERATING LLC				vel Elevation ,949.39'
	Surface O	wner: Stat	te 🗆 Fee 🗆	☐ Tribal ☑			/ner: ☐ Stat	e 🗆 Fee	☐ Tribal ☑ Fe	ederal
					Surf	ace Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
0	31	25S	29E	Lot	856' FSL		32.081		-104.019575	EDDY
	<u> </u>					m Hole Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
I	19	25S	29E		2,440' FSI	·	32.115		-104.018051	EDDY
	'3	200	272			- 070122	JZ.110	.501	. 57.0 1003 1	נטטו
Dedica	ated Acres	Infill or Defir	ning Well	Defining	Well API	Overlapping Spacin	a Unit (Y/N)	Consolid	ation Code	
	1.05		iiig vvcii	Pendi		Y	9 01111 (1714)	Corisolia	COM	
	Numbers.	Infill		I enul	ng 30011	Well setbacks are	under Comm	on Owner		No.
Oldell	inullibers.					Well selbacks are	under Comm	On Owners	silip. 🛕 i es 🗆 i	10
					Kick (Off Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
0	31	25S	29E		856' FSL	1,409' FEL	32.081	296	-104.019575	EDDY
		<u> </u>			First 7	Take Point (FTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
Р	31	25S	29E		330' FSL	870' FEL	32.079	852 -	-104.017844	EDDY
						L Take Point (LTP)				
				_						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
UL I	Section 19	Township 25S	Range 29E	Lot	Ft. from N/S 2,310' FSI	Ft. from E/W	Latitude 32.114		Longitude -104.018050	County EDDY
UL I		'	_	Lot		Ft. from E/W			-	,
I	19	25S	29E		2,310' FSI	Ft. from E/W	32.114		-104.018050	,
I Unitize	19 ed Area or A	25S	29E		2,310' FSI	Ft. from E/W - 870' FEL	32.114 Grou	.680	-104.018050	EDDY
Unitize OPERA I hereby best of r that this in the la well at t unlease pooling	at Area or A CON ATOR CER' y certify that the my knowledge or organization and including this location ped mineral intorder heretofice.	rea of Uniform TIFICATIONS The information of the and belief, and either owns a with the proposed boursuant to a core erest, or to a voore entered by the proposed by the proposed boursuant to a core entered by the proposed boursuant to a co	ontained here d, if the well is working interest of the working interest of the working interest with an oluntary poolin the division.	Spacing in is true and a vertical or st or unlease ation or has owner of a w g agreement	2,310' FSI Unit Type A complete to the directional well, and mineral interest a right to drill this vorking interest or tor a compulsory	Ft. from E/W 870' FEL Horizontal □ Vertical SURVEYOR CERTIF I hereby certify that the vactual surveys made by correct to the best of my	Ground Gr	nd Floor E	Plat was plotted on, and that the s	EDDY
Unitize OPERA I hereby best of r that this in the la well at t unlease pooling If this we the considered the well order from the well order fro	ed Area or A CON ATOR CER' y certify that the my knowledge or an including the this location ped mineral interpretation order heretofull is a horizon sent of at leas interest in earl's completed om the division	TIFICATIONS TIFICATIONS The information of the end belief, and either owns a without the proposed boursuant to a concerest, or to a voore entered by the thing of the end of t	ontained hered, if the well is working interest of the division. The division of a wearget pool or focated or obtains.	Spacing in is true and a vertical or st or unlease ation or has owner of a w g agreement his organizatorking interestormation) in sined a comp	2,310' FSI Unit Type A complete to the directional well, and mineral interest a right to drill this vorking interest or tor a compulsory tion has received at or unleased which any part of	Ft. from E/W 870' FEL Horizontal □ Vertical SURVEYOR CERTIF I hereby certify that the vactual surveys made by correct to the best of my	Ground Gr	nd Floor E	plat was plotted and that the s	e9.39 from field notes and is true and
Unitize OPERA I hereby best of r that this in the la well at t unlease pooling If this we the consmineral the well order from the signature of the signature	ad Area or A CON ATOR CER' y certify that the my knowledge or organization and including this location ped mineral into order heretoff rell is a horizon sent of at leas interest in earl's completed om the division the division or the di	TIFICATIONS TIFICATIONS The information of the end belief, and either owns a without the proposed boursuant to a concerest, or to a voore entered by the thing of the end of t	ontained here d, if the well is working interes ottom hole localitract with an elluntary poolin the division. er certify that t owner of a we arget pool or f ocated or obta	Spacing in is true and a vertical or st or unlease away and a vertical or st or unlease away agreement of a way agreement or st or unlease away agreement or st or unlease agreement or st or unlease a vertical or st or unlease a vertical or st or unlease a vertical or unlease a vertica	2,310' FSI Unit Type A complete to the directional well, and mineral interest a right to drill this vorking interest or tor a compulsory tion has received at or unleased which any part of	Ft. from E/W 870' FEL Rorizontal □ Vertical SURVEYOR CERTIF I hereby certify that the vactual surveys made by correct to the best of my Signature and Seal of Proceedings of the process of the proc	Ground Gr	nd Floor E	Plat was plotted and that the s	e9.39 from field notes of ame is true and
Unitize OPER/ I hereby best of r that this in the la well at t unlease pooling If this we the consmineral the well order from Signature Printed	ad Area or A CON ATOR CER y certify that the my knowledge or organization and including this location ped mineral into order heretoff at leas interest in each of at leas interest in each of the division or the division o	rea of Uniform TIFICATIONS The information of the end belief, and either owns a vicine proposed boursuant to a core erest, or to a voore entered by the thind well, I further the thind to the lessee or chitract (in the tinterval will be lend.	ontained hered, if the well is working interest of the division. The division of a wearget pool or focated or obtained.	Spacing in is true and a vertical or st or unlease attion or has owner of a w g agreement his organizar orking interest ormation) in sined a composite 9/1	2,310' FSI Unit Type A F d complete to the directional well, and mineral interest a right to drill this vorking interest or to a compulsory tion has received st or unleased which any part of pulsory pooling	Ft. from E/W 870' FEL Horizontal □ Vertical SURVEYOR CERTIF I hereby certify that the vactual surveys made by correct to the best of my	Ground Gr	nd Floor E	Plat was plotted and that the s	e9.39 from field notes and is true and

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



SURFACE HOLE LOCATION & KICK-OFF POINT 856' FSL & 1,409' FEL ELEV. = 2,949.39'

NAD 83 X = 638,513.22' NAD 83 Y = 393,454.04' NAD 83 LAT = 32.081296° NAD 83 LONG = -104.019575°

> FIRST TAKE POINT & PENETRATION POINT 1 330' FSL & 870' FEL

NAD 83 X = 639,050.76' NAD 83 Y = 392,930.05' NAD 83 LAT = 32.079852° NAD 83 LONG = -104.017844'

PENETRATION POINT 2 0' FSL & 870' FEL

NAD 83 X = 639,065.39' NAD 83 Y = 397,945.50' NAD 83 LAT = 32.093639° NAD 83 LONG = -104.017750°

PENETRATION POINT 3 0' FSL & 870' FEL

NAD 83 X = 638,967.40' NAD 83 Y = 403,289.57' NAD 83 LAT = 32.108330° NAD 83 LONG = -104.018015°

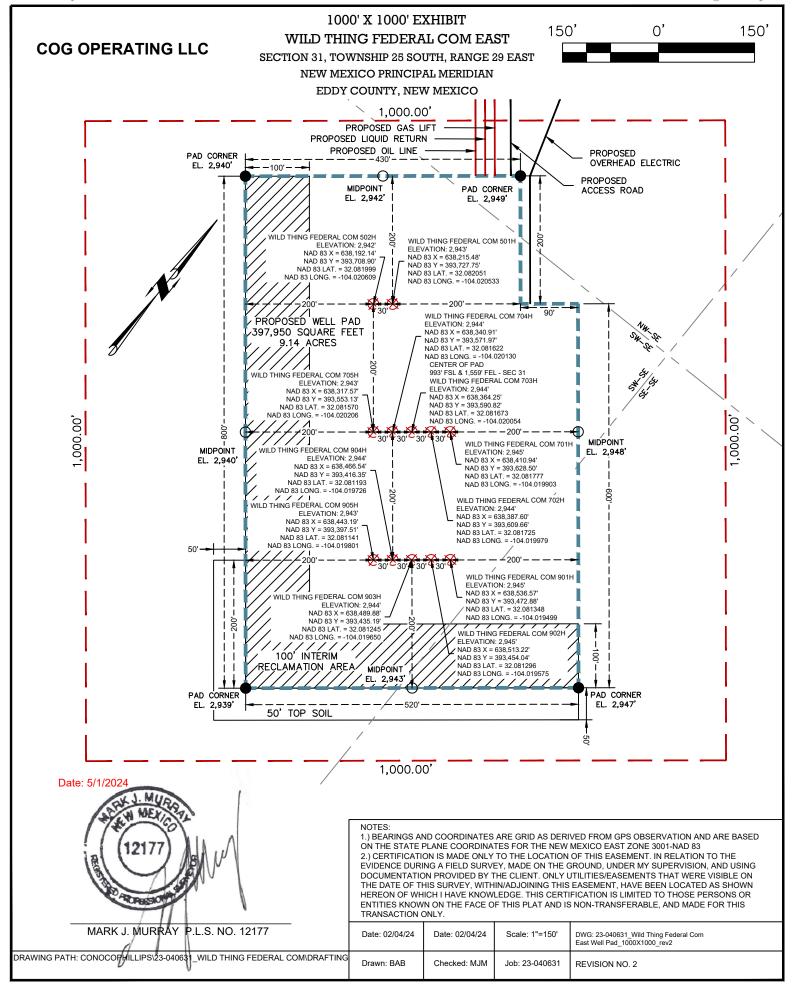
LAST TAKE POINT 2,310' FSL & 870' FEL

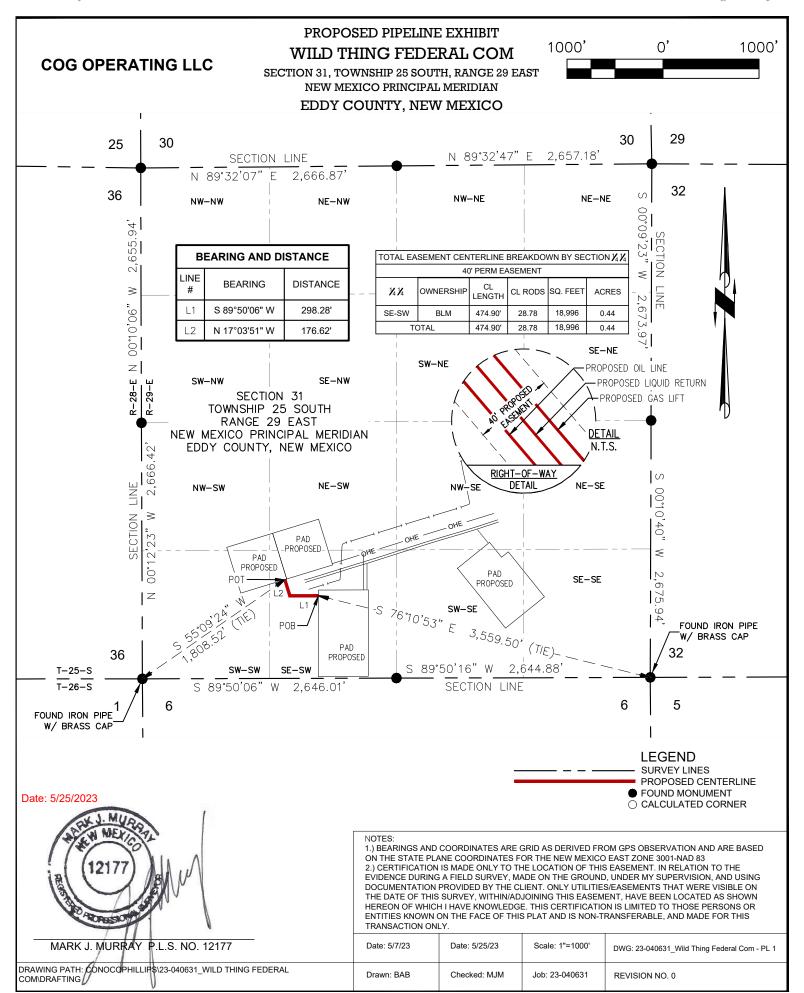
NAD 83 X = 638,950.07' NAD 83 Y = 405,599.56' NAD 83 LAT = 32.114680° NAD 83 LONG = -104.018050°

BOTTOM HOLE LOCATION 2,440' FSL & 870' FEL

NAD 83 X = 638,949.10' NAD 83 Y = 405,729.55' NAD 83 LAT = 32.115037° NAD 83 LONG = -104.018051°

CC	ORNER COORDINATES
NEW	/ MEXICO EAST - NAD 83
Α	IRON PIPE W/ BRASS CAP
А	N:408,491.76' E:634,527.03'
В	IRON PIPE W/ BRASS CAP
	N:408,550.32' E:637,176.91'
С	IRON PIPE W/ BRASS CAP
<u> </u>	N:408,608.72' E:639,842.20'
D	IRON PIPE W/ BRASS CAP
	N:405,945.03' E:639,817.52'
E	IRON PIPE W/ BRASS CAP
	N:403,301.58' E:639,837.28'
F	IRON PIPE W/ BRASS CAP
	N:403,265.40' E:637,216.41'
G	IRON PIPE W/ BRASS CAP
	N:403,228.52' E:634,593.72'
н	IRON PIPE W/ BRASS CAP
	N:405,833.10' E:634,556.38'
l ı	IRON PIPE W/ BRASS CAP
<u> </u>	N:400,627.62' E:639,886.49'
J	IRON PIPE W/ BRASS CAP
<u> </u>	N:397,952.39' E:639,935.36'
к	IRON PIPE W/ BRASS CAP
	N:397,931.36' E:637,278.26'
L	IRON PIPE W/ BRASS CAP
	N:397,909.72' E:634,611.48' IRON PIPE W/ BRASS CAP
M	N:400.566.94' E:634.605.07'
	IRON PIPE W/ BRASS CAP
N	N:395,278,43' E:639,928,06'
\vdash	IRON PIPE W/ BRASS CAP
0	N:392.602.51' E:639.919.75'
\vdash	IRON PIPE W/ BRASS CAP
Р	N:392.595.01' E:637.274.88'
\vdash	IRON PIPE W/ BRASS CAP
Q	N:392,587.40' E:634,628.88'
-	IRON PIPE W/ BRASS CAP
R	N:395,253.80' E:634,619.28'
	14.000,200.00 E.004,019.20





PROPOSED PIPELINE EXHIBIT

WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

30-FOOT PIPELINE CENTERLINE DESCRIPTION

BEING, A THIRTY-FOOT (30') WIDE PIPELINE EASEMENT FIFTEEN (15') FEET EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

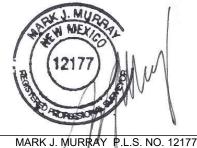
BEGINNING AT A POINT HAVING COORDINATES OF N: 393,452.68', E: 636,463.27' / LAT: 32.081309, LONG: -104.026193, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 76°10'53" E, A DISTANCE OF 3,559.50 FEET:

THENCE S 89°50'06" W, WITH SAID CENTERLINE, A DISTANCE OF 298.28 FEET TO A POINT;

THENCE N 17°03'51" W, A DISTANCE OF 176.62 FEET TO THE POINT OF TERMINATION (P.O.T.), HAVING COORDINATES OF N: 393,620.67', E: 636,113.16' / LAT: 32.081773, LONG: -104.027322 OF SAID THIRTY-FOOT (30') PIPELINE EASEMENT, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHWEST CORNER OF SAID SECTION 31 BEARS S 55°09'24" W, A DISTANCE OF 1,808.52 FEET.

WHEREAS THE ABOVE DESCRIBED THIRTY-FOOT (30') PIPELINE EASEMENT HAVING A CENTERLINE LENGTH OF 474.90 LINEAR FEET, OR 28.78 RODS IN SECTION 31.

Date: 5/25/2023

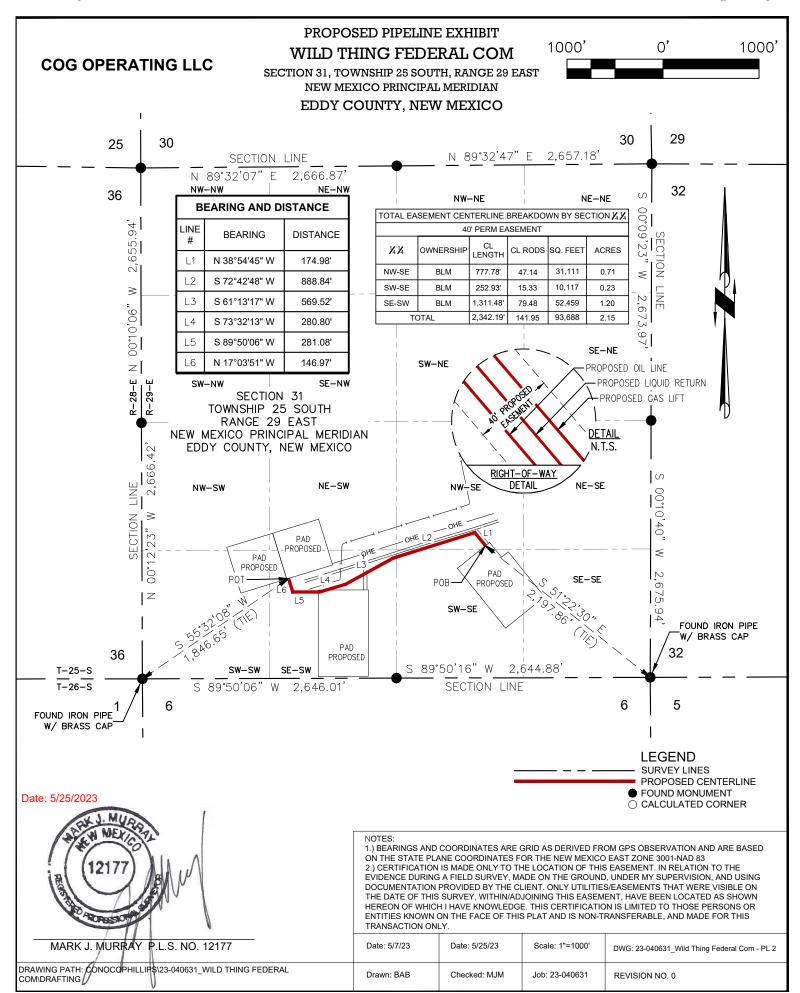


1) REAF

1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83
2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

Date: 5/7/23	Date: 5/25/23	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - PL 1
Drawn: BAB	Checked: MJM	Job: 23-040631	REVISION NO. 0

DRAWING PATH: CONOCOPHILLIPS 23-040631_WILD THING FEDERAL COM/DRAFTING



PROPOSED PIPELINE EXHIBIT

WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

30-FOOT PIPELINE CENTERLINE DESCRIPTION

BEING, A THIRTY-FOOT (30') WIDE PIPELINE EASEMENT FIFTEEN (15') FEET EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 393,974.45', E: 638,202.68' / LAT: 32.082729, LONG: -104.020573, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 51°22'30" E, A DISTANCE OF 2,197.86 FEET;

THENCE N 38°54'45" W, WITH SAID CENTERLINE, A DISTANCE OF 174.98 FEET TO A POINT;

THENCE S 72°42'48" W, WITH SAID CENTERLINE, A DISTANCE OF 888.84 FEET TO A POINT;

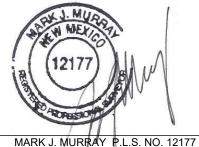
THENCE S 61°13'17" W, WITH SAID CENTERLINE, A DISTANCE OF 569.52 FEET TO A POINT;

THENCE S 73°32'13" W, WITH SAID CENTERLINE, A DISTANCE OF 280.80 FEET TO A POINT; THENCE S 89°50'06" W, WITH SAID CENTERLINE, A DISTANCE OF 281.08 FEET TO A POINT;

THENCE N 17°03'51" W, A DISTANCE OF 146.97 FEET TO THE POINT OF TERMINATION (P.O.T.), HAVING COORDINATES OF N: 393,632.40', E: 636,151.40' / LAT: 32.081805, LONG: -104.027199 OF SAID THIRTY-FOOT (30') PIPELINE EASEMENT, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHWEST CORNER OF SAID SECTION 31 BEARS S 55°32'08" W, À DISTANCE OF 1,846.65 FEET.

WHEREAS THE ABOVE DESCRIBED THIRTY-FOOT (30') PIPELINE EASEMENT HAVING A CENTERLINE LENGTH OF 2,342.19 LINEAR FEET, OR 141.95 RODS IN SECTION 31.

