

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
APPLICATION FOR PERMIT TO DRILL OR REENTER

**HOBBS OGD**

**JUN 08 2019**

**RECEIVED**

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM114993
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator EOG RESOURCES INCORPORATED (7377)		8. Lease Name and Well No. TRIGG 5 FED 601H (725649)
3a. Address 1111 Bagby Sky Lobby2 Houston TX 77002	3b. Phone No. (include area code) (713)651-7000	9. API Well No. 30-025-46083
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface LOT 4 / 496 FNL / 495 FWL / LAT 32.3395668 / LONG -103.3965702 At proposed prod. zone SWNW / 2537 FNL / 330 FWL / LAT 32.3194249 / LONG -103.3971571		10. Field and Pool, or Exploratory RED HILLS / ROCK LAKE; BONE SPRIN
11. Sec., T. R. M. or Blk. and Survey or Area SEC 5 / T23S / R35E / NMP		13. State NM
14. Distance in miles and direction from nearest town or post office* 15 miles		12. County or Parish LEA
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 100 feet	16. No of acres in lease 1161.12	17. Spacing Unit dedicated to this well 480
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 880 feet	19. Proposed Depth 11341 feet / 18924 feet	20. BLM/BLA Bond No. in file FED: NM2308
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3450 feet	22. Approximate date work will start* 01/01/2019	23. Estimated duration 25 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 Item 20 above). |
| 2. A Drilling Plan.  | 5. Operator certification.  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the 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 BLM.            |

25. Signature (Electronic Submission)	Name (Printed/Typed) Ben Hocher / Ph: (432)231-9548	Date 08/31/2018
Title Engineering Associate		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 05/15/2019
Title Assistant Field Manager Lands & Minerals Office CARLSBAD		

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

*Dep Rec 06/10/19*

*K... 06/06/19*

**APPROVED WITH CONDITIONS**  
Approval Date: 04/18/2019

## **Additional Operator Remarks**

### **Location of Well**

1. SHL: LOT 4 / 496 FNL / 495 FWL / TWSP: 23S / RANGE: 35E / SECTION: 5 / LAT: 32.3395668 / LONG: -103.3965702 ( TVD: 0 feet, MD: 0 feet )  
PPP: LOT 4 / 100 FNL / 330 FWL / TWSP: 23S / RANGE: 35E / SECTION: 5 / LAT: 32.3406542 / LONG: -103.3971037 ( TVD: 11076 feet, MD: 11098 feet )  
BHL: SWNW / 2537 FNL / 330 FWL / TWSP: 23S / RANGE: 35E / SECTION: 8 / LAT: 32.3194249 / LONG: -103.3971571 ( TVD: 11341 feet, MD: 18924 feet )

### **BLM Point of Contact**

Name: Priscilla Perez  
Title: Legal Instruments Examiner  
Phone: 5752345934  
Email: pperez@blm.gov

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	<b>EOG RESOURCES INCORPORATED</b>
<b>LEASE NO.:</b>	<b>NMNM114993</b>
<b>WELL NAME &amp; NO.:</b>	<b>TRIGG 5 FED 601H</b>
<b>SURFACE HOLE FOOTAGE:</b>	<b>496' FNL &amp; 495' FWL</b>
<b>BOTTOM HOLE FOOTAGE:</b>	<b>2537' FNL &amp; 330' FWL</b>
<b>LOCATION:</b>	<b>Section 5, T. 23 S., R 35 E., NMPM</b>
<b>COUNTY:</b>	<b>Lea County, New Mexico</b>

COA

H2S	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input checked="" type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input checked="" type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input type="checkbox"/> Unit

### A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, 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 2,000 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) 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.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

- Cement should tie-back at least **50 feet above Capitan Reef**. Operator shall provide method of verification.

### **C. PRESSURE CONTROL**

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) 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.

**JJP05132019**

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
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, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log.
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.
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.

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 when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

**PECOS DISTRICT  
SURFACE USE  
CONDITIONS OF APPROVAL**

**Trigg 5 Fed 601H:**

**Surface Hole Location: 476' FNL & 521' FWL, Section 5, T. 23 S., R. 35 E.  
Bottom Hole Location: 2538' FNL & 1210' FWL, Section 8, T. 23 S., R. 35 E.**

**Trigg 5 Fed 602H:**

**Surface Hole Location: 496' FNL & 495' FWL, Section 5, T. 23 S., R. 35 E.  
Bottom Hole Location: 2537' FNL & 330' FWL, Section 8, T. 23 S., R. 35 E.**

**Trigg 5 Fed 603H:**

**Surface Hole Location: 400' FNL & 1950' FWL, Section 5, T. 23 S., R. 35 E.  
Bottom Hole Location: 2538' FNL & 1980' FWL, Section 8, T. 23 S., R. 35 E.**

**Trigg 5 Fed 604H:**

**Surface Hole Location: 400' FNL & 1983' FWL, Section 5, T. 23 S., R. 35 E.  
Bottom Hole Location: 2539' FNL & 2546' FEL, Section 8, T. 23 S., R. 35 E.**

**Trigg 5 Fed 605H:**

**Surface Hole Location: 400' FNL & 1983' FEL, Section 5, T. 23 S., R. 35 E.  
Bottom Hole Location: 2539' FNL & 1776' FEL, Section 8, T. 23 S., R. 35 E.**

**Trigg 5 Fed 606H:**

**Surface Hole Location: 400' FNL & 1983' FEL, Section 5, T. 23 S., R. 35 E.  
Bottom Hole Location: 2539' FNL & 1006' FEL, Section 8, T. 23 S., R. 35 E.**

**Trigg 5 Fed 607H:**

**Surface Hole Location: 401' FNL & 863' FEL, Section 5, T. 23 S., R. 35 E.  
Bottom Hole Location: 2540' FNL & 330' FEL, Section 8, T. 23 S., R. 35 E.**

**Trigg 5 Fed 308H:**

**Surface Hole Location: 401' FNL & 830' FEL, Section 5, T. 23 S., R. 35 E.  
Bottom Hole Location: 2540' FNL & 330' FEL, Section 8, T. 23 S., R. 35 E.**

## **I. GENERAL PROVISIONS**

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

## **II. PERMIT EXPIRATION**

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

## **III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES**

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

## **IV. 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 and BLM requirements and policies.

#### Watershed/Water Quality:

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. (Any access road crossing the berm cannot be lower than the berm height.)

