#### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018

	Empires, variating	•
5. Lease	Serial No.	

NMNM017241

APPLICATION FOR	DEDMITTO	DDILL	AD DEENTED
APPLICATION FOR	PERIVITIO	DRILL	OR REENIER

APPLICATION FOR PERMIT TO DI		6. If Indian, Allotee or Tribe Name			
1a. Type of work: ✓ DRILL RE   1b. Type of Well: ✓ Oil Well Gas Well Ot   1c. Type of Completion: Hydraulic Fracturing ✓ Sin		7. If Unit or CA Agreement, Name and No.  8. Lease Name and Well No.  YUKON 20 FED COM [327233]  703H			
2. Name of Operator EOG RESOURCES INCORPORATED [7377]				9. API Well No. 30	)-025-47170
3a. Address 1111 Bagby Sky Lobby2, Houston, TX 77002	3b. Phone No. (713) 651-7	o. (include area code	e)	10. Field and Pool, or PERMIAN/WC-025	Exploratory <b>[9809</b> G-09 S253309P; UPF
4. Location of Well (Report location clearly and in accordance we At surface NENE / 679 FNL / 1177 FEL / LAT 32.20845  At proposed prod. zone SESE / 100 FSL / 1254 FEL / LA	5 / LONG -10	03.4872401	4543	11. Sec., T. R. M. or E SEC 20/T24S/R34E	Blk. and Survey or Area /NMP
14. Distance in miles and direction from nearest town or post office	ce*			12. County or Parish LEA	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of act			ing Unit dedicated to this well	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  33 feet	19. Proposed Depth 20. BL1 12157 feet / 22393 feet FED: N			BIA Bond No. in file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3529 feet	01/01/2021				n
The following, completed in accordance with the requirements of (as applicable)  1. Well plat certified by a registered surveyor.  2. A Drilling Plan.  3. A Surface Use Plan (if the location is on National Forest Syster SUPO must be filed with the appropriate Forest Service Office)	n Lands, the	and Gas Order No. 1  4. Bond to cover th Item 20 above). 5. Operator certific	e operation		existing bond on file (see
25. Signature (Electronic Submission)	I	BLM.   Name (Printed/Typed)   Date   Lisa Trascher / Ph: (713) 651-7000   09/17/20			Date 09/17/2019
Title Regulatory Specialist		· · ·			
Approved by (Signature) (Electronic Submission)	I	(Printed/Typed) Layton / Ph: (575)	234-5959	1	Date 04/08/2020
Title Assistant Field Manager Lands & Minerals		ad Field Office			
Application approval does not warrant or certify that the applican applicant to conduct operations thereon. Conditions of approval, if any, are attached.	t holds legal o	r equitable title to the	nose rights	in the subject lease whi	ch would entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m	ake it a crime	for any person know	wingly and	willfully to make to an	y department or agency

GCP Rec 05/07/2020

APPROVED WITH CONDITIONS **Approval Date: 04/08/2020** 

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



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\*(Instructions on page 2)

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

**OPERATOR'S NAME: EOG Resources Incorporated** 

LEASE NO.: NMNM017241

**WELL NAME & NO.:** Yukon 20 Federal Com 703H

**SURFACE HOLE FOOTAGE:** 679'/N & 1177'/E **BOTTOM HOLE FOOTAGE** 100'/S & 1254'/E

**LOCATION:** | Section 29, T.24 S., R.34 E., NMPM

**COUNTY:** Lea County, New Mexico

COA

H2S	C Yes	⊙ No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	• Low	O Medium	C High
Cave/Karst Potential	Critical Critical		
Variance	© None	• Flex Hose	Other
Wellhead	C Conventional	<ul><li>Multibowl</li></ul>	O Both
Other	☐ 4 String Area	☐ Capitan Reef	□WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	<b>▼</b> COM	□ 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**

#### The primary casing design is the only design approved for this APD.

- 1. The 9-5/8 inch surface casing shall be set at approximately 1,175 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

Page 1 of 8

**Approval Date: 04/08/2020** 

- 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. The intermediate casing shall be set at approximately **11,480 feet** and the minimum required fill of cement behind the **7-5/8 inch** intermediate casing is:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage.

#### First Stage

• Operator will cement to **7,605 feet** with intent to reach the top of Brushy Canyon.

#### **Second Stage**

• Operator will perform bradenhead squeeze. Cement to surface. If cement does not circulate see B.1.a, c-d above.

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus. Operator must run Echo-meter to verify fluid top and the volume of displacement fluid above the cement slurry in the annulus. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

- 3. 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.

#### 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 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 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.

#### 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.
- 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.

Page 3 of 8

# **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
     Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575)
     361-2822
  - ✓ Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 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. 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. The casing intergrity 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 intergrity 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-P 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 Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP
  - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including

- lead 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, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- 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.

#### 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.

YJ 03/10/2020

Page 8 of 8

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

Permian

# 2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	838'
Tamarisk Anhydrite	1,103'
Top of Salt	1,378'
Base of Salt	4,938'
Lamar	5,199'
Bell Canyon	5,225'
Cherry Canyon	5,603'
Brushy Canyon	7,639'
Bone Spring Lime	9,116'
Leonard	9,181'
1 <sup>st</sup> Bone Spring Sand	10,069'
2 <sup>nd</sup> Bone Spring Shale	10,281'
2 <sup>nd</sup> Bone Spring Sand	10,473
3 <sup>rd</sup> Bone Spring Carb	10,976'
3 <sup>rd</sup> Bone Spring Sand	11,661'
Wolfcamp	12,128'
TD	12,157'

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

0- 400'	Fresh Water
5,603'	Oil
7,639'	Oil
10,069'	Oil
10,281'	Oil
10,473'	Oil
10,976'	Oil
11,661'	Oil
12,128'	Oil
	7,639' 10,069' 10,281' 10,473' 10,976' 11,661'

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 9.625" casing at 1,140' and circulating cement back to surface.

#### 4. CASING PROGRAM - NEW

Hole		Csg				DF <sub>min</sub>	DF <sub>min</sub>	$\mathbf{DF}_{\mathbf{min}}$
Size	Interval	OD	Weight	Grade	Conn	Collapse	Burst	Tension
12.25"	0'-1,140'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75"	0'-11,480'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0'-10,980'	5.5"	20#	P-110EC	DWC/C-IS	1.125	1.25	1.60
					MS			
6.75"	10,980'-11,480'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60
6.75"	11,480' – 22,394'	5.5"	20#	P-110EC	DWC/C-IS	1.125	1.25	1.60
					MS			

Variance is requested to waive the centralizer requirements for the 7-5/8" 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.

Variance is also requested to waive any centralizer requirements for the 5-1/2" FJ casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive the annular clearance requirements for the 5-1/2" casing by 7-5/8" casing annulus to the proposed top of cement.

EOG requests permission to allow deviation from the 0.422" annulus clearance requirement from Onshore Order #2 under the following conditions:

- Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500" overlap between both casing strings.
- Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

#### **Cementing Program:**

	No.	Wt.	Yld	
Depth	Sacks	ppg	Ft <sup>3</sup> /sk	Slurry Description
1,140° 9-5/8°	1,000	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl <sub>2</sub> + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	100	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 940')
11,480° 7-5/8°	500	14.2	1.11	1 <sup>st</sup> Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,600')
	1,000	12.7	2.30	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1%
				PreMag-M + 6% Bentonite Gel (TOC @ surface)
22,394° 5-1/2"	1,000	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3%
3-1/2				Microbond (TOC @ 10,980')

Additive	Purpose
Bentonite Gel	Lightweight/Lost circulation prevention
Calcium Chloride	Accelerator
Cello-flake	Lost circulation prevention
Sodium Metasilicate	Accelerator
MagOx	Expansive agent
Pre-Mag-M	Expansive agent
Sodium Chloride	Accelerator
FL-62	Fluid loss control
Halad-344	Fluid loss control
Halad-9	Fluid loss control
HR-601	Retarder
Microbond	Expansive Agent

EOG requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (7,639') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 1,000 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. The final cement top will be verified by Echo-meter.