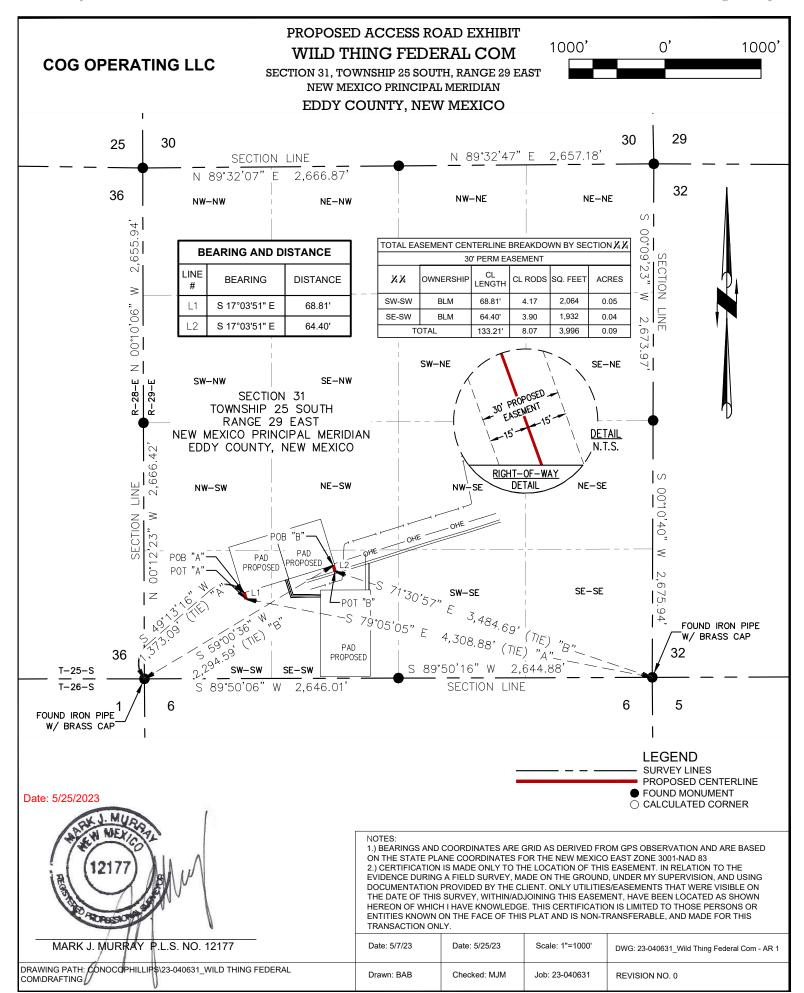
Date: 5/25/2023



1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83 2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

Date: 5/7/23	Date: 5/25/23	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - PL 2
Drawn: BAB	Checked: MJM	Job: 23-040631	REVISION NO. 0

DRAWING PATH: CONOCOPHILLIP\$\23-040631_WILD THING FED COM\DRAFTING



PROPOSED ACCESS ROAD EXHIBIT WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

30-FOOT ACCESS ROAD CENTERLINE DESCRIPTION "A"

BEING, A THIRTY-FOOT (30') WIDE ACCESS ROAD EASEMENT FIFTEEN (15') FEET EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 393,484.22', E: 635,668.63' / LAT: 32.081402, LONG: -104.028759, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHWEST CORNER OF SAID SECTION 31 BEARS S 49°13'16" W, A DISTANCE OF 1.373.09 FEET:

THENCE S 17°03'51" E, A DISTANCE OF 68.81 FEET TO THE POINT OF TERMINATION (P.O.T.), HAVING COORDINATES OF N: 393,418.43', E: 635,688.83' / LAT: 32.081221, LONG: -104.028694 OF SAID THIRTY-FOOT (30') ACCESS ROAD EASEMENT, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 79°05'05" E, A DISTANCE OF 4,308.88 FEET.

WHEREAS THE ABOVE DESCRIBED THIRTY-FOOT (30') ACCESS ROAD EASEMENT "A" HAVING A CENTERLINE LENGTH OF 68.81 LINEAR FEET, OR 4.17 RODS IN SECTION 31.

30-FOOT ACCESS ROAD CENTERLINE DESCRIPTION "B"

BEING, A THIRTY-FOOT (30') WIDE ACCESS ROAD EASEMENT FIFTEEN (15') FEET EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

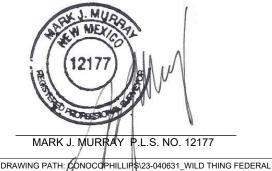
BEGINNING AT A POINT HAVING COORDINATES OF N: 393,768.85', E: 636,595.93' / LAT: 32.082177, LONG: -104.025762, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHWEST CORNER OF SAID SECTION 31 BEARS S 59°00'36" W, A DISTANCE OF 2.294.59 FEET:

THENCE S 17°03'51" E, A DISTANCE OF 64.40 FEET TO THE POINT OF TERMINATION (P.O.T.), HAVING COORDINATES OF N: 393,707.29', E: 636,614.83' / LAT: 32.082008, LONG: -104.025702 OF SAID THIRTY-FOOT (30') ACCESS ROAD EASEMENT, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 71°30'57" E, A DISTANCE OF 3,484.69 FEET.

WHEREAS THE ABOVE DESCRIBED THIRTY-FOOT (30') ACCESS ROAD EASEMENT "B" HAVING A CENTERLINE LENGTH OF 64.40 LINEAR FEET, OR 3.90 RODS IN SECTION 31.

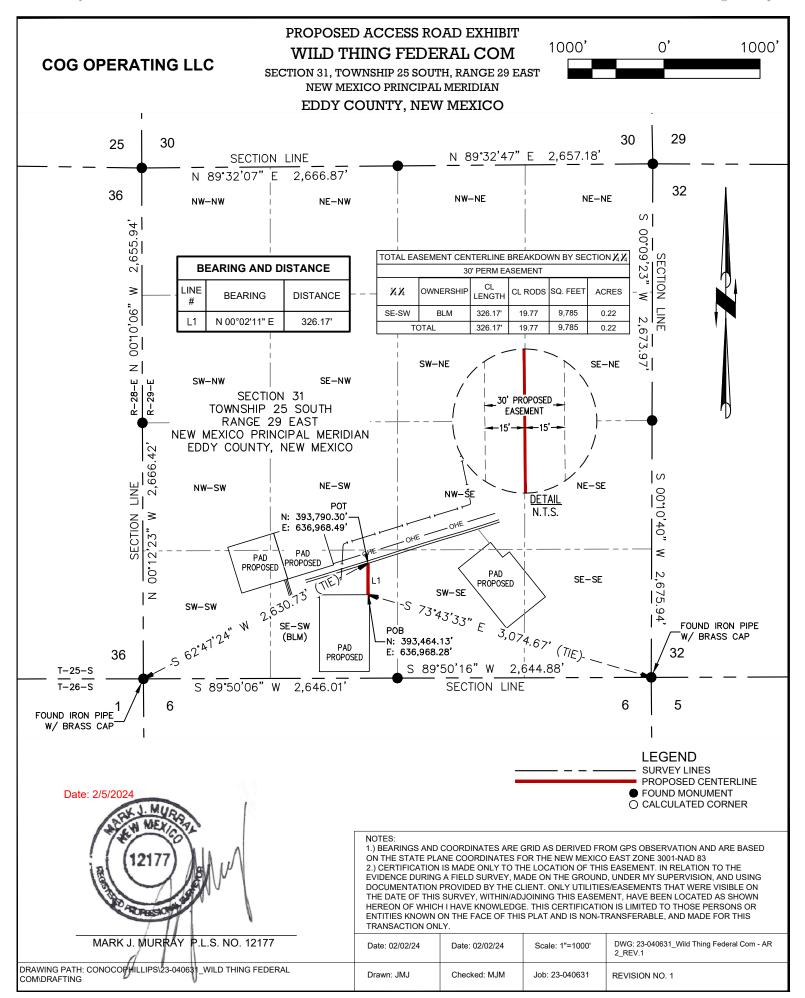
Date: 5/25/2023

COM\DRAFTING /



NOTES:

Date: 5/7/23	Date: 5/25/23	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - AR 1
Drawn: BAB	Checked: MJM	Job: 23-040631	REVISION NO. 0



PROPOSED ACCESS ROAD EXHIBIT WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

30-FOOT ACCESS ROAD CENTERLINE DESCRIPTION

BEING, A THIRTY-FOOT (30') WIDE ACCESS ROAD EASEMENT FIFTEEN (15') FEET EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 393,464.13', E: 636,968.28' / LAT: 32.081336, LONG: -104.024563, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 73°43'33" E, A DISTANCE OF 3 074 67 FFFT:

THENCE N 00°02'11" E, A DISTANCE OF 326.17 FEET TO THE POINT OF TERMINATION (P.O.T.), HAVING COORDINATES OF N: 393,790.30', E: 636,968.49' / LAT: 32.082233, LONG: -104.024559 OF SAID THIRTY-FOOT (30') ACCESS ROAD EASEMENT, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHWEST CORNER OF SAID SECTION 31 BEARS S 62°47'24" W, A DISTANCE OF 2,630.73 FEET.

WHEREAS THE ABOVE DESCRIBED THIRTY-FOOT (30') ACCESS ROAD EASEMENT HAVING A CENTERLINE LENGTH OF 326.17 LINEAR FEET, OR 19.77 RODS IN SECTION 31.

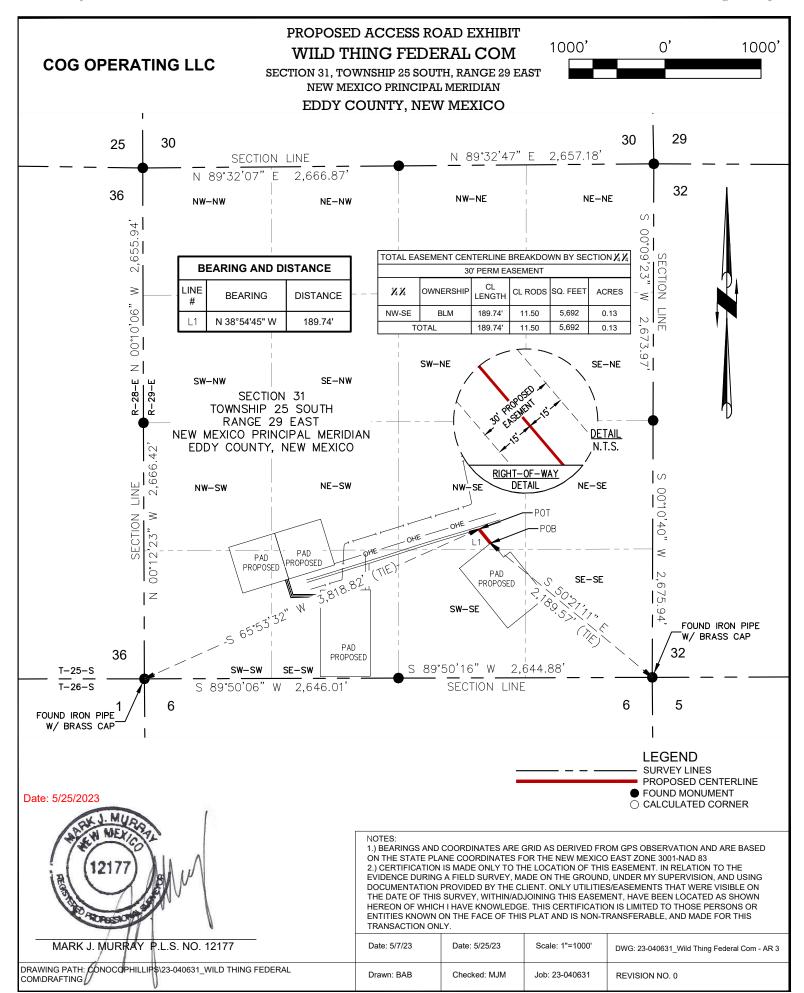
Date: 2/5/2024

MARK J. MURRAY P.L.S. NO. 12177

DRAWING PATH: CONOCOPHILLIPS\23-040631_WILD THING FEDERAL COMDRAFTING

NOTES:

Date: 02/02/24	Date: 02/02/24	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - AR 2_REV.1
Drawn: JMJ	Checked: MJM	Job: 23-040631	REVISION NO. 1



PROPOSED ACCESS ROAD EXHIBIT WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

30-FOOT ACCESS ROAD CENTERLINE DESCRIPTION

BEING, A THIRTY-FOOT (30') WIDE ACCESS ROAD EASEMENT FIFTEEN (15') FEET EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 393,999.57', E: 638,233.80' / LAT: 32.082798, LONG: -104.020472, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 50°21'11" E, A DISTANCE OF 2.189.57 FEET:

THENCE N 38°54'45" W, A DISTANCE OF 189.74 FEET TO THE POINT OF TERMINATION (P.O.T.), HAVING COORDINATES OF N: 394,147.21', E: 638,114.62' / LAT: 32.083205, LONG: -104.020855 OF SAID THIRTY-FOOT (30') ACCESS ROAD EASEMENT, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHWEST CORNER OF SAID SECTION 31 BEARS S 65°53'32" W, A DISTANCE OF 3,818.82 FEET.

WHEREAS THE ABOVE DESCRIBED THIRTY-FOOT (30') ACCESS ROAD EASEMENT HAVING A CENTERLINE LENGTH OF 189.74 LINEAR FEET, OR 11.50 RODS IN SECTION 31.

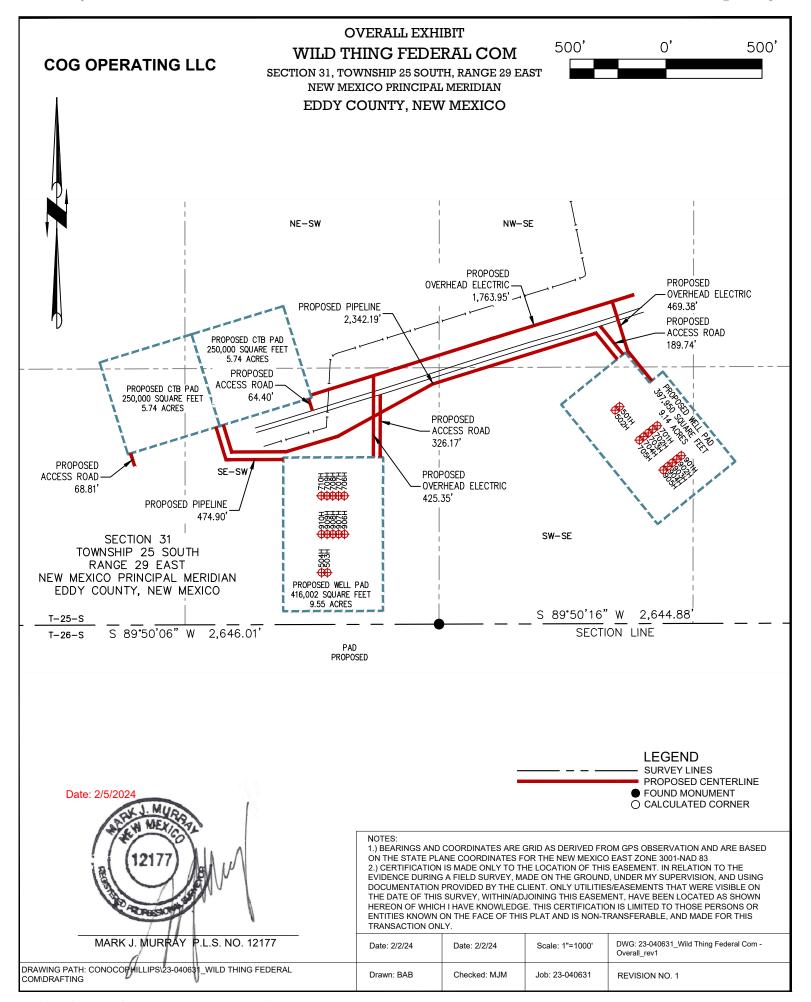
Date: 5/25/2023

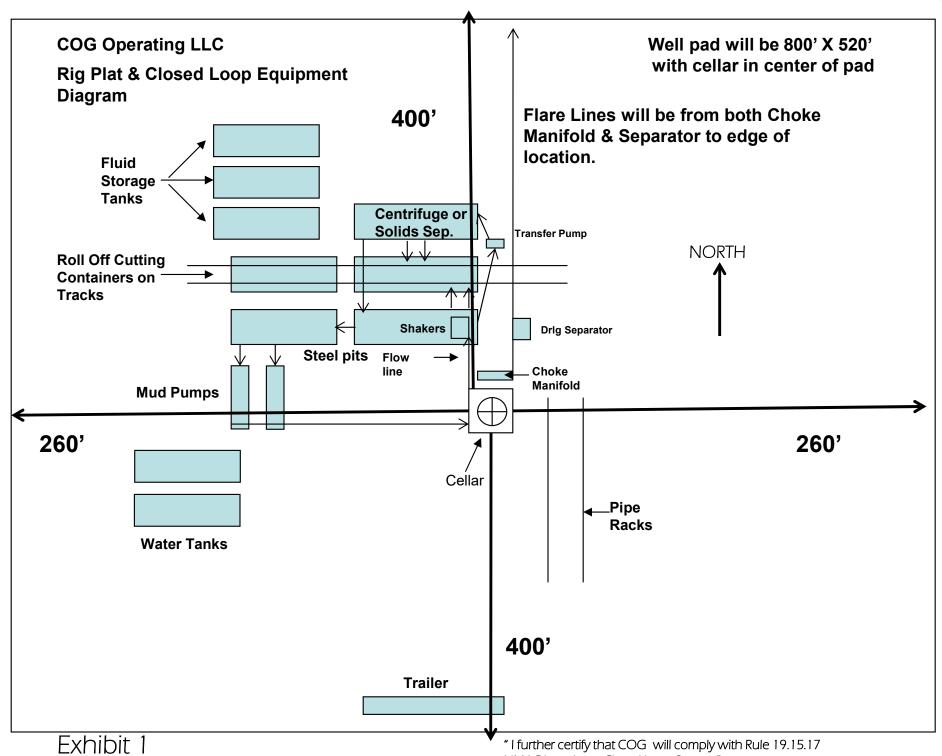
MARK J. MURRAY P.L.S. NO. 12177

1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83 2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT, ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

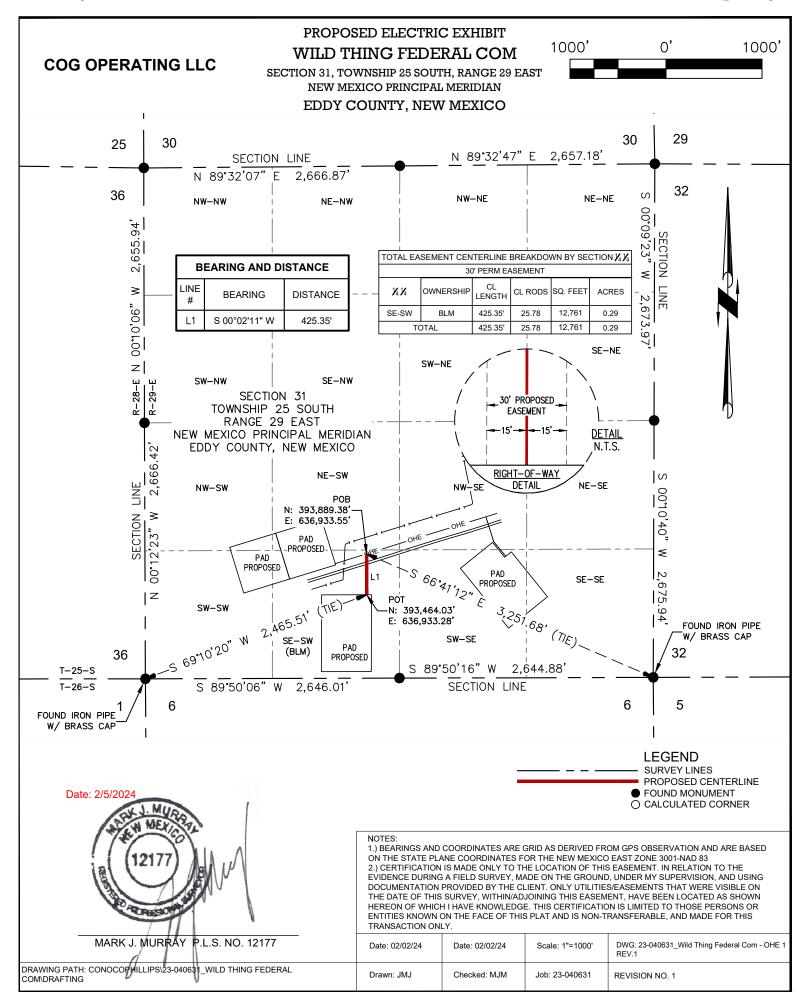
Date: 5/7/23	Date: 5/25/23	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - AR 3
Drawn: BAB	Checked: MJM	Job: 23-040631	REVISION NO. 0

DRAWING PATH: CONOCOPHILLIP\$\\23-040631_WILD THING FEDERAL COM\DRAFTING





NMAC by using a Closed Loop System."