#### Watershed & Surface/Groundwater Quality:

- A leak detection plan will be submitted to the BLM Carlsbad Field Office for approval prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating valves 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.

#### 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.
- 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.

**Exclosure Fencing**

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 pit 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.)

**G. ON LEASE ACCESS ROADS****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.

**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 should 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.

**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.

**Ditching**

Ditching shall be required on both sides of the road.

**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.

**Drainage**

**Construction Steps**

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

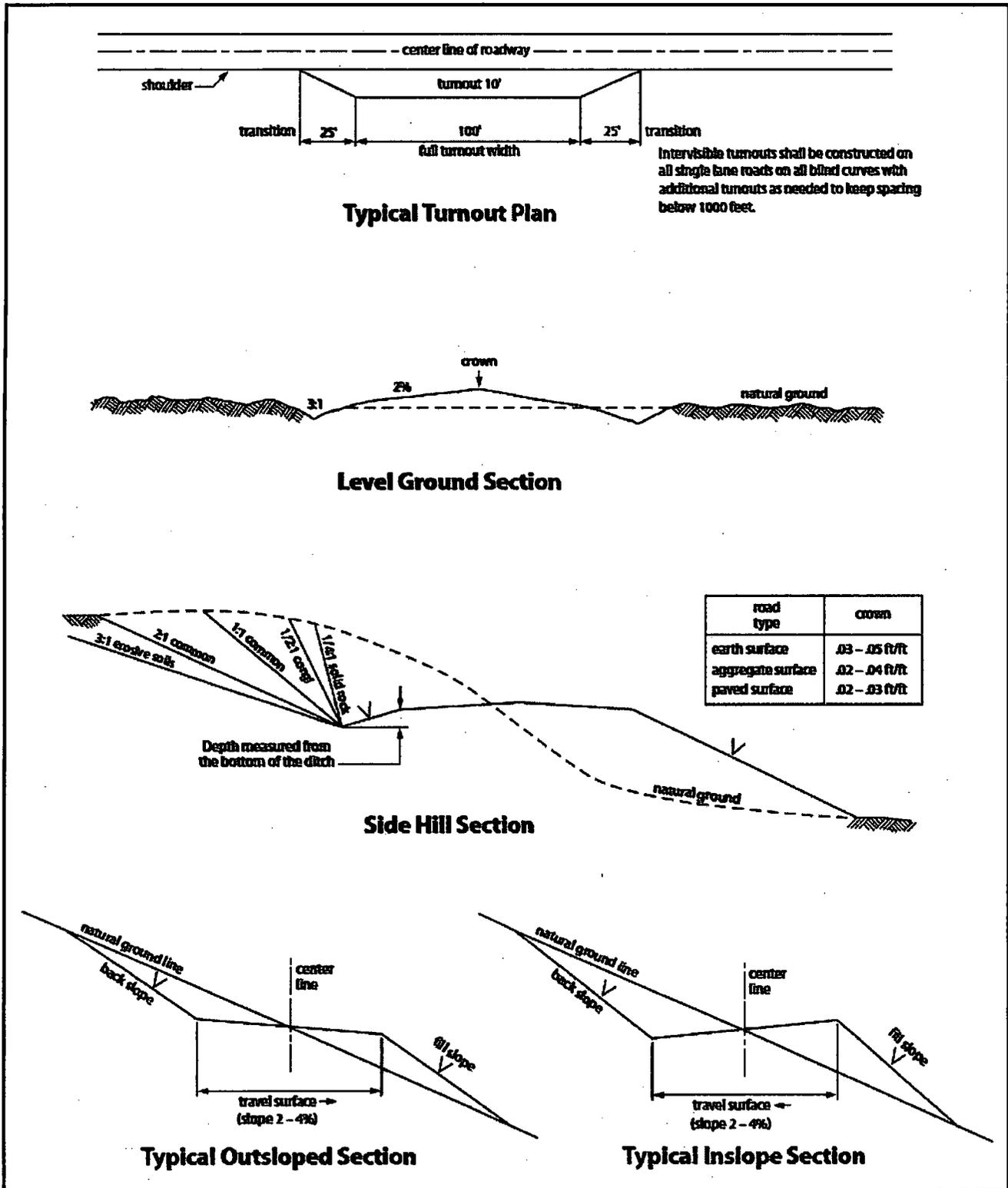


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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.

### **Painting Requirement**

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

## **B. PIPELINES**

### **BURIED PIPELINE STIPULATIONS**

A copy of the application (Grant, 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 to you a copy of your permit during construction to ensure compliance with all stipulations.

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

1. The Holder 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 grant.
2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder 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 right-of-way or on facilities authorized under this right-of-way grant. (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 holder 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 Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

5. All construction and maintenance activity will be confined to the authorized right-of-way.
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 right-of-way will be 30 feet:
- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 20 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 right-of-way 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 right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)
8. The holder 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. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder 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 of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way 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.
11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

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 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.

