

Well Name: JUPITER 19 FED COM	Well Location: T24S / R34E / SEC 19 / NWNW / 32.2082403 / -103.5149113	County or Parish/State: LEA / NM
Well Number: 502H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM17241	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254787000X1	Well Status: Approved Application for Permit to Drill	Operator: EOG RESOURCES INCORPORATED

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Other
Date Sundry Submitted: 02/22/2021	Time Sundry Submitted: 09:27
Date proposed operation will begin: 03/05/2021	
Procedure Description: EOG respectfully requests an amendment to our approved APD for this well to reflect the following changes: Update casing program to current design BHL change to T-24-S R-34-E Sec 30 2539' FNL 1520' FWL Lea Co, NM	

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- JUPITER_19_FED_COM_502H_C_102_20210222092715.pdf
- Jupiter_19_Fed_Com_502H_Wall_Plot_20210222092610.pdf
- Jupiter_19_Fed_Com_502H_Permit_Info___BHL___Rev_csg_2.18.2021_20210222092604.pdf
- Jupiter_19_Fed_Com_502H_Planning_Report_20210222092558.pdf
- 6.000in_24_20210222092544.00

Received by OCD: 3/16/2021 1:46:25 PM

Page 2 of 24

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Conditions of Approval

Additional Reviews

Jupiter_19_FED_COM_502H_Drilling_COAs_20210311102051.pdf
6_inch_24_20210311102051.pdf

Operator Certification

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: HARRELL	Signed on: FEB 22, 2021 09:27 AM
Name: EOG RESOURCES INCORPORATED	
Title: Regulatory Specialist	
Street Address: 1111 BAGBY SKY LOBBY2	
City: HOUSTON	State: TX
Phone: (713) 651-7000	
Email address:	

Field Representative

Representative Name: Star Harrell	
Street Address: 5509 CHAMPIONS DRIVE	
City: MIDLAND	State: TX
Phone: (432)848-9161	Zip: 79706
Email address: Star_Harrell@eogresources.com	

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 03/16/2021
Signature: Chris Walls	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-47870	² Pool Code 96434	³ Pool Name Red Hills; Bone Spring, North
⁴ Property Code 329751	⁵ Property Name JUPITER 19 FED COM	⁶ Well Number 502H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3567'

¹⁰Surface Location

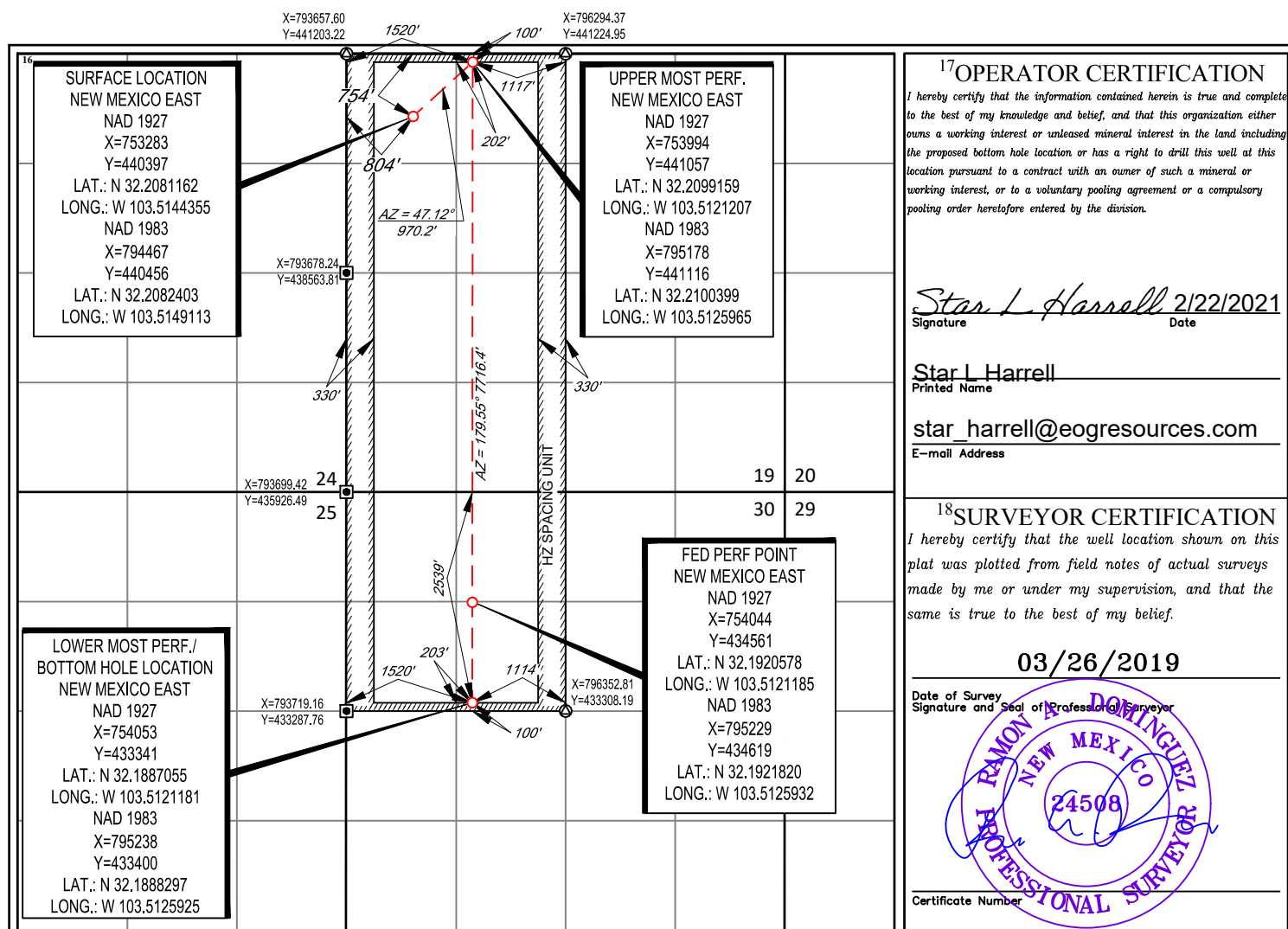
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	19	24-S	34-E	-	754'	NORTH	804'	WEST	LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	30	24-S	34-E	-	2539'	NORTH	1520'	WEST	LEA

¹² Dedicated Acres 478.26	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.



