Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5 Lease Serial No. NMNM102034 BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. **✓** DRILL REENTER 1a. Type of work: 1b. Type of Well: ✓ Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing ✓ Single Zone Multiple Zone BANJO 5 FED COM 761H 2. Name of Operator 9. API Well No. EOG RESOURCES INCORPORATED 30 015 48200 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory PURPLE SAGE; WOLFCAMP (GAS)/PUF TEST 123, ST, TX 45645 (432) 686-3600 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 5/T26S/R30E/NMP At surface NENE / 362 FNL / 432 FEL / LAT 32.078096 / LONG -103.896279 At proposed prod. zone SESE / 230 FSL / 660 FEL / LAT 32.050499 / LONG -103.897013 12. County or Parish 14. Distance in miles and direction from nearest town or post office* 13 State **EDDY** NM 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 230 feet location to nearest 1280.0 property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, FED: 11563 feet / 21724 feet applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3165 feet 01/15/2021 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 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the 25. Signature Name (Printed/Typed) Date (Electronic Submission) LISA TRASCHER / Ph: (713) 651-7000 07/15/2020 Title Regulatory Specialist Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) Cody Layton / Ph: (575) 234-5959 04/20/2021 Title Office Assistant Field Manager Lands & Minerals Carlsbad Field Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.

APPROVED WITH CONDITIONS Released to Imaging: 4/23/2021 9:06:57 AM Approval Date: 04/20/2021

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.

(Continued on page 2)

*(Instructions on page 2)

DISTRICT I

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

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

1000 Rio Brazos Rd., Aztec, NM 87410
Phone: (505) 334-6178 Fax: (305) 334-6170
DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3406 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

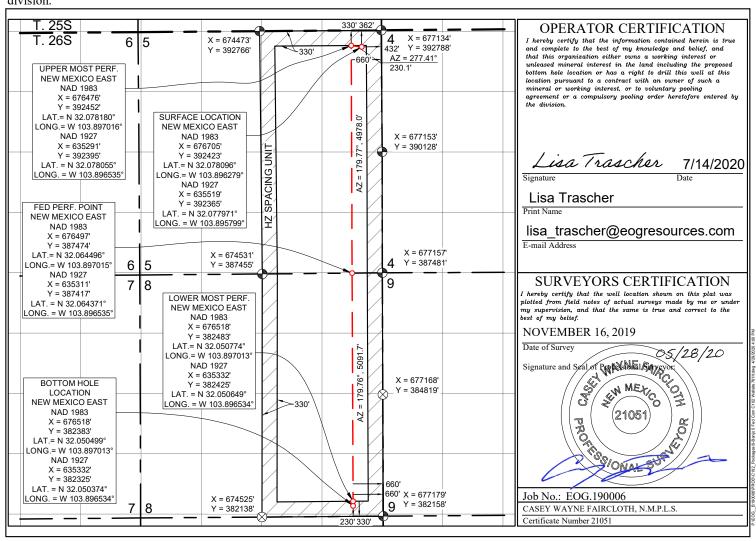
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

A	API Number						Pool Name		
30-015- 4	8200		9822	0	Pu	ple Sage; Wolfc	amp		
Property Co	ode		Property Name						nber
329888				I	BANJO 5 FED	COM		761H	ł
OGRID N	0.				Operator Name			Elevati	on
7377				EC	G RESOURCE	S, INC.		316	5'
	Surface Location								
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	5	26 S	S 30 E 362 NORTH 432			EAST	EDDY		
			Bott	om Hole	Location If Diff	erent From Surfac	ee		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Р	8	26 S	26 S 30 E 230 SOUTH 660 EAST				EAST	EDDY	
Dedicated Acres	Joint or	Infill	Consolidated Co	de Orde	r No.	•	•	•	•
640.00									

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



Operator Name: Property Name:	Well Number
Operator Name: Property Name:	Well Number
Kick Off Point (KOP)	
UL Section Township Range Lot Feet From N/S Feet From E/W Count	cy
Latitude Longitude NAD	
First Take Point (FTP) UL Section Township Range Lot Feet From N/S Feet From E/W Count	:y
Latitude Longitude NAD	
Last Take Point (LTP)	
UL Section Township Range Lot Feet From N/S Feet From E/W County	
Latitude Longitude NAD	
Is this well the defining well for the Horizontal Spacing Unit?	
Is this well an infill well?	
If infill is yes please provide API if available, Operator Name and well number for Defining well Spacing Unit.	l for Horizontal
API#	
Operator Name: Property Name:	Well Number

KZ 06/29/2018

INSTRUCTIONS

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

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

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

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

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

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

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

NOTICES

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

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

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

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

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

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

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

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

(Form 3160-3, page 2)

Additional Operator Remarks

Location of Well

0. SHL: NENE / 362 FNL / 432 FEL / TWSP: 26S / RANGE: 30E / SECTION: 5 / LAT: 32.078096 / LONG: -103.896279 (TVD: 0 feet, MD: 0 feet) PPP: NENE / 330 FNL / 660 FEL / TWSP: 26S / RANGE: 30E / SECTION: 5 / LAT: 32.07818 / LONG: -103.897016 (TVD: 11520 feet, MD: 11649 feet) BHL: SESE / 230 FSL / 660 FEL / TWSP: 26S / RANGE: 30E / SECTION: 8 / LAT: 32.050499 / LONG: -103.897013 (TVD: 11563 feet, MD: 21724 feet)

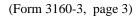
BLM Point of Contact

Name: SOPHIA CWIKLINSKI

Title: LIE

Phone: (575) 234-5972

Email: scwiklinkski@blm.gov



Review and Appeal Rights

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



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | EOG

LEASE NO.: NMNM102034

LOCATION: | Section 5, T.26 S., R.30 E., NMPM

COUNTY: Eddy County, New Mexico

WELL NAME & NO.: | E

Banjo 5 Fed Com 761H

SURFACE HOLE FOOTAGE: BOTTOM HOLE FOOTAGE

362'/N & 432'/E

230'/S & 660'/E

COA

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

- 1. The **9-5/8** inch surface casing shall be set at approximately **1110** feet (a minimum of 70 feet (Eddy 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.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of $\underline{8}$

- **hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- 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 minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 7-5/8" X 9-5/8" annulus. Operator must run a CBL from TD of the 7-5/8" casing to surface. Submit results to BLM.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **500 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.

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
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).

- b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per 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.

ZS032621

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,029'
Tamarisk Anhydrite	1,081'
Top of Salt	1,335'
Base of Salt	3,306'
Lamar	3,507
Bell Canyon	3,534'
Cherry Canyon	4,479°
Brushy Canyon	5,708'
Bone Spring Lime	7,341'
Leonard Shale	7,443'
1 st Bone Spring Sand	8,248'
2 nd Bone Spring Shale	8,508'
2 nd Bone Spring Sand	8,915'
3 rd Bone Spring Carb	9,372'
3 rd Bone Spring Sand	10,160'
Wolfcamp	10,549'
TD	11,563'

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

Upper Permian Sands	0-400'	Fresh Water
Cherry Canyon	4,479'	Oil
Brushy Canyon	5,708'	Oil
Leonard Shale	7,443'	Oil
1 st Bone Spring Sand	8,248'	Oil
2 nd Bone Spring Shale	8,508'	Oil
2 nd Bone Spring Sand	8,915'	Oil
3 rd Bone Spring Carb	9,372'	Oil
3 rd Bone Spring Sand	10,160'	Oil
Wolfcamp	10,549'	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 9.625" casing at 1,110' and circulating cement back to surface.