PROPOSED ELECTRIC EXHIBIT

WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

30-FOOT ELECTRIC LINE CENTERLINE DESCRIPTION

BEING, A THIRTY-FOOT (30') WIDE ELECTRIC LINE EASEMENT FIFTEEN (15') FEET EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 393,889.38', E: 636,933.55' / LAT: 32.082506, LONG: -104.024671, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 66°41'12" E, A DISTANCE OF 3,251.68 FEET:

THENCE S 00°02'11" W, A DISTANCE OF 425.35 FEET TO THE POINT OF TERMINATION (P.O.T.), HAVING COORDINATES OF N: 393,464.03', E: 636,933.28' / LAT: 32.081336, LONG: -104.024676 OF SAID THIRTY-FOOT (30') ELECTRIC LINE EASEMENT, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHWEST CORNER OF SAID SECTION 31 BEARS S 69°10'20" W, A DISTANCE OF 2,465.51 FEET.

WHEREAS THE ABOVE DESCRIBED THIRTY-FOOT (30') ELECTRIC LINE EASEMENT HAVING A CENTERLINE LENGTH OF 425.35 LINEAR FEET, OR 25.78 RODS IN SECTION 31.

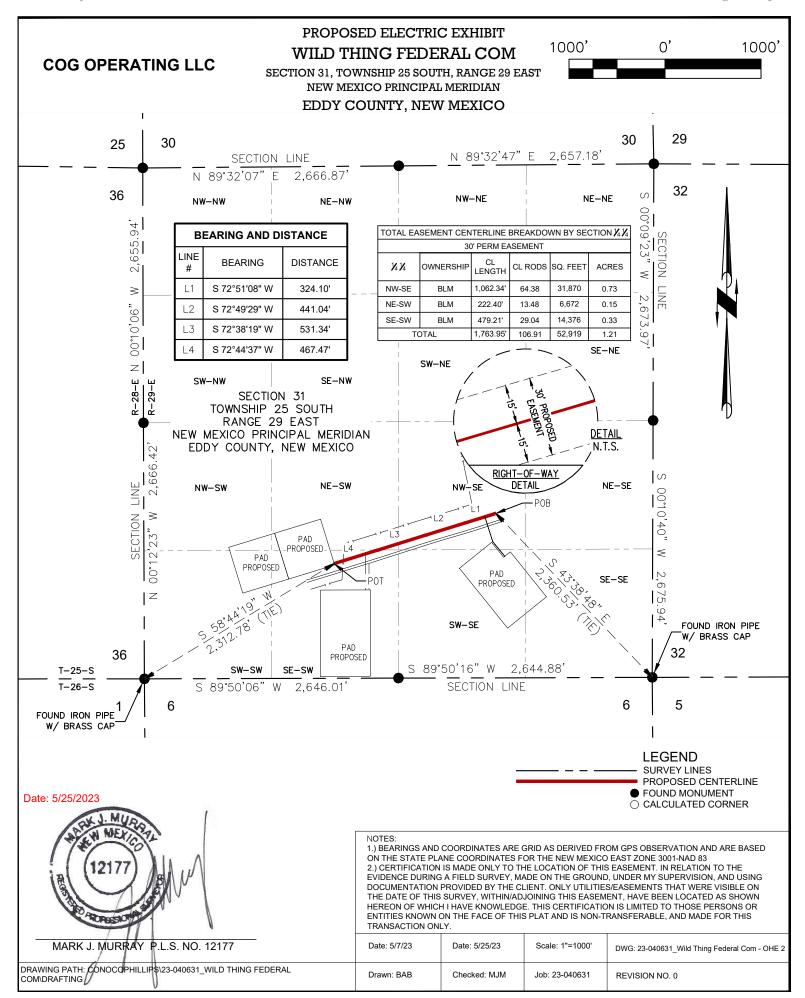
Date: 2/5/2024 MARK J. MURRAY P.L.S. NO. 12177

1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83 2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

Date: 02/02/24	Date: 02/02/24	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - OHE 1 REV.1
Drawn: JMJ	Checked: MJM	Job: 23-040631	REVISION NO. 1

COM\DRAFTING

DRAWING PATH: CONOCOPHILLIPS\23-040631_WILD THING FEDERAL



PROPOSED ELECTRIC EXHIBIT

WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

30-FOOT ELECTRIC LINE CENTERLINE DESCRIPTION

BEING, A THIRTY-FOOT (30') WIDE ELECTRIC LINE EASEMENT FIFTEEN (15') FEET EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 394,310.61', E: 638,290.49' / LAT: 32.083653, LONG: -104.020286, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 43°38'48" E, A DISTANCE OF 2,360.53 FEET:

THENCE S 72°51'08" W, WITH SAID CENTERLINE, A DISTANCE OF 324.10 FEET TO A POINT;

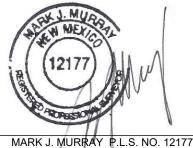
THENCE S 72°49'29" W, WITH SAID CENTERLINE, A DISTANCE OF 441.04 FEET TO A POINT;

THENCE S 72°38'19" W, WITH SAID CENTERLINE, A DISTANCE OF 531.34 FEET TO A POINT;

THENCE S 72°44'37" W, A DISTANCE OF 467.47 FEET TO THE POINT OF TERMINATION (P.O.T.), HAVING COORDINATES OF N: 393,787.60', E: 636,605.87' / LAT: 32.082228, LONG: -104.025730 OF SAID THIRTY-FOOT (30') ELECTRIC LINE EASEMENT, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHWEST CORNER OF SAID SECTION 31 BEARS S 58°44'19" W, A DISTANCE OF 2,312.78 FEET.

WHEREAS THE ABOVE DESCRIBED THIRTY-FOOT (30') ELECTRIC LINE EASEMENT HAVING A CENTERLINE LENGTH OF 1763.95 LINEAR FEET, OR 106.91 RODS IN SECTION 31.

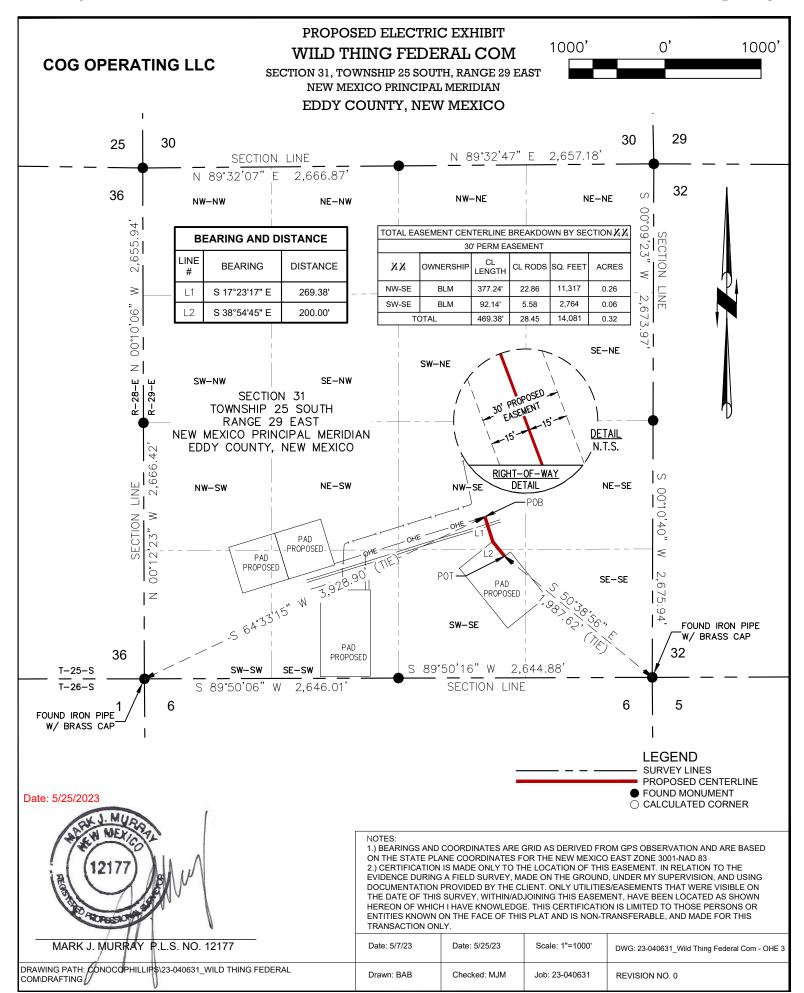
Date: 5/25/2023



1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83 2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT, ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

Date: 5/7/23	Date: 5/25/23	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - OHE 2
Drawn: BAB	Checked: MJM	Job: 23-040631	REVISION NO. 0

DRAWING PATH: CONOCOPHILLIPS 23-040631_WILD THING FEDERAL COM/DRAFTING



PROPOSED ELECTRIC EXHIBIT

WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

30-FOOT ELECTRIC LINE CENTERLINE DESCRIPTION

BEING, A THIRTY-FOOT (30') WIDE ELECTRIC LINE EASEMENT FIFTEEN (15') FEET EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

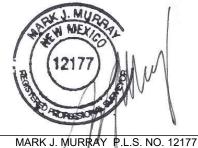
BEGINNING AT A POINT HAVING COORDINATES OF N: 394,275.49', E: 638,176.64' / LAT: 32.083557, LONG: -104.020654, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHWEST CORNER OF SAID SECTION 31 BEARS S 64°33'15" W, A DISTANCE OF 3,928.90 FEET;

THENCE S 17°23'17" E, WITH SAID CENTERLINE, A DISTANCE OF 269.38 FEET TO A POINT;

THENCE S 38°54'45" E, A DISTANCE OF 200.00 FEET TO THE POINT OF TERMINATION (P.O.T.), HAVING COORDINATES OF N: 393,862.80', E: 638,382.77' / LAT: 32.082421, LONG: -104.019992 OF SAID THIRTY-FOOT (30') ELECTRIC LINE EASEMENT, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHWEST CORNER OF SAID SECTION 31 BEARS S 50°38'56" E, A DISTANCE OF 1,987.62 FEET.

WHEREAS THE ABOVE DESCRIBED THIRTY-FOOT (30') ELECTRIC LINE EASEMENT HAVING A CENTERLINE LENGTH OF 469.38 LINEAR FEET, OR 28.45 RODS IN SECTION 31.

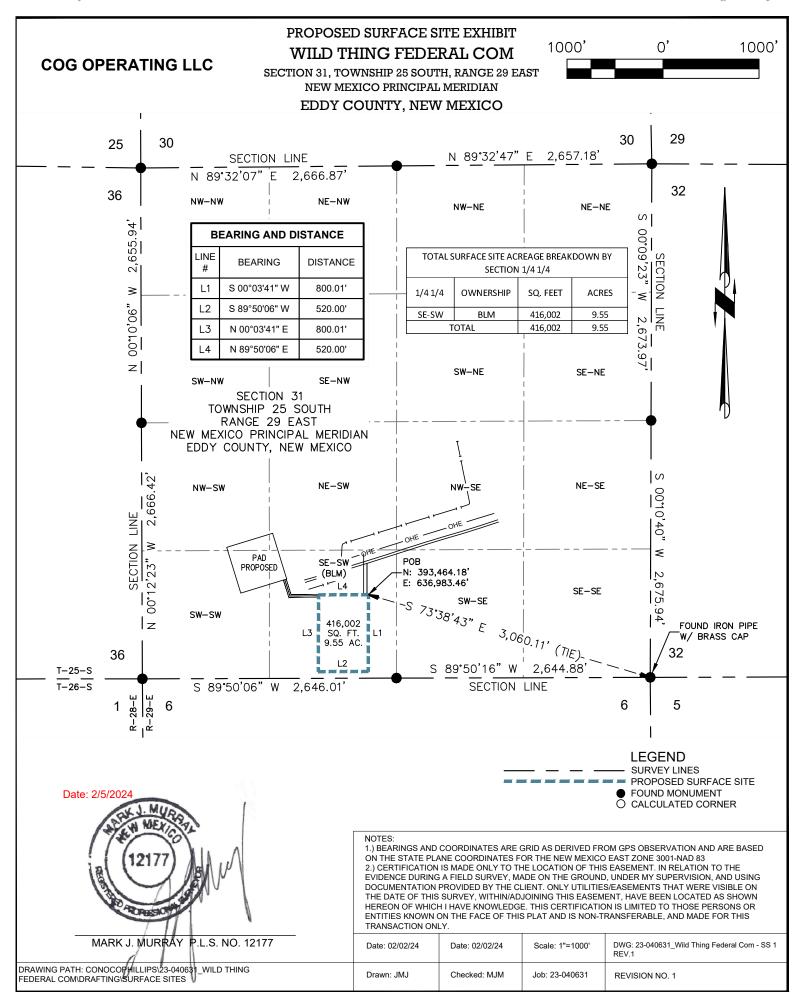
Date: 5/25/2023



1.) BEARINGS AND COORDINATES ARE GRID AS DERIVED FROM GPS OBSERVATION AND ARE BASED ON THE STATE PLANE COORDINATES FOR THE NEW MEXICO EAST ZONE 3001-NAD 83 2.) CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT. IN RELATION TO THE EVIDENCE DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY THE CLIENT. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES KNOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.

Date: 5/7/23	Date: 5/25/23	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - OHE 3
Drawn: BAB	Checked: MJM	Job: 23-040631	REVISION NO. 0

DRAWING PATH: CONOCOPHILLIPS 23-040631_WILD THING FEDERAL COM/DRAFTING



PROPOSED SURFACE SITE EXHIBIT WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

METES AND BOUNDS DESCRIPTION

BEING, A SURFACE SITE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 393,464.18', E: 636,983.46' / LAT: 32.081336, LONG: -104.024514, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 73°38'43" E, A DISTANCE OF 3.060.11 FEET:

THENCE S 00°03'41" W, A DISTANCE OF 800.01 FEET TO A POINT; THENCE S 89°50'06" W, A DISTANCE OF 520.00 FEET TO A POINT; THENCE N 00°03'41" E, A DISTANCE OF 800.01 FEET TO A POINT;

THENCE N 89°50'06" E, A DISTANCE OF 520.00 FEET, RETURNING TO THE POINT OF BEGINNING.

SAID SURFACE SITE CONTAINING 416,002 SQUARE FEET OR 9.55 ACRES IN SECTION 31.

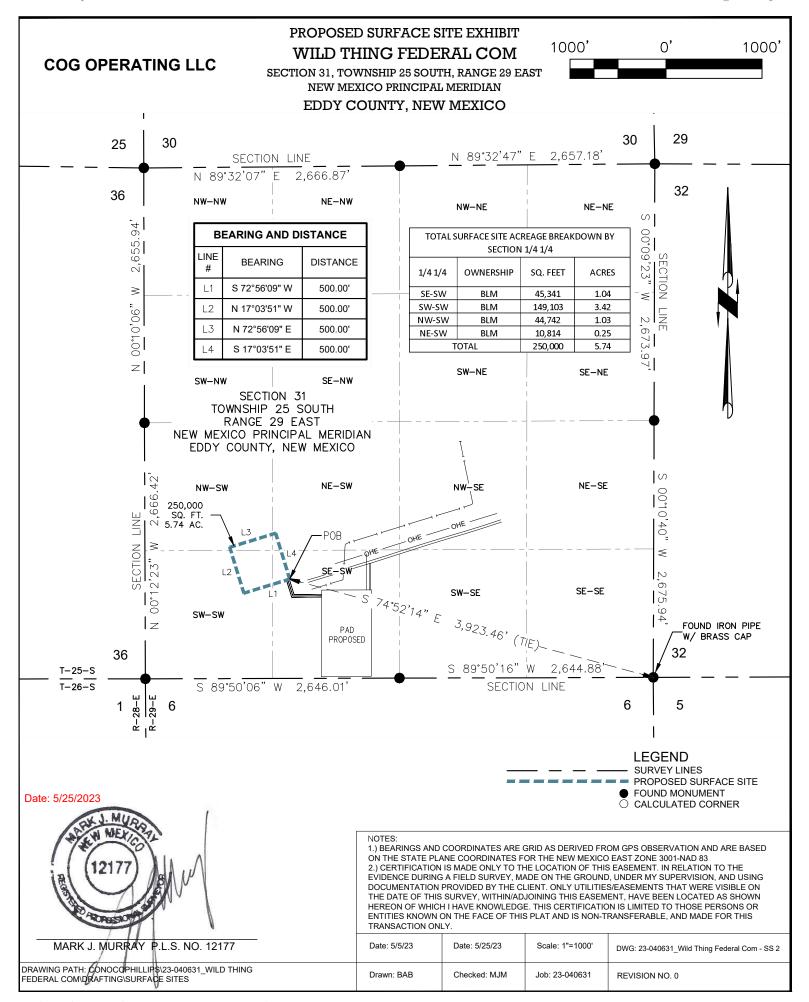


MARK J. MURRAY P.L.S. NO. 12177

DRAWING PATH: CONOCOPHILLIPS\23-040631_WILD THING FEDERAL COM\DRAFTING\SURFACE SITES

NOTES:

Date: 02/02/24	Date: 02/02/24	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - SS 1 REV.1
Drawn: JMJ	Checked: MJM	Job: 23-040631	REVISION NO. 1



PROPOSED SURFACE SITE EXHIBIT WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

METES AND BOUNDS DESCRIPTION

BEING, A SURFACE SITE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 393,626.53', E: 636,132.28' / LAT: 32.081789, LONG: -104.027261, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 74°52'14" E, A DISTANCE OF 3,923.46 FEET;

THENCE S 72°56'09" W, A DISTANCE OF 500.00 FEET TO A POINT;

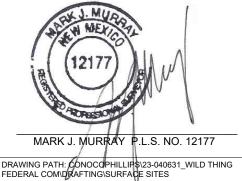
THENCE N 17°03'51" W, A DISTANCE OF 500.00 FEET TO A POINT;

THENCE N 72°56'09" E, A DISTANCE OF 500.00 FEET TO A POINT;

THENCE S 17°03'51" E, A DISTANCE OF 500.00 FEET, RETURNING TO THE POINT OF BEGINNING.

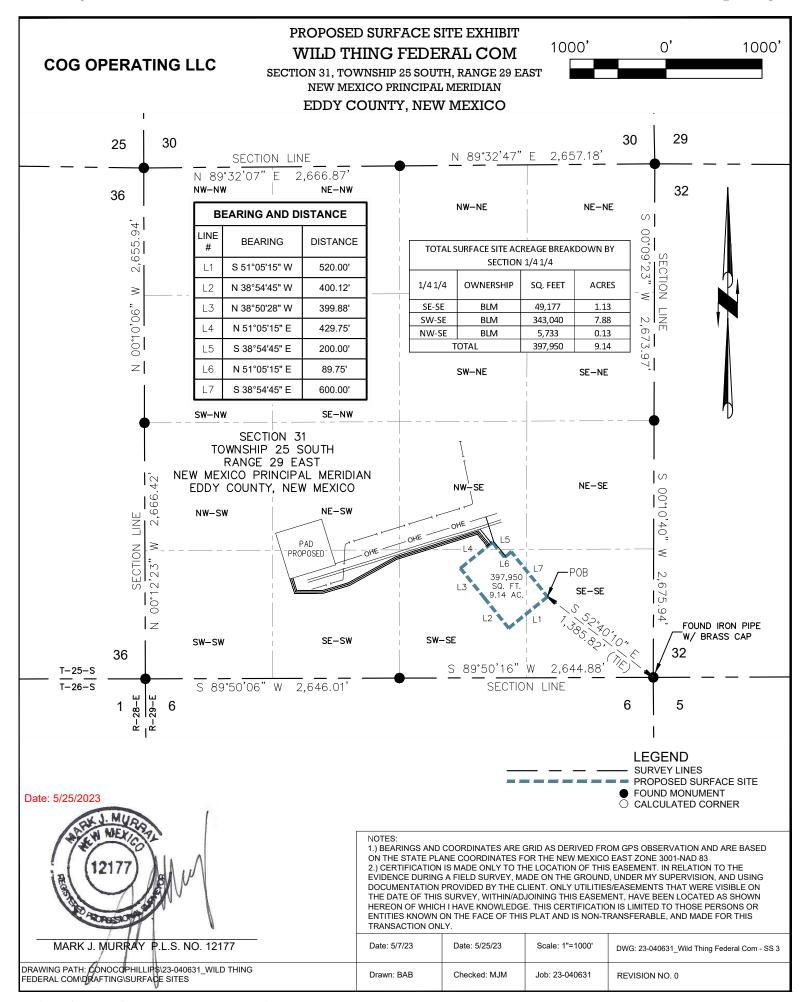
SAID SURFACE SITE CONTAINING 250,000 SQUARE FEET OR 5,74 ACRES IN SECTION 31.