Revised Permit Information 2/18/2021:

Well Name: Jupiter 19 Fed Com #502H

Location:

SHL: 754' FNL & 804' FWL, Section 19, T-24-S, R-34-E, Lea Co., N.M.

BHL: 2539' FNL & 1520' FWL, Section 30, T-24-S, R-34-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
16"	0' – 1,214'	13.375"	54.5#	J-55	STC	1.125	1.25	1.60
12.25"	0' – 5,017'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75"	0' – 10,560'	6"	24#	ECP-110	HTQ	1.125	1.25	1.60
8.5"	10,560' – 18,599'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Variance is requested to waive the centralizer requirements for the 9-5/8" casing in the 12-1/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 12-1/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive any centralizer requirements for the 6" and 5-1/2" casing in the 8-3/4" and 8-1/2" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" and 8-1/2" hole interval to maximize cement bond and zonal isolation.

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /sk	Slurry Description
1,214' 13-3/8"	370	13.5	1.73	Lead: Class C + 4.0% Bentonite + 0.5% CaCl ₂ + 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 @ 1,014')
5,017' 9-5/8"	730	14.2	1.11	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	320	14.8	1.5	Tail: Class C + 10% NaCl + 3% MagOx (TOC @ 4,014')
10,560' 6"	610	11.0	1.31	Lead: Class C + 3% CaCl ₂ + 3% Microbond (TOC @ 4,517')
18,599' 5-1/2"	1960	14.0	1.2	Tail: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,560')

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

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.

Mud Program:

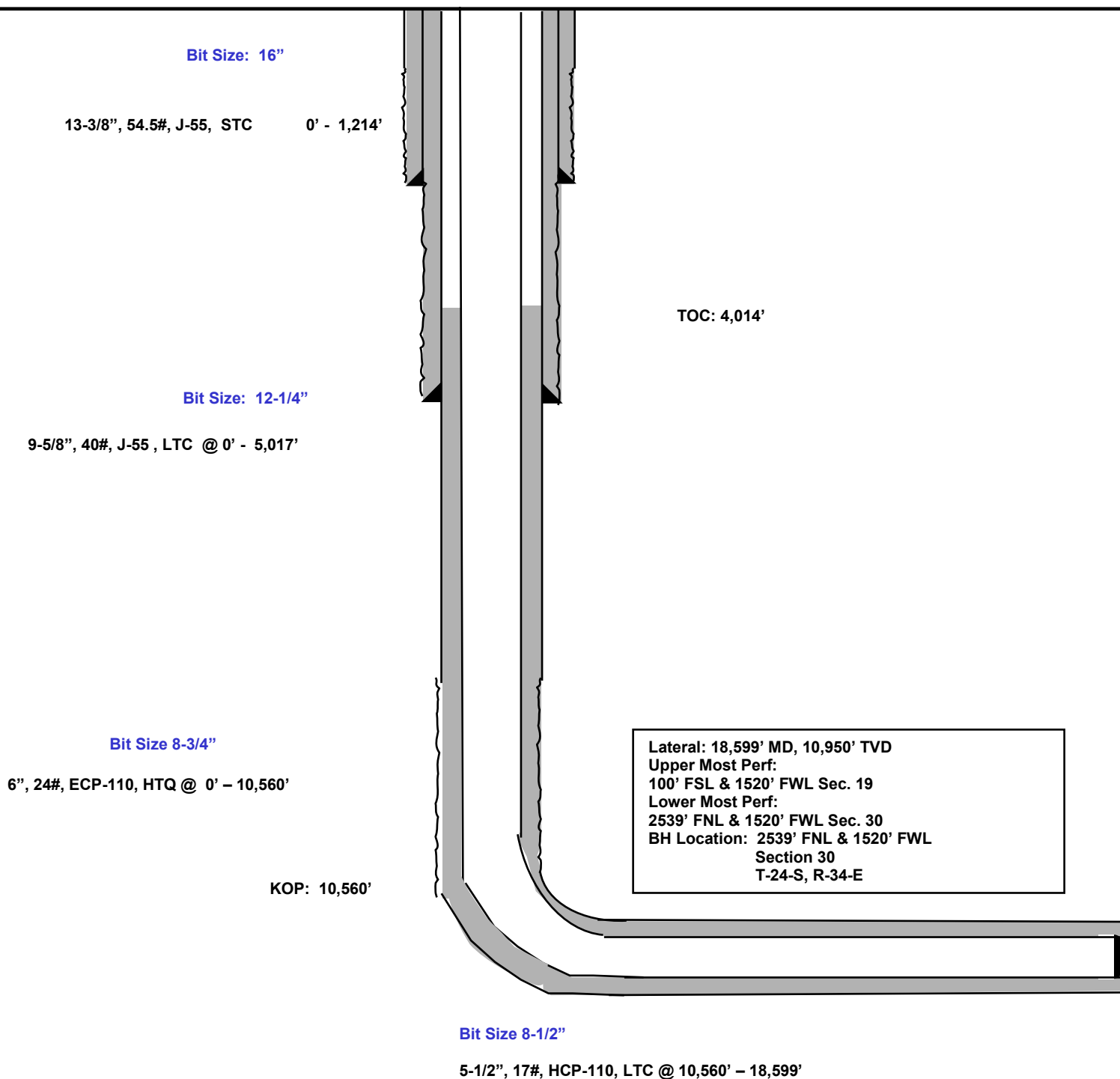
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,214'	Fresh - Gel	8.6-8.8	28-34	N/c
1,214' – 5,017'	Brine	8.6-8.8	28-34	N/c
5,017' – 18,599'	Oil Base	8.8-9.5	58-68	N/c - 6

754' FNL
804' FWL
Section 19
T-24-S, R-34-E

Revised Wellbore

KB: 3,592'
GL: 3,567'

API: 30-025-47148



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	EOG RESOURCES
LEASE NO.:	NMNM17241
WELL NAME & NO.:	JUPITER 19 FED COM 502H
SURFACE HOLE FOOTAGE:	754'/N & 804'/W
BOTTOM HOLE FOOTAGE:	2539'/N & 1520'/W
LOCATION:	Section 19, T.24 S., R.34 E., NMPM
COUNTY:	Lea County, New Mexico

COA

H2S	☐ Yes	☒ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☒ Low	☐ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ 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

All previous COAs still apply, except for the following:

A. CASING

1. The 13-3/8 inch surface casing shall be set at approximately **1,365** feet (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - 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.