19. Special Stipulations:

**Lesser Prairie-Chicken**

Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

**C. ELECTRIC LINES**

**STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES**

**A copy of the grant 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.**

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

1. The holder 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 grant.
2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder 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 right-of-way or on facilities authorized under this right-of-way grant. (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.

with those abandonment procedures as prescribed by the Authorized Officer.

9. 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 grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area 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 to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.

**Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:**

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

## **VIII. INTERIM RECLAMATION**

During the life of the development, all disturbed areas not needed for active support of production operations should 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 should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

### Seed Mixture for LPC Sand/Shinnery Sites

Holder 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 shall be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed shall be either certified or registered seed. The seed container shall be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed will be planted 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 have a tendency to drop the bottom of the drill and are planted first). Holder 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. Seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may not be made before completion of at least one full growing season after seeding.

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

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

\*Pounds of pure live seed:

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

**EOG RESOURCES, INC.**  
**TRIGG 5 FED NO. 601H**

**1. GEOLOGIC NAME OF SURFACE FORMATION:**

Permian

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:**

Rustler	1,838'
Top of Salt	2,113'
Base of Salt / Top Anhydrite	4,250'
Base Anhydrite	4,525'
Yates	4,525'
Capitan	4,701'
Cherry Canyon	6,021'
Brushy Canyon	7,442'
Bone Spring Lime	8,718'
1 <sup>st</sup> Bone Spring Sand	9,746'
2 <sup>nd</sup> Bone Spring Sand	10,295'
3 <sup>rd</sup> Bone Spring Carb	10,635'
3 <sup>rd</sup> Bone Spring Sand	11,145'
TD	11,341'

**3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:**

Upper Permian Sands	0- 400'	Fresh Water
Cherry Canyon	6,021'	Oil
Brushy Canyon	7,442'	Oil
Bone Spring Lime	8,718'	Oil
1 <sup>st</sup> Bone Spring Sand	9,746'	Oil
2 <sup>nd</sup> Bone Spring Sand	10,295'	Oil
3 <sup>rd</sup> Bone Spring Carb	10,635'	Oil
3 <sup>rd</sup> Bone Spring Sand	11,145'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 13.375" casing at 2,000' and circulating cement back to surface.

**EOG RESOURCES, INC.  
TRIGG 5 FED NO. 601H**

**4. CASING PROGRAM - NEW**

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF <sub>min</sub> Collapse	DF <sub>min</sub> Burst	DF <sub>min</sub> Tension
17.5"	0 – 2,000'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0 – 4,200'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
12.25"	4,200' – 4,800'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'-18,925'	5.5"	20#	HCP-110	BTC	1.125	1.25	1.60

Variance is requested to wave any centralizer requirements for the 5-1/2" FJ casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" hole interval to maximize cement bond and zonal isolation.

**Cementing Program:**

Depth	No. Sacks	Wt. ppg	Yld Ft <sup>3</sup> /ft	Mix Water Gal/sk	Slurry Description
13-3/8" 2,00	1075	13.5	1.74	9.17	Class C + 4% Gel + 2% CaCl <sub>2</sub> + 0.25 pps Celloflake (TOC @ Surface)
	385	14.8	1.34	6.35	Class C + 2.0% CaCl <sub>2</sub>
9-5/8" 4,800' DV Tool w/ ECP @ 4,200'	235	12.7	1.90	9.96	Stage 1 Lead: 35:65 Poz:Class C + 3.0% Salt + 6.0% Gel + 0.4% CPT-20 + 0.5% CPT-45 (TOC @ 4,200')
	200	14.8	1.33	6.32	Stage 1 Tail: Class C + 0.2% CPT-19
	785	12.7	1.90	9.96	Stage 2 Lead: 35:65 Poz:Class C + 3.0% Salt + 6.0% Gel + 0.5% CPT-45 + 0.2% CPT-20 (TOC @ Surface)
	100	14.8	1.33	6.32	Stage 2 Tail: Class C + 0.2% CPT-19
5-1/2" 18,925'	220	11.0	3.21	19.24	50:50 Poz:H + 5.0% Salt + 3.0% CPT-45 + 0.4% CPT-503P + 1.0% CPT-19 + 5.0% Gypsum + 0.15% CPT-20 + 0.15% Citric Acid (TOC @ 4,300')
	850	14.4	1.20	4.81	50:50 Poz:H + 0.25% CPT-503P + 0.8% CPT-16A + 0.2% CPT-35 + 0.4% CPT-39 + 0.25% CPT-20

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

**5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

**EOG RESOURCES, INC.  
TRIGG 5 FED NO. 601H**

Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line).

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 5000/ 250 psig and the annular preventer to 3500/ 250 psig. The surface casing will be tested to 1500 psi for 30 minutes.

Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000/ 250 psig and the annular preventer to 3500/ 250 psig. The intermediate casing will be tested to 2000 psi for 30 minutes.

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.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

**6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:**

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal.

The applicable depths and properties of the drilling fluid systems are as follows.

<b>Depth</b>	<b>Type</b>	<b>Weight (ppg)</b>	<b>Viscosity</b>	<b>Water Loss</b>
0 – 2,000'	Fresh - Gel	8.6-8.8	28-34	N/c
2,000' – 4,800'	Fresh-Gel	8.6-8.8	28-34	N/c
4,800' – 18,925' Lateral	Oil Base	8.8-9.0	58-68	N/c - 6

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

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

**7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:**

**EOG RESOURCES, INC.  
TRIGG 5 FED NO. 601H**

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- (C) H<sub>2</sub>S monitoring and detection equipment will be utilized from surface casing point to TD.

**8. LOGGING, TESTING AND CORING PROGRAM:**

Open-hole logs are not planned for this well.