EOG will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

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:

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 (5,000-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.

Variance is requested to use a 5,000 psi annular BOP with the 10,000 psi BOP stack.

Pipe rams and 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.

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,140'	Fresh - Gel	8.6-8.8	28-34	N/c
1,140' – 11,480'	Brine	10.0-10.2	28-34	N/c
11,480' – 11,712'	Oil Base	8.7-9.4	58-68	N/c - 6
11,712' – 22,394'	Oil Base	10.0-14.0	58-68	3 - 6
Lateral				

The highest mud weight needed to balance formation is expected to be 11.5 ppg. In order to maintain hole stability, mud weights up to 14.0 ppg may be utilized.

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:

- (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 181 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 8,841 psig and a maximum anticipated surface pressure of 6,166 psig (based on 14.0 ppg MW). No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. Severe loss circulation is expected from 7,300' to Intermediate casing point.

#### 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. After WOC 8 hours or 500 psi compressive strength (whichever is greater), the Surface Rig will move off so the wellhead can be installed. A welder will cut the casing to the proper height and weld on the wellhead (both "A" and "B" sections). The weld will be tested to 1000 psi. All valves will be closed and a wellhead cap will be installed (diagram attached). 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.

After running the 9-5/8" surface casing, a 9-5/8" BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 10,000 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 10,000 psi.

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Cactus 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.

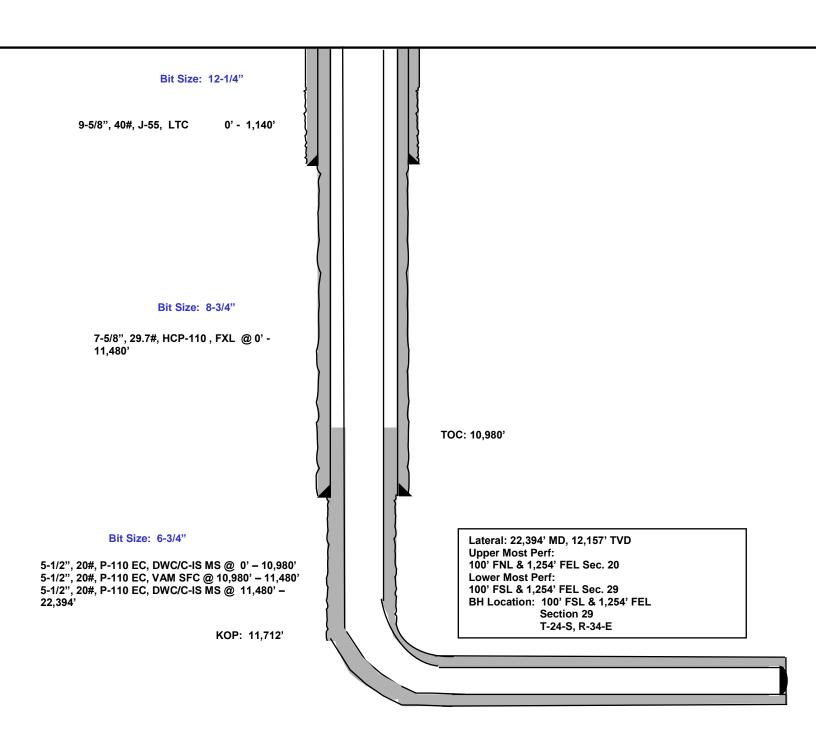
Casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

679' FNL 1,177' FEL Section 20 T-24-S, R-34-E

**Proposed Wellbore** 

KB: 3,554' GL: 3,529'

API: 30-025-\*\*\*\*





# **EOG Resources - Midland**

Lea County, NM (NAD 83 NME) Yukon 20 Fed Com #703H

OH

Plan: Plan #0.1

# **Standard Planning Report**

12 July, 2019



EDM 5000.14 Database:

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME)

Site: Yukon 20 Fed Com

Well: #703H Wellbore: ОН Design: Plan #0.1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well #703H

KB = 25 @ 3554.0usft KB = 25 @ 3554.0usft

179.94

Grid

Minimum Curvature

Project Lea County, NM (NAD 83 NME)

Map System: US State Plane 1983 North American Datum 1983 Geo Datum:

New Mexico Eastern Zone Map Zone:

System Datum: Mean Sea Level

0.0

Site Yukon 20 Fed Com

Northing: 440,644.00 usft Site Position: Latitude: 32° 12' 30.870 N From: Мар Easting: 803,073.00 usft Longitude: 103° 29' 13.505 W **Position Uncertainty:** 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.45

Well #703H

-46.0 usft 440.598.00 usft Latitude: 32° 12' 30.419 N **Well Position** +N/-S Northing: 803,025.00 usft 103° 29' 14.068 W +E/-W -48.0 usft Easting: Longitude:

**Position Uncertainty** 0.0 usft Wellhead Elevation: **Ground Level:** 3,529.0 usft

Wellbore ОН

Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) IGRF2015 7/11/2019 6.69 60.03 47.724.46172943

Plan #0.1 Design Audit Notes: Version: Phase: **PLAN** Tie On Depth: 0.0 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°)

0.0

Date 7/11/2019 **Plan Survey Tool Program** 

Depth From Depth To

(usft) (usft) Survey (Wellbore)

**Tool Name** Remarks

0.0

0.0 Plan #0.1 (OH) 22,393.6 MWD

OWSG MWD - Standard

**Plan Sections** Vertical Measured Dogleg Build Turn Depth Inclination Azimuth Depth +N/-S +E/-W Rate Rate Rate TFO (usft) (usft) (°/100usft) (°/100usft) (°/100usft) (°) (usft) (usft) (°) (°) Target 0.00 0.00 0.00 0.0 0.0 0.0 0.0 0.00 0.00 0.00 1,200.0 0.00 0.00 1,200.0 0.0 0.0 0.00 0.00 0.00 0.00 -2.0 2.00 2.00 352.57 1,494.7 5.89 352.57 1,494.2 15.0 0.00 7.376.4 5.89 352.57 7.344.8 614.0 -80.0 0.00 0.00 0.00 0.00 7,671.1 0.00 0.00 7,639.0 629.0 -82.0 2.00 -2.00 0.00 180.00 11,711.6 0.00 0.00 11,679.5 629.0 -82.0 0.00 0.00 0.00 0.00 KOP(Yukon 20 FC #7 12,461.6 90.00 179.49 12,157.0 151.6 -77.7 12.00 12.00 23.93 179.49 90.00 179.49 12,157.0 -4,600.0 -35.0 0.00 0.00 0.00 0.00 FedPP(Yukon 20 FC ) 17,213.4 22,393.6 90.00 179.50 12,157.0 -9,780.0 11.0 0.00 0.00 0.00 86.08 PBHL(Yukon 20 FC #



Database: EDM 5000.14

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)

Site: Yukon 20 Fed Com

 Well:
 #703H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

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Survey Calculation Method:

Well #703H

KB = 25 @ 3554.0usft KB = 25 @ 3554.0usft

Grid

inned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
			,						
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	2.00	352.57	1,300.0	1.7	-0.2	-1.7	2.00	2.00	0.00
1,400.0	4.00	352.57	1,399.8	6.9	-0.9	-6.9	2.00	2.00	0.00
1,494.7	5.89	352.57	1,494.2	15.0	-2.0	-15.0	2.00	2.00	0.00
1,500.0	5.89	352.57	1,499.5	15.6	-2.0	-15.6	0.00	0.00	0.00
1,600.0	5.89	352.57	1,598.9	25.7	-3.4	-25.7	0.00	0.00	0.00
1,700.0	5.89	352.57	1,698.4	35.9	-4.7	-35.9	0.00	0.00	0.00
1,800.0	5.89	352.57	1,797.9	46.1	-4.7 -6.0	-35.9 -46.1	0.00	0.00	0.00
1,900.0	5.89	352.57	1,897.3	56.3	-7.3	-56.3	0.00	0.00	0.00
2,000.0	5.89	352.57	1,996.8	66.5	-8.7	-66.5	0.00	0.00	0.00
2,100.0	5.89	352.57	2,096.3	76.7	-10.0	-76.7	0.00	0.00	0.00
2,200.0	5.89	352.57	2,195.8	86.8	-11.3	-86.9	0.00	0.00	0.00
2,300.0	5.89	352.57	2,295.2	97.0	-12.6	-97.0	0.00	0.00	0.00
2,400.0	5.89	352.57	2,394.7	107.2	-14.0	-107.2	0.00	0.00	0.00
2,500.0	5.89	352.57	2,494.2	117.4	-15.3	-117.4	0.00	0.00	0.00
2,600.0	5.89	352.57	2,593.6	127.6	-16.6	-127.6	0.00	0.00	0.00
2,700.0 2,800.0	5.89 5.89	352.57 352.57	2,693.1 2,792.6	137.8 147.9	-18.0 -19.3	-137.8 -148.0	0.00 0.00	0.00 0.00	0.00 0.00
2,900.0	5.89	352.57	2,892.1	158.1	-20.6	-158.1	0.00	0.00	0.00
3,000.0	5.89	352.57	2,991.5	168.3	-21.9	-168.3	0.00	0.00	0.00
3,100.0	5.89	352.57	3,091.0	178.5	-23.3	-178.5	0.00	0.00	0.00
3,200.0	5.89	352.57	3,190.5	188.7	-24.6	-188.7	0.00	0.00	0.00
3,300.0	5.89	352.57	3,289.9	198.9	-25.9	-198.9	0.00	0.00	0.00
3,400.0	5.89	352.57	3,389.4	209.0	-27.3	-209.1	0.00	0.00	0.00
3,500.0	5.89	352.57	3,488.9	219.2	-28.6	-219.3	0.00	0.00	0.00
3,600.0	5.89	352.57		229.4	-29.9	-219.3 -229.4	0.00	0.00	0.00
,			3,588.3						
3,700.0	5.89	352.57	3,687.8	239.6	-31.2	-239.6	0.00	0.00	0.00
3,800.0	5.89	352.57	3,787.3	249.8	-32.6	-249.8	0.00	0.00	0.00
3,900.0	5.89	352.57	3,886.8	260.0	-33.9	-260.0	0.00	0.00	0.00
4,000.0	5.89	352.57	3,986.2	270.1	-35.2	-270.2	0.00	0.00	0.00
4,100.0	5.89	352.57	4,085.7	280.3	-36.5	-280.4	0.00	0.00	0.00
4,200.0	5.89	352.57	4,185.2	290.5	-37.9	-290.6	0.00	0.00	0.00
4,300.0	5.89	352.57	4,284.6	300.7	-39.2	-300.7	0.00	0.00	0.00
4,400.0	5.89	352.57	4,384.1	310.9	-40.5	-310.9	0.00		0.00
								0.00	
4,500.0	5.89	352.57	4,483.6	321.1	-41.9	-321.1	0.00	0.00	0.00
4,600.0	5.89	352.57	4,583.1	331.2	-43.2	-331.3	0.00	0.00	0.00
4,700.0	5.89	352.57	4,682.5	341.4	-44.5	-341.5	0.00	0.00	0.00
4,800.0	5.89	352.57	4,782.0	351.6	-45.8	-351.7	0.00	0.00	0.00
4,900.0	5.89	352.57	4,881.5	361.8	-47.2	-361.8	0.00	0.00	0.00
5,000.0	5.89	352.57	4,980.9	372.0	-48.5	-372.0	0.00	0.00	0.00
5,100.0	5.89	352.57							0.00
	ว ซุล	JJZ.J/	5,080.4	382.2	-49.8	-382.2	0.00	0.00	0.00



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Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)

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 Well:
 #703H

 Wellbore:
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Well #703H

KB = 25 @ 3554.0usft KB = 25 @ 3554.0usft

Grid

sigii.	F Iaii #0. i								
nned 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)
` '			5,279.4		, ,	· · · · ·	,	, ,	, in the second second
5,300.0	5.89	352.57	•	402.5	-52.5	-402.6	0.00	0.00	0.00
5,400.0	5.89	352.57	5,378.8	412.7	-53.8	-412.8	0.00	0.00	0.00
5,500.0	5.89	352.57	5,478.3	422.9	-55.1	<del>-4</del> 23.0	0.00	0.00	0.00
5,600.0	5.89	352.57	5,577.8	433.1	-56.5	-433.1	0.00	0.00	0.00
5,700.0	5.89	352.57	5,677.2	443.3	-57.8	-443.3	0.00	0.00	0.00
5,800.0	5.89	352.57	5,776.7	453.4	-59.1	-453.5	0.00	0.00	0.00
5,900.0	5.89	352.57	5,876.2	463.6	-60.4	-463.7	0.00	0.00	0.00
6,000.0	5.89	352.57	5,975.7	473.8	-61.8	-473.9	0.00	0.00	0.00
6,100.0	5.89	352.57	6,075.1	484.0	-63.1	-484.1	0.00	0.00	0.00
6,200.0	5.89	352.57	6,174.6	494.2	-64.4	-494.3	0.00	0.00	0.00
6,300.0	5.89	352.57	6,274.1	504.4	-65.8	-504.4	0.00	0.00	0.00
6,400.0	5.89	352.57	6,373.5	514.5	-67.1	-514.6	0.00	0.00	0.00
6,500.0	5.89	352.57	6,473.0	524.7	-68.4	-514.8	0.00	0.00	0.00
6,600.0	5.89	352.57	6,572.5	534.9	-69.7	-535.0	0.00	0.00	0.00
6,700.0	5.89	352.57	6,672.0	545.1	-71.1	-545.2	0.00	0.00	0.00
6,800.0	5.89	352.57	6,771.4	555.3	-72.4	-555.4	0.00	0.00	0.00
6,900.0	5.89	352.57	6,870.9	565.5	-73.7	-565.5	0.00	0.00	0.00
7,000.0	5.89	352.57	6,970.4	575.6	-75.0	-575.7	0.00	0.00	0.00
7,100.0	5.89	352.57	7,069.8	585.8	-76.4	-585.9	0.00	0.00	0.00
7,200.0	5.89	352.57	7,169.3	596.0	-77.7 -70.0	-596.1	0.00	0.00	0.00
7,300.0	5.89	352.57	7,268.8	606.2	-79.0	-606.3	0.00	0.00	0.00
7,376.4	5.89	352.57	7,344.8	614.0	-80.0	-614.1	0.00	0.00	0.00
7,400.0	5.42	352.57	7,368.3	616.3	-80.3	-616.4	2.00	-2.00	0.00
7,500.0	3.42	352.57	7,468.0	623.9	-81.3	-624.0	2.00	-2.00	0.00
7,600.0	1.42	352.57	7,567.9	628.1	-81.9	-628.2	2.00	-2.00	0.00
7,671.1	0.00	0.00	7,639.0	629.0	-82.0	-629.1	2.00	-2.00	0.00
7,700.0	0.00	0.00	7,667.9	629.0	-82.0	-629.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,767.9	629.0	-82.0	-629.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,867.9	629.0	-82.0	-629.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,967.9	629.0	-82.0	-629.1	0.00	0.00	0.00
8,100.0	0.00	0.00	8,067.9	629.0	-82.0	-629.1	0.00	0.00	0.00
8,200.0	0.00	0.00	8,167.9	629.0	-82.0	-629.1	0.00	0.00	0.00
8,300.0	0.00	0.00	8,267.9	629.0	-82.0 -82.0	-629.1 -629.1	0.00	0.00	0.00
8,400.0	0.00	0.00	8,367.9	629.0	-82.0 -82.0	-629.1	0.00	0.00	0.00
8,500.0	0.00	0.00	8,467.9	629.0	-82.0 -82.0	-629.1	0.00	0.00	0.00
8,600.0	0.00	0.00	8,567.9	629.0	-82.0 -82.0	-629.1	0.00	0.00	0.00
8,700.0	0.00	0.00	8,667.9	629.0	-82.0	-629.1	0.00	0.00	0.00
8,800.0	0.00	0.00	8,767.9	629.0	-82.0	-629.1	0.00	0.00	0.00
8,900.0	0.00	0.00	8,867.9	629.0	-82.0	-629.1	0.00	0.00	0.00
9,000.0	0.00	0.00	8,967.9	629.0	-82.0	-629.1	0.00	0.00	0.00
9,100.0	0.00	0.00	9,067.9	629.0	-82.0	-629.1	0.00	0.00	0.00
9,200.0	0.00	0.00	9,167.9	629.0	-82.0	-629.1	0.00	0.00	0.00
9,300.0	0.00	0.00	9,267.9	629.0	-82.0	-629.1	0.00	0.00	0.00
9,400.0	0.00	0.00	9,367.9	629.0	-82.0	-629.1	0.00	0.00	0.00
9,500.0	0.00	0.00	9,467.9	629.0	-82.0	-629.1	0.00	0.00	0.00
9,600.0	0.00	0.00	9,567.9	629.0	-82.0	-629.1	0.00	0.00	0.00
9,700.0	0.00	0.00	9,667.9	629.0	-82.0	-629.1	0.00	0.00	0.00
9,800.0	0.00	0.00	9,767.9	629.0	-82.0 -82.0	-629.1	0.00	0.00	0.00
9,900.0	0.00	0.00	9,867.9	629.0	-82.0	-629.1	0.00	0.00	0.00
10,000.0	0.00	0.00	9,967.9	629.0	-82.0 -82.0	-629.1	0.00	0.00	0.00
10,100.0	0.00	0.00	10,067.9	629.0	-82.0	-629.1	0.00	0.00	0.00
10,200.0	0.00	0.00	10,167.9	629.0	-82.0	-629.1	0.00	0.00	0.00
10,300.0	0.00	0.00	10,267.9 10,367.9	629.0 629.0	-82.0 -82.0	-629.1 -629.1	0.00	0.00 0.00	0.00