Intermediate Casing must be kept at least 1/3 fluid filled to meet OO#2 Collapse Requirement.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Excess cement calculates to -22%, additional cement will be required. 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. **Excess cement calculates to 1%, additional cement will be required.**

B. PRESSURE CONTROL

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

C. 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.

JJP03102020

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 County

Call 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 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 integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-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 test.
 - 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.



U. S. Steel Tubular Products

9/10/2020 4:00:03 PM

6.000" 24.00lbs/ft (0.400" Wall) P110 USS-FREEDOM HTQ®



MECHANICAL PROPERTIES	Pipe	USS-FREEDOM HTQ®	
Minimum Yield Strength	110,000	--	psi
Maximum Yield Strength	140,000	--	psi
Minimum Tensile Strength	125,000	--	psi
DIMENSIONS	Pipe	USS-FREEDOM HTQ®	
Outside Diameter	6.000	6.875	in.
Wall Thickness	0.400	--	in.
Inside Diameter	5.200	5.200	in.
Standard Drift	5.075	5.075	in.
Alternate Drift	--	--	in.
Coupling Length	--	8.625	in.
Nominal Linear Weight, T&C	24.00	--	lbs/ft
Plain End Weight	23.95	--	lbs/ft
SECTION AREA	Pipe	USS-FREEDOM HTQ®	
Critical Area	7.037	7.037	sq. in.
Joint Efficiency	--	100.0	%
PERFORMANCE	Pipe	USS-FREEDOM HTQ®	
Minimum Collapse Pressure	11,460	11,460	psi
External Pressure Leak Resistance	--	9,170	psi
Minimum Internal Yield Pressure	12,830	12,830	psi
Minimum Pipe Body Yield Strength	774,000	--	lbs
Joint Strength	--	774,000	lbs
Compression Rating	--	774,000	lbs
Reference Length [4]	--	21,547	ft
Maximum Uniaxial Bend Rating [2]	--	84.0	deg/100 ft
MAKE-UP DATA	Pipe	USS-FREEDOM HTQ®	
Make-Up Loss	--	4.31	in.
Minimum Make-Up Torque [3]	--	15,000	ft-lbs
Maximum Make-Up Torque [3]	--	21,000	ft-lbs
Maximum Operating Torque[3]	--	36,000	ft-lbs

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
2. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
3. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
4. Reference length is calculated by joint strength divided by plain end weight with 1.5 safety factor.

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U. S. Steel Tubular Products
460 Wildwood Forest Drive, Suite 300S
Spring, Texas 77380

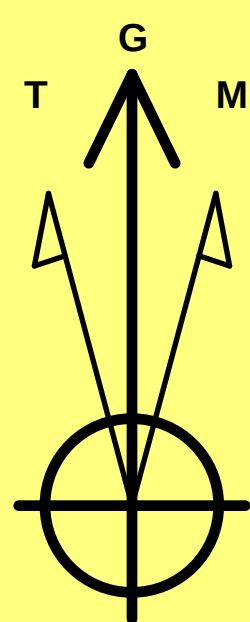
1-877-893-9461
connections@uss.com
www.usstubular.com



Lea County, NM (NAD 83 NME)

Jupiter 19 Fed Com #502H

Plan #0.2



Azimuths to Grid North
True North: -0.44°
Magnetic North: 6.23°

Magnetic Field
Strength: 47691.6nT
Dip Angle: 60.03°
Date: 10/24/2019
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.23°
To convert a Magnetic Direction to a True Direction, Add 6.67° East
To convert a True Direction to a Grid Direction, Subtract 0.44°

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #502H

KB = 25 @ 3592.0usft 3567.0
Northing 440456.00 Easting 794467.00 Latitude 32° 12' 29.669 N Longitude 103° 30' 53.683 W

SECTION DETAILS

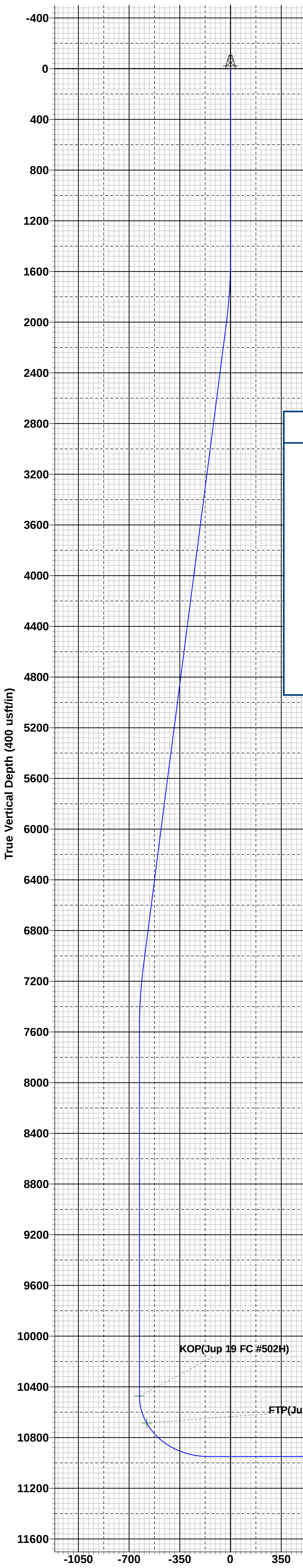
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
3	2011.8	10.24	45.04	2009.0	32.2	32.3	2.00	45.04	-28.5	
4	7153.5	10.24	45.04	7069.0	677.8	678.7	0.00	0.00	-600.1	
5	7665.3	0.00	0.00	7578.0	710.0	711.0	2.00	180.00	-628.6	
6	10559.8	0.00	0.00	10472.5	710.0	711.0	0.00	0.00	-628.6	KOP(Jup 19 FC #502H)
7	10780.2	26.46	180.00	10685.2	660.0	711.0	12.00	180.00	-578.9	FTP(Jup 19 FC #502H)
8	11309.7	90.00	179.54	10949.9	232.5	713.4	12.00	-0.51	-153.7	
9	17379.5	90.00	179.54	10950.0	-5837.0	762.0	0.00	0.00	5885.2	FEDPP(Jup 19 FC #502H)
10	18598.5	90.00	179.61	10950.0	-7056.0	771.0	0.01	89.20	7098.0	PBHL(Jup 19 FC #502H)