GR-CCL Will be run in cased hole during completions phase of operations.

**9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:**

The estimated bottom-hole temperature (BHT) at TD is 170 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 5207 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

**10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:**

The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

- (A) EOG Resources requests the option to contract a Surface Rig to drill, set surface casing, and cement on the subject well. If the timing between rigs is such that EOG Resources would not be able to preset the surface, the Primary Rig will MIRU and drill the well in its entirety per the APD.

**11. WELLHEAD:**

A multi-bowl wellhead system will be utilized.

**EOG RESOURCES, INC.**  
**TRIGG 5 FED NO. 601H**

After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum working pressure of 5000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5000 psi pressure test. This pressure test will be repeated at least every 30 days, as per Onshore Order No. 2

The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 5000 psi.

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Stream Flo FBD100 Multi-Bowl WH system has been sent to the NM BLM office in Carlsbad, NM.

The wellhead will be installed by a third party welder while being monitored by WH vendor's representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

Both the surface and intermediate casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.



## **EOG Resources - Midland**

**Lea County, NM (NAD 83 NME)**

**Trigg 5 Fed**

**#601H**

**OH**

**Plan: Plan #0.1**

## **Standard Planning Report**

**16 August, 2018**



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #801H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3475.0usft
Project:	Lea County, NM (NAD 83 NME)	ND Reference:	KB = 25 @ 3475.0usft
Site:	Trigg 5 Fed	North Reference:	Grid
Well:	#601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Trigg 5 Fed				
Site Position:		Northing:	488,532.00 usft	Latitude:	32° 20' 22.444 N
From:	Map	Easting:	830,653.00 usft	Longitude:	103° 23' 47.654 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.50 °

Well	#601H					
Well Position	+N/-S	0.0 usft	Northing:	488,532.00 usft	Latitude:	32° 20' 22.444 N
	+E/-W	0.0 usft	Easting:	830,653.00 usft	Longitude:	103° 23' 47.654 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,450.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/16/2018	6.75	60.18	47,904.84561264

Design	Plan #0.1			
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	180.91

Plan Survey Tool Program	Data 8/16/2018			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	18,924.7 Plan #0.1 (OH)	MWD	
			OWSG MWD - Standard	

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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,176.7	3.53	339.27	3,176.6	5.1	-1.9	2.00	2.00	0.00	339.27	
10,701.3	3.53	339.27	10,686.9	438.9	-166.1	0.00	0.00	0.00	0.00	
10,878.0	0.00	0.00	10,863.5	444.0	-168.0	2.00	-2.00	0.00	180.00	KOP(Trigg 5 Fed #60
11,628.0	90.00	179.62	11,341.0	-33.5	-164.9	12.00	12.00	23.95	179.62	
18,924.7	90.00	179.62	11,341.0	-7,330.0	-117.0	0.00	0.00	0.00	0.00	PBHL(Trigg 5 Fed #60



Planning Report

<b>Database:</b>	EDM 5000.14	<b>Local Co-ordinate Reference:</b>	Well #601H
<b>Company:</b>	EOG Resources - Midland	<b>TVD Reference:</b>	KB = 25 @ 3475.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	KB = 25 @ 3475.0usft
<b>Site:</b>	Trigg 5 Fed	<b>North Reference:</b>	Grid
<b>Well:</b>	#601H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #0.1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld 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	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	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	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	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	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	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	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	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	0.00
900.0	0.00	0.00	900.0	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	0.0	0.00	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
3,100.0	2.00	339.27	3,100.0	1.6	-0.6	-1.6	2.00	2.00	0.00	0.00
3,176.7	3.53	339.27	3,176.6	5.1	-1.9	-5.1	2.00	2.00	0.00	0.00
3,200.0	3.53	339.27	3,199.8	6.4	-2.4	-6.4	0.00	0.00	0.00	0.00
3,300.0	3.53	339.27	3,299.7	12.2	-4.6	-12.1	0.00	0.00	0.00	0.00
3,400.0	3.53	339.27	3,399.5	18.0	-6.8	-17.9	0.00	0.00	0.00	0.00
3,500.0	3.53	339.27	3,499.3	23.7	-9.0	-23.6	0.00	0.00	0.00	0.00
3,600.0	3.53	339.27	3,599.1	29.5	-11.2	-29.3	0.00	0.00	0.00	0.00
3,700.0	3.53	339.27	3,698.9	35.3	-13.3	-35.0	0.00	0.00	0.00	0.00
3,800.0	3.53	339.27	3,798.7	41.0	-15.5	-40.8	0.00	0.00	0.00	0.00
3,900.0	3.53	339.27	3,898.5	46.8	-17.7	-46.5	0.00	0.00	0.00	0.00
4,000.0	3.53	339.27	3,998.3	52.6	-19.9	-52.2	0.00	0.00	0.00	0.00
4,100.0	3.53	339.27	4,098.1	58.3	-22.1	-58.0	0.00	0.00	0.00	0.00
4,200.0	3.53	339.27	4,197.9	64.1	-24.3	-63.7	0.00	0.00	0.00	0.00
4,300.0	3.53	339.27	4,297.8	69.9	-26.4	-69.4	0.00	0.00	0.00	0.00
4,400.0	3.53	339.27	4,397.6	75.6	-28.6	-75.2	0.00	0.00	0.00	0.00
4,500.0	3.53	339.27	4,497.4	81.4	-30.8	-80.9	0.00	0.00	0.00	0.00
4,600.0	3.53	339.27	4,597.2	87.2	-33.0	-86.6	0.00	0.00	0.00	0.00
4,700.0	3.53	339.27	4,697.0	92.9	-35.2	-92.3	0.00	0.00	0.00	0.00
4,800.0	3.53	339.27	4,796.8	98.7	-37.3	-98.1	0.00	0.00	0.00	0.00
4,900.0	3.53	339.27	4,896.6	104.4	-39.5	-103.8	0.00	0.00	0.00	0.00
5,000.0	3.53	339.27	4,996.4	110.2	-41.7	-109.5	0.00	0.00	0.00	0.00
5,100.0	3.53	339.27	5,096.2	116.0	-43.9	-115.3	0.00	0.00	0.00	0.00
5,200.0	3.53	339.27	5,196.0	121.7	-46.1	-121.0	0.00	0.00	0.00	0.00