Date: 5/25/2023



NOTES:

Date: 5/5/23	Date: 5/25/23	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - SS 2
Drawn: BAB	Checked: MJM	Job: 23-040631	REVISION NO. 0



PROPOSED SURFACE SITE EXHIBIT WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

METES AND BOUNDS DESCRIPTION

BEING, A SURFACE SITE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 393,442.89', E: 638,817.82' / LAT: 32.081263, LONG: -104.018591, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 52°40'10" E, A DISTANCE OF 1.385.82 FEET:

THENCE S 51°05'15" W, A DISTANCE OF 520.00 FEET TO A POINT;

THENCE N 38°54'45" W, A DISTANCE OF 400.12 FEET TO A POINT;

THENCE N 38°50'28" W, A DISTANCE OF 399.88 FEET TO A POINT;

THENCE N 51°05'15" E, A DISTANCE OF 429.75 FEET TO A POINT;

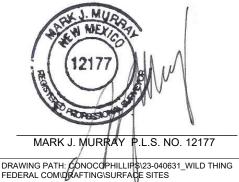
THENCE S 38°54'45" E, A DISTANCE OF 200.00 FEET TO A POINT;

THENCE N 51°05'15" E, A DISTANCE OF 89.75 FEET TO A POINT;

THENCE S 38°54'45" E, A DISTANCE OF 600.00 FEET, RETURNING TO THE POINT OF BEGINNING.

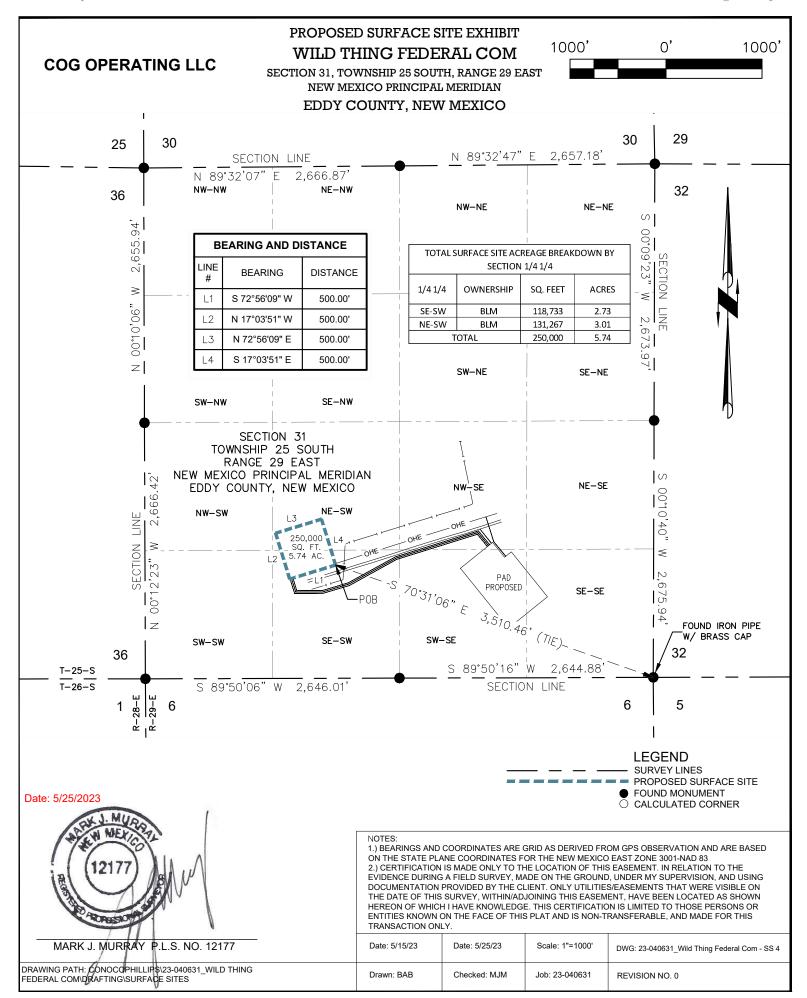
SAID SURFACE SITE CONTAINING 397,950 SQUARE FEET OR 9.14 ACRES IN SECTION 31.

Date: 5/25/2023



NOTES:

Date: 5/07/23	Date: 5/25/23	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - SS 3
Drawn: BAB	Checked: MJM	Job: 23-040631	REVISION NO. 0



PROPOSED SURFACE SITE EXHIBIT WILD THING FEDERAL COM

SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST NEW MEXICO PRINCIPAL MERIDIAN EDDY COUNTY, NEW MEXICO

METES AND BOUNDS DESCRIPTION

BEING, A SURFACE SITE, SITUATED IN SECTION 31, TOWNSHIP 25 SOUTH, RANGE 29 EAST, NEW MEXICO PRINCIPAL MERIDIAN, EDDY COUNTY, NEW MEXICO;

BEGINNING AT A POINT HAVING COORDINATES OF N: 393,773.26', E: 636,610.27' / LAT: 32.082189, LONG: -104.025716, POINT OF BEGINNING (P.O.B.), IN SAID SECTION 31, FROM WHICH A FOUND IRON PIPE WITH BRASS CAP FOR THE SOUTHEAST CORNER OF SAID SECTION 31 BEARS S 70°31'06" E, A DISTANCE OF 3,510.46 FEET;

THENCE S 72°56'09" W, A DISTANCE OF 500.00 FEET TO A POINT;

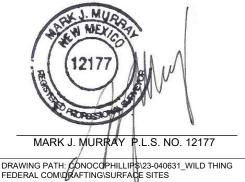
THENCE N 17°03'51" W, A DISTANCE OF 500.00 FEET TO A POINT;

THENCE N 72°56'09" E, A DISTANCE OF 500.00 FEET TO A POINT;

THENCE S 17°03'51" E, A DISTANCE OF 500.00 FEET, RETURNING TO THE POINT OF BEGINNING.

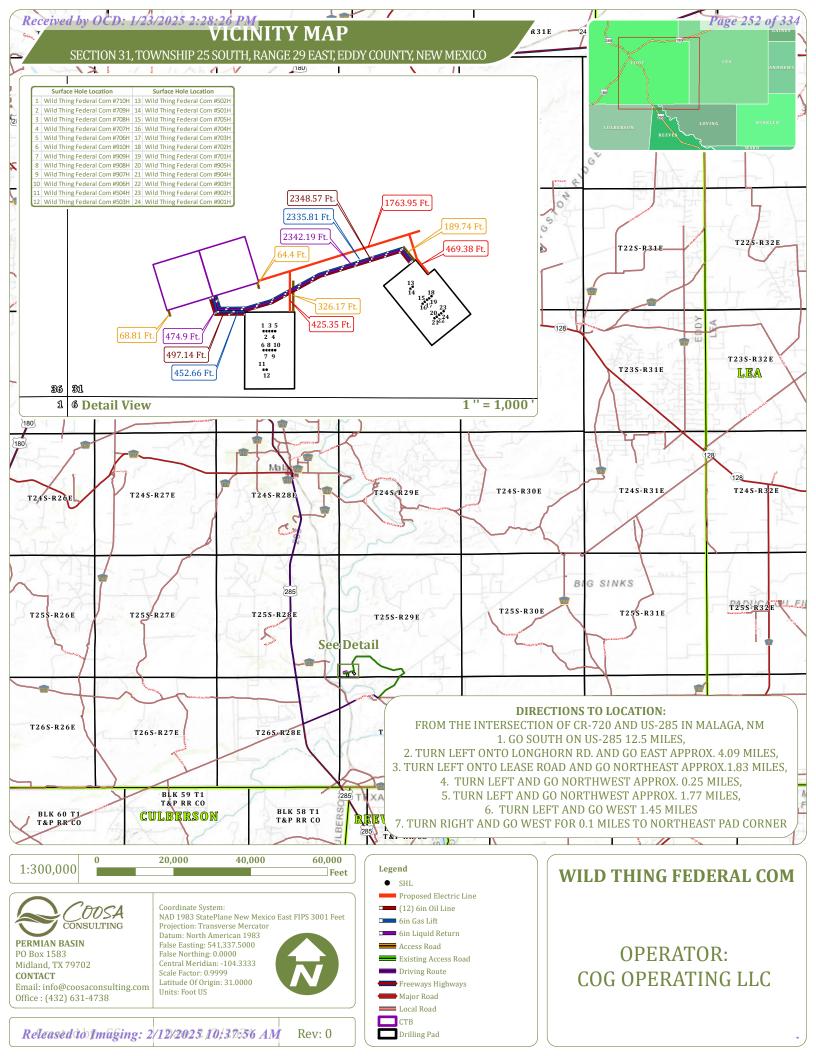
SAID SURFACE SITE CONTAINING 250,000 SQUARE FEET OR 5.74 ACRES IN SECTION 31.

Date: 5/25/2023



NOTES:

Date: 5/15/23	Date: 5/25/23	Scale: 1"=1000'	DWG: 23-040631_Wild Thing Federal Com - SS 4
Drawn: BAB	Checked: MJM	Job: 23-040631	REVISION NO. 0





U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

PWD Data Report

PWD disturbance (acres):

APD ID: 10400094054 **Submission Date:** 08/24/2023

Operator Name: COG OPERATING LLC

Well Name: WILD THING FEDERAL COM Well Number: 902H

Well Type: OIL WELL Well Work Type: Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Well Name: WILD THING FEDERAL COM Well Number: 902H

Lined pit Monitor description:

Lined pit Monitor

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

Do you propose to put the produced water to beneficial use?

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic

State

Unlined Produced Water Pit Estimated

Unlined pit: do you have a reclamation bond for the pit?

Well Name: WILD THING FEDERAL COM Well Number: 902H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

Section 4 -

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number: Injection well name:

Assigned injection well API number? Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection

Underground Injection Control (UIC) Permit?

UIC Permit

Section 5 - Surface

Would you like to utilize Surface Discharge PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Released to Imaging: 2/12/2025 10:37:56 AM

Well Name: WILD THING FEDERAL COM Well Number: 902H

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements



U.S. Department of the Interior **BUREAU OF LAND MANAGEMENT** **Bond Info Data** 01/23/2025

APD ID: 10400094054

Operator Name: COG OPERATING LLC

Well Name: WILD THING FEDERAL COM

Well Type: OIL WELL

Submission Date: 08/24/2023

Highlighted data reflects the most

Well Number: 902H

Well Work Type: Drill

recent changes **Show Final Text**

Bond

Federal/Indian APD: FED

BLM Bond number: NMB000215

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

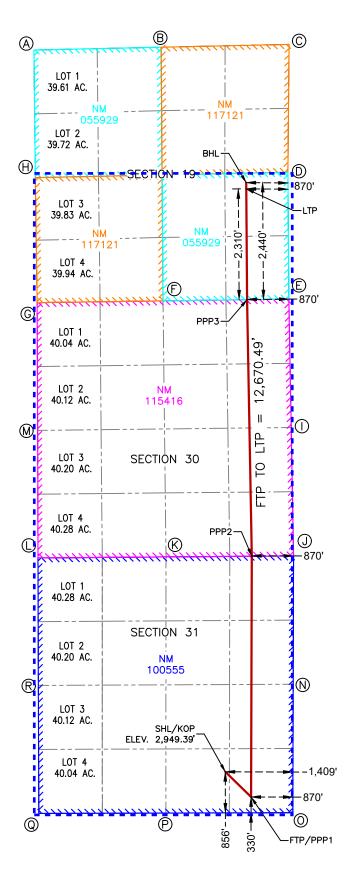
Additional reclamation bond information

C-10)2 Electronicall	W	Er		inerals & Nat	lew Mexico cural Resources Dep ATION DIVISION	partment		Revised July 9, 2024					
	D Permitting	у		OIL (SONOLINA	THOIT DIVIDIOIT		Submitta	☑ Initial Su	ıbmittal				
								Type:	☐ Amende	d Report				
						☐ As Drilled								
			<u>.</u>		WELL LOCA	TION INFORMATION								
API Nu	umber 30-015	56169	Pool Code	98220)	Pool Name Purple Sage; Wolfcamp, Gas								
Proper	ty Code		Property I			Well Number								
	336969	9			WILD TH	NG FEDERAL COM			902H Ground Level Elevation					
OGRIE	O No. 22913	7	Operator	Name	COG	PERATING LLC			-	el Elevation , 949.39'				
	Surface C	wner: Stat	te 🗆 Fee 🛭	☐ Tribal ☑	Federal	Mineral Ov	vner: Stat	e 🗆 Fee	☐ Tribal ☑ Fe	ederal				
					Curt	ace Location								
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Ī.	ongitude	County				
0	31	258	29E	-51	856' FSL		32.081		104.019575	EDDY				
	1			1		M Hole Location			,					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude.	County				
I	19	258	29E		2,440' FS		32.115		104.018051	EDDY				
Dedica	ated Acres	Infill or Defin	ning Well	Defining	y Well API	Overlapping Spacin	g Unit (Y/N)	Consolida	tion Code					
160	1.05	Infill		Pendi	ing 906H	Y Consolidation Code								
Order	Numbers.					Well setbacks are under Common Ownership: ⊠Yes □No								
					Kick (Off Point (KOP)								
UL	Section	Township	Range	Lot	Ft. from N/S		Ft. from E/W Latitude		ongitude.	County				
0	31	25S	29E		856' FSL		32.081		104.019575	EDDY				
						Γake Point (FTP)	02.00							
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W			ongitude.	County				
Р	31	258	29E		330' FSL	870' FEL	32.079	852 -	104.017844	EDDY				
	1				Last 7	I Fake Point (LTP)								
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude.	County				
ı	19	25S	29E		2,310' FS	L 870' FEL	32.114	-680 -	104.018050	EDDY				
Unitize	ed Area or A	rea of Uniform <mark>VI</mark>	n Interest	Spacing	g Unit Type 🔼 F	lorizontal □ Vertical	Grou	nd Floor El	evation: 294	9.39				
OPER	ATOR CER	TIFICATIONS	1			SURVEYOR CERTIF	ICATIONS							
best of that this in the la well at tunlease pooling If this w the con mineral the well	my knowledges organization and including this location ped mineral intorder heretofull is a horizo sent of at least interest in ea	e and belief, and either owns a value proposed urusuant to a column of the column of t	d, if the well is working intere of the pottom hole loc ntract with an eluntary pooling the division. The certify that the owner of a wearget pool or its working in the working the certify that the owner of a wearget pool or its working in the working the certify that the certification is the certification of the cer	a vertical or st or unlease ation or has owner of a v g agreemen his organiza orking intere- formation) in	which any part of		me or under my belief.	DWN ON THIS IN SUPERING IN MEXICO	and that the s	ame is true and				
Signatu	May	te Rey		Date 9/*	19/2024	Signature and Seal of P			рате: 9/13/2	JZ4				
Printed Email A	Ma	yte Reyes		onbilling	n com	Certificate Number	Date of Sur	•	9/13/2024					
Note: N	o allowable		ed to this co	mpletion u		have been consolidated	or a non-star	ndard unit h	as been appro	oved by the divi				

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



SURFACE HOLE LOCATION & KICK-OFF POINT 856' FSL & 1,409' FEL ELEV. = 2,949.39'

NAD 83 X = 638,513.22' NAD 83 Y = 393,454.04' NAD 83 LAT = 32.081296° NAD 83 LONG = -104.019575°

FIRST TAKE POINT & PENETRATION POINT 1 330' FSL & 870' FEL

NAD 83 X = 639,050.76' NAD 83 Y = 392,930.05' NAD 83 LAT = 32.079852° NAD 83 LONG = -104.017844'

PENETRATION POINT 2 0' FSL & 870' FEL

NAD 83 X = 639,065.39' NAD 83 Y = 397,945.50' NAD 83 LAT = 32.093639° NAD 83 LONG = -104.017750°

PENETRATION POINT 3 0' FSL & 870' FEL

NAD 83 X = 638,967.40' NAD 83 Y = 403,289.57' NAD 83 LAT = 32.108330° NAD 83 LONG = -104.018015°

LAST TAKE POINT 2.310' FSL & 870' FEL

NAD 83 X = 638,950.07' NAD 83 Y = 405,599.56' NAD 83 LAT = 32.114680° NAD 83 LONG = -104.018050°

BOTTOM HOLE LOCATION 2,440' FSL & 870' FEL

NAD 83 X = 638,949.10' NAD 83 Y = 405,729.55' NAD 83 LAT = 32.115037° NAD 83 LONG = -104.018051°

C	ORNER COORDINATES
NEV	/ MEXICO EAST - NAD 83
Α	IRON PIPE W/ BRASS CAP
А	N:408,491.76' E:634,527.03'
В	IRON PIPE W/ BRASS CAP
	N:408,550.32' E:637,176.91'
С	IRON PIPE W/ BRASS CAP
<u> </u>	N:408,608.72' E:639,842.20'
D	IRON PIPE W/ BRASS CAP
	N:405,945.03' E:639,817.52'
E	IRON PIPE W/ BRASS CAP
	N:403,301.58' E:639,837.28'
F	IRON PIPE W/ BRASS CAP
<u> </u>	N:403,265.40' E:637,216.41'
G	IRON PIPE W/ BRASS CAP
<u> </u>	N:403,228.52' E:634,593.72'
н	IRON PIPE W/ BRASS CAP
L	N:405,833.10' E:634,556.38'
l ,	IRON PIPE W/ BRASS CAP
<u> </u>	N:400,627.62' E:639,886.49'
J	IRON PIPE W/ BRASS CAP
<u> </u>	N:397,952.39' E:639,935.36'
к	IRON PIPE W/ BRASS CAP
⊢—	N:397,931.36' E:637,278.26'
L	IRON PIPE W/ BRASS CAP
_	N:397,909.72' E:634,611.48'
М	N:400.566.94' E:634.605.07'
⊢	IRON PIPE W/ BRASS CAP
N	N:395.278.43' E:639.928.06'
⊢—	IRON PIPE W/ BRASS CAP
0	N:392.602.51' E:639.919.75'
<u> </u>	IRON PIPE W/ BRASS CAP
Р	N:392.595.01' E:637.274.88'
—	IRON PIPE W/ BRASS CAP
Q	N:392,587.40' E:634,628.88'
⊢	IRON PIPE W/ BRASS CAP
R	N:395,253.80' E:634,619.28'
	N.393,233.00 E:034,019.28

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 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.

Section 1 – Plan Description Effective May 25, 2021

I. Operator: COG Operating LLC OGRID: 229137 Date: 11/11/2024

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 be recompleted from a s					wells proposed to	be dril	lled or proposed to					
Well Name API ULSTR Footages Anticipated Oil BBL/D Gas MCF/D Produced Water BBL/D												
Wild Thing Federal Com 902H	30-015-	O-31-25S-29E	856 FSL & 1409 FEL	± 7723	± 744		± 4671					
V. Anticipated Schedu	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 Completion Date Tompletion Commencement Date Back Date											
Wild Thing Federal Com 902H	Pending	9/16/2024	± 25 days from spud	1/14/2025	1/24/20	025	1/29/2025					
VI. Separation Equipment: ☐ Attach a complete description of how Operator will size separation equipment to optimize gas capture. VII. Operational Practices: ☐ 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.

Deperator 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:

We	ell	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF
/ Notarral Cos Cot	hoving System (NG	200).		
K. Natural Gas Gat	nering System (IVC	iGS):		
Operator System		ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in
	_			

XI. Map. \square 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 [\square will \square will not have	capacity to gather 100	0% of the anticipated r	ıatural gas
production volume from the well prior to the date of first	st production.			

XIII. Line Pressure. Operator \square does \square 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:

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.

Section 3 - Certifications Effective May 25, 2021

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

🗵 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 ☐ 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.

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.

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: power generation on lease; (a) power generation for grid; **(b)** compression on lease; (c) (d) liquids removal on lease: reinjection for underground storage; (e) reinjection for temporary storage; **(f)** reinjection for enhanced oil recovery; (g) fuel cell production; and (h)

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

- (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)

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.

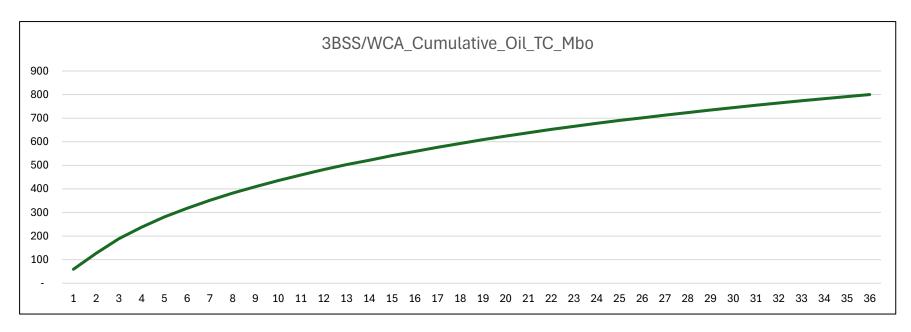
VIII. Best Management Practices

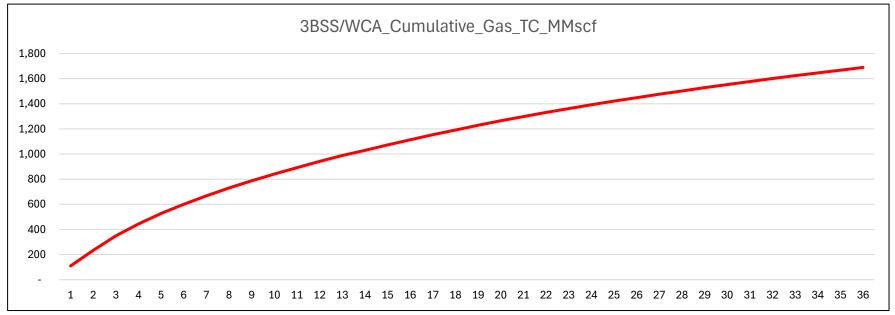
- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize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

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: Mayte Reyes
Printed Name: Mayte Reyes
Title: Sr. Regulatory Coodinator
E-mail Address: mayte.x.reyes@conocophillips.com
Date: 11/11/2024
Phone: 575-748-6945
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Anticipated Production Decline Curve







U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD Print Report
01/23/2025

APD ID: 10400094054

Operator Name: COG OPERATING LLC

Well Name: WILD THING FEDERAL COM

Well Type: OIL WELL

Submission Date: 08/24/2023

Federal/Indian APD: FED

Well Number: 902H

Well Work Type: Drill

Highlighted data reflects the most recent changes Show Final Text

Application

Section 1 - General

APD ID: 10400094054 Tie to previous NOS? N

Submission Date: 08/24/2023

BLM Office: Carlsbad

User: MAYTE REYES

Title: Regulatory Analyst

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM100555

Lease Acres:

Surface access agreement in place?