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Grid

Manusured   Company   Co	Design:	Plan #0.1								
Depth   Incination   Cy   Cy   Cy   Cy   Cy   Cy   Cy   C	Planned Survey									
10,680.0	Depth			Depth			Section	Rate	Rate	Rate
10,800.0										
10,800.0	10.700.0	0.00	0.00	10.667.9	629.0	-82.0	-629.1	0.00	0.00	0.00
10,900.0										
11,000.0										
11,200,0 0,00 0,00 11,167,8 629,0 -82,0 -629,1 0,00 0,00 0,00 11,300,0 0,00 11,267,8 629,0 -82,0 -629,1 0,00 0,00 0,00 0,00 11,467,8 629,0 -82,0 -629,1 0,00 0,00 0,00 0,00 11,600,0 0,00 0,0	11,000.0	0.00	0.00	10,967.9	629.0	-82.0	-629.1	0.00	0.00	0.00
11300.0 0.00 0.00 11.3279 629.0 -82.0 -629.1 0.00 0.00 0.00 11.400.0 0.00 11.3679 629.0 -82.0 -629.1 0.00 0.00 0.00 0.00 11.500.0 0.00 11.500.0 0.00 0.0	11,100.0	0.00	0.00	11,067.9	629.0	-82.0	-629.1	0.00	0.00	0.00
11,400.0 0.00 0.00 11,367.9 629.0 820 629.1 0.00 0.00 0.00 11,600.0 11,600.0 0.00 0.00 11,600.0 0.00 0.00 11,600.0 0.00 0.00 11,600.0 0.00 0.00 0.00 11,600.0 0.00 0.00 0.00 11,600.0 0.00 0.00 0.00 11,600.0 0.00 0.00 0.00 0.00 11,700.0 0.00 0.00 0.00 11,770.0 0.00 0.00 0.00 11,770.0 0.00 0.00 0.00 11,775.5 529.0 82.0 429.1 0.00 0.00 0.00 0.00 11,711.6 0.00 0.00 11,775.5 529.0 82.0 429.1 0.00 0.00 0.00 0.00 11,750.0 1.00 11,775.0 11,775.0 11,775.0 11,775.0 11,77	11,200.0	0.00	0.00	11,167.9	629.0	-82.0	-629.1	0.00	0.00	0.00
11,800.0		0.00	0.00						0.00	
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11,700.0	11,500.0	0.00	0.00	11,467.9	629.0		-629.1	0.00	0.00	0.00
11,711.6	11,600.0	0.00	0.00	11,567.9	629.0	-82.0	-629.1	0.00	0.00	0.00
NOP(Yukon 20 FC #703H)	11,700.0	0.00	0.00	11,667.9						0.00
11,725.0			0.00	11,679.5	629.0	-82.0	-629.1	0.00	0.00	0.00
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12,100.0 46.60 179.49 12,026.4 479.6 -80.7 -479.7 12.00 12.00 0.00 12,113.2 48.19 179.49 12,035.4 469.9 -80.6 -470.0 12.00 12.00 0.00 0.00 12,113.2 48.19 179.49 12,035.4 469.9 -80.6 -470.0 12.00 12.00 0.00 0.00 12,125.0 49.60 179.49 12,043.1 461.0 -80.5 -461.1 12.00 12.00 0.00 12,175.0 52.60 179.49 12,073.5 421.3 -80.1 -421.4 12.00 12.00 0.00 12,200.0 58.60 179.49 12,087.1 400.3 -79.9 -400.4 12.00 12.00 0.00 12,225.0 61.60 179.49 12,107.8 356.3 -79.5 -356.4 12.00 12.00 0.00 12,250.0 64.60 179.49 12,110.8 356.3 -79.5 -356.4 12.00 12.00 0.00 12,230.0 70.60 179.49 12,120.9 333.5 -79.3 -333.6 12.00 12.00 0.00 12,300.0 70.60 179.49 12,129.9 310.1 -79.1 -310.2 12.00 12.00 0.00 12,350.0 76.60 179.49 12,137.5 286.3 -78.9 -286.4 12.00 12.00 12.00 0.00 12,350.0 76.60 179.49 12,144.0 262.2 -78.7 -262.3 12.00 12.00 0.00 12,375.0 79.60 179.49 12,144.0 262.2 -78.7 -262.3 12.00 12.00 0.00 12,375.0 79.60 179.49 12,144.0 262.2 -78.7 -262.3 12.00 12.00 0.00 12,375.0 79.60 179.49 12,144.0 262.2 -78.7 -262.3 12.00 12.00 0.00 12,375.0 79.60 179.49 12,149.1 237.7 -78.5 -237.8 12.00 12.00 0.00 12,450.0 82.60 179.49 12,153.0 213.0 -78.3 -213.1 12.00 12.00 0.00 12,450.0 82.60 179.49 12,153.0 213.0 -78.3 -213.1 12.00 12.00 0.00 12,450.0 83.60 179.49 12,155.6 188.2 -78.0 -188.2 12.00 12.00 0.00 12,450.0 83.60 179.49 12,155.6 188.2 -77.8 -163.3 12.00 12.00 0.00 12,450.0 83.60 179.49 12,155.6 188.2 -77.8 -163.3 12.00 12.00 0.00 12,450.0 83.60 179.49 12,155.6 188.2 -77.8 -163.3 12.00 12.00 0.00 12,461.6 90.00 179.49 12,155.6 188.2 -77.8 -163.3 12.00 12.00 0.00 12,461.6 90.00 179.49 12,155.0 151.6 -77.7 -151.6 12.00 12.00 0.00 12,461.6 90.00 179.49 12,157.0 151.6 -77.7 -151.6 12.00 12.00 0.00 12,460.0 90.00 179.49 12,157.0 151.6 -77.7 -151.6 12.00 12.00 0.00 12,460.0 90.00 179.49 12,157.0 151.6 -77.7 -151.6 12.00 0.00 0.00 0.00 12,400.0 90.00 179.49 12,157.0 151.6 -77.7 -151.6 12.00 0.00 0.00 0.00 12,400.0 90.00 179.49 12,157.0 13.2 -77.4 -113.3 0.00 0.00 0.00 0.00 0.00 12,400.0 90.00 179.49 12,157.0 13.2 -77.4 -113.3 0.00 0.00 0.00 0.00 0.0	·									
TFTP(Yukon 20 FC #703H)	· ·									
12,125.0         49.60         179.49         12,043.1         461.0         -80.5         -461.1         12.00         12.00         0.00           12,150.0         52.60         179.49         12,058.8         441.5         -80.3         -441.6         12.00         12.00         0.00           12,175.0         55.60         179.49         12,073.5         421.3         -80.1         -421.4         12.00         12.00         0.00           12,200.0         58.60         179.49         12,087.1         400.3         -79.9         -400.4         12.00         12.00         0.00           12,225.0         61.60         179.49         12,099.5         378.6         -79.7         -378.7         12.00         12.00         0.00           12,250.0         64.60         179.49         12,110.8         356.3         -79.5         -356.4         12.00         12.00         0.00           12,275.0         67.60         179.49         12,120.9         333.5         -79.3         -333.6         12.00         12.00         0.00           12,300.0         70.60         179.49         12,129.9         310.1         -79.1         -310.2         12.00         12.00         0.00 </td <td>12,113.2</td> <td>48.19</td> <td>179.49</td> <td>12,035.4</td> <td>469.9</td> <td>-80.6</td> <td>-470.0</td> <td>12.00</td> <td>12.00</td> <td>0.00</td>	12,113.2	48.19	179.49	12,035.4	469.9	-80.6	-470.0	12.00	12.00	0.00
12,150.0         52.60         179.49         12,058.8         441.5         -80.3         -441.6         12.00         12.00         0.00           12,175.0         55.60         179.49         12,073.5         421.3         -80.1         -421.4         12.00         12.00         0.00           12,200.0         58.60         179.49         12,087.1         400.3         -79.9         -400.4         12.00         12.00         0.00           12,225.0         61.60         179.49         12,099.5         378.6         -79.7         -378.7         12.00         12.00         0.00           12,255.0         64.60         179.49         12,110.8         356.3         -79.5         -356.4         12.00         12.00         0.00           12,275.0         67.60         179.49         12,120.9         333.5         -79.3         -333.6         12.00         12.00         0.00           12,300.0         70.60         179.49         12,129.9         310.1         -79.1         -310.2         12.00         12.00         0.00           12,325.0         73.60         179.49         12,137.5         286.3         -78.9         -286.4         12.00         12.00         0.00 </td <td>FTP(Yukon</td> <td>20 FC #703H)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	FTP(Yukon	20 FC #703H)								