CASING DETAILS

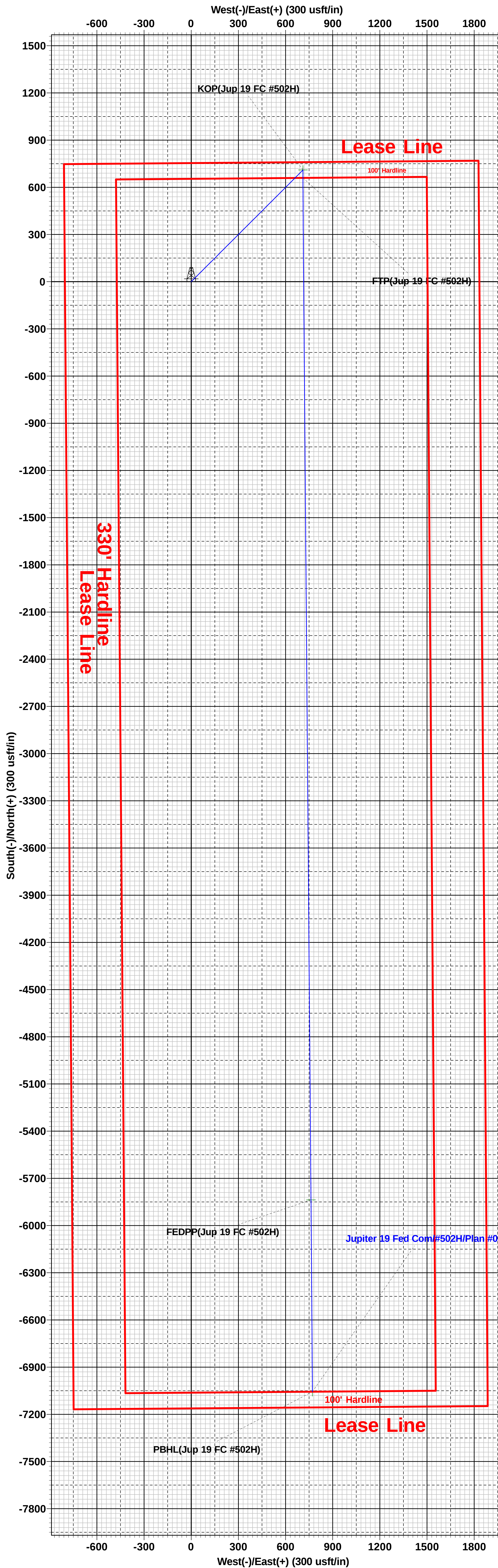
No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Jup 19 FC #502H)	10472.5	710.0	711.0	441166.00	795178.00
FTP(Jup 19 FC #502H)	10685.2	660.0	711.0	441116.00	795178.00
FEDPP(Jup 19 FC #502H)	10950.0	-5837.0	762.0	434619.00	795229.00
PBHL(Jup 19 FC #502H)	10950.0	-7056.0	771.0	433400.00	795238.00



Vertical Section at 173.76° (350 usft/in)





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Jupiter 19 Fed Com

#502H

OH

Plan: Plan #0.2

Standard Planning Report

01 February, 2021

EOG Resources

Planning Report



Database:	EDM 5000.14	Local Co-ordinate Reference	Well #502H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3592.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3592.0usft
Site:	Jupiter 19 Fed Com	North Reference:	Grid
Well:	#502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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

Site	Jupiter 19 Fed Com		
Site Position:		Northing:	440,554.00 usft
From:	Map	Easting:	794,402.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 12' 30.644 N
		Longitude:	103° 30' 54.431 W
		Grid Convergence:	0.44 °

Well	#502H					
Well Position	+N/-S	-98.0 usft	Northing:	440,456.00 usft	Latitude:	32° 12' 29.669 N
	+E/-W	65.0 usft	Easting:	794,467.00 usft	Longitude:	103° 30' 53.683 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,567.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/24/2019	6.67	60.03	47,691.62739191

Design	Plan #0.2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	173.76

Plan Survey Tool Program	Date	2/1/2021		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	18,598.5 Plan #0.2 (OH)	MWD	
			OWSG MWD - Standard	

EOG Resources

Planning Report



Database:	EDM 5000.14	Local Co-ordinate Reference	Well #502H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3592.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3592.0usft
Site:	Jupiter 19 Fed Com	North Reference:	Grid
Well:	#502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,011.8	10.24	45.04	2,009.0	32.2	32.3	2.00	2.00	0.00	45.04	
7,153.5	10.24	45.04	7,069.0	677.8	678.7	0.00	0.00	0.00	0.00	
7,665.3	0.00	0.00	7,578.0	710.0	711.0	2.00	-2.00	0.00	180.00	
10,559.8	0.00	0.00	10,472.5	710.0	711.0	0.00	0.00	0.00	0.00	KOP(Jup 19 FC #502
10,780.2	26.46	180.00	10,685.2	660.0	711.0	12.00	12.00	81.65	180.00	FTP(Jup 19 FC #502
11,309.7	90.00	179.54	10,949.9	232.5	713.4	12.00	12.00	-0.09	-0.51	
17,379.5	90.00	179.54	10,950.0	-5,837.0	762.0	0.00	0.00	0.00	0.00	FEDPP(Jup 19 FC #5
18,598.5	90.00	179.61	10,950.0	-7,056.0	771.0	0.01	0.00	0.01	89.20	PBHL(Jup 19 FC #50:

EOG Resources

Planning Report



Database:	EDM 5000.14	Local Co-ordinate Reference	Well #502H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3592.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3592.0usft
Site:	Jupiter 19 Fed Com	North Reference:	Grid
Well:	#502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,600.0	2.00	45.04	1,600.0	1.2	1.2	-1.1	2.00	2.00	0.00	
1,700.0	4.00	45.04	1,699.8	4.9	4.9	-4.4	2.00	2.00	0.00	
1,800.0	6.00	45.04	1,799.5	11.1	11.1	-9.8	2.00	2.00	0.00	
1,900.0	8.00	45.04	1,898.7	19.7	19.7	-17.4	2.00	2.00	0.00	
2,000.0	10.00	45.04	1,997.5	30.8	30.8	-27.2	2.00	2.00	0.00	
2,011.8	10.24	45.04	2,009.0	32.2	32.3	-28.5	2.00	2.00	0.00	
2,100.0	10.24	45.04	2,095.9	43.3	43.4	-38.3	0.00	0.00	0.00	
2,200.0	10.24	45.04	2,194.3	55.8	55.9	-49.4	0.00	0.00	0.00	
2,300.0	10.24	45.04	2,292.7	68.4	68.5	-60.6	0.00	0.00	0.00	
2,400.0	10.24	45.04	2,391.1	81.0	81.1	-71.7	0.00	0.00	0.00	
2,500.0	10.24	45.04	2,489.5	93.5	93.6	-82.8	0.00	0.00	0.00	
2,600.0	10.24	45.04	2,587.9	106.1	106.2	-93.9	0.00	0.00	0.00	
2,700.0	10.24	45.04	2,686.3	118.6	118.8	-105.0	0.00	0.00	0.00	
2,800.0	10.24	45.04	2,784.7	131.2	131.4	-116.1	0.00	0.00	0.00	
2,900.0	10.24	45.04	2,883.1	143.7	143.9	-127.3	0.00	0.00	0.00	
3,000.0	10.24	45.04	2,981.6	156.3	156.5	-138.4	0.00	0.00	0.00	
3,100.0	10.24	45.04	3,080.0	168.8	169.1	-149.5	0.00	0.00	0.00	
3,200.0	10.24	45.04	3,178.4	181.4	181.7	-160.6	0.00	0.00	0.00	
3,300.0	10.24	45.04	3,276.8	194.0	194.2	-171.7	0.00	0.00	0.00	
3,400.0	10.24	45.04	3,375.2	206.5	206.8	-182.8	0.00	0.00	0.00	
3,500.0	10.24	45.04	3,473.6	219.1	219.4	-193.9	0.00	0.00	0.00	
3,600.0	10.24	45.04	3,572.0	231.6	232.0	-205.1	0.00	0.00	0.00	
3,700.0	10.24	45.04	3,670.4	244.2	244.5	-216.2	0.00	0.00	0.00	
3,800.0	10.24	45.04	3,768.8	256.7	257.1	-227.3	0.00	0.00	0.00	
3,900.0	10.24	45.04	3,867.2	269.3	269.7	-238.4	0.00	0.00	0.00	
4,000.0	10.24	45.04	3,965.6	281.8	282.2	-249.5	0.00	0.00	0.00	
4,100.0	10.24	45.04	4,064.1	294.4	294.8	-260.6	0.00	0.00	0.00	
4,200.0	10.24	45.04	4,162.5	307.0	307.4	-271.8	0.00	0.00	0.00	
4,300.0	10.24	45.04	4,260.9	319.5	320.0	-282.9	0.00	0.00	0.00	
4,400.0	10.24	45.04	4,359.3	332.1	332.5	-294.0	0.00	0.00	0.00	
4,500.0	10.24	45.04	4,457.7	344.6	345.1	-305.1	0.00	0.00	0.00	
4,600.0	10.24	45.04	4,556.1	357.2	357.7	-316.2	0.00	0.00	0.00	
4,700.0	10.24	45.04	4,654.5	369.7	370.3	-327.3	0.00	0.00	0.00	
4,800.0	10.24	45.04	4,752.9	382.3	382.8	-338.4	0.00	0.00	0.00	
4,900.0	10.24	45.04	4,851.3	394.8	395.4	-349.6	0.00	0.00	0.00	
5,000.0	10.24	45.04	4,949.7	407.4	408.0	-360.7	0.00	0.00	0.00	
5,100.0	10.24	45.04	5,048.1	420.0	420.6	-371.8	0.00	0.00	0.00	