Planning Report

<b>Database:</b>	EDM 5000.14	<b>Local Co-ordinate Reference:</b>	Well #601H
<b>Company:</b>	EOG Resources - Midland	<b>TVD Reference:</b>	KB = 25 @ 3475.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	KB = 25 @ 3475.0usft
<b>Site:</b>	Trigg 5 Fed	<b>North Reference:</b>	Grid
<b>Well:</b>	#601H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #0.1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,300.0	3.53	339.27	5,295.9	127.5	-48.2	-126.7	0.00	0.00	0.00	
5,400.0	3.53	339.27	5,395.7	133.3	-50.4	-132.5	0.00	0.00	0.00	
5,500.0	3.53	339.27	5,495.5	139.0	-52.6	-138.2	0.00	0.00	0.00	
5,600.0	3.53	339.27	5,595.3	144.8	-54.8	-143.9	0.00	0.00	0.00	
5,700.0	3.53	339.27	5,695.1	150.6	-57.0	-149.6	0.00	0.00	0.00	
5,800.0	3.53	339.27	5,794.9	156.3	-59.2	-155.4	0.00	0.00	0.00	
5,900.0	3.53	339.27	5,894.7	162.1	-61.3	-161.1	0.00	0.00	0.00	
6,000.0	3.53	339.27	5,994.5	167.9	-63.5	-166.8	0.00	0.00	0.00	
6,100.0	3.53	339.27	6,094.3	173.6	-65.7	-172.6	0.00	0.00	0.00	
6,200.0	3.53	339.27	6,194.1	179.4	-67.9	-178.3	0.00	0.00	0.00	
6,300.0	3.53	339.27	6,293.9	185.2	-70.1	-184.0	0.00	0.00	0.00	
6,400.0	3.53	339.27	6,393.8	190.9	-72.2	-189.7	0.00	0.00	0.00	
6,500.0	3.53	339.27	6,493.6	196.7	-74.4	-195.5	0.00	0.00	0.00	
6,600.0	3.53	339.27	6,593.4	202.5	-76.6	-201.2	0.00	0.00	0.00	
6,700.0	3.53	339.27	6,693.2	208.2	-78.8	-206.9	0.00	0.00	0.00	
6,800.0	3.53	339.27	6,793.0	214.0	-81.0	-212.7	0.00	0.00	0.00	
6,900.0	3.53	339.27	6,892.8	219.8	-83.1	-218.4	0.00	0.00	0.00	
7,000.0	3.53	339.27	6,992.6	225.5	-85.3	-224.1	0.00	0.00	0.00	
7,100.0	3.53	339.27	7,092.4	231.3	-87.5	-229.9	0.00	0.00	0.00	
7,200.0	3.53	339.27	7,192.2	237.0	-89.7	-235.6	0.00	0.00	0.00	
7,300.0	3.53	339.27	7,292.0	242.8	-91.9	-241.3	0.00	0.00	0.00	
7,400.0	3.53	339.27	7,391.9	248.6	-94.1	-247.0	0.00	0.00	0.00	
7,500.0	3.53	339.27	7,491.7	254.3	-96.2	-252.8	0.00	0.00	0.00	
7,600.0	3.53	339.27	7,591.5	260.1	-98.4	-258.5	0.00	0.00	0.00	
7,700.0	3.53	339.27	7,691.3	265.9	-100.6	-264.2	0.00	0.00	0.00	
7,800.0	3.53	339.27	7,791.1	271.6	-102.8	-270.0	0.00	0.00	0.00	
7,900.0	3.53	339.27	7,890.9	277.4	-105.0	-275.7	0.00	0.00	0.00	
8,000.0	3.53	339.27	7,990.7	283.2	-107.1	-281.4	0.00	0.00	0.00	
8,100.0	3.53	339.27	8,090.5	288.9	-109.3	-287.2	0.00	0.00	0.00	
8,200.0	3.53	339.27	8,190.3	294.7	-111.5	-292.9	0.00	0.00	0.00	
8,300.0	3.53	339.27	8,290.1	300.5	-113.7	-298.6	0.00	0.00	0.00	
8,400.0	3.53	339.27	8,390.0	306.2	-115.9	-304.3	0.00	0.00	0.00	
8,500.0	3.53	339.27	8,489.8	312.0	-118.1	-310.1	0.00	0.00	0.00	
8,600.0	3.53	339.27	8,589.6	317.8	-120.2	-315.8	0.00	0.00	0.00	
8,700.0	3.53	339.27	8,689.4	323.5	-122.4	-321.5	0.00	0.00	0.00	
8,800.0	3.53	339.27	8,789.2	329.3	-124.6	-327.3	0.00	0.00	0.00	
8,900.0	3.53	339.27	8,889.0	335.1	-126.8	-333.0	0.00	0.00	0.00	
9,000.0	3.53	339.27	8,988.8	340.8	-129.0	-338.7	0.00	0.00	0.00	
9,100.0	3.53	339.27	9,088.6	346.6	-131.1	-344.4	0.00	0.00	0.00	
9,200.0	3.53	339.27	9,188.4	352.4	-133.3	-350.2	0.00	0.00	0.00	
9,300.0	3.53	339.27	9,288.2	358.1	-135.5	-355.9	0.00	0.00	0.00	
9,400.0	3.53	339.27	9,388.1	363.9	-137.7	-361.6	0.00	0.00	0.00	
9,500.0	3.53	339.27	9,487.9	369.6	-139.9	-367.4	0.00	0.00	0.00	
9,600.0	3.53	339.27	9,587.7	375.4	-142.0	-373.1	0.00	0.00	0.00	
9,700.0	3.53	339.27	9,687.5	381.2	-144.2	-378.8	0.00	0.00	0.00	
9,800.0	3.53	339.27	9,787.3	386.9	-146.4	-384.6	0.00	0.00	0.00	
9,900.0	3.53	339.27	9,887.1	392.7	-148.6	-390.3	0.00	0.00	0.00	
10,000.0	3.53	339.27	9,986.9	398.5	-150.8	-396.0	0.00	0.00	0.00	
10,100.0	3.53	339.27	10,086.7	404.2	-153.0	-401.7	0.00	0.00	0.00	
10,200.0	3.53	339.27	10,186.5	410.0	-155.1	-407.5	0.00	0.00	0.00	
10,300.0	3.53	339.27	10,286.3	415.8	-157.3	-413.2	0.00	0.00	0.00	
10,400.0	3.53	339.27	10,386.2	421.5	-159.5	-418.9	0.00	0.00	0.00	
10,500.0	3.53	339.27	10,486.0	427.3	-161.7	-424.7	0.00	0.00	0.00	
10,600.0	3.53	339.27	10,585.8	433.1	-163.9	-430.4	0.00	0.00	0.00	