4. CASING PROGRAM - NEW

Hole		Csg				DF _{min}	DF _{min}	$\mathbf{DF_{min}}$
Size	Interval	OD	Weight	Grade	Conn	Collapse	Burst	Tension
12.25"	0'-1,110'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75"	0' - 9,475'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0' - 8,975'	5.5"	20#	P-110EC	DWC/C-IS	1.125	1.25	1.60
					MS			
6.75"	8,975'-9,475'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60
6.75"	9,475' – 21,724'	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" 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" 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 production open hole section.

EOG Resources also requests approval to implement Casing Design B (pg. 8-9). BLM will be notified of elected design at spud.

Cementing Program:

	No.	Wt.	Yld	
Depth	Sacks	ppg	Ft ³ /sk	Slurry Description
1,110'	970	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 0.25
9-5/8"				lb/sk Cello-Flake (TOC @ Surface)
	80	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2%
				Sodium Metasilicate (TOC @ 910')
9,475'	480	14.2	1.11	1 st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 +
7-5/8"				3% Microbond (TOC @ 5,600')
	1,000	12.7	2.30	2 nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1%
				PreMag-M + 6% Bentonite Gel (TOC @ surface)
21,724'	1,020	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3%
5-1/2"				Microbond (TOC @ 8,975')

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 (5,708") 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. Once cement circulates to surface drilling operations to drill out of the intermediate shoe will proceed (per clarification from BLM 4/21/2020). 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.

Cement integrity tests will be performed immediately following plug bump.

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.

EOG will utilize wing unions on BOPE connections that can be isolated from wellbore pressure through means of a choke. All wing unions will be rated to a pressure that meets or exceeds the pressure rating of the BOPE system.

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 – 1,110'	Fresh - Gel	8.6-8.8	28-34	N/c
1,110' - 9,475'	Brine	10.0-10.2	28-34	N/c
9,475' – 11,103'	Oil Base	8.7-9.4	58-68	N/c - 6
11,103' - 21,724'	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) H₂S 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 186 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 8,418 psig and a maximum anticipated surface pressure of 5,874 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 5,708' 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. EOG Resources reserves the option to conduct BOPE testing during wait on cement periods provided a test plug is utilized.

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.

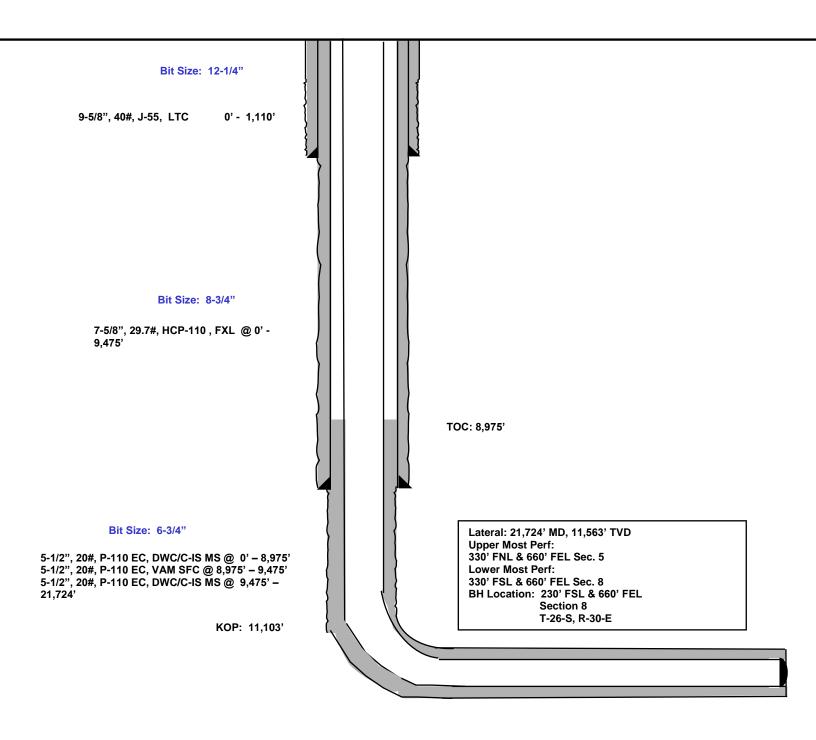
Casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

362' FNL 432' FEL Section 5 T-26-S, R-30-E

Proposed Wellbore Design A

API: 30-015-****

KB: 3,190' GL: 3,165'



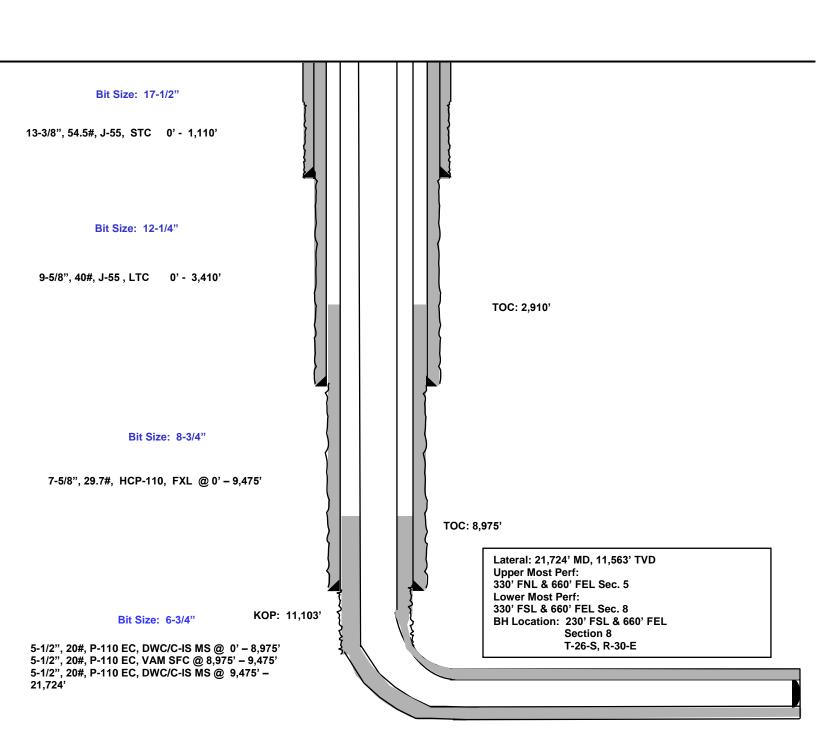
KB: 3,190'

GL: 3,165'