12,175.0         55.60         179.49         12,073.5         421.3         -80.1         -421.4         12.00         12.00         0.00           12,200.0         58.60         179.49         12,087.1         400.3         -79.9         -400.4         12.00         12.00         0.00           12,225.0         61.60         179.49         12,099.5         378.6         -79.7         -378.7         12.00         12.00         0.00           12,250.0         64.60         179.49         12,110.8         356.3         -79.5         -356.4         12.00         12.00         0.00           12,275.0         67.60         179.49         12,120.9         333.5         -79.3         -333.6         12.00         12.00         0.00           12,300.0         70.60         179.49         12,129.9         310.1         -79.1         -310.2         12.00         12.00         0.00           12,300.0         70.60         179.49         12,129.9         310.1         -79.1         -310.2         12.00         12.00         0.00           12,350.0         76.60         179.49         12,149.0         262.2         -78.7         -262.3         12.00         12.00         0.00 </td <td>12,125.0</td> <td>49.60</td> <td>179.49</td> <td>12,043.1</td> <td>461.0</td> <td>-80.5</td> <td><del>-4</del>61.1</td> <td>12.00</td> <td>12.00</td> <td>0.00</td>	12,125.0	49.60	179.49	12,043.1	461.0	-80.5	<del>-4</del> 61.1	12.00	12.00	0.00
12,175.0       55.60       179.49       12,073.5       421.3       -80.1       -421.4       12.00       12.00       0.00         12,200.0       58.60       179.49       12,087.1       400.3       -79.9       -400.4       12.00       12.00       0.00         12,225.0       61.60       179.49       12,099.5       378.6       -79.7       -378.7       12.00       12.00       0.00         12,250.0       64.60       179.49       12,110.8       356.3       -79.5       -356.4       12.00       12.00       0.00         12,275.0       67.60       179.49       12,120.9       333.5       -79.3       -333.6       12.00       12.00       0.00         12,300.0       70.60       179.49       12,129.9       310.1       -79.1       -310.2       12.00       12.00       0.00         12,325.0       73.60       179.49       12,129.9       310.1       -79.1       -310.2       12.00       12.00       0.00         12,350.0       76.60       179.49       12,149.0       262.2       -78.7       -262.3       12.00       12.00       0.00         12,375.0       79.60       179.49       12,149.1       237.7       -78.5	12.150.0	52.60	179.49	12,058.8	441.5	-80.3	-441.6	12.00	12.00	0.00
12,200.0       58.60       179.49       12,087.1       400.3       -79.9       -400.4       12.00       12.00       0.00         12,225.0       61.60       179.49       12,099.5       378.6       -79.7       -378.7       12.00       12.00       0.00         12,250.0       64.60       179.49       12,110.8       356.3       -79.5       -356.4       12.00       12.00       0.00         12,275.0       67.60       179.49       12,120.9       333.5       -79.3       -333.6       12.00       12.00       0.00         12,300.0       70.60       179.49       12,129.9       310.1       -79.1       -310.2       12.00       12.00       0.00         12,325.0       73.60       179.49       12,137.5       286.3       -78.9       -286.4       12.00       12.00       0.00         12,350.0       76.60       179.49       12,144.0       262.2       -78.7       -262.3       12.00       12.00       0.00         12,375.0       79.60       179.49       12,149.1       237.7       -78.5       -237.8       12.00       12.00       0.00         12,400.0       82.60       179.49       12,155.0       188.2       -78.0										
12,250.0       64.60       179.49       12,110.8       356.3       -79.5       -356.4       12.00       12.00       0.00         12,275.0       67.60       179.49       12,120.9       333.5       -79.3       -333.6       12.00       12.00       0.00         12,300.0       70.60       179.49       12,129.9       310.1       -79.1       -310.2       12.00       12.00       0.00         12,325.0       73.60       179.49       12,137.5       286.3       -78.9       -286.4       12.00       12.00       0.00         12,350.0       76.60       179.49       12,144.0       262.2       -78.7       -262.3       12.00       12.00       0.00         12,375.0       79.60       179.49       12,149.1       237.7       -78.5       -237.8       12.00       12.00       0.00         12,400.0       82.60       179.49       12,153.0       213.0       -78.3       -213.1       12.00       12.00       0.00         12,425.0       85.60       179.49       12,155.6       188.2       -78.0       -188.2       12.00       12.00       0.00         12,450.0       88.60       179.49       12,157.0       151.6       -77.7	•									
12,275.0       67.60       179.49       12,120.9       333.5       -79.3       -333.6       12.00       12.00       0.00         12,300.0       70.60       179.49       12,129.9       310.1       -79.1       -310.2       12.00       12.00       0.00         12,325.0       73.60       179.49       12,137.5       286.3       -78.9       -286.4       12.00       12.00       0.00         12,350.0       76.60       179.49       12,144.0       262.2       -78.7       -262.3       12.00       12.00       0.00         12,375.0       79.60       179.49       12,149.1       237.7       -78.5       -237.8       12.00       12.00       0.00         12,400.0       82.60       179.49       12,153.0       213.0       -78.3       -213.1       12.00       12.00       0.00         12,425.0       85.60       179.49       12,155.6       188.2       -78.0       -188.2       12.00       12.00       0.00         12,450.0       88.60       179.49       12,156.8       163.2       -77.8       -163.3       12.00       12.00       0.00         12,461.6       90.00       179.49       12,157.0       151.6       -77.7	12,225.0	61.60	179.49	12,099.5	378.6	-79.7	-378.7	12.00	12.00	0.00
12,300.0       70.60       179.49       12,129.9       310.1       -79.1       -310.2       12.00       12.00       0.00         12,325.0       73.60       179.49       12,137.5       286.3       -78.9       -286.4       12.00       12.00       0.00         12,350.0       76.60       179.49       12,144.0       262.2       -78.7       -262.3       12.00       12.00       0.00         12,375.0       79.60       179.49       12,149.1       237.7       -78.5       -237.8       12.00       12.00       0.00         12,400.0       82.60       179.49       12,153.0       213.0       -78.3       -213.1       12.00       12.00       0.00         12,425.0       85.60       179.49       12,155.6       188.2       -78.0       -188.2       12.00       12.00       0.00         12,450.0       88.60       179.49       12,156.8       163.2       -77.8       -163.3       12.00       12.00       0.00         12,461.6       90.00       179.49       12,157.0       151.6       -77.7       -151.6       12.00       12.00       0.00         12,600.0       90.00       179.49       12,157.0       13.2       -76.5	12,250.0	64.60	179.49	12,110.8	356.3	-79.5	-356.4	12.00	12.00	0.00
12,325.0       73.60       179.49       12,137.5       286.3       -78.9       -286.4       12.00       12.00       0.00         12,350.0       76.60       179.49       12,144.0       262.2       -78.7       -262.3       12.00       12.00       0.00         12,375.0       79.60       179.49       12,149.1       237.7       -78.5       -237.8       12.00       12.00       0.00         12,400.0       82.60       179.49       12,153.0       213.0       -78.3       -213.1       12.00       12.00       0.00         12,425.0       85.60       179.49       12,155.6       188.2       -78.0       -188.2       12.00       12.00       0.00         12,450.0       88.60       179.49       12,156.8       163.2       -77.8       -163.3       12.00       12.00       0.00         12,461.6       90.00       179.49       12,157.0       151.6       -77.7       -151.6       12.00       12.00       0.00         12,600.0       90.00       179.49       12,157.0       13.2       -76.5       -13.3       0.00       0.00       0.00         12,600.0       90.00       179.49       12,157.0       -86.8       -75.6 <t< td=""><td>12,275.0</td><td>67.60</td><td>179.49</td><td>12,120.9</td><td>333.5</td><td>-79.3</td><td>-333.6</td><td>12.00</td><td>12.00</td><td>0.00</td></t<>	12,275.0	67.60	179.49	12,120.9	333.5	-79.3	-333.6	12.00	12.00	0.00