<b>Database:</b>	EDM 5000.14	<b>Local Co-ordinate Reference:</b>	Well #601H
<b>Company:</b>	EOG Resources - Midland	<b>TVD Reference:</b>	KB = 25 @ 3475.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	KB = 25 @ 3475.0usft
<b>Site:</b>	Trigg 5 Fed	<b>North Reference:</b>	Grid
<b>Well:</b>	#601H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #0.1		

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)	
10,701.3	3.53	339.27	10,686.9	438.9	-166.1	-436.2	0.00	0.00	0.00	
10,800.0	1.56	339.27	10,785.5	443.0	-167.6	-440.3	2.00	-2.00	0.00	
10,878.0	0.00	0.00	10,863.5	444.0	-168.0	-441.3	2.00	-2.00	0.00	
<b>KOP(Trigg 5 Fed #601H)</b>										
10,900.0	2.64	179.62	10,885.5	443.5	-168.0	-440.8	12.00	12.00	0.00	
10,925.0	5.64	179.62	10,910.4	441.7	-168.0	-439.0	12.00	12.00	0.00	
10,950.0	8.64	179.62	10,935.2	438.6	-168.0	-435.9	12.00	12.00	0.00	
10,975.0	11.64	179.62	10,959.8	434.2	-167.9	-431.5	12.00	12.00	0.00	
11,000.0	14.64	179.62	10,984.1	428.5	-167.9	-425.8	12.00	12.00	0.00	
11,025.0	17.64	179.62	11,008.2	421.6	-167.9	-418.8	12.00	12.00	0.00	
11,050.0	20.64	179.62	11,031.8	413.4	-167.8	-410.6	12.00	12.00	0.00	
11,075.0	23.64	179.62	11,054.9	403.9	-167.7	-401.2	12.00	12.00	0.00	
11,100.0	26.64	179.62	11,077.6	393.3	-167.7	-390.6	12.00	12.00	0.00	
11,125.0	29.64	179.62	11,099.6	381.5	-167.6	-378.8	12.00	12.00	0.00	
11,150.0	32.64	179.62	11,121.0	368.6	-167.5	-365.9	12.00	12.00	0.00	
11,175.0	35.64	179.62	11,141.7	354.6	-167.4	-351.9	12.00	12.00	0.00	
11,200.0	38.64	179.62	11,161.6	339.5	-167.3	-336.8	12.00	12.00	0.00	
11,225.0	41.64	179.62	11,180.7	323.4	-167.2	-320.7	12.00	12.00	0.00	
11,250.0	44.64	179.62	11,199.0	306.3	-167.1	-303.6	12.00	12.00	0.00	
11,275.0	47.64	179.62	11,216.3	288.3	-167.0	-285.6	12.00	12.00	0.00	
11,276.6	47.83	179.62	11,217.4	287.1	-167.0	-284.4	12.00	12.00	0.00	
<b>FTP(Trigg 5 Fed #601H)</b>										
11,300.0	50.64	179.62	11,232.6	269.4	-166.9	-266.7	12.00	12.00	0.00	
11,325.0	53.64	179.62	11,248.0	249.6	-166.7	-246.9	12.00	12.00	0.00	
11,350.0	56.64	179.62	11,262.3	229.1	-166.6	-226.4	12.00	12.00	0.00	
11,375.0	59.64	179.62	11,275.5	207.9	-166.5	-205.2	12.00	12.00	0.00	
11,400.0	62.64	179.62	11,287.5	186.0	-166.3	-183.3	12.00	12.00	0.00	
11,425.0	65.64	179.62	11,298.4	163.5	-166.2	-160.8	12.00	12.00	0.00	
11,450.0	68.64	179.62	11,308.2	140.5	-166.0	-137.8	12.00	12.00	0.00	
11,475.0	71.64	179.62	11,316.6	117.0	-165.9	-114.3	12.00	12.00	0.00	
11,500.0	74.64	179.62	11,323.9	93.0	-165.7	-90.4	12.00	12.00	0.00	
11,525.0	77.64	179.62	11,329.9	68.8	-165.5	-66.1	12.00	12.00	0.00	
11,550.0	80.64	179.62	11,334.6	44.2	-165.4	-41.6	12.00	12.00	0.00	
11,575.0	83.64	179.62	11,338.0	19.5	-165.2	-16.8	12.00	12.00	0.00	
11,600.0	86.64	179.62	11,340.1	-5.4	-165.1	8.1	12.00	12.00	0.00	
11,625.0	89.64	179.62	11,341.0	-30.4	-164.9	33.0	12.00	12.00	0.00	
11,628.0	90.00	179.62	11,341.0	-33.5	-164.9	36.1	12.00	12.00	0.00	
11,700.0	90.00	179.62	11,341.0	-105.4	-164.4	108.0	0.00	0.00	0.00	
11,800.0	90.00	179.62	11,341.0	-205.4	-163.7	208.0	0.00	0.00	0.00	
11,900.0	90.00	179.62	11,341.0	-305.4	-163.1	308.0	0.00	0.00	0.00	
12,000.0	90.00	179.62	11,341.0	-405.4	-162.4	408.0	0.00	0.00	0.00	
12,100.0	90.00	179.62	11,341.0	-505.4	-161.8	507.9	0.00	0.00	0.00	
12,200.0	90.00	179.62	11,341.0	-605.4	-161.1	607.9	0.00	0.00	0.00	
12,300.0	90.00	179.62	11,341.0	-705.4	-160.5	707.9	0.00	0.00	0.00	
12,400.0	90.00	179.62	11,341.0	-805.4	-159.8	807.9	0.00	0.00	0.00	
12,500.0	90.00	179.62	11,341.0	-905.4	-159.1	907.8	0.00	0.00	0.00	
12,600.0	90.00	179.62	11,341.0	-1,005.4	-158.5	1,007.8	0.00	0.00	0.00	
12,700.0	90.00	179.62	11,341.0	-1,105.4	-157.8	1,107.8	0.00	0.00	0.00	
12,800.0	90.00	179.62	11,341.0	-1,205.4	-157.2	1,207.8	0.00	0.00	0.00	
12,900.0	90.00	179.62	11,341.0	-1,305.4	-156.5	1,307.7	0.00	0.00	0.00	
13,000.0	90.00	179.62	11,341.0	-1,405.4	-155.9	1,407.7	0.00	0.00	0.00	
13,100.0	90.00	179.62	11,341.0	-1,505.4	-155.2	1,507.7	0.00	0.00	0.00	
13,200.0	90.00	179.62	11,341.0	-1,605.4	-154.6	1,607.6	0.00	0.00	0.00	
13,300.0	90.00	179.62	11,341.0	-1,705.4	-153.9	1,707.6	0.00	0.00	0.00	