EOG RESOURCES, INC. BANJO 5 FED COM #761H

362' FNL 432' FEL Section 5 T-26-S, R-30-E Proposed Wellbore Design B

API: 30-015-****



Design B

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 – 1,110'	13.375"	54.5#	J-55	STC	1.125	1.25	1.60
12.25"	0 – 3,410'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75"	0 – 9,475'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0' - 8,975'	5.5"	20#	P-110EC	DWC/C-IS	1.125	1.25	1.60
					MS			
6.75"	8,975'-9,475'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60
6.75"	9,475' – 21,724'	5.5"	20#	P-110EC	DWC/C-IS	1.125	1.25	1.60
					MS			

Cement Program:

Cement 11	ogi am.					
	No.	Wt.	Yld			
Depth	Sacks	lb/gal	Ft ³ /sk	Slurry Description		
1,110'	660	13.5	1.74	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 0.25 lb/sk		
13-3/8"				Cello-Flake (TOC @ Surface)		
	160	14.8	1.35	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2%		
				Sodium Metasilicate (TOC @ 910')		
3,410'	540	12.7	2.22	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx		
9-5/8"				(TOC @ Surface)		
	220	14.8	1.32	Tail: Class C + 10% NaCl + 3% MagOx (TOC @ 2,730')		
9,475'	190	10.8	3.67	Lead: Class C + 3% CaCl2 + 3% Microbond (TOC @ 2,910')		
7-5/8"						
	100	14.8	2.38	Tail: Class H + 0.6% Halad-9 + 0.45% HR-601 + 3%		
				Microbond (TOC @ 7,975')		
21,724'	1,020	14.8	1.31	Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond		
5-1/2"				(TOC @ 8,975')		

As a contingency, 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 (5,708') 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.

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,110'	Fresh - Gel	8.6-8.8	28-34	N/c
1,110' - 3,410'	Brine	10.0-10.2	28-34	N/c
3,410'-9,475'	Oil Base	8.7-9.4	58-68	N/c - 6
9,475'-21,724'	Oil Base	10.0-14.0	58-68	3 - 6
Lateral				



EOG Resources - Midland

Eddy County, NM (NAD 83 NME) Banjo 5 Fed Com #761H

OH

Plan: Plan #0.1

Standard Planning Report

01 July, 2020

eog resources

EOG Resources

Planning Report

EDM Database: Company:

#761H

EOG Resources - Midland

Eddy County, NM (NAD 83 NME)

Site: Well:

Project:

Banjo 5 Fed Com

Wellbore: OH Plan #0.1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #761H

kb 25 @ 3190.0usft kb 25 @ 3190.0usft

Grid

Minimum Curvature

Project Eddy County, NM (NAD 83 NME)

Map System: Geo Datum:

Map Zone:

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone

System Datum:

Mean Sea Level

Banjo 5 Fed Com Site

Site Position: From: Мар

Position Uncertainty:

Position Uncertainty

Northing: Easting: Slot Radius: 0.0 usft

392,301.00 usft 676,477.00 usft 13-3/16 "

Latitude: Longitude: **Grid Convergence:**

32° 4' 39.950 N 103° 53' 49.257 W

0.23

Well #761H

+N/-S **Well Position**

122.0 usft +E/-W 228.0 usft 0.0 usft Northing: Easting:

392,423.00 usft 676,705.00 usft Wellhead Elevation:

Latitude: Longitude: **Ground Level:**

32° 4' 41.148 N 103° 53' 46.601 W

3,165.0 usft

Field Strength

(nT) 47.474.96072109

Wellbore ОН

Magnetics **Model Name** Sample Date Declination **Dip Angle** (°) (°) IGRF2020 7/1/2020 6.80 59.75

Plan #0.1

Audit Notes:

Design

Version:

Phase:

PLAN

Tie On Depth:

Remarks

0.0

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 181.07 0.0 0.0 0.0

Plan Survey Tool Program

Date 7/1/2020

Depth From Depth To

(usft) (usft) Survey (Wellbore) 0.0 21,724.2 Plan #0.1 (OH)

Tool Name

EOG MWD+IFR1 MWD + IFR1

7/1/2020 7:29:30PM Page 2 COMPASS 5000.15 Build 91

beog resources

EOG Resources

Planning Report

Database: EDM

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

Site: Banjo 5 Fed Com

 Well:
 #761H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #761H

kb 25 @ 3190.0usft kb 25 @ 3190.0usft

Grid

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,459.1	5.18	323.46	1,458.8	9.4	-7.0	2.00	2.00	0.00	323.46	
5,457.9	5.18	323.46	5,441.2	299.6	-222.0	0.00	0.00	0.00	0.00	
5,717.1	0.00	0.00	5,700.0	309.0	-229.0	2.00	-2.00	0.00	180.00	
11,102.6	0.00	0.00	11,085.5	309.0	-229.0	0.00	0.00	0.00	0.00	KOP(Banjo 5 Fed Cor
11,649.0	65.57	180.00	11,520.2	29.0	-229.0	12.00	12.00	32.94	180.00	FTP(Banjo 5 Fed Con
11,852.5	90.00	179.75	11,562.9	-168.5	-228.6	12.00	12.00	-0.12	-0.60	
16,633.1	90.00	179.75	11,563.0	-4,949.0	-208.0	0.00	0.00	0.00	0.00	FED PP(Banjo 5 Fed
21,624.2	90.00	179.76	11,563.0	-9,940.0	-187.0	0.00	0.00	0.00	82.33	LTP(Banjo 5 Fed Con
21,724.2	90.00	180.24	11,563.0	-10,040.0	-187.0	0.47	0.00	0.47	90.17	PBHL(Banjo 5 Fed Co

eog resources

Planning Report

EDM Database:

Company:

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

Banjo 5 Fed Com Site:

Well: #761H ОН Wellbore: Design: Plan #0.1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #761H