EOG Resources

Planning Report



Database:	EDM 5000.14	Local Co-ordinate Reference	Well #502H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3592.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3592.0usft
Site:	Jupiter 19 Fed Com	North Reference:	Grid
Well:	#502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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)	
5,200.0	10.24	45.04	5,146.5	432.5	433.1	-382.9	0.00	0.00	0.00	
5,300.0	10.24	45.04	5,245.0	445.1	445.7	-394.0	0.00	0.00	0.00	
5,400.0	10.24	45.04	5,343.4	457.6	458.3	-405.1	0.00	0.00	0.00	
5,500.0	10.24	45.04	5,441.8	470.2	470.8	-416.3	0.00	0.00	0.00	
5,600.0	10.24	45.04	5,540.2	482.7	483.4	-427.4	0.00	0.00	0.00	
5,700.0	10.24	45.04	5,638.6	495.3	496.0	-438.5	0.00	0.00	0.00	
5,800.0	10.24	45.04	5,737.0	507.8	508.6	-449.6	0.00	0.00	0.00	
5,900.0	10.24	45.04	5,835.4	520.4	521.1	-460.7	0.00	0.00	0.00	
6,000.0	10.24	45.04	5,933.8	533.0	533.7	-471.8	0.00	0.00	0.00	
6,100.0	10.24	45.04	6,032.2	545.5	546.3	-482.9	0.00	0.00	0.00	
6,200.0	10.24	45.04	6,130.6	558.1	558.9	-494.1	0.00	0.00	0.00	
6,300.0	10.24	45.04	6,229.0	570.6	571.4	-505.2	0.00	0.00	0.00	
6,400.0	10.24	45.04	6,327.5	583.2	584.0	-516.3	0.00	0.00	0.00	
6,500.0	10.24	45.04	6,425.9	595.7	596.6	-527.4	0.00	0.00	0.00	
6,600.0	10.24	45.04	6,524.3	608.3	609.1	-538.5	0.00	0.00	0.00	
6,700.0	10.24	45.04	6,622.7	620.8	621.7	-549.6	0.00	0.00	0.00	
6,800.0	10.24	45.04	6,721.1	633.4	634.3	-560.8	0.00	0.00	0.00	
6,900.0	10.24	45.04	6,819.5	646.0	646.9	-571.9	0.00	0.00	0.00	
7,000.0	10.24	45.04	6,917.9	658.5	659.4	-583.0	0.00	0.00	0.00	
7,100.0	10.24	45.04	7,016.3	671.1	672.0	-594.1	0.00	0.00	0.00	
7,153.5	10.24	45.04	7,069.0	677.8	678.7	-600.1	0.00	0.00	0.00	
7,200.0	9.31	45.04	7,114.8	683.4	684.3	-605.0	2.00	-2.00	0.00	
7,300.0	7.31	45.04	7,213.7	693.6	694.5	-614.0	2.00	-2.00	0.00	
7,400.0	5.31	45.04	7,313.1	701.3	702.3	-620.9	2.00	-2.00	0.00	
7,500.0	3.31	45.04	7,412.8	706.6	707.6	-625.6	2.00	-2.00	0.00	
7,600.0	1.31	45.04	7,512.7	709.5	710.5	-628.1	2.00	-2.00	0.00	
7,665.3	0.00	0.00	7,578.0	710.0	711.0	-628.6	2.00	-2.00	0.00	
7,700.0	0.00	0.00	7,612.7	710.0	711.0	-628.6	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,712.7	710.0	711.0	-628.6	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,812.7	710.0	711.0	-628.6	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,912.7	710.0	711.0	-628.6	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,012.7	710.0	711.0	-628.6	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,112.7	710.0	711.0	-628.6	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,212.7	710.0	711.0	-628.6	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,312.7	710.0	711.0	-628.6	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,412.7	710.0	711.0	-628.6	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,512.7	710.0	711.0	-628.6	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,612.7	710.0	711.0	-628.6	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,712.7	710.0	711.0	-628.6	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,812.7	710.0	711.0	-628.6	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,912.7	710.0	711.0	-628.6	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,012.7	710.0	711.0	-628.6	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,112.7	710.0	711.0	-628.6	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,212.7	710.0	711.0	-628.6	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,312.7	710.0	711.0	-628.6	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,412.7	710.0	711.0	-628.6	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,512.7	710.0	711.0	-628.6	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,612.7	710.0	711.0	-628.6	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,712.7	710.0	711.0	-628.6	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,812.7	710.0	711.0	-628.6	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,912.7	710.0	711.0	-628.6	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,012.7	710.0	711.0	-628.6	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,112.7	710.0	711.0	-628.6	0.00	0.00	0.00	