12,350.0       76.60       179.49       12,144.0       262.2       -78.7       -262.3       12.00       12.00       0.00         12,375.0       79.60       179.49       12,149.1       237.7       -78.5       -237.8       12.00       12.00       0.00         12,400.0       82.60       179.49       12,153.0       213.0       -78.3       -213.1       12.00       12.00       0.00         12,425.0       85.60       179.49       12,155.6       188.2       -78.0       -188.2       12.00       12.00       0.00         12,450.0       88.60       179.49       12,156.8       163.2       -77.8       -163.3       12.00       12.00       0.00         12,461.6       90.00       179.49       12,157.0       151.6       -77.7       -151.6       12.00       12.00       0.00         12,500.0       90.00       179.49       12,157.0       113.2       -77.4       -113.3       0.00       0.00       0.00         12,600.0       90.00       179.49       12,157.0       13.2       -76.5       -13.3       0.00       0.00       0.00         12,700.0       90.00       179.49       12,157.0       -86.8       -75.6	12,300.0			12,129.9						0.00
12,375.0       79.60       179.49       12,149.1       237.7       -78.5       -237.8       12.00       12.00       0.00         12,400.0       82.60       179.49       12,153.0       213.0       -78.3       -213.1       12.00       12.00       0.00         12,425.0       85.60       179.49       12,155.6       188.2       -78.0       -188.2       12.00       12.00       0.00         12,450.0       88.60       179.49       12,156.8       163.2       -77.8       -163.3       12.00       12.00       0.00         12,461.6       90.00       179.49       12,157.0       151.6       -77.7       -151.6       12.00       12.00       0.00         12,500.0       90.00       179.49       12,157.0       113.2       -77.4       -113.3       0.00       0.00       0.00         12,600.0       90.00       179.49       12,157.0       13.2       -76.5       -13.3       0.00       0.00       0.00         12,700.0       90.00       179.49       12,157.0       -86.8       -75.6       86.7       0.00       0.00       0.00         12,800.0       90.00       179.49       12,157.0       -186.8       -74.7       186										
12,400.0       82.60       179.49       12,153.0       213.0       -78.3       -213.1       12.00       12.00       0.00         12,425.0       85.60       179.49       12,155.6       188.2       -78.0       -188.2       12.00       12.00       0.00         12,450.0       88.60       179.49       12,156.8       163.2       -77.8       -163.3       12.00       12.00       0.00         12,461.6       90.00       179.49       12,157.0       151.6       -77.7       -151.6       12.00       12.00       0.00         12,500.0       90.00       179.49       12,157.0       113.2       -77.4       -113.3       0.00       0.00       0.00         12,600.0       90.00       179.49       12,157.0       13.2       -76.5       -13.3       0.00       0.00       0.00         12,700.0       90.00       179.49       12,157.0       -86.8       -75.6       86.7       0.00       0.00       0.00         12,800.0       90.00       179.49       12,157.0       -186.8       -74.7       186.7       0.00       0.00       0.00										
12,425.0       85.60       179.49       12,155.6       188.2       -78.0       -188.2       12.00       12.00       0.00         12,450.0       88.60       179.49       12,156.8       163.2       -77.8       -163.3       12.00       12.00       0.00         12,461.6       90.00       179.49       12,157.0       151.6       -77.7       -151.6       12.00       12.00       0.00         12,500.0       90.00       179.49       12,157.0       113.2       -77.4       -113.3       0.00       0.00       0.00         12,600.0       90.00       179.49       12,157.0       13.2       -76.5       -13.3       0.00       0.00       0.00         12,700.0       90.00       179.49       12,157.0       -86.8       -75.6       86.7       0.00       0.00       0.00         12,800.0       90.00       179.49       12,157.0       -186.8       -74.7       186.7       0.00       0.00       0.00	12,375.0	79.60	179.49	12,149.1	237.7	-78.5	-237.8	12.00	12.00	0.00
12,450.0       88.60       179.49       12,156.8       163.2       -77.8       -163.3       12.00       12.00       0.00         12,461.6       90.00       179.49       12,157.0       151.6       -77.7       -151.6       12.00       12.00       0.00         12,500.0       90.00       179.49       12,157.0       113.2       -77.4       -113.3       0.00       0.00       0.00         12,600.0       90.00       179.49       12,157.0       13.2       -76.5       -13.3       0.00       0.00       0.00         12,700.0       90.00       179.49       12,157.0       -86.8       -75.6       86.7       0.00       0.00       0.00         12,800.0       90.00       179.49       12,157.0       -186.8       -74.7       186.7       0.00       0.00       0.00										
12,461.6     90.00     179.49     12,157.0     151.6     -77.7     -151.6     12.00     12.00     0.00       12,500.0     90.00     179.49     12,157.0     113.2     -77.4     -113.3     0.00     0.00     0.00       12,600.0     90.00     179.49     12,157.0     13.2     -76.5     -13.3     0.00     0.00     0.00       12,700.0     90.00     179.49     12,157.0     -86.8     -75.6     86.7     0.00     0.00     0.00       12,800.0     90.00     179.49     12,157.0     -186.8     -74.7     186.7     0.00     0.00     0.00										
12,500.0     90.00     179.49     12,157.0     113.2     -77.4     -113.3     0.00     0.00     0.00       12,600.0     90.00     179.49     12,157.0     13.2     -76.5     -13.3     0.00     0.00     0.00       12,700.0     90.00     179.49     12,157.0     -86.8     -75.6     86.7     0.00     0.00     0.00       12,800.0     90.00     179.49     12,157.0     -186.8     -74.7     186.7     0.00     0.00     0.00										
12,600.0     90.00     179.49     12,157.0     13.2     -76.5     -13.3     0.00     0.00     0.00       12,700.0     90.00     179.49     12,157.0     -86.8     -75.6     86.7     0.00     0.00     0.00       12,800.0     90.00     179.49     12,157.0     -186.8     -74.7     186.7     0.00     0.00     0.00										
12,700.0     90.00     179.49     12,157.0     -86.8     -75.6     86.7     0.00     0.00     0.00       12,800.0     90.00     179.49     12,157.0     -186.8     -74.7     186.7     0.00     0.00     0.00										
12,800.0 90.00 179.49 12,157.0 -186.8 -74.7 186.7 0.00 0.00 0.00	· ·									
12,900.0 90.00 179.49 12,157.0 -286.8 -73.8 286.7 0.00 0.00 0.00										
13,000.0 90.00 179.49 12,157.0 -386.8 -72.9 386.7 0.00 0.00 0.00										