kb 25 @ 3190.0usft kb 25 @ 3190.0usft

Grid

esign:	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)
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	323.46	1,300.0	1.4	-1.0	-1.4	2.00	2.00	0.00
1,400.0	4.00	323.46	1,399.8	5.6	-4.2	-5.5	2.00	2.00	0.00
1 150 1	E 40	202.46	1 450 0	9.4	-7.0	-9.3	2.00	2.00	0.00
1,459.1	5.18	323.46	1,458.8					2.00	0.00
1,500.0	5.18	323.46	1,499.5	12.4	-9.2	-12.2	0.00	0.00	0.00
1,600.0	5.18	323.46	1,599.1	19.6	-14.5	-19.4	0.00	0.00	0.00
1,700.0	5.18	323.46	1,698.7	26.9	-19.9	-26.5	0.00	0.00	0.00
1,800.0	5.18	323.46	1,798.3	34.1	-25.3	-33.7	0.00	0.00	0.00
1,900.0	5.18	323.46	1,897.8	41.4	-30.7	-40.8	0.00	0.00	0.00
2,000.0	5.18	323.46	1,997.4	48.7	-36.1	-48.0	0.00	0.00	0.00
2,100.0	5.18	323.46	2,097.0	55.9	-41.4	-55.1	0.00	0.00	0.00
2,200.0	5.18	323.46	2,196.6	63.2	-46.8	-62.3	0.00	0.00	0.00
2,300.0	5.18	323.46	2,296.2	70.4	-52.2	-69.4	0.00	0.00	0.00
2,400.0	5.18	323.46	2,395.8	77.7	-57.6	-76.6	0.00	0.00	0.00
2,500.0	5.18	323.46	2,495.4	84.9	-63.0	-83.8	0.00	0.00	0.00
2,600.0	5.18	323.46	2,595.0	92.2	-68.3	-90.9	0.00	0.00	0.00
2,700.0	5.18	323.46	2,694.6	99.5	-73.7	-98.1	0.00	0.00	0.00
2,800.0	5.18	323.46	2,794.2	106.7	-79.1	-105.2	0.00	0.00	0.00
2,900.0	5.18	323.46	2,893.8	114.0	-84.5	-112.4	0.00	0.00	0.00
3,000.0	5.18	323.46	2,993.3	121.2	-89.8	-119.5	0.00	0.00	0.00
3,100.0	5.18	323.46	3,092.9	128.5	-95.2	-126.7	0.00	0.00	0.00
3,200.0	5.18	323.46	3,192.5	135.7	-100.6	-133.8	0.00	0.00	0.00
3,300.0	5.18	323.46	3,292.1	143.0	-106.0	-141.0	0.00	0.00	0.00
3,400.0	5.18	323.46	3,391.7	150.3	-111.4	-148.2	0.00	0.00	0.00
3,500.0	5.18	323.46	3,491.3	157.5	-116.7	-155.3	0.00	0.00	0.00
3,600.0	5.18	323.46	3,590.9	164.8	-122.1	-162.5	0.00	0.00	0.00
3,700.0	5.18	323.46	3,690.5	172.0	-127.5	-169.6	0.00	0.00	0.00
3,800.0	5.18	323.46	3,790.1	179.3	-132.9	-176.8	0.00	0.00	0.00
3,900.0	5.18	323.46	3,889.7	186.5	-138.2	-183.9	0.00	0.00	0.00
4,000.0	5.18	323.46	3,989.3	193.8	-143.6	-103.9	0.00	0.00	0.00
4,100.0	5.18	323.46	4,088.9	201.1	-149.0	-198.2	0.00	0.00	0.00
4,200.0	5.18	323.46	4,188.4	208.3	-154.4	-205.4	0.00	0.00	0.00
4,300.0	5.18	323.46	4,288.0	215.6	-159.8	-212.6	0.00	0.00	0.00
4,400.0	5.18	323.46	4,387.6	222.8	-165.1	-219.7	0.00	0.00	0.00
4,500.0	5.18	323.46	4,487.2	230.1	-170.5	-226.9	0.00	0.00	0.00
4,600.0	5.18	323.46	4,586.8	237.3	-175.9	-234.0	0.00	0.00	0.00
4,700.0	5.18	323.46	4,686.4	244.6	-181.3	-241.2	0.00	0.00	0.00
4,800.0	5.18	323.46	4,786.0	251.8	-186.6	-248.3	0.00	0.00	0.00
4,900.0	5.18	323.46	4,885.6	259.1	-192.0	-255.5	0.00	0.00	0.00
5,000.0	5.18	323.46	4,985.2	266.4	-197.4	-262.6	0.00	0.00	0.00
5,100.0	5.18	323.46	5,084.8	273.6	-202.8	-269.8	0.00	0.00	0.00
5,200.0	5.18	323.46	5,184.4	280.9	-208.2	-276.9	0.00	0.00	0.00

Planning Report

eog resources

EDM Database: Company:

Site:

EOG Resources - Midland Eddy County, NM (NAD 83 NME)

Project: Banjo 5 Fed Com

Well: #761H Wellbore: ОН Design: Plan #0.1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #761H

kb 25 @ 3190.0usft kb 25 @ 3190.0usft

Grid

500.g									
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	5.18	323.46	5,283.9	288.1	-213.5	-284.1	0.00	0.00	0.00
5,400.0	5.18	323.46	5,383.5	295.4	-218.9	-291.3	0.00	0.00	0.00
5,457.9	5.18	323.46	5,441.2	299.6	-222.0	-295.4	0.00	0.00	0.00
5,500.0	4.34	323.46	5,483.2	302.4	-224.1	-298.2	2.00	-2.00	0.00
5,600.0	2.34	323.46	5,583.0	307.1	-227.6	-302.8	2.00	-2.00	0.00
5,700.0	0.34	323.46	5,682.9	309.0	-229.0	-304.6	2.00	-2.00	0.00
5,717.1	0.00	0.00 0.00	5,700.0 5,782.9	309.0 309.0	-229.0 -229.0	-304.7 -304.7	2.00	-2.00	0.00 0.00
5,800.0 5,900.0	0.00		5,782.9 5,882.9	309.0	-229.0 - 229.0	-304.7 -304.7	0.00	0.00	
	0.00	0.00					0.00	0.00	0.00
6,000.0	0.00	0.00	5,982.9	309.0	-229.0 -229.0	-304.7	0.00	0.00	0.00
6,100.0	0.00	0.00	6,082.9	309.0	-229.0	-304.7	0.00	0.00	0.00
6,200.0	0.00	0.00	6,182.9	309.0	-229.0	-304.7	0.00	0.00	0.00
6,300.0	0.00	0.00	6,282.9	309.0	-229.0	-304.7	0.00	0.00	0.00
6,400.0	0.00	0.00	6,382.9	309.0	-229.0	-304.7	0.00	0.00	0.00
6,500.0	0.00	0.00	6,482.9	309.0	-229.0	-304.7	0.00	0.00	0.00
6,600.0	0.00	0.00	6,582.9	309.0	-229.0	-304.7	0.00	0.00	0.00
6,700.0	0.00	0.00	6,682.9	309.0	-229.0	-304.7	0.00	0.00	0.00
6,800.0	0.00	0.00	6,782.9	309.0	-229.0	-304.7	0.00	0.00	0.00
6,900.0	0.00	0.00	6,882.9	309.0	-229.0	-304.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,982.9	309.0	-229.0	-304.7	0.00	0.00	0.00
7,100.0	0.00	0.00	7,082.9	309.0	-229.0	-304.7	0.00	0.00	0.00
7,200.0	0.00	0.00	7,182.9	309.0	-229.0	-304.7	0.00	0.00	0.00
7,300.0	0.00	0.00	7,282.9	309.0	-229.0	-304.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,382.9	309.0	-229.0	-304.7	0.00	0.00	0.00
7,500.0	0.00	0.00	7,482.9	309.0	-229.0	-304.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,582.9	309.0	-229.0	-304.7	0.00	0.00	0.00
7,700.0	0.00	0.00	7,682.9	309.0	-229.0	-304.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,782.9	309.0	-229.0	-304.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,882.9	309.0	-229.0	-304.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,982.9	309.0	-229.0	-304.7	0.00	0.00	0.00
8,100.0	0.00	0.00	8,082.9	309.0	-229.0	-304.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,182.9	309.0	-229.0	-304.7	0.00	0.00	0.00
8,300.0 8,400.0	0.00 0.00	0.00 0.00	8,282.9 8,382.9	309.0 309.0	-229.0 -229.0	-304.7 -304.7	0.00 0.00	0.00 0.00	0.00 0.00
8,400.0 8,500.0	0.00	0.00	8,382.9 8,482.9	309.0	-229.0 -229.0	-304.7 -304.7	0.00	0.00	0.00
8,500.0 8,600.0	0.00	0.00	8,482.9 8,582.9	309.0	-229.0 -229.0	-304.7 -304.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,682.9	309.0	-229.0	-304.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,782.9	309.0	-229.0	-304.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,882.9	309.0	-229.0	-304.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,982.9	309.0	-229.0	-304.7	0.00	0.00	0.00
9,100.0	0.00	0.00	9,082.9	309.0	-229.0	-304.7	0.00	0.00	0.00
9,200.0	0.00	0.00	9,182.9	309.0	-229.0	-304.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,282.9	309.0	-229.0	-304.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,382.9	309.0	-229.0	-304.7	0.00	0.00	0.00
9,500.0	0.00	0.00	9,482.9	309.0	-229.0	-304.7	0.00	0.00	0.00
9,600.0	0.00	0.00	9,582.9	309.0	-229.0	-304.7	0.00	0.00	0.00
9,700.0	0.00	0.00	9,682.9	309.0	-229.0	-304.7	0.00	0.00	0.00
9,800.0	0.00	0.00	9,782.9	309.0	-229.0	-304.7	0.00	0.00	0.00
9,900.0	0.00	0.00	9,882.9	309.0	-229.0	-304.7	0.00	0.00	0.00
10,000.0	0.00	0.00	9,982.9	309.0	-229.0	-304.7	0.00	0.00	0.00
10,100.0	0.00	0.00	10,082.9	309.0	-229.0	-304.7	0.00	0.00	0.00
10,200.0	0.00	0.00	10,182.9	309.0	-229.0	-304.7	0.00	0.00	0.00
10,300.0	0.00	0.00	10,282.9	309.0	-229.0	-304.7	0.00	0.00	0.00
10,400.0	0.00	0.00	10,382.9	309.0	-229.0	-304.7	0.00	0.00	0.00