Allotted? Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Agreement name.

Keep application confidential? YES

Permitting Agent? NO APD Operator: COG OPERATING LLC

State: TX

Operator letter of

Operator Info

Operator Organization Name: COG OPERATING LLC

Operator Address: ONE CONCHO CENTER 600 W ILLINOIS AVENUE

Zip: 79701-4287

Operator PO Box:

Operator City: MIDLAND

Operator Phone: (432)685-4342

Operator Internet Address:

Approval Date: 01/17/2025

Page 1 of 23

Page 2 of 23

Operator Name: COG OPERATING LLC

Well Name: WILD THING FEDERAL COM Well Number: 902H

Section 2 - Well Information

Well in Master Development Plan? NO Master Development Plan name:

Well in Master SUPO? NO Master SUPO name:

Well in Master Drilling Plan? NO Master Drilling Plan name:

Well Name: WILD THING FEDERAL COM Well Number: 902H Well API Number:

Field/Pool or Exploratory? Field and Pool Field Name: PURPLE SAGE Pool Name: WOLFCAMP GAS

Is the proposed well in an area containing other mineral resources? USEABLE WATER

Is the proposed well in a Helium production area? N Use Existing Well Pad? N New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: WILD
THING FEDERAL COM

Number: 501H, 502H, 701H - 705H and 901H - 905H

THING FEDERAL COM 705H and 901H - 905H

Well Class: HORIZONTAL Number of Legs: 1

Well Work Type: Drill

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Well Type: OIL WELL Describe Well Type:

Distance to town: 12 Miles Distance to nearest well: 30 FT Distance to lease line: 360 FT

Reservoir well spacing assigned acres Measurement: 1601.05 Acres

Well plat: COG Wild Thing Fed Com 902H New C102 20241202214554.pdf

Well work start Date: 11/01/2024 Duration: 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 Vertical Datum: NAVD88

Survey number: Reference Datum: GROUND LEVEL

Wellbore
NS-Foot
NS Indicator
EW-Foot
EW Indicator
Twsp
Range
Section
Aliquot/Lot/Tract
Latitude
Longitude
County
State
Meridian
Lease Type
Lease Number
Elevation
MD
TVD
Will this well produce from this

Well Name: WILD THING FEDERAL COM Well Number: 902H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	DVT	Will this well produce from this
SHL Leg #1	856	FSL	140 9	FEL	25S	29E	31	Aliquot SWSE	32.08129 6	- 104.0195 75	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 100555	294 9	0	0	Y
KOP Leg #1	856	FSL	140 9	FEL	25S	29E	31	Aliquot SWSE	32.08129 6	- 104.0195 75	EDD Y	NEW MEXI CO		F	NMNM 100555	294 9	0	0	Υ
PPP Leg #1-1	330	FSL	870	FEL	25S	29E	31	Aliquot SESE	32.07985 2	- 104.0178 44	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 100555	- 767 0	107 98	106 19	Y
PPP Leg #1-2	1	FSL	870	FEL	25S	29E	30	Aliquot SESE	32.09363 9	- 104.0177 5	EDD Y	NEW MEXI CO		F	NMNM 115416	- 775 1	162 34	107 00	Y
EXIT Leg #1	231 0	FSL	870	FEL	25S	29E	19	Aliquot NENE	32.11468	- 104.0180 5	EDD Y		NEW MEXI CO	F	NMNM 55929	- 775 1	234 29	107 00	Y
BHL Leg #1	244 0	FSL	870	FEL	25S	29E	19	Aliquot NENE	32.11503 7	- 104.0180 51	EDD Y	1	NEW MEXI CO	F	NMNM 55929	- 775 1	235 59	107 00	Y

Drilling Plan

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14860357	QUATERNARY	2949	0	0	ALLUVIUM	NONE	N
14860352	RUSTLER	2829	120	120	ANHYDRITE	USEABLE WATER	N
14860353	TOP SALT	2556	393	393	SALT	NONE	N
14860362	BASE OF SALT	354	2595	2595	SALT	NONE	N
14860355	LAMAR	164	2785	2785	LIMESTONE	NONE	N
14860356	BELL CANYON	126	2823	2823	SANDSTONE	NONE	N
14860363	CHERRY CANYON	-723	3672	3672	SANDSTONE	NATURAL GAS, OIL	N

Well Name: WILD THING FEDERAL COM Well Number: 902H

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14860364	BRUSHY CANYON	-2024	4973	4973	SANDSTONE	NATURAL GAS, OIL	N
14860366	BONE SPRING 1ST	-4547	7496	7496	SANDSTONE	NATURAL GAS, OIL	N
14860367	BONE SPRING 2ND	-5164	8113	8113	SANDSTONE	NATURAL GAS, OIL	N
14860359	BONE SPRING 3RD	-6390	9339	9339	SANDSTONE	NATURAL GAS, OIL	N
14860354	WOLFCAMP	-6741	9690	9690	SHALE	NATURAL GAS, OIL	Y
14860374	WOLFCAMP	-6878	9827	9827	SHALE	NATURAL GAS, OIL	N
14860375	WOLFCAMP	-7204	10153	10153	SHALE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M Rating Depth: 10050

Equipment: Annular, Blind Ram, Pipe Ram, Double Ram. The BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

Requesting Variance? YES

Variance request: 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. A variance is requested for use of a multi-bowl wellhead. A variance is requested to allow for break testing during batch drilling.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3170 Subpart 3172 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.

Choke Diagram Attachment:

COG_Wild_Thing_10M_Choke_20241202220350.pdf

BOP Diagram Attachment:

COG_Wild_Thing_10M_BOP_20241202220432.pdf

COG_Wild_Thing_Flex_Hose_Variance_20241202220435.pdf

Pressure Rating (PSI): 5M Rating Depth: 10050

Equipment: Annular, Blind Ram, Pipe Ram, Double Ram. The BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

Requesting Variance? YES

Variance request: 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. 5M Variance is requested. A variance is requested to use a multibowl wellhead.

Approval Date: 01/17/2025 Page 4 of 23

Well Name: WILD THING FEDERAL COM Well Number: 902H

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3170 Subpart 3172 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.

Choke Diagram Attachment:

COG_Wild_Thing_5M_Choke_20241202220058.pdf

BOP Diagram Attachment:

COG_Wild_Thing_5M_BOP_20241202220133.pdf

COG_Wild_Thing_Flex_Hose_Variance_20241202220200.pdf

Section 3 - Casing

_																							
	Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body OF
	1	SURFACE	17.5	10.75	NEW	API	N	0	350	0	350	2949	2599	350	J-55		OTHER - BTC	13.0 5	1.14	DRY	49.9 8	DRY	44
		INTERMED IATE	8.75	7.625	NEW	API	Υ	0	10050	0	10050	3585	-7101	10050	OTH ER		OTHER - W513	1.41	1.72	DRY	2.15	DRY	3.
	-	PRODUCTI ON	6.75	5.5	NEW	API	Y	0	23559	0	10700	3585	-7751	23559	OTH ER		OTHER - W441	1.94	2.26	DRY	2.69	DRY	2.

Casing Attachments

Casing ID: 1 String SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

COG_Wild_Thing_902H_Casing_Program_20241202221619.pdf

Well Name: WILD THING FEDERAL COM Well Number: 902H

Casing Attachments

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

COG_Wild_Thing_902H_Casing_Program_20241202221740.pdf

Casing Design Assumptions and Worksheet(s):

COG_Wild_Thing_902H_Casing_Program_20241202221816.pdf

Casing ID: 3

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

COG_Wild_Thing_902H_Casing_Program_20241202221033.pdf

Casing Design Assumptions and Worksheet(s):

COG_Wild_Thing_902H_Casing_Program_20241202221200.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	350	210	1.75	12.8	367	50	Class C + 4% Gel	1% CaCl2
SURFACE	Tail		350	350	250	1.34	14.8	335	50	Class C + 2% CaCl2	As needed
INTERMEDIATE	Lead		1005 0	1005 0	740	3.3	10.3	2442	50	Halliburton tuned light	As needed
INTERMEDIATE	Tail		1005 0	1005 0	250	1.35	14.8	337	50	Class H	As needed

Operator Name: COG OPERATING LLC Well Name: WILD THING FEDERAL COM Well Number: 902H Cement type Quantity(sx) Stage Tool Depth В ead/Tail Excess% Top MD Bottom Density Yield 芷 $\frac{1}{2}$ **PRODUCTION** 620 1070 2355 1.48 12.5 917 20 Lead: 10:50:10 H As needed Lead 0 9 **Blend**

13.2

1380

20

Tail: 50:50:2

Class H Blend

As needed

Section 5 - Circulating Medium

1070

0

2355

9

Mud System Type: Closed

PRODUCTION

Will an air or gas system be Used? NO

Tail

Description of the equipment for the circulating system in accordance with Onshore Order #2:

1030

1.34

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
350	1005 0	OTHER : Diesel Brine Emulsion	8.4	10							Diesel Brine Emulsion
1005 0	2355 9	OIL-BASED MUD	9.6	13.5							ОВМ
0	350	OTHER : Fresh water gel	8.6	8.8							Fresh water gel

Approval Date: 01/17/2025

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Well Name: WILD THING FEDERAL COM Well Number: 902H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

None planned

List of open and cased hole logs run in the well:

CEMENT BOND LOG, COMPENSATED NEUTRON LOG, GAMMA RAY LOG,

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7515 Anticipated Surface Pressure: 5160

Anticipated Bottom Hole Temperature(F): 165

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

COG_Wild_Thing_H2S_Schem_20241202222727.pdf COG_Wild_Thing_H2S_SUP_20241202222728.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

COG_Wild_Thing_902H_AC_Report_20241202222824.pdf
COG_Wild_Thing_902H_Directional_Plan_20241202222824.pdf

Other proposed operations facets description:

Drilling Plan attached. GCP attached. Cement Plan attached.

Other proposed operations facets attachment:

API_BTC_7.625_0.375_L80_ICY_04112022_20241202222926.pdf
COG_Wild_Thing_902H_Drilling_Program_20241202222926.pdf
API_STC_13.375_0.380_J55_Casing_01172023_20241202222931.pdf
API_BTC_9.625_0.395_L80_Type_1_01172023_20241202222931.pdf
COG_Wild_Thing_902H_Casing_Program_20241202222931.pdf
COG_Wild_Thing_902H_Cement_Program_20241202222931.pdf
TXP_BTC_5.500_0.415_P110_CY_09212021_20241202222931.pdf

Well Name: WILD THING FEDERAL COM Well Number: 902H

COG_Wild_Thing_902H_GCP_20241202222932.pdf

Wedge_441_5.500_0.415_P110_CY_09212021_20241202222933.pdf Wedge_513_7.625_0.375_P110_ICY_04112022_20241202222933.pdf

Other Variance attachment:

COG_6.75_5M_Variance_WCP_20230621084732.pdf

SUPO

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

COG_Wild_Thing_Existing_Road_20241202223111.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? YES

Existing Road Improvement Description: Existing roads will be maintained in the same condition or better.

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

 $COG_Wild_Thing_Federal_Com_Access_Roads_20241202223135.pdf$

New road type: RESOURCE

Length: 649.12 Feet **Width (ft.):** 30

Max slope (%): 33 Max grade (%): 1

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s): New road travel width: 20

New road access erosion control: Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns.

New road access plan or profile prepared? N

New road access plan

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Well Name: WILD THING FEDERAL COM Well Number: 902H

Access road engineering design? N

Access road engineering design

Turnout? N

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: Blading

Access other construction information: No turnouts are planned.

Access miscellaneous information:

Number of access turnouts: Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: None necessary

Road Drainage Control Structures (DCS) description: None needed.

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

COG_Wild_Thing_902H_1_Mile_Data_20241202223214.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Wild Thing Federal CTBs. These CTBs will be built to accommodate the Wild Thing Fed Com #501H, #502, #503, #504, #701, #702,#703,#704, #705,#706, #707,#708,#709, #710, #901, #902,#903,#904, #905,#906, #907,#908,#909, #910. We plan to install (1) buried 6 FP 601HT production flowline with MAWP of 1500 psi from each wellhead to the inlet manifold of the proposed CTB (24 lines total); the route for these flowlines will follow the flowlines route as shown in the diagram below. We will install (1) buried 6 gas line for gas lift supply with MAWP of 1500 psi from the CTB to the well pad; the route for the gas lift line will follow the gas lift route as shown in layout below. We will install (1)

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Well Name: WILD THING FEDERAL COM Well Number: 902H

buried 6 liquid return line with MAWP of 1500 psi for compressor liquids from the CTB to the well pad; the route for the liquid return lines will follow the liquid return route as shown in layout.

Production Facilities map:

COG_Wild_Thing_East_Pad_CTB_20241202223302.pdf

COG_Wild_Thing_East_Pad_Layout_20241202223306.pdf

COG_Wild_Thing_Federal_Com_Flowlines_20241202223306.pdf

COG_Wild_Thing_Federal_Com_Powerlines_20241202223307.pdf

COG_Wild_Thing_Federal_Com_SS_20241202223307.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: OTHER

Describe type: Brine Water

Water source use type: INTERMEDIATE/PRODUCTION

CASING

Source latitude: Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Water source transport method: TRUCKING

Source land ownership: COMMERCIAL

Source transportation land ownership: COMMERCIAL

Water source volume (barrels): 30000 Source volume (acre-feet): 3.866793

Source volume (gal): 1260000

Water source type: OTHER

Describe type: Fresh Water

Water source use type: SURFACE CASING

STIMULATION

ICE PAD CONSTRUCTION &

MAINTENANCE

Source latitude: Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

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Well Name: WILD THING FEDERAL COM Well Number: 902H

Water source transport method:

PIPELINE

Source land ownership: PRIVATE

Source transportation land ownership: PRIVATE

Water source volume (barrels): 450000 Source volume (acre-feet): 58.001892

Source volume (gal): 18900000

Water source and transportation

COG_Wild_Thing_Brine_H2O_Map_20230818162928.pdf

COG_Wild_Thing_H2O_Map_20230818162929.pdf

Water source comments: See attached maps

New water well? N

New Water Well Info

Well latitude: Well Longitude: Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft): Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft): Well casing type:

Well casing outside diameter (in.): Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method: Drill material:

Grout material: Grout depth:

Casing length (ft.): Casing top depth (ft.):

Well Production type: Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Well Name: WILD THING FEDERAL COM Well Number: 902H

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Caliche will be obtained from the actual well site. If caliche does not exist or is not plentiful from the well site, the caliche source will be from the MEC caliche pit located in Sec 34. T25S. R29E. SESE

Construction Materials source location

Section 7 - Methods for Handling

Waste type: DRILLING

Waste content description: Drilling fluids and produced oil land water while drilling and completion operations

Amount of waste: 6000 barrels

Waste disposal frequency: One Time Only

Safe containment description: All drilling waste will be stored safely and disposed of properly

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: Trucked to an approved disposal facility

Waste type: SEWAGE

Waste content description: Human waste and gray water

Amount of waste: 1000 gallons

Waste disposal frequency: One Time Only

Safe containment description: Waste will be properly contained and disposed of properly at a state approved disposal

facility.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE

FACILITY

Disposal type description:

Disposal location description: Trucked to an approved disposal facility

Waste type: GARBAGE

Waste content description: Garbage and trash produced during drilling and completion operations.

Amount of waste: 500 pounds

Waste disposal frequency: One Time Only

Safe containment description: Garbage and trash produced during drilling and completion operations will be collected in a

trash container and disposed of properly at a state approved disposal facility

Safe containment attachment:

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Well Name: WILD THING FEDERAL COM Well Number: 902H

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: Trucked to an approved disposal facility.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

Description of cuttings location Roll off cutting containers on tracks

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments: Gas Capture Plan attached

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Well Name: WILD THING FEDERAL COM Well Number: 902H

Section 9 - Well Site

Well Site Layout Diagram:

COG_Wild_Thing_East_Pad_Layout_20241202223401.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: WILD THING FEDERAL COM

Multiple Well Pad Number: 501H, 502H, 701H - 705H and 901H -

905H

Recontouring

COG_Wild_Thing_East_Layout_Reclamation_20230818163900.pdf COG Wild Thing East Layout Reclamation 20230818164711.pdf

Drainage/Erosion control construction: Proper erosion control methods will be used at the well site to control erosion, runoff, and siltation of the surrounding area. Straw waddles will be used as necessary at the well site to reduce sediment impacts to fragile/sensitive soils.

Drainage/Erosion control reclamation: The wellsite drainage will be monitored periodically to ensure that vegetation has re-established in unused areas of the pad and that erosion is controlled.

Well pad proposed disturbance

(acres): 9.55

Road proposed disturbance (acres):

0.45

Powerline proposed disturbance

(acres): 1.83

Pipeline proposed disturbance

(acres): 3.88

Other proposed disturbance (acres):

5.74

Total proposed disturbance:

Well pad interim reclamation (acres):

Road interim reclamation (acres): 0

Powerline interim reclamation (acres): Powerline long term disturbance

Pipeline interim reclamation (acres): 0

Other interim reclamation (acres): 0

Total interim reclamation: 0.23

Well pad long term disturbance

(acres): 8.99

Road long term disturbance (acres): 0.45

(acres): 1.83

Pipeline long term disturbance

(acres): 3.88

Other long term disturbance (acres):

5.74

Total long term disturbance: 20.89

Disturbance Comments: IR West, South.

Reconstruction method: If needed, portions of the pad not needed for production operations will be re-contoured to its original state as much as possible. The caliche that is removed will be reused. The stockpiled topsoil will be spread out over reclaimed area and reseeded with BLM approved seed mixture.

Topsoil redistribution: Southwest, South.

Soil treatment: None

21.4500000000000003

Existing Vegetation at the well pad: Shinnery Oak/Mesquite grassland

Existing Vegetation at the well pad

Existing Vegetation Community at the road: Shinnery Oak/Mesquite grassland

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Operator Name: COG OPERATING LLC Well Name: WILD THING FEDERAL COM Well Number: 902H **Existing Vegetation Community at the road** Existing Vegetation Community at the pipeline: Shinnery Oak/Mesquite grassland **Existing Vegetation Community at the pipeline** Existing Vegetation Community at other disturbances: N/A **Existing Vegetation Community at other disturbances** Non native seed used? N Non native seed description: Seedling transplant description: Will seedlings be transplanted for this project? N Seedling transplant description Will seed be harvested for use in site reclamation? N Seed harvest description: Seed harvest description attachment: Seed **Seed Table** Total pounds/Acre: **Seed Summary** Pounds/Acre Seed Type Seed reclamation **Operator Contact/Responsible Official First Name: Last Name:** Email: Phone: Seedbed prep: Seed BMP: Seed method:

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Existing invasive species treatment description:

Existing invasive species? N

Well Name: WILD THING FEDERAL COM Well Number: 902H

Existing invasive species treatment

Weed treatment plan description: COP will maintain well pad and CTB with chemical treatment as necessary.

Weed treatment plan

Monitoring plan description: N/A

Monitoring plan

Success standards: N/A

Pit closure description: N/A

Pit closure attachment:

COG_Wild_Thing_Closed_Loop_20241202223730.pdf

Section 11 - Surface Ownership

Disturbance type: EXISTING ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: USFS Ranger District:

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Received by OCD: 1/23/2025 2:28:26 PM Operator Name: COG OPERATING LLC Well Name: WILD THING FEDERAL COM Well Number: 902H Disturbance type: WELL PAD Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: **BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: Military Local Office: USFWS Local Office:** Other Local Office: **USFS** Region: **USFS Forest/Grassland: USFS Ranger District:** Section 12 - Other Right of Way needed? N Use APD as ROW? ROW Type(s): **ROW**

SUPO Additional Information: Federal Surface. SUP attached. On-site was done by Gerald Herrera (COG); Zane Kirsch (BLM); on May 2nd, 2023.