Database: EDM 5000.14

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)

Site: Yukon 20 Fed Com

 Well:
 #703H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #703H

KB = 25 @ 3554.0usft KB = 25 @ 3554.0usft

Grid

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)
13,100.0	90.00	179.49	12,157.0	-486.8	-72.0	486.7	0.00	0.00	0.00
13,200.0	90.00	179.49	12,157.0	-586.8	-71.1	586.7	0.00	0.00	0.00
13,300.0	90.00	179.49	12,157.0	-686.8	-70.2	686.7	0.00	0.00	0.00
13,400.0	90.00	179.49	12,157.0	-786.8	-69.3	786.7	0.00	0.00	0.00
13,500.0	90.00	179.49	12,157.0	-886.8	-68.4	886.7	0.00	0.00	0.00
13,600.0	90.00	179.49	12,157.0	-986.8	-67.5	986.7	0.00	0.00	0.00
13,700.0	90.00	179.49	12,157.0	-1,086.8	-66.6	1,086.7	0.00	0.00	0.00
13,800.0	90.00	179.49	12,157.0	-1,186.8	-65.7	1,186.7	0.00	0.00	0.00
13,900.0	90.00	179.49	12,157.0	-1,286.8	-64.8	1,286.7	0.00	0.00	0.00
14,000.0	90.00	179.49	12,157.0	-1,386.7	-63.9	1,386.7	0.00	0.00	0.00
14,100.0	90.00	179.49	12,157.0	-1,486.7	-63.0	1,486.7	0.00	0.00	0.00
14,200.0	90.00	179.49	12,157.0	-1,586.7	-62.1	1,586.7	0.00	0.00	0.00
14,300.0	90.00	179.49	12,157.0	-1,686.7	-61.2	1,686.7	0.00	0.00	0.00
14,400.0	90.00	179.49	12,157.0	-1,786.7	-60.3	1,786.7	0.00	0.00	0.00
14,500.0	90.00	179.49	12,157.0	-1,886.7	-59.4	1,886.7	0.00	0.00	0.00
14,600.0	90.00	179.49	12,157.0	-1,986.7	-58.5	1,986.7	0.00	0.00	0.00
14,700.0	90.00	179.49	12,157.0	-2,086.7	-57.6	2,086.7	0.00	0.00	0.00
14,800.0	90.00	179.49	12,157.0	-2,186.7	-56.7	2,186.6	0.00	0.00	0.00
14,900.0	90.00	179.49	12,157.0	-2,286.7	-55.8	2,286.6	0.00	0.00	0.00
15,000.0	90.00	179.49	12,157.0	-2,386.7	-54.9	2,386.6	0.00	0.00	0.00
15,100.0	90.00	179.49	12,157.0	-2,486.7	-54.0	2,486.6	0.00	0.00	0.00
15,200.0	90.00	179.49	12,157.0	-2,586.7	-53.1	2,586.6	0.00	0.00	0.00
15,300.0	90.00	179.49	12,157.0	-2,686.7	-52.2	2,686.6	0.00	0.00	0.00
15,400.0	90.00	179.49	12,157.0	-2,786.7	-51.3	2,786.6	0.00	0.00	0.00
15,500.0	90.00	179.49	12,157.0	-2,886.7	-50.4	2,886.6	0.00	0.00	0.00
15,600.0	90.00	179.49	12,157.0	-2,986.7	-49.5	2,986.6	0.00	0.00	0.00
15,700.0	90.00	179.49	12,157.0	-3,086.7	-48.6	3,086.6	0.00	0.00	0.00
15,800.0	90.00	179.49	12,157.0	-3,186.7	-47.7	3,186.6	0.00	0.00	0.00
15,900.0	90.00	179.49	12,157.0	-3,286.7	-46.8	3,286.6	0.00	0.00	0.00
16,000.0	90.00	179.49	12,157.0	-3,386.7	-45.9	3,386.6	0.00	0.00	0.00
16,100.0	90.00	179.49	12,157.0	-3,486.7	-45.0	3,486.6	0.00	0.00	0.00
16,200.0	90.00	179.49	12,157.0	-3,586.7	-44.1	3,586.6	0.00	0.00	0.00
16,300.0	90.00	179.49	12,157.0	-3,686.7	-43.2	3,686.6	0.00	0.00	0.00
16,400.0	90.00	179.49	12,157.0	-3,786.6	-42.3	3,786.6	0.00	0.00	0.00
16,500.0	90.00	179.49	12,157.0	-3,886.6	-41.4	3,886.6	0.00	0.00	0.00
16,600.0	90.00	179.49	12,157.0	-3,986.6	-40.5	3,986.6	0.00	0.00	0.00
16,700.0	90.00	179.49	12,157.0	-4,086.6	-39.6	4,086.6	0.00	0.00	0.00
16,800.0	90.00	179.49	12,157.0	-4,186.6	-38.7	4,186.6	0.00	0.00	0.00
16,900.0	90.00	179.49	12,157.0	-4,286.6	-37.8	4,286.6	0.00	0.00	0.00
17,000.0	90.00	179.49	12,157.0	-4,386.6	-36.9	4,386.6	0.00	0.00	0.00
17,100.0	90.00	179.49	12,157.0	-4,486.6	-36.0	4,486.6	0.00	0.00	0.00
17,200.0	90.00	179.49	12,157.0	-4,586.6	-35.1	4,586.6	0.00	0.00	0.00
17,213.4	90.00	179.49	12,157.0	-4,600.0	-35.0	4,600.0	0.00	0.00	0.00
•	on 20 FC #703H)	170.40	10 457 0	4 600 0	24.0	4 606 6	0.00	0.00	0.00
17,300.0 17,400.0	90.00 90.00	179.49 179.49	12,157.0 12,157.0	-4,686.6 -4,786.6	-34.2 -33.3	4,686.6 4,786.6	0.00 0.00	0.00 0.00	0.00 0.00
17,500.0	90.00	179.49	12,157.0	-4,886.6	-32.4	4,886.6	0.00	0.00	0.00
17,600.0	90.00	179.49	12,157.0	-4,986.6	-31.5	4,986.6	0.00	0.00	0.00
17,700.0	90.00	179.49	12,157.0	-5,086.6	-30.6	5,086.6	0.00	0.00	0.00
17,800.0	90.00	179.49	12,157.0	-5,186.6	-29.7	5,186.6	0.00	0.00	0.00
17,900.0	90.00	179.49	12,157.0	-5,286.6	-28.8	5,286.6	0.00	0.00	0.00
18,000.0	90.00	179.49	12,157.0	-5,386.6	-27.9	5,386.5	0.00	0.00	0.00
18,100.0	90.00	179.49	12,157.0	-5,486.6	-27.0	5,486.5	0.00	0.00	0.00
. 5, 155.0	30.00	5. 10	,	٥,		2, .55.5	3.00	3.00	