Planning Report

eog resources

EDM Database:

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

Banjo 5 Fed Com Site:

Well: #761H ОН Wellbore: Design: Plan #0.1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #761H

kb 25 @ 3190.0usft kb 25 @ 3190.0usft

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)
10,500.0	0.00	0.00	10,482.9	309.0	-229.0	-304.7	0.00	0.00	0.00
10,600.0	0.00	0.00	10,582.9	309.0	-229.0	-304.7	0.00	0.00	0.00
10,700.0	0.00	0.00	10,682.9	309.0	-229.0	-304.7	0.00	0.00	0.00
10,800.0	0.00	0.00	10,782.9	309.0	-229.0	-304.7	0.00	0.00	0.00
10,900.0	0.00	0.00	10,882.9	309.0	-229.0	-304.7	0.00	0.00	0.00
11,000.0	0.00	0.00	10,982.9	309.0	-229.0	-304.7	0.00	0.00	0.00
11,102.6	0.00	0.00	11,085.5	309.0	-229.0	-304.7	0.00	0.00	0.00
11,125.0	2.69	180.00	11,107.9	308.5	-229.0	-304.2	12.00	12.00	0.00
11,150.0	5.69	180.00	11,132.9	306.6	-229.0	-302.3	12.00	12.00	0.00
11,175.0	8.69	180.00	11,157.7	303.5	-229.0 -229.0	-299.2 -294.8	12.00	12.00 12.00	0.00
11,200.0 11,225.0	11.69 14.69	180.00 180.00	11,182.3 11,206.6	299.1 293.4	-229.0	-294.o -289.1	12.00 12.00	12.00	0.00 0.00
11,250.0	17.69	180.00	11,230.6	286.4	-229.0	-282.1	12.00	12.00	0.00
11,275.0 11,300.0	20.70 23.70	180.00 180.00	11,254.2 11,277.4	278.2 268.8	-229.0 -229.0	-273.9 -264.4	12.00 12.00	12.00 12.00	0.00 0.00
11,325.0	26.70	180.00	11,300.0	258.1	-229.0	-253.8	12.00	12.00	0.00
11,350.0	29.70	180.00	11,322.0	246.3	-229.0	-242.0	12.00	12.00	0.00
ŕ	32.70	180.00	*	233.4		-229.0			
11,375.0 11,400.0	35.70 35.70	180.00	11,343.4 11,364.1	233.4	-229.0 -229.0	-229.0 -215.0	12.00 12.00	12.00 12.00	0.00 0.00
11,425.0	38.70	180.00	11,384.0	204.2	-229.0	-199.9	12.00	12.00	0.00
11,450.0	41.70	180.00	11,403.1	188.1	-229.0	-183.8	12.00	12.00	0.00
11,475.0	44.70	180.00	11,421.3	170.9	-229.0	-166.7	12.00	12.00	0.00
11,500.0	47.70	180.00	11,438.6	152.9	-229.0	-148.6	12.00	12.00	0.00
11,525.0	50.70	180.00	11,454.9	134.0	-229.0	-129.7	12.00	12.00	0.00
11,550.0	53.70	180.00	11,470.3	114.2	-229.0	-109.9	12.00	12.00	0.00
11,575.0	56.70	180.00	11,484.5	93.7	-229.0	-89.4	12.00	12.00	0.00
11,600.0	59.70	180.00	11,497.7	72.5	-229.0	-68.2	12.00	12.00	0.00
11,625.0	62.70	180.00	11,509.7	50.6	-229.0	-46.3	12.00	12.00	0.00
11,649.0	65.57	180.00	11,520.2	29.0	-229.0	-24.7	12.00	12.00	0.00
11,650.0	65.70	180.00	11,520.6	28.1	-229.0	-23.8	12.00	12.00	-0.14
11,675.0	68.70	179.97	11,530.3	5.0	-229.0	-0.7	12.00	12.00	-0.13
11,700.0	71.70	179.93	11,538.8	-18.5	-229.0	22.8	12.00	12.00	-0.13
11,725.0	74.70	179.90	11,546.0	-42.4	-228.9	46.7	12.00	12.00	-0.12
11,750.0	77.70	179.87	11,552.0	-66.7	-228.9	71.0	12.00	12.00	-0.12
11,775.0	80.70	179.84	11,556.7	-91.3	-228.8	95.5	12.00	12.00	-0.12
11,800.0 11,825.0	83.70 86.70	179.81 179.78	11,560.1 11,562.1	-116.0 -140.9	-228.8 -228.7	120.3 145.2	12.00 12.00	12.00 12.00	-0.12 -0.11
11,850.0	89.70	179.76	11,562.9	-165.9	-228.6	170.2	12.00	12.00	-0.11
11,852.5 11,900.0	90.00 90.00	179.75 179.75	11,562.9 11,562.9	-168.5 -215.9	-228.6 -228.4	172.7 220.1	12.00 0.00	12.00 0.00	-0.11 0.00
12,000.0	90.00	179.75	11,562.9	-215.9 -315.9	-228.4 -227.9	320.1	0.00	0.00	0.00
12,100.0	90.00	179.75	11,562.9	-415.9	-227.5	420.1	0.00	0.00	0.00
12,200.0	90.00	179.75	11,562.9	-515.9	-227.1	520.1	0.00	0.00	0.00
12,300.0	90.00	179.75	11,562.9	-615.9	-227.1	620.0	0.00	0.00	0.00
12,400.0	90.00	179.75	11,562.9	-715.9	-226.2	720.0	0.00	0.00	0.00
12,500.0	90.00	179.75	11,562.9	-815.9	-225.8	820.0	0.00	0.00	0.00
12,600.0	90.00	179.75	11,562.9	-915.9	-225.3	920.0	0.00	0.00	0.00
12,700.0	90.00	179.75	11,563.0	-1,015.9	-224.9	1,019.9	0.00	0.00	0.00
12,800.0	90.00	179.75	11,563.0	-1,115.9	-224.5	1,119.9	0.00	0.00	0.00
12,900.0	90.00	179.75	11,563.0	-1,215.9	-224.1	1,219.9	0.00	0.00	0.00
13,000.0	90.00	179.75	11,563.0	-1,315.9	-223.6	1,319.9	0.00	0.00	0.00
13,100.0	90.00	179.75	11,563.0	-1,415.9	-223.2	1,419.8	0.00	0.00	0.00
13,200.0	90.00	179.75	11,563.0	-1,515.9	-222.8	1,519.8	0.00	0.00	0.00
13,300.0	90.00	179.75	11,563.0	-1,615.9	-222.3	1,619.8	0.00	0.00	0.00