Use a previously conducted onsite? N

Previous Onsite information:

Other SUPO

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Well Name: WILD THING FEDERAL COM Well Number: 902H

COG_Wild_Thing_Brine_H2O_Map_20230818165107.pdf

COG_Wild_Thing_H2O_Map_20230818165108.pdf

COG_Wild_Thing_902H_1_Mile_Data_20241202223920.pdf

COG_Wild_Thing_East_Pad_CTB_20241202223925.pdf

COG_Wild_Thing_East_Pad_Reclamation_20241202223925.pdf

 $COG_Wild_Thing_Fed_Com_902H_New_C102_20241202223925.pdf$

COG_Wild_Thing_East_Pad_Layout_20241202223925.pdf

COG_Wild_Thing_Federal_Com_Flowlines_20241202223926.pdf

COG_Wild_Thing_Federal_Com_Access_Roads_20241202223927.pdf

COG_Wild_Thing_Closed_Loop_20241202223928.pdf

COG_Wild_Thing_Federal_Com_Powerlines_20241202223929.pdf

COG_Wild_Thing_Federal_Com_SS_20241202223929.pdf

COG_Wild_Thing_Existing_Road_20241202224001.pdf

PWD

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

PWD surface owner:

Pit liner manufacturers

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Well Name: WILD THING FEDERAL COM Well Number: 902H

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Lined pit Monitor description:

Lined pit Monitor

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Well Name: WILD THING FEDERAL COM Well Number: 902H

Unlined pit Monitor

Do you propose to put the produced water to beneficial use?

Beneficial use user

Estimated depth of the shallowest aguifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic

State

Unlined Produced Water Pit Estimated

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

Section 4 -

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number: Injection well name:

Assigned injection well API number? Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection

Underground Injection Control (UIC) Permit?

UIC Permit

Section 5 - Surface

Would you like to utilize Surface Discharge PWD options? N

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Well Name: WILD THING FEDERAL COM Well Number: 902H

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements

Bond Info

Bond

Federal/Indian APD: FED

BLM Bond number: NMB000215

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information

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Well Name: WILD THING FEDERAL COM Well Number: 902H

Operator Certification

Payment Info

Payment

APD Fee Payment Method: PAY.GOV pay.gov Tracking ID: 277BGOTF



U.S. Department of the Interior **BUREAU OF LAND MANAGEMENT** Application Data

Submission Date: 08/24/2023

Highlighted data reflects the most recent changes

Show Final Text

Operator Name: COG OPERATING LLC

Well Name: WILD THING FEDERAL COM

Well Type: OIL WELL

APD ID: 10400094054

Well Number: 902H Well Work Type: Drill

Section 1 - General

APD ID: 10400094054 Tie to previous NOS? N Submission Date: 08/24/2023

BLM Office: Carlsbad

User: MAYTE REYES

Title: Regulatory Analyst

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM100555

Surface access agreement in place?

Lease Acres:

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Operator letter of

Keep application confidential? YES

Permitting Agent? NO

APD Operator: COG OPERATING LLC

Operator Info

Operator Organization Name: COG OPERATING LLC

Operator Address: ONE CONCHO CENTER 600 W ILLINOIS AVENUE

Operator PO Box:

Zip: 79701-4287

Operator City: MIDLAND

State: TX

Operator Phone: (432)685-4342

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO **Master Development Plan name:**

Well in Master SUPO? NO Master SUPO name:

Well in Master Drilling Plan? NO Master Drilling Plan name:

Well Name: WILD THING FEDERAL COM Well Number: 902H Well API Number:

Field/Pool or Exploratory? Field and Pool Field Name: PURPLE SAGE Pool Name: WOLFCAMP GAS

Well Name: WILD THING FEDERAL COM Well Number: 902H

Is the proposed well in an area containing other mineral resources? USEABLE WATER

Is the proposed well in a Helium production area? N Use Existing Well Pad? N New surface disturbance?

Multiple Well Pad Name: WILD Type of Well Pad: MULTIPLE WELL Number: 501H, 502H, 701H -THING FEDERAL COM

705H and 901H - 905H

Well Class: HORIZONTAL Number of Legs: 1

Well Work Type: Drill Well Type: OIL WELL

Describe Well Type:

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to nearest well: 30 FT Distance to lease line: 360 FT Distance to town: 12 Miles

Reservoir well spacing assigned acres Measurement: 1601.05 Acres

Well plat: COG_Wild_Thing_Fed_Com_902H_New_C102_20241202214554.pdf

Well work start Date: 11/01/2024 **Duration: 30 DAYS**

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 Vertical Datum: NAVD88

Reference Datum: GROUND LEVEL Survey number:

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL	856	FSL	140	FEL	25S	29E	31	Aliquot	32.08129	-	EDD	NEW		F	NMNM	294	0	0	Υ
Leg			9					SWSE	6	104.0195	Υ	MEXI	MEXI		100555	9			
#1										75		СО	СО						
KOP	856	FSL	140	FEL	25S	29E	31	Aliquot	32.08129		EDD		NEW	F	MMMM	294	0	0	Υ
Leg			9					SWSE	6	104.0195	Υ	MEXI	MEXI		100555	9			
#1										75		СО	СО						
PPP	330	FSL	870	FEL	25S	29E	31	Aliquot	32.07985		EDD		NEW	F	NMNM	-	107	106	Υ
Leg								SESE	2	104.0178	Υ	MEXI	MEXI		100555	767	98	19	
#1-1										44		СО	СО			U			

Well Name: WILD THING FEDERAL COM Well Number: 902H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
PPP Leg #1-2	1	FSL	870	FEL	25S	29E	30	Aliquot SESE	32.09363 9	- 104.0177 5	EDD Y		NEW MEXI CO	F	NMNM 115416	- 775 1	162 34	107 00	Υ
EXIT Leg #1	231 0	FSL	870	FEL	25S	29E		Aliquot NENE	32.11468	- 104.0180 5	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMNM 55929		234 29	107 00	Υ
BHL Leg #1	244 0	FSL	870	FEL	25S	29E	. •	Aliquot NENE	32.11503 7	- 104.0180 51	EDD Y		NEW MEXI CO	F	NMNM 55929	- 775 1	235 59	107 00	Y



U.S. Department of the Interior **BUREAU OF LAND MANAGEMENT**

Drilling Plan Data Report

01/23/2025

APD ID: 10400094054

Submission Date: 08/24/2023

Highlighted data reflects the most recent changes

Operator Name: COG OPERATING LLC

Well Name: WILD THING FEDERAL COM

Well Number: 902H

Well Type: OIL WELL

Well Work Type: Drill

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
14860357	QUATERNARY	2949	0	0	ALLUVIUM	NONE	N
14860352	RUSTLER	2829	120	120	ANHYDRITE	USEABLE WATER	N
14860353	TOP SALT	2556	393	393	SALT	NONE	N
14860362	BASE OF SALT	354	2595	2595	SALT	NONE	N
14860355	LAMAR	164	2785	2785	LIMESTONE	NONE	N
14860356	BELL CANYON	126	2823	2823	SANDSTONE	NONE	N
14860363	CHERRY CANYON	-723	3672	3672	SANDSTONE	NATURAL GAS, OIL	N
14860364	BRUSHY CANYON	-2024	4973	4973	SANDSTONE	NATURAL GAS, OIL	N
14860366	BONE SPRING 1ST	-4547	7496	7496	SANDSTONE	NATURAL GAS, OIL	N
14860367	BONE SPRING 2ND	-5164	8113	8113	SANDSTONE	NATURAL GAS, OIL	N
14860359	BONE SPRING 3RD	-6390	9339	9339	SANDSTONE	NATURAL GAS, OIL	N
14860354	WOLFCAMP	-6741	9690	9690	SHALE	NATURAL GAS, OIL	Y
14860374	WOLFCAMP	-6878	9827	9827	SHALE	NATURAL GAS, OIL	N
14860375	WOLFCAMP	-7204	10153	10153	SHALE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention

Well Name: WILD THING FEDERAL COM Well Number: 902H

Pressure Rating (PSI): 10M Rating Depth: 10050

Equipment: Annular, Blind Ram, Pipe Ram, Double Ram. The BOP equipment will include a Kelly cock and floor safety

valve (inside BOP) and choke lines and choke manifold.

Requesting Variance? YES

Variance request: 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. A variance is requested for use of a multi-bowl wellhead. A variance is requested to allow for break testing during batch drilling.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3170 Subpart 3172 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.

Choke Diagram Attachment:

COG_Wild_Thing_10M_Choke_20241202220350.pdf

BOP Diagram Attachment:

COG Wild Thing 10M BOP 20241202220432.pdf

COG_Wild_Thing_Flex_Hose_Variance_20241202220435.pdf

Pressure Rating (PSI): 5M Rating Depth: 10050

Equipment: Annular, Blind Ram, Pipe Ram, Double Ram. The BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold.

Requesting Variance? YES

Variance request: 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. 5M Variance is requested. A variance is requested to use a multibowl wellhead.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3170 Subpart 3172 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.

Choke Diagram Attachment:

COG_Wild_Thing_5M_Choke_20241202220058.pdf

BOP Diagram Attachment:

COG_Wild_Thing_5M_BOP_20241202220133.pdf

COG_Wild_Thing_Flex_Hose_Variance_20241202220200.pdf

Well Name: WILD THING FEDERAL COM Well Number: 902H

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	10.75	NEW	API	N	0	350	0	350	2949	2599	350	J-55		OTHER - BTC	13.0 5	1.14	DRY	49.9 8	DRY	44.9
2	INTERMED IATE	8.75	7.625	NEW	API	Υ	0	10050	0	10050	3585	-7101		OTH ER		OTHER - W513	1.41	1.72	DRY	2.15	DRY	3.58
3	PRODUCTI ON	6.75	5.5	NEW	API	Υ	0	23559	0	10700	3585	-7751	23559	OTH ER		OTHER - W441	1.94	2.26	DRY	2.69	DRY	2.96

Casing Attachments

Casing ID: 1 String SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

COG_Wild_Thing_902H_Casing_Program_20241202221619.pdf

Well Name: WILD THING FEDERAL COM Well Number: 902H

Casing Attachments

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

COG_Wild_Thing_902H_Casing_Program_20241202221740.pdf

Casing Design Assumptions and Worksheet(s):

 $COG_Wild_Thing_902H_Casing_Program_20241202221816.pdf$

Casing ID: 3

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

COG_Wild_Thing_902H_Casing_Program_20241202221033.pdf

Casing Design Assumptions and Worksheet(s):

COG_Wild_Thing_902H_Casing_Program_20241202221200.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
		S									,
SURFACE	Lead		0	350	210	1.75	12.8	367	50	Class C + 4% Gel	1% CaCl2
SURFACE	Tail		350	350	250	1.34	14.8	335	50	Class C + 2% CaCl2	As needed
INTERMEDIATE	Lead		1005 0	1005 0	740	3.3	10.3	2442	50	Halliburton tuned light	As needed
INTERMEDIATE	Tail		1005 0	1005 0	250	1.35	14.8	337	50	Class H	As needed
PRODUCTION	Lead		1070 0	2355 9	620	1.48	12.5	917	20	Lead: 10:50:10 H Blend	As needed

Well Name: WILD THING FEDERAL COM Well Number: 902H

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		1070 0	2355 9	1030	1.34	13.2	1380	20	Tail: 50:50:2 Class H Blend	As needed

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
350	1005 0	OTHER : Diesel Brine Emulsion	8.4	10							Diesel Brine Emulsion
1005 0	2355	OIL-BASED MUD	9.6	13.5							ОВМ
0	350	OTHER : Fresh water gel	8.6	8.8							Fresh water gel

Well Name: WILD THING FEDERAL COM Well Number: 902H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

None planned

List of open and cased hole logs run in the well:

CEMENT BOND LOG, COMPENSATED NEUTRON LOG, GAMMA RAY LOG,

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7515 Anticipated Surface Pressure: 5160

Anticipated Bottom Hole Temperature(F): 165

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

COG_Wild_Thing_H2S_Schem_20241202222727.pdf COG_Wild_Thing_H2S_SUP_20241202222728.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

COG_Wild_Thing_902H_AC_Report_20241202222824.pdf COG_Wild_Thing_902H_Directional_Plan_20241202222824.pdf

Other proposed operations facets description:

Drilling Plan attached. GCP attached. Cement Plan attached.

Other proposed operations facets attachment:

API_BTC_7.625_0.375_L80_ICY_04112022_20241202222926.pdf
COG_Wild_Thing_902H_Drilling_Program_20241202222926.pdf
API_STC_13.375_0.380_J55_Casing_01172023_20241202222931.pdf
API_BTC_9.625_0.395_L80_Type_1_01172023_20241202222931.pdf
COG_Wild_Thing_902H_Casing_Program_20241202222931.pdf
COG_Wild_Thing_902H_Cement_Program_20241202222931.pdf
TXP_BTC_5.500_0.415_P110_CY_09212021_20241202222931.pdf
COG_Wild_Thing_902H_GCP_20241202222932.pdf

Well Name: WILD THING FEDERAL COM Well Number: 902H

Wedge_441_5.500_0.415_P110_CY_09212021_20241202222933.pdf Wedge_513_7.625_0.375_P110_ICY_04112022_20241202222933.pdf

Other Variance attachment:

COG_6.75_5M_Variance_WCP_20230621084732.pdf

DELAWARE BASIN WEST

ATLAS PROSPECT (DBW)
WILD THING PROJECT
_WILD THING FED COM 902H - Slot 902H

OWB

Plan: PWP0

Standard Planning Report

09 October, 2024

Planning Report

TVD Reference:

MD Reference:

North Reference:

Database: EDT 17 Permian Prod

DELAWARE BASIN WEST ATLAS PROSPECT (DBW) WILD THING PROJECT

Well: _WILD THING FED COM 902H
Wellbore: OWB

Wellbore: OWB Design: PWP0

Company:

Project:

Site:

Local Co-ordinate Reference:

Survey Calculation Method:

Well _WILD THING FED COM 902H - Slot

902H

GL @ 2940.0usft GL @ 2940.0usft

Grid

Minimum Curvature

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	4/11/2023	6.61	59.66	47,408.60598718

Design	PWP0				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:		Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
		0.0	0.0	0.0	2.13

 Plan Survey Tool Program
 Date 10/9/2024

 Depth From (usft)
 Depth To (usft)
 Survey (Wellbore)
 Tool Name
 Remarks

 1
 0.0
 23,559.2
 PWP0 (OWB)
 r.5 MWD+IFR1+MS

OWSG MWD + IFR1 + Multi-St

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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,733.3	11.00	144.20	1,728.8	-56.9	41.1	1.50	1.50	0.00	144.20	
5,106.5	11.00	144.20	5,040.0	-578.9	417.5	0.00	0.00	0.00	0.00	
7,306.5	0.00	0.00	7,226.5	-749.7	540.7	0.50	-0.50	0.00	180.00	
10,207.0	0.00	0.00	10,127.0	-749.7	540.7	0.00	0.00	0.00	0.00	
11,107.0	90.00	359.63	10,700.0	-176.8	537.0	10.00	10.00	-0.04	359.63	
23,559.2	90.00	359.63	10,700.0	12,275.2	455.9	0.00	0.00	0.00	0.00	PBHL (WILD THING

Planning Report

Database: EDT 17 Permian Prod

Company: DELAWARE BASIN WEST
Project: ATLAS PROSPECT (DBW)
Site: WILD THING PROJECT
Well: _WILD THING FED COM 902H

Wellbore: OWB
Design: PWP0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well _WILD THING FED COM 902H - Slot

902H

GL @ 2940.0usft GL @ 2940.0usft

Grid

esign:	PWP0								
lanned 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
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
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	1.50	144.20	1,100.0	-1.1	0.8	-1.0	1.50	1.50	0.00
1,200.0	3.00	144.20	1,199.9	-4.2	3.1	-4.1	1.50	1.50	0.00
1,300.0	4.50	144.20	1,299.7	-9.6	6.9	-9.3	1.50	1.50	0.00
1,400.0	6.00	144.20	1,399.3	-9.0 -17.0	12.2	-9.5 -16.5	1.50	1.50	0.00
1,500.0	7.50	144.20	1,498.6	-26.5	19.1	-25.8	1.50	1.50	0.00
1,600.0	9.00	144.20	1,597.5	-38.1	27.5	-37.1	1.50	1.50	0.00
1,700.0	10.50	144.20	1,696.1	-51.9	37.4	-50.5	1.50	1.50	0.00
1,733.3	11.00	144.20	1,728.8	-56.9	41.1	-55.4	1.50	1.50	0.00
1,800.0	11.00	144.20	1,794.3	-67.2	48.5	-65.4	0.00	0.00	0.00
1,900.0	11.00	144.20	1,892.4	-82.7	59.7	-80.4	0.00	0.00	0.00
2,000.0	11.00	144.20	1,990.6	-98.2	70.8	-95.5	0.00	0.00	0.00
2,100.0	11.00	144.20	2,088.8	-113.7	82.0	-110.5	0.00	0.00	0.00
2,200.0	11.00	144.20	2,186.9	-129.1	93.1	-125.6	0.00	0.00	0.00
2,300.0	11.00	144.20	2,285.1	-144.6	104.3	-140.6	0.00	0.00	0.00
0.400.0	44.00	444.00		100.1	445.5	455.7	0.00	0.00	0.00
2,400.0	11.00	144.20	2,383.3	-160.1	115.5	-155.7	0.00	0.00	0.00
2,500.0	11.00	144.20	2,481.4	-175.6	126.6	-170.7	0.00	0.00	0.00
2,600.0	11.00	144.20	2,579.6	-191.0	137.8	-185.8	0.00	0.00	0.00
2,700.0	11.00	144.20	2,677.7	-206.5	148.9	-200.8	0.00	0.00	0.00
2,800.0	11.00	144.20	2,775.9	-222.0	160.1	-215.9	0.00	0.00	0.00
2,900.0	11.00	144.20	2,874.1	-237.5	171.3	-231.0	0.00	0.00	0.00
		144.20	2,972.2	-252.9	182.4		0.00	0.00	
3,000.0	11.00					-246.0			0.00
3,100.0	11.00	144.20	3,070.4	-268.4	193.6	-261.1	0.00	0.00	0.00
3,200.0	11.00	144.20	3,168.6	-283.9	204.8	-276.1	0.00	0.00	0.00
3,300.0	11.00	144.20	3,266.7	-299.4	215.9	-291.2	0.00	0.00	0.00
3,400.0	11.00	144.20	3,364.9	-314.9	227.1	-306.2	0.00	0.00	0.00
3,500.0	11.00	144.20	3,463.0	-330.3	238.2	-321.3	0.00	0.00	0.00
3,600.0	11.00	144.20	3,561.2	-345.8	249.4	-336.3	0.00	0.00	0.00
			,			-350.3 -351.4			
3,700.0 3,800.0	11.00 11.00	144.20 144.20	3,659.4 3,757.5	-361.3 -376.8	260.6 271.7	-351.4 -366.4	0.00 0.00	0.00 0.00	0.00 0.00
3,900.0	11.00	144.20	3,855.7	-392.2	282.9	-381.5	0.00	0.00	0.00
4,000.0	11.00	144.20	3,953.9	-407.7	294.0	-396.5	0.00	0.00	0.00
4,100.0	11.00	144.20	4,052.0	-423.2	305.2	-411.6	0.00	0.00	0.00
4,200.0	11.00	144.20	4,150.2	-438.7	316.4	-426.6	0.00	0.00	0.00
4,300.0	11.00	144.20	4,248.3	-454.1	327.5	-441.7	0.00	0.00	0.00
4,400.0	11.00	144.20	4,346.5	-469.6	338.7	-456.7	0.00	0.00	0.00
4,500.0	11.00	144.20	4,444.7	-485.1	349.9	-471.8	0.00	0.00	0.00
4,600.0	11.00	144.20	4,542.8	-500.6	361.0	-486.8	0.00	0.00	0.00
4,700.0	11.00	144.20	4,641.0	-516.0	372.2	-501.9	0.00	0.00	0.00
4,800.0	11.00	144.20	4,739.2	-531.5	383.3	-516.9	0.00	0.00	0.00
4,900.0		144.20	4,837.3				0.00	0.00	0.00
	11.00			-547.0	394.5	-532.0			
5,000.0	11.00	144.20	4,935.5	-562.5	405.7	-547.0	0.00	0.00	0.00
5,106.5	11.00	144.20	5,040.0	-578.9	417.5	-563.0	0.00	0.00	0.00

Planning Report

Database: EDT 17 Permian Prod

Company: DELAWARE BASIN WEST
Project: ATLAS PROSPECT (DBW)
Site: WILD THING PROJECT
Well: _WILD THING FED COM 902H

Wellbore: OWB
Design: PWP0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well _WILD THING FED COM 902H - Slot