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #601H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3475.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3475.0usft
Site:	Trigg 5 Fed	North Reference:	Grid
Well:	#601H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,400.0	90.00	179.62	11,341.0	-1,805.4	-153.2	1,807.6	0.00	0.00	0.00
13,500.0	90.00	179.62	11,341.0	-1,905.4	-152.6	1,907.6	0.00	0.00	0.00
13,600.0	90.00	179.62	11,341.0	-2,005.4	-151.9	2,007.5	0.00	0.00	0.00
13,700.0	90.00	179.62	11,341.0	-2,105.4	-151.3	2,107.5	0.00	0.00	0.00
13,800.0	90.00	179.62	11,341.0	-2,205.4	-150.6	2,207.5	0.00	0.00	0.00
13,900.0	90.00	179.62	11,341.0	-2,305.4	-150.0	2,307.5	0.00	0.00	0.00
14,000.0	90.00	179.62	11,341.0	-2,405.4	-149.3	2,407.4	0.00	0.00	0.00
14,100.0	90.00	179.62	11,341.0	-2,505.4	-148.7	2,507.4	0.00	0.00	0.00
14,200.0	90.00	179.62	11,341.0	-2,605.4	-148.0	2,607.4	0.00	0.00	0.00
14,300.0	90.00	179.62	11,341.0	-2,705.4	-147.3	2,707.4	0.00	0.00	0.00
14,400.0	90.00	179.62	11,341.0	-2,805.4	-146.7	2,807.3	0.00	0.00	0.00
14,500.0	90.00	179.62	11,341.0	-2,905.4	-146.0	2,907.3	0.00	0.00	0.00
14,600.0	90.00	179.62	11,341.0	-3,005.4	-145.4	3,007.3	0.00	0.00	0.00
14,700.0	90.00	179.62	11,341.0	-3,105.4	-144.7	3,107.3	0.00	0.00	0.00
14,800.0	90.00	179.62	11,341.0	-3,205.4	-144.1	3,207.2	0.00	0.00	0.00
14,900.0	90.00	179.62	11,341.0	-3,305.4	-143.4	3,307.2	0.00	0.00	0.00
15,000.0	90.00	179.62	11,341.0	-3,405.3	-142.7	3,407.2	0.00	0.00	0.00
15,100.0	90.00	179.62	11,341.0	-3,505.3	-142.1	3,507.2	0.00	0.00	0.00
15,200.0	90.00	179.62	11,341.0	-3,605.3	-141.4	3,607.1	0.00	0.00	0.00
15,300.0	90.00	179.62	11,341.0	-3,705.3	-140.8	3,707.1	0.00	0.00	0.00
15,400.0	90.00	179.62	11,341.0	-3,805.3	-140.1	3,807.1	0.00	0.00	0.00
15,500.0	90.00	179.62	11,341.0	-3,905.3	-139.5	3,907.1	0.00	0.00	0.00
15,600.0	90.00	179.62	11,341.0	-4,005.3	-138.8	4,007.0	0.00	0.00	0.00
15,700.0	90.00	179.62	11,341.0	-4,105.3	-138.2	4,107.0	0.00	0.00	0.00
15,800.0	90.00	179.62	11,341.0	-4,205.3	-137.5	4,207.0	0.00	0.00	0.00
15,900.0	90.00	179.62	11,341.0	-4,305.3	-136.8	4,307.0	0.00	0.00	0.00
16,000.0	90.00	179.62	11,341.0	-4,405.3	-136.2	4,406.9	0.00	0.00	0.00
16,100.0	90.00	179.62	11,341.0	-4,505.3	-135.5	4,506.9	0.00	0.00	0.00
16,200.0	90.00	179.62	11,341.0	-4,605.3	-134.9	4,606.9	0.00	0.00	0.00
16,300.0	90.00	179.62	11,341.0	-4,705.3	-134.2	4,706.9	0.00	0.00	0.00
16,400.0	90.00	179.62	11,341.0	-4,805.3	-133.6	4,806.8	0.00	0.00	0.00
16,500.0	90.00	179.62	11,341.0	-4,905.3	-132.9	4,906.8	0.00	0.00	0.00
16,600.0	90.00	179.62	11,341.0	-5,005.3	-132.3	5,006.8	0.00	0.00	0.00
16,700.0	90.00	179.62	11,341.0	-5,105.3	-131.6	5,106.8	0.00	0.00	0.00
16,800.0	90.00	179.62	11,341.0	-5,205.3	-130.9	5,206.7	0.00	0.00	0.00
16,900.0	90.00	179.62	11,341.0	-5,305.3	-130.3	5,306.7	0.00	0.00	0.00
17,000.0	90.00	179.62	11,341.0	-5,405.3	-129.6	5,406.7	0.00	0.00	0.00
17,100.0	90.00	179.62	11,341.0	-5,505.3	-129.0	5,506.7	0.00	0.00	0.00
17,200.0	90.00	179.62	11,341.0	-5,605.3	-128.3	5,606.6	0.00	0.00	0.00
17,300.0	90.00	179.62	11,341.0	-5,705.3	-127.7	5,706.6	0.00	0.00	0.00
17,400.0	90.00	179.62	11,341.0	-5,805.3	-127.0	5,806.6	0.00	0.00	0.00
17,500.0	90.00	179.62	11,341.0	-5,905.3	-126.3	5,906.6	0.00	0.00	0.00
17,600.0	90.00	179.62	11,341.0	-6,005.3	-125.7	6,006.5	0.00	0.00	0.00
17,700.0	90.00	179.62	11,341.0	-6,105.3	-125.0	6,106.5	0.00	0.00	0.00
17,800.0	90.00	179.62	11,341.0	-6,205.3	-124.4	6,206.5	0.00	0.00	0.00
17,900.0	90.00	179.62	11,341.0	-6,305.3	-123.7	6,306.5	0.00	0.00	0.00
18,000.0	90.00	179.62	11,341.0	-6,405.3	-123.1	6,406.4	0.00	0.00	0.00
18,100.0	90.00	179.62	11,341.0	-6,505.3	-122.4	6,506.4	0.00	0.00	0.00
18,200.0	90.00	179.62	11,341.0	-6,605.3	-121.8	6,606.4	0.00	0.00	0.00
18,300.0	90.00	179.62	11,341.0	-6,705.3	-121.1	6,706.4	0.00	0.00	0.00
18,400.0	90.00	179.62	11,341.0	-6,805.3	-120.4	6,806.3	0.00	0.00	0.00
18,500.0	90.00	179.62	11,341.0	-6,905.3	-119.8	6,906.3	0.00	0.00	0.00
18,600.0	90.00	179.62	11,341.0	-7,005.3	-119.1	7,006.3	0.00	0.00	0.00
18,700.0	90.00	179.62	11,341.0	-7,105.3	-118.5	7,106.3	0.00	0.00	0.00