Database: EDM 5000.14

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)

Site: Yukon 20 Fed Com

 Well:
 #703H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well #703H

KB = 25 @ 3554.0usft KB = 25 @ 3554.0usft

Grid

			Markland 1			M41	D	D. U.	<b>T</b>
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,200.0	90.00	179.49	12,157.0	-5,586.6	-26.2	5,586.5	0.00	0.00	0.00
18,300.0	90.00	179.49	12,157.0	-5,686.6	-25.3	5,686.5	0.00	0.00	0.00
18,400.0	90.00	179.49	12,157.0	-5,786.6	-24.4	5,786.5	0.00	0.00	0.00
18,500.0	90.00	179.49	12,157.0	-5,886.6	-23.5	5,886.5	0.00	0.00	0.00
18,600.0	90.00	179.49	12,157.0	-5,986.6	-22.6	5,986.5	0.00	0.00	0.00
18,700.0	90.00	179.49	12,157.0	-6,086.6	-21.7	6,086.5	0.00	0.00	0.00
18,800.0	90.00	179.49	12,157.0	-6,186.6	-20.8	6,186.5	0.00	0.00	0.00
18,900.0	90.00	179.49	12,157.0	-6,286.5	-19.9	6,286.5	0.00	0.00	0.00
19,000.0	90.00	179.49	12,157.0	-6,386.5	-19.0	6,386.5	0.00	0.00	0.00
						,			
19,100.0	90.00	179.49	12,157.0	-6,486.5	-18.1	6,486.5	0.00	0.00	0.00
19,200.0	90.00	179.49	12,157.0	-6,586.5	-17.2	6,586.5	0.00	0.00	0.00
19,300.0	90.00	179.49	12,157.0	-6,686.5	-16.3	6,686.5	0.00	0.00	0.00
19,400.0	90.00	179.49	12,157.0	-6,786.5	-15.4	6,786.5	0.00	0.00	0.00
19,500.0	90.00	179.49	12,157.0	-6,886.5	-14.6	6,886.5	0.00	0.00	0.00
19,600.0	90.00	179.49	12,157.0	-6,986.5	-13.7	6,986.5	0.00	0.00	0.00
19,700.0	90.00	179.49	12,157.0	-7,086.5	-12.8	7,086.5	0.00	0.00	0.00
19,800.0	90.00	179.49	12,157.0	-7,186.5	-11.9	7,186.5	0.00	0.00	0.00
19,900.0	90.00	179.49	12,157.0	-7,286.5	-11.0	7,286.5	0.00	0.00	0.00
20,000.0	90.00	179.49	12,157.0	-7,386.5	-10.1	7,386.5	0.00	0.00	0.00
20,100.0	90.00	179.49	12,157.0	-7,486.5 -7,486.5	-10.1 -9.2	7,386.5 7,486.5	0.00	0.00	0.00
20,100.0	90.00	179.49	12,157.0	-7,486.5 -7,586.5	-9.2 -8.3	7, <del>4</del> 66.5 7,586.5	0.00	0.00	0.00
20,300.0	90.00	179.49	12,157.0	-7,586.5 -7,686.5	-0.3 -7.5	7,586.5	0.00	0.00	0.00
20,400.0	90.00	179.49	12,157.0	,		7,086.5	0.00	0.00	0.00
				-7,786.5	<del>-</del> 6.6				
20,500.0	90.00	179.49	12,157.0	-7,886.5	-5.7	7,886.5	0.00	0.00	0.00
20,600.0	90.00	179.49	12,157.0	-7,986.5	-4.8	7,986.5	0.00	0.00	0.00
20,700.0	90.00	179.49	12,157.0	-8,086.5	-3.9	8,086.5	0.00	0.00	0.00
20,800.0	90.00	179.49	12,157.0	-8,186.5	-3.0	8,186.5	0.00	0.00	0.00
20,900.0	90.00	179.49	12,157.0	-8,286.5	-2.1	8,286.5	0.00	0.00	0.00
21,000.0	90.00	179.49	12,157.0	-8,386.5	-1.3	8,386.5	0.00	0.00	0.00
21,100.0	90.00	179.49	12,157.0	-8,486.5	-0.4	8,486.5	0.00	0.00	0.00
21,200.0	90.00	179.49	12,157.0	-8,586.5	0.5	8,586.5	0.00	0.00	0.00
21,300.0	90.00	179.49	12,157.0	-8,686.5	1.4	8,686.5	0.00	0.00	0.00
21,400.0	90.00	179.50	12,157.0	-8,786.5	2.3	8,786.4	0.00	0.00	0.00
21,500.0	90.00	179.50	12,157.0	-8,886.4	3.1	8,886.4	0.00	0.00	0.00
,						,			
21,600.0	90.00	179.50	12,157.0	-8,986.4	4.0	8,986.4	0.00	0.00	0.00
21,700.0	90.00	179.50	12,157.0	-9,086.4	4.9	9,086.4	0.00	0.00	0.00
21,800.0	90.00	179.50	12,157.0	-9,186.4	5.8	9,186.4	0.00	0.00	0.00
21,900.0	90.00	179.50	12,157.0	-9,286.4	6.7	9,286.4	0.00	0.00	0.00
22,000.0	90.00	179.50	12,157.0	-9,386.4	7.5	9,386.4	0.00	0.00	0.00
22,100.0	90.00	179.50	12,157.0	-9,486.4	8.4	9,486.4	0.00	0.00	0.00
22,200.0	90.00	179.50	12,157.0	-9,586.4	9.3	9,586.4	0.00	0.00	0.00
22,300.0	90.00	179.50	12,157.0	-9,686.4	10.2	9,686.4	0.00	0.00	0.00
22,393.6	90.00	179.50	12,157.0	-9,780.0	11.0	9,780.0	0.00	0.00	0.00
	1 20 FC #703H)		,	-,0		-,0	2.30	2.30	



Database: EDM 5000.14

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)

Site: Yukon 20 Fed Com

 Well:
 #703H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #703H

KB = 25 @ 3554.0usft KB = 25 @ 3554.0usft

Grid

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
KOP(Yukon 20 FC #703 - plan hits target cente - Point	0.00 er	0.00	11,679.5	629.0	-82.0	441,227.00	802,943.00	32° 12' 36.649 N	103° 29' 14.965 W
PBHL(Yukon 20 FC #70: - plan hits target cente - Point	0.00 er	0.00	12,157.0	-9,780.0	11.0	430,818.00	803,036.00	32° 10' 53.644 N	103° 29' 14.836 W
FedPP(Yukon 20 FC #7( - plan hits target center - Point	0.00 er	0.00	12,157.0	-4,600.0	-35.0	435,998.00	802,990.00	32° 11' 44.904 N	103° 29' 14.897 W
FTP(Yukon 20 FC #703l - plan misses target co - Point	0.00 enter by 163	0.00 4usft at 121	12,157.0 13.2usft MD	579.0 (12035.4 TVD	-82.0 ), 469.9 N, -80	441,177.00 0.6 E)	802,943.00	32° 12' 36.154 N	103° 29' 14.970 W