Planning Report

beog resources

Database: ED Company: EO

Project:

EDM

EOG Resources - Midland

Eddy County, NM (NAD 83 NME)

Site: Banjo 5 Fed Com Well: #761H

Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #761H

kb 25 @ 3190.0usft kb 25 @ 3190.0usft

Grid

esign:									
lanned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,400.0	90.00	179.75	11,563.0	-1,715.9	-221.9	1,719.7	0.00	0.00	0.00
13,500.0	90.00	179.75	11,563.0	-1,815.9	-221.5	1,819.7	0.00	0.00	0.00
13,600.0	90.00	179.75	11,563.0	-1,915.9	-221.0	1,919.7	0.00	0.00	0.00
13,700.0	90.00	179.75	11,563.0	-2,015.9	-220.6	2,019.7	0.00	0.00	0.00
13,800.0	90.00	179.75	11,563.0	-2,115.9	-220.2	2,119.6	0.00	0.00	0.00
13,900.0	90.00	179.75	11,563.0	-2,215.9	-219.8	2,219.6	0.00	0.00	0.00
14,000.0	90.00	179.75	11,563.0	-2,315.9	-219.3	2,319.6	0.00	0.00	0.00
14,100.0	90.00	179.75	11,563.0	-2,415.9	-218.9	2,419.6	0.00	0.00	0.00
14,200.0	90.00	179.75	11,563.0	-2,515.9	-218.5	2,519.5	0.00	0.00	0.00
14,300.0	90.00	179.75	11,563.0		-218.0	2,619.5		0.00	
				-2,615.9			0.00		0.00
14,400.0	90.00	179.75	11,563.0	-2,715.9	-217.6	2,719.5	0.00	0.00	0.00
14,500.0	90.00	179.75	11,563.0	-2,815.9	-217.2	2,819.5	0.00	0.00	0.00
14,600.0	90.00	179.75	11,563.0	-2,915.9	-216.7	2,919.4	0.00	0.00	0.00
14,700.0	90.00	179.75	11,563.0	-3,015.9	-216.3	3,019.4	0.00	0.00	0.00
14,800.0	90.00	179.75	11,563.0	-3,115.9	-215.9	3,119.4	0.00	0.00	0.00
14,900.0	90.00	179.75	11,563.0	-3,215.9	-215.5	3,219.4	0.00	0.00	0.00
15,000.0	90.00	179.75	11,563.0	-3,315.9	-215.0	3,319.3	0.00	0.00	0.00
15,100.0	90.00	179.75	11,563.0	-3,415.9	-214.6	3,419.3	0.00	0.00	0.00
15,200.0	90.00	179.75	11,563.0	-3,515.9	-214.2	3,519.3	0.00	0.00	0.00
15,300.0	90.00	179.75	11,563.0	-3,615.9	-213.7	3,619.2	0.00	0.00	0.00
15,400.0	90.00	179.75	11,563.0	-3,715.9	-213.3	3,719.2	0.00	0.00	0.00
15,500.0	90.00	179.75	11,563.0	-3,815.9	-212.9	3,819.2	0.00	0.00	0.00
15,600.0	90.00	179.75	11,563.0	-3,915.9	-212.4	3,919.2	0.00	0.00	0.00
15 700 0	00.00	170.75	11 562 0	4.045.0	212.0	4.040.4	0.00	0.00	0.00
15,700.0	90.00	179.75	11,563.0	-4,015.9	-212.0	4,019.1	0.00	0.00	0.00
15,800.0	90.00	179.75	11,563.0	-4,115.9	-211.6	4,119.1	0.00	0.00	0.00
15,900.0	90.00	179.75	11,563.0	-4,215.9	-211.2	4,219.1	0.00	0.00	0.00
16,000.0	90.00	179.75	11,563.0	-4,315.9	-210.7	4,319.1	0.00	0.00	0.00
16,100.0	90.00	179.75	11,563.0	-4,415.9	-210.3	4,419.0	0.00	0.00	0.00
16,200.0	90.00	179.75	11,563.0	-4,515.9	-209.9	4,519.0	0.00	0.00	0.00
16,300.0	90.00	179.75	11,563.0	-4,615.9	-209.4	4,619.0	0.00	0.00	0.00
16,400.0	90.00	179.75	11,563.0	-4,715.9	-209.0	4,719.0	0.00	0.00	0.00
16,500.0	90.00	179.75	11,563.0	-4,815.9	-208.6	4,818.9	0.00	0.00	0.00
16,600.0	90.00	179.75	11,563.0	-4,915.9	-208.1	4,918.9	0.00	0.00	0.00
16,633.1	90.00	179.75	11,563.0	-4,949.0	-208.0	4,952.0	0.00	0.00	0.00
16,700.0	90.00	179.75	11,563.0	-5,015.9	-207.7	5,018.9	0.00	0.00	0.00
16,800.0	90.00	179.75	11,563.0	-5,115.9	-207.3	5,118.9	0.00	0.00	0.00
16,900.0	90.00	179.75	11,563.0	-5,215.9	-206.9	5,218.8	0.00	0.00	0.00
17,000.0	90.00	179.75	11,563.0	-5,315.9	-206.4	5,318.8	0.00	0.00	0.00
17,100.0	90.00	179.75	11,563.0	-5,415.9	-206.0	5,418.8	0.00	0.00	0.00
17,100.0	90.00	179.75	11,563.0	-5,515.9	-205.6	5,518.8	0.00	0.00	0.00
17,200.0	90.00	179.75	11,563.0	-5,615.9	-205.0	5,618.7	0.00	0.00	0.00
17,400.0	90.00	179.76	11,563.0	-5,715.9 -5,715.9	-205.1 -204.7	5,718.7		0.00	0.00
17,400.0	90.00	179.76	11,563.0	-5,715.9 -5,815.9	-204.7 -204.3	5,716.7	0.00	0.00	0.00
17,500.0	90.00	179.70	11,303.0	-5,615.9	-204.3	5,010.7	0.00	0.00	0.00
17,600.0	90.00	179.76	11,563.0	-5,915.9	-203.9	5,918.6	0.00	0.00	0.00
17,700.0	90.00	179.76	11,563.0	-6,015.9	-203.4	6,018.6	0.00	0.00	0.00
17,800.0	90.00	179.76	11,563.0	-6,115.9	-203.0	6,118.6	0.00	0.00	0.00
17,900.0	90.00	179.76	11,563.0	-6,215.9	-202.6	6,218.6	0.00	0.00	0.00
18,000.0	90.00	179.76	11,563.0	-6,315.9	-202.2	6,318.5	0.00	0.00	0.00
18,100.0	90.00	179.76	11,563.0	-6,415.9	-201.7	6,418.5	0.00	0.00	0.00
18,200.0	90.00	179.76	11,563.0	-6,515.9	-201.3	6,518.5	0.00	0.00	0.00
18,300.0	90.00	179.76	11,563.0	-6,615.9	-200.9	6,618.5	0.00	0.00	0.00
18,400.0	90.00	179.76	11,563.0	-6,715.9	-200.5	6,718.4	0.00	0.00	0.00
18,500.0	90.00	179.76	11,563.0	-6,815.9	-200.0	6,818.4	0.00	0.00	0.00
18,600.0	90.00	179.76	11,563.0	-6,915.9	-199.6	6,918.4	0.00	0.00	0.00