EOG Resources

Planning Report



Database:	EDM 5000.14	Local Co-ordinate Reference	Well #502H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3592.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3592.0usft
Site:	Jupiter 19 Fed Com	North Reference:	Grid
Well:	#502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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)	
10,300.0	0.00	0.00	10,212.7	710.0	711.0	-628.6	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,312.7	710.0	711.0	-628.6	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,412.7	710.0	711.0	-628.6	0.00	0.00	0.00	
10,559.8	0.00	0.00	10,472.5	710.0	711.0	-628.6	0.00	0.00	0.00	
KOP(Jup 19 FC #502H)										
10,575.0	1.83	180.00	10,487.7	709.8	711.0	-628.3	12.00	12.00	0.00	
10,600.0	4.83	180.00	10,512.7	708.3	711.0	-626.9	12.00	12.00	0.00	
10,625.0	7.83	180.00	10,537.5	705.5	711.0	-624.1	12.00	12.00	0.00	
10,650.0	10.83	180.00	10,562.2	701.5	711.0	-620.1	12.00	12.00	0.00	
10,675.0	13.83	180.00	10,586.6	696.2	711.0	-614.8	12.00	12.00	0.00	
10,700.0	16.83	180.00	10,610.7	689.5	711.0	-608.2	12.00	12.00	0.00	
10,725.0	19.83	180.00	10,634.5	681.7	711.0	-600.4	12.00	12.00	0.00	
10,750.0	22.83	180.00	10,657.7	672.6	711.0	-591.4	12.00	12.00	0.00	
10,775.0	25.83	180.00	10,680.5	662.3	711.0	-581.1	12.00	12.00	0.00	
10,780.2	26.46	180.00	10,685.2	660.0	711.0	-578.9	12.00	12.00	0.00	
FTP(Jup 19 FC #502H)										
10,800.0	28.83	179.96	10,702.7	650.8	711.0	-569.7	12.00	12.00	-0.22	
10,825.0	31.83	179.91	10,724.3	638.2	711.0	-557.2	12.00	12.00	-0.19	
10,850.0	34.83	179.87	10,745.2	624.5	711.0	-543.5	12.00	12.00	-0.16	
10,875.0	37.83	179.84	10,765.3	609.6	711.1	-528.8	12.00	12.00	-0.14	
10,900.0	40.83	179.81	10,784.7	593.8	711.1	-513.0	12.00	12.00	-0.12	
10,925.0	43.83	179.78	10,803.1	577.0	711.2	-496.3	12.00	12.00	-0.11	
10,950.0	46.83	179.76	10,820.7	559.2	711.3	-478.6	12.00	12.00	-0.09	
10,975.0	49.83	179.73	10,837.3	540.5	711.4	-460.1	12.00	12.00	-0.09	
11,000.0	52.83	179.71	10,853.0	521.0	711.4	-440.6	12.00	12.00	-0.08	
11,025.0	55.83	179.70	10,867.5	500.7	711.5	-420.4	12.00	12.00	-0.07	
11,050.0	58.83	179.68	10,881.0	479.7	711.7	-399.5	12.00	12.00	-0.07	
11,075.0	61.83	179.66	10,893.4	457.9	711.8	-377.9	12.00	12.00	-0.06	
11,100.0	64.83	179.65	10,904.6	435.6	711.9	-355.7	12.00	12.00	-0.06	
11,125.0	67.83	179.63	10,914.7	412.7	712.1	-332.9	12.00	12.00	-0.06	
11,150.0	70.83	179.62	10,923.5	389.3	712.2	-309.6	12.00	12.00	-0.05	
11,175.0	73.83	179.61	10,931.1	365.5	712.4	-286.0	12.00	12.00	-0.05	
11,200.0	76.83	179.59	10,937.4	341.3	712.5	-261.9	12.00	12.00	-0.05	
11,225.0	79.83	179.58	10,942.4	316.8	712.7	-237.5	12.00	12.00	-0.05	
11,250.0	82.83	179.57	10,946.2	292.1	712.9	-213.0	12.00	12.00	-0.05	
11,275.0	85.83	179.56	10,948.7	267.3	713.1	-188.2	12.00	12.00	-0.05	
11,300.0	88.83	179.55	10,949.8	242.3	713.3	-163.4	12.00	12.00	-0.05	
11,309.7	90.00	179.54	10,949.9	232.5	713.4	-153.7	12.00	12.00	-0.05	
11,400.0	90.00	179.54	10,949.9	142.3	714.1	-63.9	0.00	0.00	0.00	
11,500.0	90.00	179.54	10,949.9	42.3	714.9	35.6	0.00	0.00	0.00	
11,600.0	90.00	179.54	10,949.9	-57.7	715.7	135.1	0.00	0.00	0.00	
11,700.0	90.00	179.54	10,949.9	-157.7	716.5	234.6	0.00	0.00	0.00	
11,800.0	90.00	179.54	10,950.0	-257.7	717.3	334.1	0.00	0.00	0.00	
11,900.0	90.00	179.54	10,950.0	-357.7	718.1	433.6	0.00	0.00	0.00	
12,000.0	90.00	179.54	10,950.0	-457.7	718.9	533.1	0.00	0.00	0.00	
12,100.0	90.00	179.54	10,950.0	-557.7	719.7	632.6	0.00	0.00	0.00	
12,200.0	90.00	179.54	10,950.0	-657.7	720.5	732.1	0.00	0.00	0.00	
12,300.0	90.00	179.54	10,950.0	-757.7	721.3	831.6	0.00	0.00	0.00	
12,400.0	90.00	179.54	10,950.0	-857.7	722.1	931.0	0.00	0.00	0.00	
12,500.0	90.00	179.54	10,950.0	-957.7	722.9	1,030.5	0.00	0.00	0.00	
12,600.0	90.00	179.54	10,950.0	-1,057.7	723.7	1,130.0	0.00	0.00	0.00	
12,700.0	90.00	179.54	10,950.0	-1,157.7	724.5	1,229.5	0.00	0.00	0.00	
12,800.0	90.00	179.54	10,950.0	-1,257.7	725.3	1,329.0	0.00	0.00	0.00	