Planning Report

<b>Database:</b>	EDM 5000.14	<b>Local Co-ordinate Reference:</b>	Well #601H
<b>Company:</b>	EOG Resources - Midland	<b>TVD Reference:</b>	KB = 25 @ 3475.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	KB = 25 @ 3475.0usft
<b>Site:</b>	Trigg 5 Fed	<b>North Reference:</b>	Grid
<b>Well:</b>	#601H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #0.1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
18,800.0	90.00	179.62	11,341.0	-7,205.3	-117.8	7,206.2	0.00	0.00	0.00	
18,900.0	90.00	179.62	11,341.0	-7,305.3	-117.2	7,306.2	0.00	0.00	0.00	
18,924.7	90.00	179.62	11,341.0	-7,330.0	-117.0	7,330.9	0.00	0.00	0.00	
PBHL(Trigg 5 Fed #601H)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
KOP(Trigg 5 Fed #601H) - hit/miss target - Shape - Point	0.00	0.00	10,863.5	444.0	-168.0	488,976.00	830,485.00	32° 20' 26.852 N	103° 23' 49.567 W	
FTP(Trigg 5 Fed #601H) - plan misses target center by 163.5usft at 11276.6usft MD (11217.4 TVD, 287.1 N, -167.0 E) - Point	0.00	0.00	11,341.0	394.0	-168.0	488,926.00	830,485.00	32° 20' 26.357 N	103° 23' 49.572 W	
PBHL(Trigg 5 Fed #601H) - plan hits target center - Point	0.00	0.00	11,341.0	-7,330.0	-117.0	481,202.00	830,536.00	32° 19' 9.927 N	103° 23' 49.765 W	