eog resources

Planning Report

Database: Company:

Project:

EDM

EOG Resources - Midland

Eddy County, NM (NAD 83 NME)

Site: Banjo 5 Fed Com

 Well:
 #761H

 Wellbore:
 OH

 Design:
 Plan #0.1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #761H

kb 25 @ 3190.0usft kb 25 @ 3190.0usft

Grid

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)
18,700.0	90.00	179.76	11,563.0	-7,015.9	-199.2	7,018.4	0.00	0.00	0.00
18,800.0	90.00	179.76	11,563.0	-7,115.9	-198.8	7,118.3	0.00	0.00	0.00
18,900.0	90.00	179.76	11,563.0	-7,215.9	-198.3	7,218.3	0.00	0.00	0.00
19,000.0	90.00	179.76	11,563.0	-7,315.9	-197.9	7,318.3	0.00	0.00	0.00
19,100.0	90.00	179.76	11,563.0	-7,415.9	-197.5	7,418.3	0.00	0.00	0.00
19,200.0	90.00	179.76	11,563.0	-7,515.9	-197.1	7,518.2	0.00	0.00	0.00
19,300.0	90.00	179.76	11,563.0	-7,615.9	-196.7	7,618.2	0.00	0.00	0.00
19,400.0	90.00	179.76	11,563.0	-7,715.9	-196.2	7,718.2	0.00	0.00	0.00
19,500.0	90.00	179.76	11,563.0	-7,815.9	-195.8	7,818.1	0.00	0.00	0.00
19,600.0	90.00	179.76	11,563.0	-7,915.9	-195.4	7,918.1	0.00	0.00	0.00
19,700.0	90.00	179.76	11,563.0	-8,015.9	-195.0	8,018.1	0.00	0.00	0.00
19,800.0	90.00	179.76	11,563.0	-8,115.9	-194.6	8,118.1	0.00	0.00	0.00
19,900.0	90.00	179.76	11,563.0	-8,215.9	-194.2	8,218.0	0.00	0.00	0.00
20,000.0	90.00	179.76	11,563.0	-8,315.9	-193.7	8,318.0	0.00	0.00	0.00
20,100.0	90.00	179.76	11,563.0	-8,415.9	-193.3	8,418.0	0.00	0.00	0.00
20,200.0	90.00	179.76	11,563.0	-8,515.9	-192.9	8,518.0	0.00	0.00	0.00
20,300.0	90.00	179.76	11,563.0	-8,615.9	-192.5	8,617.9	0.00	0.00	0.00
20,400.0	90.00	179.76	11,563.0	-8,715.9	-192.1	8,717.9	0.00	0.00	0.00
20,500.0	90.00	179.76	11,563.0	-8,815.8	-191.6	8,817.9	0.00	0.00	0.00
20,600.0	90.00	179.76	11,563.0	-8,915.8	-191.2	8,917.9	0.00	0.00	0.00
20,700.0	90.00	179.76	11,563.0	-9,015.8	-190.8	9,017.8	0.00	0.00	0.00
20,800.0	90.00	179.76	11,563.0	-9,115.8	-190.4	9,117.8	0.00	0.00	0.00
20,900.0	90.00	179.76	11,563.0	-9,215.8	-190.0	9,217.8	0.00	0.00	0.00
21,000.0	90.00	179.76	11,563.0	-9,315.8	-189.6	9,317.8	0.00	0.00	0.00
21,100.0	90.00	179.76	11,563.0	-9,415.8	-189.2	9,417.7	0.00	0.00	0.00
21,200.0	90.00	179.76	11,563.0	-9,515.8	-188.7	9,517.7	0.00	0.00	0.00
21,300.0	90.00	179.76	11,563.0	-9,615.8	-188.3	9,617.7	0.00	0.00	0.00
21,400.0	90.00	179.76	11,563.0	-9,715.8	-187.9	9,717.7	0.00	0.00	0.00
21,500.0	90.00	179.76	11,563.0	-9,815.8	-187.5	9,817.6	0.00	0.00	0.00
21,600.0	90.00	179.76	11,563.0	-9,915.8	-187.1	9,917.6	0.00	0.00	0.00
21,624.2	90.00	179.76	11,563.0	-9,940.0	-187.0	9,941.8	0.00	0.00	0.00
21,700.0	90.00	180.12	11,563.0	-10,015.8	-186.9	10,017.6	0.47	0.00	0.47
21,724.2	90.00	180.24	11,563.0	-10,040.0	-187.0	10,041.7	0.47	0.00	0.47

eog resources

EOG Resources

Planning Report

Database: Company:

Site:

EDM

EOG Resources - Midland

Project: Eddy County, NM (NAD 83 NME)