902H

GL @ 2940.0usft GL @ 2940.0usft

Grid

esign:	PWP0								
anned 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)
5,200.0	10.53	144.20	5,131.9	-593.1	427.8	-576.8	0.50	-0.50	0.00
5,300.0	10.03	144.20	5,230.3	-607.6	438.2	-590.9	0.50	-0.50	0.00
5,400.0	9.53	144.20	5,328.8	-621.4	448.1	-604.3	0.50	-0.50	0.00
5,500.0	9.03	144.20	5,427.5	-621.4 -634.5	457.6	-617.0	0.50	-0.50	0.00
5,600.0	8.53	144.20	5,526.3	-646.8	466.5	-629.1	0.50	-0.50	0.00
5,700.0	8.03	144.20	5,625.3	-658.5	474.9	-640.4	0.50	-0.50	0.00
5,800.0	7.53	144.20	5,724.4	-669.5	482.9	-651.1	0.50	-0.50	0.00
5,900.0	7.03	144.20	5,823.6	-679.8	490.3	-661.1	0.50	-0.50	0.00
6,000.0	6.53	144.20	5,922.9	-689.4	497.2	-670.4	0.50	-0.50	0.00
6,100.0	6.03	144.20	6,022.3	-698.2	503.6	-679.1	0.50	-0.50	0.00
6,200.0	5.53	144.20 144.20	6,121.8	-706.4	509.5	-687.0	0.50	-0.50 -0.50	0.00
6,300.0	5.03	144.20	6,221.3	-713.9	514.9	-694.3	0.50	-0.50	0.00
6,400.0	4.53	144.20	6,321.0	-720.6	519.7	-700.9	0.50	-0.50	0.00
6,500.0	4.03	144.20	6,420.7	-726.7	524.1	-706.7	0.50	-0.50	0.00
6,600.0	3.53	144.20	6,520.5	-732.0	528.0	-711.9	0.50	-0.50	0.00
6,700.0	3.03	144.20	6,620.3	-736.7	531.3	-716.5	0.50	-0.50	0.00
6,800.0	2.53	144.20	6,720.2	-740.6	534.2	-720.3	0.50	-0.50	0.00
6,900.0	2.03	144.20	6,820.1	-743.9	536.5	-723.4	0.50	-0.50	0.00
7,000.0	1.53	144.20	6,920.1	-746.4	538.3	-725.9	0.50	-0.50	0.00
7,100.0	1.03	144.20	7,020.1	-748.2	539.6	-727.6	0.50	-0.50	0.00
7,200.0	0.53	144.20	7,120.0	-749.3	540.4	-728.7	0.50	-0.50	0.00
7,306.5	0.00	0.00	7,226.5	-749.7	540.7	-729.1	0.50	-0.50	0.00
7,400.0	0.00	0.00	7,320.0	-749.7	540.7	-729.1	0.00	0.00	0.00
7,500.0	0.00	0.00	7,420.0	-749.7	540.7	-729.1	0.00	0.00	0.00
7,600.0	0.00	0.00	7,520.0	-749.7 -749.7	540.7	-729.1 -729.1	0.00	0.00	0.00
7,700.0	0.00	0.00	7,620.0	-749.7	540.7	-729.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,720.0	-749.7	540.7	-729.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,820.0	-749.7	540.7	-729.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,920.0	-749.7	540.7	-729.1	0.00	0.00	0.00
8,100.0	0.00	0.00	8,020.0	-749.7	540.7	-729.1	0.00	0.00	0.00
8,200.0 8,300.0	0.00 0.00	0.00 0.00	8,120.0 8,220.0	-749.7 -749.7	540.7 540.7	-729.1 -729.1	0.00 0.00	0.00 0.00	0.00 0.00
	0.00	0.00		-749.7	540.7			0.00	0.00
8,400.0	0.00	0.00	8,320.0	-749.7	540.7	-729.1	0.00	0.00	0.00
8,500.0	0.00	0.00	8,420.0	-749.7	540.7	-729.1	0.00	0.00	0.00
8,600.0	0.00	0.00	8,520.0	-749.7	540.7	-729.1	0.00	0.00	0.00
8,700.0	0.00	0.00	8,620.0	-749.7	540.7	-729.1	0.00	0.00	0.00
8,800.0	0.00	0.00	8,720.0	-749.7	540.7	-729.1	0.00	0.00	0.00
8,900.0	0.00	0.00	8,820.0	-749.7	540.7	-729.1	0.00	0.00	0.00
9,000.0	0.00	0.00	8,920.0	-749.7	540.7	-729.1	0.00	0.00	0.00
9,100.0	0.00	0.00	9,020.0	-749.7	540.7	-729.1	0.00	0.00	0.00
9,200.0	0.00	0.00	9,120.0	-749.7	540.7	-729.1	0.00	0.00	0.00
9,300.0	0.00	0.00	9,220.0	-749.7	540.7	-729.1	0.00	0.00	0.00
9,400.0	0.00	0.00	9,320.0	-749.7	540.7	-729.1	0.00	0.00	0.00
9,500.0	0.00	0.00	9,420.0	-749.7	540.7	-729.1	0.00	0.00	0.00
9,600.0	0.00	0.00	9,520.0	-749.7	540.7	-729.1	0.00	0.00	0.00
9,700.0	0.00	0.00	9,620.0	-749.7	540.7	-729.1	0.00	0.00	0.00
9,800.0	0.00	0.00	9,720.0	-749.7	540.7	-729.1	0.00	0.00	0.00
9,900.0 10,000.0	0.00 0.00	0.00 0.00	9,820.0 9,920.0	-749.7 -749.7	540.7 540.7	-729.1 -729.1	0.00 0.00	0.00 0.00	0.00 0.00
10,000.0			9,920.0						
10,100.0	0.00 0.00	0.00 0.00	10,020.0	-749.7 -749.7	540.7 540.7	-729.1 -729.1	0.00 0.00	0.00 0.00	0.00 0.00
10,250.0	4.30	359.63	10,127.0	-749.7 -748.1	540.7 540.7	-729.1 -727.5	10.00	10.00	0.00
10,300.0	9.30	359.63	10,219.6	-742.2	540.7	-721.6	10.00	10.00	0.00

Planning Report

EDT 17 Permian Prod Database:

> DELAWARE BASIN WEST ATLAS PROSPECT (DBW) WILD THING PROJECT

_WILD THING FED COM 902H

PWP0 Design:

OWB Wellbore:

Company:

Project:

Site:

Well:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well _WILD THING FED COM 902H - Slot

902H

GL @ 2940.0usft GL @ 2940.0usft

Grid

sigii.	1 111 0								
anned 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)
10,350.0	14.30	359.63	10,268.6	-731.9	540.6	-711.4	10.00	10.00	0.00
10,400.0	19.30	359.63	10,316.4	-717.5	540.5	-696.9	10.00	10.00	0.00
10,450.0	24.30	359.63	10,362.8	-698.9	540.4	-678.4	10.00	10.00	0.00
10,500.0	29.30	359.63	10,407.4	-676.4	540.2	-655.9	10.00	10.00	0.00
10,550.0	34.30	359.63	10,449.9	-650.0	540.1	-629.6	10.00	10.00	0.00
10,600.0	39.30	359.63	10,489.9	-620.1	539.9	-599.6	10.00	10.00	0.00
10,650.0	44.30	359.63	10,527.2	-586.8	539.6	-566.3	10.00	10.00	0.00
10,700.0	49.30	359.63	10,561.4	-550.3	539.4	-529.9	10.00	10.00	0.00
10,750.0	54.30	359.63	10,592.3	-511.1	539.1	-490.7	10.00	10.00	0.00
10,800.0	59.30	359.63	10,619.7	-469.2	538.9	-448.9	10.00	10.00	0.00
10,850.0	64.30	359.63	10,643.3	-425.2	538.6	-404.9	10.00	10.00	0.00
10,900.0	69.30	359.63	10,663.0	-379.2	538.3	-359.0	10.00	10.00	0.00
10,950.0	74.30	359.63	10,678.6	-331.8	538.0	-311.6	10.00	10.00	0.00
11,000.0	79.30	359.63	10,690.0	-283.1	537.7	-262.9	10.00	10.00	0.00
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11,050.0	84.30	359.63	10,697.1	-233.6	537.3	-213.5	10.00	10.00	0.00
11,100.0	89.30	359.63	10,699.9	-183.7	537.0	-163.7	10.00	10.00	0.00
11,107.0	90.00	359.63	10,700.0	-176.8	537.0	-156.7	10.00	10.00	0.00
11,200.0	90.00	359.63	10,700.0	-83.7	536.4	-63.8	0.00	0.00	0.00
11,300.0	90.00	359.63	10,700.0	16.3	535.7	36.2	0.00	0.00	0.00
11,400.0	90.00	359.63	10,700.0	116.3	535.1	136.1	0.00	0.00	0.00
11,500.0	90.00	359.63	10,700.0	216.3	534.4	236.0	0.00	0.00	0.00
11,600.0	90.00	359.63	10,700.0	316.3	533.8	335.9	0.00	0.00	0.00
11,700.0	90.00	359.63	10,700.0	416.3	533.1	435.8	0.00	0.00	0.00
11,800.0	90.00	359.63	10,700.0	516.3	532.5	535.7	0.00	0.00	0.00
11,900.0	90.00	359.63	10,700.0	616.3	531.8	635.6	0.00	0.00	0.00
12,000.0	90.00	359.63	10,700.0	716.3	531.2	735.5	0.00	0.00	0.00
12,100.0	90.00	359.63	10,700.0	816.3	530.5	835.4	0.00	0.00	0.00
12,200.0	90.00	359.63	10,700.0	916.3	529.9	935.3	0.00	0.00	0.00
12,300.0	90.00	359.63	10,700.0	1,016.3	529.2	1,035.2	0.00	0.00	0.00
12,400.0	90.00	359.63	10,700.0	1,116.3	528.5	1,135.1	0.00	0.00	0.00
12,500.0	90.00	359.63	10,700.0	1,216.3	527.9	1,235.0	0.00	0.00	0.00
12,600.0	90.00	359.63	10,700.0	1,316.3	527.2	1,334.9	0.00	0.00	0.00
12,700.0	90.00	359.63	10,700.0	1,416.3	526.6	1,434.8	0.00	0.00	0.00
12,800.0	90.00	359.63	10,700.0	1,516.2	525.9	1,534.7	0.00	0.00	0.00
			,						
12,900.0	90.00	359.63	10,700.0	1,616.2	525.3	1,634.6	0.00	0.00	0.00
13,000.0	90.00	359.63	10,700.0	1,716.2	524.6	1,734.5	0.00	0.00	0.00
13,100.0	90.00	359.63	10,700.0	1,816.2	524.0	1,834.4	0.00	0.00	0.00
13,200.0	90.00	359.63	10,700.0	1,916.2	523.3	1,934.3	0.00	0.00	0.00
13,300.0	90.00	359.63	10,700.0	2,016.2	522.7	2,034.2	0.00	0.00	0.00
13,400.0	90.00	359.63	10,700.0	2,116.2	522.0	2,134.2	0.00	0.00	0.00
13,500.0	90.00	359.63	10,700.0	2,216.2	521.4	2,234.1	0.00	0.00	0.00
13,600.0	90.00	359.63	10,700.0	2,316.2	520.7	2,334.0	0.00	0.00	0.00
13,700.0	90.00	359.63	10,700.0	2,416.2	520.1	2,433.9	0.00	0.00	0.00
13,800.0	90.00	359.63	10,700.0	2,516.2	519.4	2,533.8	0.00	0.00	0.00
13,900.0	90.00	359.63	10,700.0	2,616.2	518.8	2,633.7	0.00	0.00	0.00
14,000.0	90.00	359.63	10,700.0	2,716.2	518.1	2,733.6	0.00	0.00	0.00
14,100.0	90.00	359.63	10,700.0	2,816.2	517.5	2,833.5	0.00	0.00	0.00
14,200.0	90.00	359.63	10,700.0	2,916.2	516.8	2,933.4	0.00	0.00	0.00
14,300.0	90.00	359.63	10,700.0	3,016.2	516.2	3,033.3	0.00	0.00	0.00
			10.700.0						0.00
14,400.0	90.00	359.63	-,	3,116.2	515.5 514.0	3,133.2	0.00	0.00	
14,500.0	90.00	359.63	10,700.0	3,216.2	514.9	3,233.1	0.00	0.00	0.00
14,600.0	90.00	359.63	10,700.0	3,316.2	514.2	3,333.0	0.00	0.00	0.00

Planning Report

EDT 17 Permian Prod Database:

DELAWARE BASIN WEST Company: ATLAS PROSPECT (DBW) Project: Site: WILD THING PROJECT Well: _WILD THING FED COM 902H

Wellbore:

OWB PWP0 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well _WILD THING FED COM 902H - Slot

902H

GL @ 2940.0usft GL @ 2940.0usft

Grid

annad Cumicai									
anned 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)
14,800.0	90.00	359.63	10,700.0	3,516.2	512.9	3,532.8	0.00	0.00	0.00
14,900.0	90.00	359.63	10,700.0	3,616.2	512.3	3,632.7	0.00	0.00	0.00
15,000.0	90.00	359.63	10,700.0	3,716.2	511.6	3,732.6	0.00	0.00	0.00
15,100.0	90.00	359.63	10,700.0	3,816.2	511.0	3,832.5	0.00	0.00	0.00
15,200.0	90.00	359.63	10,700.0	3,916.2	510.3	3,932.4	0.00	0.00	0.00
15,300.0	90.00	359.63	10,700.0	4,016.2	509.7	4,032.3	0.00	0.00	0.00
15,400.0	90.00	359.63	10,700.0	4,116.2	509.0	4,132.2	0.00	0.00	0.00
15,500.0	90.00	359.63	10,700.0	4,216.2	508.4	4,232.2	0.00	0.00	0.00
15,600.0	90.00	359.63	10,700.0	4,316.2	507.7	4,332.1	0.00	0.00	0.00
15,700.0	90.00	359.63	10,700.0	4,416.2	507.1	4,432.0	0.00	0.00	0.00
15,800.0	90.00	359.63	10,700.0	4,516.2	506.4	4,531.9	0.00	0.00	0.00
15,900.0	90.00	359.63	10,700.0	4,616.2	505.8	4,631.8	0.00	0.00	0.00
16,000.0	90.00	359.63	10,700.0	4,716.2	505.1	4,731.7	0.00	0.00	0.00
16,100.0	90.00	359.63	10,700.0	4,816.2	504.5	4,831.6	0.00	0.00	0.00
16,200.0	90.00	359.63	10,700.0	4,916.2	503.8	4,931.5	0.00	0.00	0.00
16,300.0	90.00	359.63	10,700.0	5,016.2	503.1	5,031.4	0.00	0.00	0.00
16,400.0	90.00	359.63	10,700.0	5,116.2	502.5	5,131.3	0.00	0.00	0.00
16,500.0	90.00	359.63	10,700.0	5,216.2	501.8	5,231.2	0.00	0.00	0.00
16,600.0	90.00	359.63	10,700.0	5,316.2	501.2	5,331.1	0.00	0.00	0.00
16,700.0	90.00	359.63	10,700.0	5,416.2	500.5	5,431.0	0.00	0.00	0.00
16,800.0	90.00	359.63	10,700.0	5,516.2	499.9	5,530.9	0.00	0.00	0.00
16,900.0	90.00	359.63	10,700.0	5,616.2	499.2	5,630.8	0.00	0.00	0.00
17,000.0	90.00	359.63	10,700.0	5,716.2	498.6	5,730.7	0.00	0.00	0.00
17,100.0	90.00	359.63	10,700.0	5,816.2	497.9	5,830.6	0.00	0.00	0.00
17,200.0	90.00	359.63	10,700.0	5,916.2	497.3	5,930.5	0.00	0.00	0.00
17,300.0	90.00	359.63	10,700.0	6,016.2	496.6	6,030.4	0.00	0.00	0.00
17,400.0	90.00	359.63	10,700.0	6,116.2	496.0	6,130.3	0.00	0.00	0.00
17,500.0	90.00	359.63	10,700.0	6,216.1	495.3	6,230.3	0.00	0.00	0.00
17,600.0	90.00	359.63	10,700.0	6,316.1	494.7	6,330.2	0.00	0.00	0.00
17,700.0	90.00	359.63	10,700.0	6,416.1	494.0	6,430.1	0.00	0.00	0.00
17,800.0	90.00	359.63	10,700.0	6,516.1	493.4	6,530.0	0.00	0.00	0.00
17,900.0	90.00	359.63	10,700.0	6,616.1	492.7	6,629.9	0.00	0.00	0.00
18,000.0	90.00	359.63	10,700.0	6,716.1	492.1	6,729.8	0.00	0.00	0.00
18,100.0	90.00	359.63	10,700.0	6,816.1	491.4	6,829.7	0.00	0.00	0.00
18,200.0	90.00	359.63	10,700.0	6,916.1	490.8	6,929.6	0.00	0.00	0.00
18,300.0	90.00	359.63	10,700.0	7,016.1	490.1	7,029.5	0.00	0.00	0.00
18,400.0	90.00	359.63	10.700.0	7,116.1	489.5	7,129.4	0.00	0.00	0.00
18,500.0	90.00	359.63	10,700.0	7,116.1	488.8	7,129.4	0.00	0.00	0.00
18,600.0	90.00	359.63	10,700.0	7,216.1	488.2	7,329.2	0.00	0.00	0.00
18,700.0	90.00	359.63	10,700.0	7,416.1	487.5	7,429.1	0.00	0.00	0.00
18,800.0	90.00	359.63	10,700.0	7,516.1	486.9	7,529.0	0.00	0.00	0.00
18.900.0	90.00	359.63	10,700.0	7,616.1	486.2	7,628.9	0.00	0.00	0.00
19,000.0	90.00	359.63	10,700.0	7,716.1	485.6	7,728.8	0.00	0.00	0.00
19,100.0	90.00	359.63	10,700.0	7,816.1	484.9	7,828.7	0.00	0.00	0.00
19,200.0	90.00	359.63	10,700.0	7,916.1	484.3	7,928.6	0.00	0.00	0.00
19,300.0	90.00	359.63	10,700.0	8,016.1	483.6	8,028.5	0.00	0.00	0.00
19,400.0	90.00	359.63	10,700.0	8,116.1	483.0	8,128.4	0.00	0.00	0.00
19,400.0		359.63 359.63	10,700.0		483.0 482.3	8,128.4	0.00		0.00
19,500.0	90.00		10,700.0	8,216.1 8,316.1		8,228.3		0.00	
19,700.0	90.00 90.00	359.63 359.63	10,700.0	8,316.1 8,416.1	481.7 481.0	8,328.3 8,428.2	0.00 0.00	0.00 0.00	0.00 0.00
19,700.0	90.00	359.63	10,700.0	8,516.1	480.4	8,528.1	0.00	0.00	0.00
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19,900.0	90.00	359.63	10,700.0	8,616.1	479.7	8,628.0	0.00	0.00	0.00
20,000.0	90.00	359.63	10,700.0	8,716.1	479.1	8,727.9	0.00	0.00	0.00

Planning Report

Database: EDT 17 Permian Prod

Company: DELAWARE BASIN WEST
Project: ATLAS PROSPECT (DBW)
Site: WILD THING PROJECT
Well: _WILD THING FED COM 902H

Wellbore: OWB
Design: PWP0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well _WILD THING FED COM 902H - Slot