EOG Resources

Planning Report



Database:	EDM 5000.14	Local Co-ordinate Reference	Well #502H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3592.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3592.0usft
Site:	Jupiter 19 Fed Com	North Reference:	Grid
Well:	#502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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)	
12,900.0	90.00	179.54	10,950.0	-1,357.7	726.1	1,428.5	0.00	0.00	0.00	
13,000.0	90.00	179.54	10,950.0	-1,457.7	726.9	1,528.0	0.00	0.00	0.00	
13,100.0	90.00	179.54	10,950.0	-1,557.7	727.7	1,627.5	0.00	0.00	0.00	
13,200.0	90.00	179.54	10,950.0	-1,657.7	728.5	1,727.0	0.00	0.00	0.00	
13,300.0	90.00	179.54	10,950.0	-1,757.7	729.3	1,826.5	0.00	0.00	0.00	
13,400.0	90.00	179.54	10,950.0	-1,857.7	730.1	1,926.0	0.00	0.00	0.00	
13,500.0	90.00	179.54	10,950.0	-1,957.6	730.9	2,025.5	0.00	0.00	0.00	
13,600.0	90.00	179.54	10,950.0	-2,057.6	731.7	2,125.0	0.00	0.00	0.00	
13,700.0	90.00	179.54	10,950.0	-2,157.6	732.5	2,224.4	0.00	0.00	0.00	
13,800.0	90.00	179.54	10,950.0	-2,257.6	733.3	2,323.9	0.00	0.00	0.00	
13,900.0	90.00	179.54	10,950.0	-2,357.6	734.1	2,423.4	0.00	0.00	0.00	
14,000.0	90.00	179.54	10,950.0	-2,457.6	734.9	2,522.9	0.00	0.00	0.00	
14,100.0	90.00	179.54	10,950.0	-2,557.6	735.7	2,622.4	0.00	0.00	0.00	
14,200.0	90.00	179.54	10,950.0	-2,657.6	736.5	2,721.9	0.00	0.00	0.00	
14,300.0	90.00	179.54	10,950.0	-2,757.6	737.3	2,821.4	0.00	0.00	0.00	
14,400.0	90.00	179.54	10,950.0	-2,857.6	738.1	2,920.9	0.00	0.00	0.00	
14,500.0	90.00	179.54	10,950.0	-2,957.6	738.9	3,020.4	0.00	0.00	0.00	
14,600.0	90.00	179.54	10,950.0	-3,057.6	739.7	3,119.9	0.00	0.00	0.00	
14,700.0	90.00	179.54	10,950.0	-3,157.6	740.5	3,219.4	0.00	0.00	0.00	
14,800.0	90.00	179.54	10,950.0	-3,257.6	741.3	3,318.9	0.00	0.00	0.00	
14,900.0	90.00	179.54	10,950.0	-3,357.6	742.1	3,418.3	0.00	0.00	0.00	
15,000.0	90.00	179.54	10,950.0	-3,457.6	742.9	3,517.8	0.00	0.00	0.00	
15,100.0	90.00	179.54	10,950.0	-3,557.6	743.7	3,617.3	0.00	0.00	0.00	
15,200.0	90.00	179.54	10,950.0	-3,657.6	744.5	3,716.8	0.00	0.00	0.00	
15,300.0	90.00	179.54	10,950.0	-3,757.6	745.3	3,816.3	0.00	0.00	0.00	
15,400.0	90.00	179.54	10,950.0	-3,857.6	746.1	3,915.8	0.00	0.00	0.00	
15,500.0	90.00	179.54	10,950.0	-3,957.6	746.9	4,015.3	0.00	0.00	0.00	
15,600.0	90.00	179.54	10,950.0	-4,057.6	747.7	4,114.8	0.00	0.00	0.00	
15,700.0	90.00	179.54	10,950.0	-4,157.6	748.5	4,214.3	0.00	0.00	0.00	
15,800.0	90.00	179.54	10,950.0	-4,257.6	749.3	4,313.8	0.00	0.00	0.00	
15,900.0	90.00	179.54	10,950.0	-4,357.6	750.1	4,413.3	0.00	0.00	0.00	
16,000.0	90.00	179.54	10,950.0	-4,457.6	750.9	4,512.8	0.00	0.00	0.00	
16,100.0	90.00	179.54	10,950.0	-4,557.6	751.7	4,612.3	0.00	0.00	0.00	
16,200.0	90.00	179.54	10,950.0	-4,657.6	752.6	4,711.7	0.00	0.00	0.00	
16,300.0	90.00	179.54	10,950.0	-4,757.6	753.4	4,811.2	0.00	0.00	0.00	
16,400.0	90.00	179.54	10,950.0	-4,857.6	754.2	4,910.7	0.00	0.00	0.00	
16,500.0	90.00	179.54	10,950.0	-4,957.6	755.0	5,010.2	0.00	0.00	0.00	
16,600.0	90.00	179.54	10,950.0	-5,057.5	755.8	5,109.7	0.00	0.00	0.00	
16,700.0	90.00	179.54	10,950.0	-5,157.5	756.6	5,209.2	0.00	0.00	0.00	
16,800.0	90.00	179.54	10,950.0	-5,257.5	757.4	5,308.7	0.00	0.00	0.00	
16,900.0	90.00	179.54	10,950.0	-5,357.5	758.2	5,408.2	0.00	0.00	0.00	
17,000.0	90.00	179.54	10,950.0	-5,457.5	759.0	5,507.7	0.00	0.00	0.00	
17,100.0	90.00	179.54	10,950.0	-5,557.5	759.8	5,607.2	0.00	0.00	0.00	
17,200.0	90.00	179.54	10,950.0	-5,657.5	760.6	5,706.7	0.00	0.00	0.00	
17,300.0	90.00	179.54	10,950.0	-5,757.5	761.4	5,806.2	0.00	0.00	0.00	
17,379.5	90.00	179.54	10,950.0	-5,837.0	762.0	5,885.2	0.00	0.00	0.00	
FEDPP(Jup 19 FC #502H)										
17,400.0	90.00	179.54	10,950.0	-5,857.5	762.2	5,905.7	0.01	0.00	0.01	
17,500.0	90.00	179.55	10,950.0	-5,957.5	763.0	6,005.1	0.01	0.00	0.01	
17,600.0	90.00	179.55	10,950.0	-6,057.5	763.7	6,104.6	0.01	0.00	0.01	
17,700.0	90.00	179.56	10,950.0	-6,157.5	764.5	6,204.1	0.01	0.00	0.01	
17,800.0	90.00	179.57	10,950.0	-6,257.5	765.3	6,303.6	0.01	0.00	0.01	
17,900.0	90.00	179.57	10,950.0	-6,357.5	766.0	6,403.1	0.01	0.00	0.01	



EOG Resources

Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference	Well #502H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3592.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3592.0usft
Site:	Jupiter 19 Fed Com	North Reference:	Grid
Well:	#502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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)	
18,000.0	90.00	179.58	10,950.0	-6,457.5	766.8	6,502.6	0.01	0.00	0.01	
18,100.0	90.00	179.58	10,950.0	-6,557.5	767.5	6,602.1	0.01	0.00	0.01	
18,200.0	90.00	179.59	10,950.0	-6,657.5	768.2	6,701.6	0.01	0.00	0.01	
18,300.0	90.00	179.60	10,950.0	-6,757.5	768.9	6,801.0	0.01	0.00	0.01	
18,400.0	90.00	179.60	10,950.0	-6,857.5	769.6	6,900.5	0.01	0.00	0.01	
18,500.0	90.00	179.61	10,950.0	-6,957.5	770.3	7,000.0	0.01	0.00	0.01	
18,598.5	90.00	179.61	10,950.0	-7,056.0	771.0	7,098.0	0.01	0.00	0.01	
PBHL(Jup 19 FC #502H)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
KOP(Jup 19 FC #502H) - plan hits target center - Point	0.00	0.00	10,472.5	710.0	711.0	441,166.00	795,178.00	32° 12' 36.641 N	103° 30' 45.345 W	
FTP(Jup 19 FC #502H) - plan hits target center - Point	0.00	0.00	10,685.2	660.0	711.0	441,116.00	795,178.00	32° 12' 36.146 N	103° 30' 45.350 W	
PBHL(Jup 19 FC #502H) - plan hits target center - Point	0.00	0.01	10,950.0	-7,056.0	771.0	433,400.00	795,238.00	32° 11' 19.791 N	103° 30' 45.337 W	
FEDPP(Jup 19 FC #502) - plan hits target center - Point	0.00	0.01	10,950.0	-5,837.0	762.0	434,619.00	795,229.00	32° 11' 31.854 N	103° 30' 45.333 W	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 20949

CONDITIONS OF APPROVAL

Operator:	EOG RESOURCES INC	P.O. Box 2267	Midland, TX79702	OGRID:	7377	Action Number:	20949	Action Type:	C-103A
OCD Reviewer									Condition
pkautz									None