Banjo 5 Fed Com

Well: #761H Wellbore: ОН Design: Plan #0.1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well #761H

kb 25 @ 3190.0usft kb 25 @ 3190.0usft

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(Banjo 5 Fed Com # - plan hits target cente - Point	0.00 er	0.00	11,085.5	309.0	-229.0	392,732.00	676,476.00	32° 4' 44.215 N	103° 53' 49.249 W
FTP(Banjo 5 Fed Com # - plan hits target cente - Point	0.00 er	0.00	11,520.2	29.0	-229.0	392,452.00	676,476.00	32° 4' 41.444 N	103° 53' 49.262 W
FED PP(Banjo 5 Fed Co - plan hits target centor - Point	0.00 er	0.00	11,563.0	-4,949.0	-208.0	387,474.00	676,497.00	32° 3′ 52.181 N	103° 53' 49.252 W
LTP(Banjo 5 Fed Com# - plan hits target centor - Point	0.00 er	0.00	11,563.0	-9,940.0	-187.0	382,483.00	676,518.00	32° 3′ 2.789 N	103° 53' 49.242 W
PBHL(Banjo 5 Fed Com - plan hits target cente - Point	0.00 er	0.00	11,563.0	-10,040.0	-187.0	382,383.00	676,518.00	32° 3′ 1.800 N	103° 53' 49.247 W

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Original to Appropriate District Office

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

GAS (CAP	TI	\mathbf{RE}	PLA	N
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Date: 04/21/2020		
□ Original	Operator & OGRID No.:	EOG Resources, Inc. 7377
☐ Amended - Reason for Amendment:	-	

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

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

Well(s)/Production Facility - Name of facility

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

Well Name	API	Well Location	Footages	Expected	Flared or	Comments
		(ULSTR)		MCF/D	Vented	
Banjo 5 Fed Com 761H	30-015-****	A-5-26S-30E	362' FNL & 432' FEL	±3500	None Planned	APD Submission
Banjo 5 Fed Com 762H	30-015-****	B-5-26S-30E	361' FNL & 1410' FEL	±3500	None Planned	APD Submission
Banjo 5 Fed Com 763H	30-015-****	B-5-26S-30E	361' FNL & 1455' FEL	±3500	None Planned	APD Submission
Banjo 5 Fed Com 764H	30-015-****	B-5-26S-30E	361' FNL & 2221' FEL	±3500	None Planned	APD Submission
Banjo 5 Fed Com 767H	30-015-****	D-5-26S-30E	321' FNL & 618' FWL	±3500	None Planned	APD Submission
Banjo 5 Fed Com 771H	30-015-****	A-5-26S-30E	362' FNL & 417' FEL	±3500	None Planned	APD Submission
Banjo 5 Fed Com 772H	30-015-****	A-5-26S-30E	361' FNL & 462' FEL	±3500	None Planned	APD Submission
Banjo 5 Fed Com 773H	30-015-****	B-5-26S-30E	361' FNL & 1425' FEL	±3500	None Planned	APD Submission
Banjo 5 Fed Com 774H	30-015-****	B-5-26S-30E	361' FNL & 2206' FEL	±3500	None Planned	APD Submission
Banjo 5 Fed Com 775H	30-015-****	B-5-26S-30E	361' FNL & 2251' FEL	±3500	None Planned	APD Submission
Banjo 5 Fed Com 777H	30-015-****	D-5-26S-30E	321' FNL & 633' FWL	±3500	None Planned	APD Submission
Banjo 5 Fed Com 778H	30-015-****	D-5-26S-30E	321' FNL & 588' FWL	±3500	None Planned	APD Submission
Banjo 5 Fed Com 801H	30-015-****	A-5-26S-30E	362' FNL & 447' FEL	±3500	None Planned	APD Submission
Banjo 5 Fed Com 802H	30-015-****	B-5-26S-30E	361' FNL & 1440' FEL	±3500	None Planned	APD Submission
Banjo 5 Fed Com 803H	30-015-****	B-5-26S-30E	361' FNL & 2236' FEL	±3500	None Planned	APD Submission
Banjo 5 Fed Com 805H	30-015-****	D-5-26S-30E	321' FNL & 603' FWL	±3500	None Planned	APD Submission

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to <u>Enlink Midstream</u>. <u>Enterprise & Markwest Energy</u> and will be connected to <u>EOG Resources</u> low/high pressure gathering system located in Eddy County, New Mexico. <u>EOG Resources</u> provides (periodically) to <u>Enlink Midstream</u>, <u>Enterprise & Markwest Energy</u> a drilling, completion and

Received by OCD: 4/21/2021 8:45:11 AM

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estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, **EOG Resources** and **Enlink Midstream, Enterprise & Markwest Energy** have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at **Enlink Midstream, Enterprise & Markwest Energy** Processing Plant located in Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

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

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

Alternatives to Reduce Flaring

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

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

Hydrogen Sulfide Plan Summary

- A. All personnel shall receive proper H2S training in accordance with Onshore Order III.C.3.a.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:
 - Well control equipment
 - a. Flare line 150' from wellhead to be ignited by flare gun.
 - b. Choke manifold with a remotely operated choke.
 - c. Mud/gas separator
 - Protective equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escape packs —4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs —4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher
- H2S detection and monitoring equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.

(Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.
 - a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - c. Two wind socks will be placed in strategic locations, visible from all angles.

■ Mud program:

The mud program has been designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.

■ Metallurgy:

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

■ Communication:

Communication will be via cell phones and land lines where available.

Emergency Assistance Telephone List

PUBLIC SAFETY:		911 or
Lea County Sheriff's Department		(575) 396-3611
Rod Coffman		
Fire Department:		
Carlsbad		(575) 885-3125
Artesia		(575) 746-5050
Hospitals:		
Carlsbad		(575) 887-4121
Artesia		(575) 748-3333
Hobbs		(575) 392-1979
Dept. of Public Safety/Carlsbad		(575) 748-9718
Highway Department		(575) 885-3281
New Mexico Oil Conservation		(575) 476-3440
U.S. Dept. of Labor		(575) 887-1174
EOG Resources, Inc.		
EOG / Midland	Office	(432) 686-3600
Company Drilling Consultants:	G 11	(422) 220 4040
Jett Dueitt	Cell	(432) 230-4840
Blake Burney		
Drilling Engineer		
Steve Munsell	Office	(432) 686-3609
	Cell	(432) 894-1256
Drilling Manager		
Aj Dach	Office	(432) 686-3751
	Cell	(817) 480-1167
Drilling Superintendent		
Jason Townsend	Office	(432) 848-9209
	Cell	(210) 776-5131
H&P Drilling		
H&P Drilling	Office	(432) 563-5757
H&P 415 Drilling Rig	Rig	(432) 230-4840
Tool Pusher:		
Johnathan Craig	Cell	(817) 760-6374
Brad Garrett		· · · / · · · · · · · · · · · · · · · ·
Safety	O.CC:	(100) 60 5 0 50 5
Brian Chandler (HSE Manager)		(432) 686-3695
	Cell	(817) 239-0251

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III
1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

COMMENTS

Action 24921

COMMENTS

Operator:			OGRID:	Action Number:	Action Type:
EOG RESOURCES INC	P.O. Box 2267	Midland, TX79702	7377	24921	FORM 3160-3

Created By	Comment	Comment Date
kpickford	KP GEO Review 4/22/2021	04/22/2021

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III
1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

CONDITIONS

Action 24921

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
EOG RESOURCES INC	P.O. Box 2267	Midland, TX79702	7377	24921	FORM 3160-3

OCD Reviewer	Condition
kpickford	Notify OCD 24 hours prior to casing & cement
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system