902H

GL @ 2940.0usft GL @ 2940.0usft

Grid

asigii.	FVVFU								
lanned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20.100.0	90.00	359.63	10.700.0	8,816.1	478.4	8,827.8	0.00	0.00	0.00
20,200.0	90.00	359.63	10,700.0	8,916.1	477.8	8,927.7	0.00	0.00	0.00
20,300.0	90.00	359.63	10,700.0	9,016.1	477.1	9,027.6	0.00	0.00	0.00
20,400.0	90.00	359.63	10,700.0	9,116.1	476.4	9,127.5	0.00	0.00	0.00
20,500.0	90.00	359.63	10,700.0	9,216.1	475.8	9,227.4	0.00	0.00	0.00
20,600.0	90.00	359.63	10,700.0	9,316.1	475.1	9,327.3	0.00	0.00	0.00
20,700.0	90.00	359.63	10,700.0	9,416.1	474.5	9,427.2	0.00	0.00	0.00
20,800.0	90.00	359.63	10,700.0	9,516.1	473.8	9,527.1	0.00	0.00	0.00
20,900.0	90.00	359.63	10,700.0	9,616.1	473.2	9,627.0	0.00	0.00	0.00
21,000.0	90.00	359.63	10,700.0	9,716.1	472.5	9,726.9	0.00	0.00	0.00
21,100.0	90.00	359.63	10,700.0	9,816.1	471.9	9,826.8	0.00	0.00	0.00
21,200.0	90.00	359.63	10,700.0	9,916.1	471.2	9,926.7	0.00	0.00	0.00
21,300.0	90.00	359.63	10,700.0	10,016.1	470.6	10,026.6	0.00	0.00	0.00
21,400.0	90.00	359.63	10,700.0	10,116.1	469.9	10,126.5	0.00	0.00	0.00
21,500.0	90.00	359.63	10,700.0	10,216.1	469.3	10,226.4	0.00	0.00	0.00
21,600.0	90.00	359.63	10,700.0	10,316.1	468.6	10,326.3	0.00	0.00	0.00
21,700.0	90.00	359.63	10,700.0	10,416.1	468.0	10,426.3	0.00	0.00	0.00
21,800.0	90.00	359.63	10,700.0	10,516.1	467.3	10,526.2	0.00	0.00	0.00
21,900.0	90.00	359.63	10,700.0	10,616.1	466.7	10,626.1	0.00	0.00	0.00
22,000.0	90.00	359.63	10,700.0	10,716.1	466.0	10,726.0	0.00	0.00	0.00
22,100.0	90.00	359.63	10,700.0	10,816.1	465.4	10,825.9	0.00	0.00	0.00
22,200.0	90.00	359.63	10,700.0	10,916.1	464.7	10,925.8	0.00	0.00	0.00
22,300.0	90.00	359.63	10,700.0	11,016.0	464.1	11,025.7	0.00	0.00	0.00
22,400.0	90.00	359.63	10,700.0	11,116.0	463.4	11,125.6	0.00	0.00	0.00
22,500.0	90.00	359.63	10,700.0	11,216.0	462.8	11,225.5	0.00	0.00	0.00
22,600.0	90.00	359.63	10,700.0	11,316.0	462.1	11,325.4	0.00	0.00	0.00
22,700.0	90.00	359.63	10,700.0	11,416.0	461.5	11,425.3	0.00	0.00	0.00
22,800.0	90.00	359.63	10,700.0	11,516.0	460.8	11,525.2	0.00	0.00	0.00
22,900.0	90.00	359.63	10,700.0	11,616.0	460.2	11,625.1	0.00	0.00	0.00
23,000.0	90.00	359.63	10,700.0	11,716.0	459.5	11,725.0	0.00	0.00	0.00
23,100.0	90.00	359.63	10,700.0	11,816.0	458.9	11,824.9	0.00	0.00	0.00
23,200.0	90.00	359.63	10,700.0	11,916.0	458.2	11,924.8	0.00	0.00	0.00
23,300.0	90.00	359.63	10,700.0	12,016.0	457.6	12,024.7	0.00	0.00	0.00
23,400.0	90.00	359.63	10,700.0	12,116.0	456.9	12,124.6	0.00	0.00	0.00
23,500.0	90.00	359.63	10,700.0	12,216.0	456.3	12,224.5	0.00	0.00	0.00
23,559.2	90.00	359.63	10,700.0	12,275.2	455.9	12,283.7	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (WILD THING FE - plan hits target ce - Rectangle (sides N	nter	179.64 00.0 D20.0)	10,700.0	12,275.2	455.9	405,671.90	597,784.82	32° 6' 53.692 N	104° 1' 2.997 W
LTP (WILD THING FED - plan misses targe - Circle (radius 50.0	t center by 1.0u	359.69 usft at 23429	10,700.0 0.2usft MD (1	12,145.2 0700.0 TVD, 1	455.8 12145.2 N, 456	405,541.87 6.7 E)	597,784.70	32° 6' 52.405 N	104° 1' 3.003 W
FTP (WILD THING FED - plan misses targe - Circle (radius 50.0	t center by 97.3	0.00 3usft at 1079	10,700.0 7.8usft MD (-524.4 10618.6 TVD,	536.8 -471.1 N, 538	392,872.28 3.9 E)	597,865.76	32° 4′ 47.019 N	104° 1' 2.492 W

Planning Report

EDT 17 Permian Prod Well _WILD THING FED COM 902H - Slot Database: Local Co-ordinate Reference: 902H DELAWARE BASIN WEST Company: **TVD Reference:** GL @ 2940.0usft Project: ATLAS PROSPECT (DBW) GL @ 2940.0usft MD Reference: Site: WILD THING PROJECT Grid North Reference: Well: _WILD THING FED COM 902H Minimum Curvature **Survey Calculation Method:** OWB Wellbore: PWP0 Design:

Released to Imaging: 2/12/2025 10:37:56 AM

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: CONOCOPHILLIPS COMPANY
WELL NAME & NO.: WILD THING FED COM 902H
SURFACE HOLE FOOTAGE: 856'/S & 1409'/E
BOTTOM HOLE FOOTAGE 330'/S & 870'/E
LOCATION: Section 31, T.25 S., R.29 E., NMP
COUNTY: Eddy County, New Mexico

COA

H2S	• Yes	C No	
Potash	None	© Secretary	© R-111-P
Cave/Karst Potential	C Low	• Medium	C High
Cave/Karst Potential	Critical Critical		
Variance	O None	• Flex Hose	Other
Wellhead	C Conventional	Multibowl	C Both
Wellhead Variance	O Diverter		
Other	□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	
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 43 CFR part 3170 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 **13-3/8** inch surface casing shall be set at approximately **350 feet** (a minimum of 70 feet (Eddy 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 8 hours 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.
- 2. Keep casing full during run for collapse safety factor. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash. Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Contingency:

Operator has proposed a contingency if losses are encountered, a DV tool, the depth may be adjusted as long as the cement 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.
 - Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

- 3. 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:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

Contingency Casing Design if large water flows are encountered:

- 4. The 13-3/8 inch surface casing shall be set at approximately 350 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - e. 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.
 - f. Wait on cement (WOC) time for a primary cement job will be a minimum of $\underline{8}$ hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - g. 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.
 - h. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 5. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash. Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 6. **Keep casing full during run for collapse safety factor**. The minimum required fill of cement behind the 7-5/8 inch intermediate liner is:

- Cement should tie-back 100 feet into the previous casing. Operator shall provide method of verification.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 - Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
- 7. 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:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
 - Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

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).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8 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 2.
- 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. When the Communitization Agreement number is known, it shall also be on the sign.

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system) BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Casing Clearance:

- Overlap clearance OK for production interval

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)
 - **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

✓ Lea CountyCall 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
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. 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.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
- 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.

 For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

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.
- 2. Wait on cement (WOC) for Potash Areas: 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 of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: 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 8 hours. 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.
- 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-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
- 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:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. 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.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

- v. 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.
 - i. 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).
 - ii. 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.)
 - iii. 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 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 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - iv. 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.

- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. 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.
- viii. 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 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.

JS 1/14/2025

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.

WARNING

YOU ARE ENTERING AN H₂S AREA AUTHORIZED PERSONNEL ONLY

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

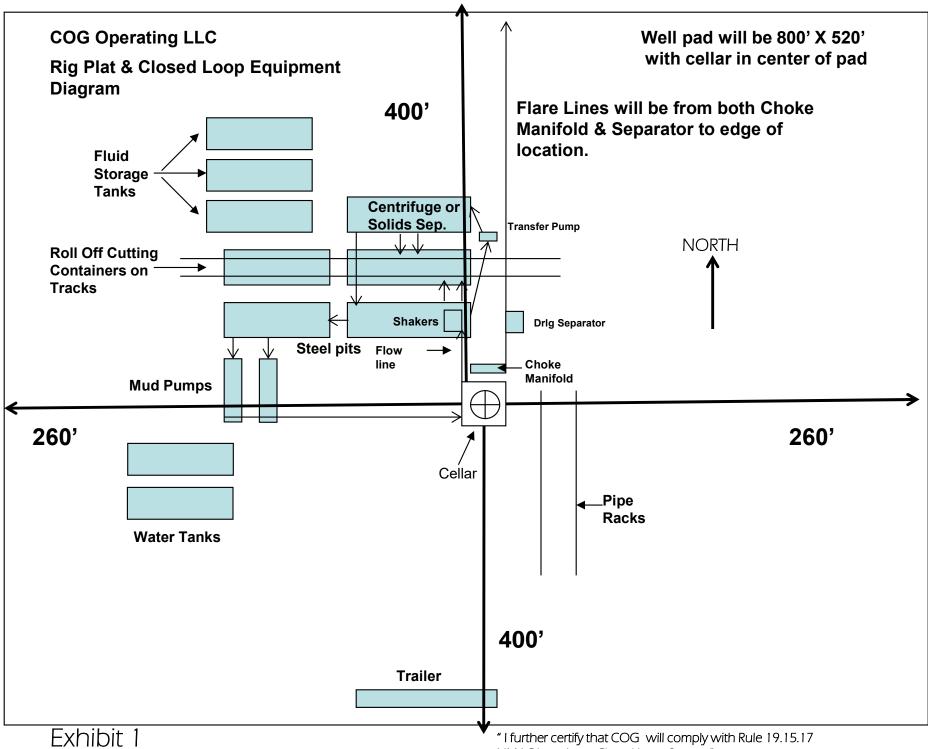
OFFICE

COG OPERATING LLC OFFICE 575-748-6940

CHAD GREGORY 432-894-5590

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



NMAC by using a Closed Loop System."

1. Geologic Formations

TVD of target	10,700' EOL	Pilot hole depth	NA
MD at TD:	23,559'	Deepest expected fresh water:	50'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	120	Water	
Top of Salt	393	Salt	
Base of Salt	2595	Salt	
Lamar	2785	Salt Water	
Bell Canyon	2823	Salt Water	
Cherry Canyon	3672	Oil/Gas	
Brushy Canyon	4973	Oil/Gas	
Bone Spring	6542	Oil/Gas	
1st Bone Spring Sand	7496	Oil/Gas	
2nd Bone Spring Sand	8113	Oil/Gas	
3rd Bone Spring Sand	9339	Oil/Gas	
Wolfcamp	9690	Oil/Gas	
Wolfcamp A	9827	Not Penetrated	
Wolfcamp B	10153	Not Penetrated	

2. Casing Program

Hole Size	Casing	g Interval	Csg. S	Weight	Grade	Conn.	SF	SF Burst	SF	SF
11010 0120	From	То	03g. 0	(lbs)	Grade	00	Collapse	or Burst	Body	Joint
17.50"	0	350	13.37	5" 45.5	J55	BTC	13.05	1.14	44.90	49.98
9.875"	0	7500	7.625	5" 29.7	L80-ICY	BTC	1.51	1.14	3.26	3.29
8.750"	7500	10050	7.625	5" 29.7	P110-ICY	W513	1.41	1.72	3.58	2.15
6.75"	0	9850	5.5"	23	P110-CY	BTC	2.10	2.45	3.22	3.22
6.75"	9850	23,559	5.5"	23	P110-CY	W441	1.94	2.26	2.96	2.69
-				BL	1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet		

2b. Contingtency Casing Program

	_	_								
Hole Size	Casing	Casing Interval		Weight	Grade	Conn	SF	SF Burst	SF	SF
Hole Size	From	То	Csg. Size	(lbs)	lbs)	Conn.	Collapse	or burst	Body	Joint
17.50"	0	350	13.375"	54.5	J55	BTC	7.06	2.42	44.72	47.65
12.25"	0	2690	9.625"	40	L80-IC	BTC	2.77	1.46	8.51	8.80
8.75"	2490	10050	7.625"	29.7	P110- ICY	W513	1.41	1.72	3.58	2.15
6.75"	0	9850	5.5"	23	P110-CY	втс	2.10	2.45	3.22	3.22
6.75"	9850	23,559	5.5"	23	P110-CY	W441	1.94	2.26	2.96	2.69
				BLM M	inimum Sa	fety Factor	1.125	1	1.6 Dry	1.6 Dry
									1.8 Wet	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 43 CFR Part 3170 Subpart 3172

Contingency program will be run if large water flows are encountered.

The 5 1/2" W441 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.

	Y or N						
Is casing new? If used, attach certification as required in Onshore Order #1	Υ						
Does casing meet API specifications? If no, attach casing specification sheet.							
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).							
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y						
Is well located within Capitan Reef?	N						
If yes, does production casing cement tie back a minimum of 50' above the Reef?							
Is well within the designated 4 string boundary?							
Is well located in SOPA but not in R-111-P?	N						
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?	N						
If yes, are there three strings cemented to surface?							

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/	H₂0 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	210	12.8	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
Suri.	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Inter.	740	10.3	3.3	22	24	Halliburton tuned light
Stage 1	250	14.8	1.35	6.6	8	Tail: Class H
Prod	620	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
FIOU	1030	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

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	9,550'	20% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Sks	Wt. lb/	Yld ft3/	H₂0 gal/sk	500# Comp. Strength (hours)	Slurry Description
_	210	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
Surf.	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
14.44	320	12.8	1.75	9.21	12	Lead: Class C + 4% Gel + 1% CaCl2
Int. #1	390	14.8	1.35	6.6	8	Tail: Class C + 2% CaCl2
Inter. #2	300	10.5	3.3	22	24	Tuned light
(Liner)	90	14.8	1.35	6.6	8	Tail: Class H
Prod	530	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
FIOU	1030	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

Contingency program will be run if large water flows are encountered.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
2 nd Intermediate	2,490'	20%
Production	9,550'	20% OH in Lateral (KOP to EOL)

4. Pressure Control Equipment

	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
Υ	A variance is requested for the use of BOPE break testing on intermediate skids (in accordance with the 30 day full BOPE test requirements).

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Ту	pe	x	Tested to:	
			Ann	ular	Х	2500psi	
	13-5/8"	5M	Blind	Ram	Х		
12-1/4" or 9-7/8"			Pipe	Ram x		5000psi	
			Double	e Ram	Χ	5000psi	
			Other*				
			5M Aı	nnular	Χ	5000psi	
	13-5/8"	10M		Blind	Ram	Χ	
6-3/4"			Pipe	Ram	Х	1,0000	
			Double	e Ram	Х	10000psi	
			Other*				

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3170 Subpart 3172 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 43 CFR Part 3170 Subpart 3172.
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 43 CFR Part 3170 Subpart 3172 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.

5. Mud Program

	Depth	Type	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 - 10	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 13.5	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
<u> </u>	<u> </u>

5b. Contingency Mud Program

	Depth	Type	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	9-5/8" Int shoe	Brine	8.4 - 10	28-34	N/C
9-5/8" Int shoe	7-5/8" Int shoe	Brine	8.4 - 10	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 13.5	35-45	<20

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.			
Υ	No Logs are planned based on well control or offset log information.			
N	Drill stem test? If yes, explain.			
N	Coring? If yes, explain.			

Add	ditional logs planned	Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
Y	CBL	Production casing (If cement not circulated to surface)
Υ	Mud log	Intermediate shoe to TD
N	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7515 psi at 10700' TVD
Abnormal Temperature	NO 165 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 43 CFR Part 3170 Subpart 3176. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

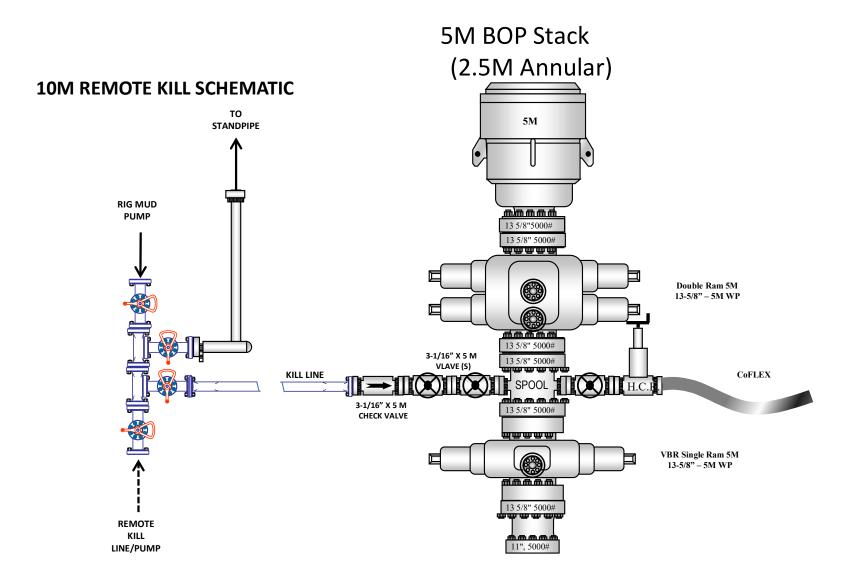
N	H2S is present
Y	H2S Plan attached

8. Other Facets of Operation

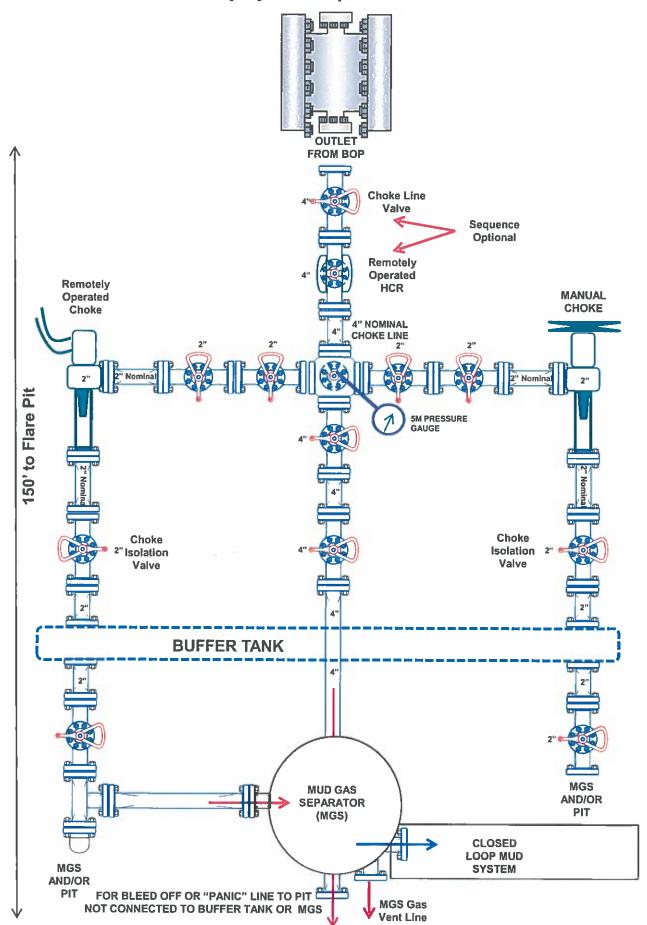
Y	Is it a walking operation?
Y	Is casing pre-set?

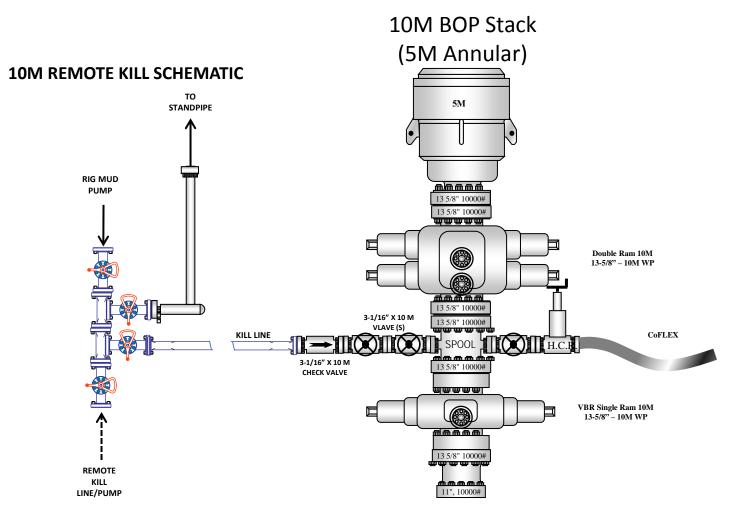
х	H2S Plan.
х	BOP & Choke Schematics.
х	Directional Plan

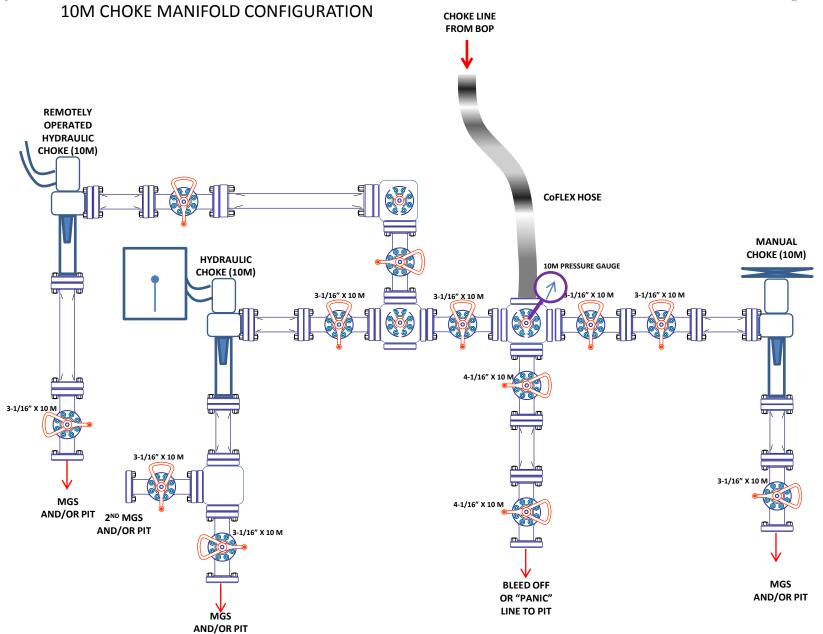
5M BOP Stack



5M Choke Manifold Equipment (WITH MGS + CLOSED LOOP)







Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 424305

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	424305
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
mreyes4	Cement is required to circulate on both surface and intermediate1 strings of casing.	1/23/2025
mreyes4	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	1/23/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	2/12/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	2/12/2025
ward.rikala	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.	2/12/2025
ward.rikala	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.	2/12/2025