

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.	
6. If Indian, Allottee or Tribe Name	
7. If Unit of CA/Agreement, Name and/or No.	
8. Well Name and No.	
9. API Well No.	
10. Field and Pool or Exploratory Area	
11. Country or Parish, State	

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well ☐ Oil Well ☐ Gas Well ☐ Other	
2. Name of Operator	
3a. Address	3b. Phone No. (include area code)
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)	

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	Title
Signature	Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice 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.	Office	

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law 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, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. 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 the 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., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

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

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

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 Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

EOG requests execution of Variance 3a (attached) to offline cement the intermediate sections.

Location of Well

0. SHL: NENW / 1254 FNL / 2192 FWL / TWSP: 26S / RANGE: 31E / SECTION: 32 / LAT: 32.002744 / LONG: -103.801845 (TVD: 0 feet, MD: 0 feet)

PPP: SENW / 0 FSL / 1650 FWL / TWSP: 26S / RANGE: 31E / SECTION: 32 / LAT: 32.006168 / LONG: -103.803596 (TVD: 11454 feet, MD: 13436 feet)

PPP: LOT 3 / 1852 FNL / 1650 FWL / TWSP: 26S / RANGE: 31E / SECTION: 32 / LAT: 32.001077 / LONG: -103.803591 (TVD: 11411 feet, MD: 11579 feet)

BHL: NENW / 230 FNL / 1650 FWL / TWSP: 26S / RANGE: 31E / SECTION: 29 / LAT: 32.020172 / LONG: -103.803613 (TVD: 11454 feet, MD: 18532 feet)

CONFIDENTIAL

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) 476-3460 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

API Number 30-015-50133	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 332916	Property Name RIPPLE 32 FED COM	Well Number 731H
OGRID No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 3104'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	32	26 S	31 E		1877	NORTH	1338	WEST	EDDY

Bottom 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
D	29	26 S	31 E		230	NORTH	715	WEST	EDDY
Dedicated Acres 902	Joint or Infill	Consolidated Code	Order No.						

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.

BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1983 X = 704575' Y = 371476' LAT. = N 32.020173° LON. = W 103.806630° NAD 1927 X = 663388' Y = 371418' LAT. = N 32.020047° LONG. = W 103.806155° LOWER MOST PERF. NEW MEXICO EAST NAD 1983 X = 704575' Y = 371376' LAT. = N 32.019898° LON. = W 103.806630° NAD 1927 X = 663388' Y = 371318' LAT. = N 32.019772° LONG. = W 103.806155° FED PERF. POINT NEW MEXICO EAST NAD 1983 X = 704605' Y = 366381' LAT. = N 32.006169° LON. = W 103.806612° NAD 1927 X = 663418' Y = 366324' LAT. = N 32.006043° LONG. = W 103.806138° SURFACE LOCATION NEW MEXICO EAST NAD 1983 X = 705238' Y = 364507' LAT. = N 32.001007° LON. = W 103.804598° NAD 1927 X = 664051' Y = 364450' LAT. = N 32.000882° LONG. = W 103.804124° UPPER MOST PERF. NEW MEXICO EAST NAD 1983 X = 704615' Y = 364528' LAT. = N 32.001075° LON. = W 103.806607° NAD 1927 X = 663429' Y = 364471' LAT. = N 32.000949° LONG. = W 103.806133°	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Star L Harrell</i> 11/14/2022 Signature Date Star L Harrell Print Name star_harrell@eogresources.com E-mail Address SURVEYORS CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. May 4, 2020 Date of Survey Signature and Seal of Professional Surveyor BRANDON MOSER 22502 10/28/2022 PROFESSIONAL SURVEYOR Job No.: EOG.190025 BRANDON MOSER, N.M.P.L.S. Certificate Number 22502
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Ripple 32 Fed Com 731H

Revised Permit Information 10/24/2022:

Well Name: Ripple 32 Fed Com 731H

Location: SHL: 1877' FNL & 1338' FWL, Section 32, T-26-S, R-31-E, Eddy Co., N.M.

BHL: 230' FNL & 715' FWL, Section 29, T-36-S, R-31-E, Eddy Co., N.M.

Casing Program:

Hole Size	Interval MD		Interval TVD		Csg OD	Weight	Grade	Conn
	From (ft)	To (ft)	From (ft)	To (ft)				
12-1/4"	0	1,060	0	1,060	9-5/8"	36#	J-55	LTC
8-3/4"	0	10,025	0	10,000	7-5/8"	29.7#	HCP-110	FXL
6-3/4"	0	9,525	0	9,500	5-1/2"	20#	P110-EC	DWC/C IS MS
6-3/4"	9,525	10,025	9,500	10,000	5-1/2"	20#	P110-EC	Vam Sprint SF
6-3/4"	10,025	18,509	10,000	11,432	5-1/2"	20#	P110-EC	DWC/C IS 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.

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,060' 9-5/8"	300	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 0.25 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 @ 860')
10,000' 7-5/8"	440	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 6,270')
	1070	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
18,509' 5-1/2"	780	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 9,500')



Ripple 32 Fed Com 731H

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 variance from minimum standards 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 (6,467') and the second stage performed as a 1000 sack bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 70 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. 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.

Mud Program:

Measured Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,060'	Fresh - Gel	8.6-8.8	28-34	N/c
1,060' – 10,000'	Brine	10.0-10.2	28-34	N/c
10,000' – 10,979'	Oil Base	8.7-9.4	58-68	N/c - 6
10,979' – 18,509' Lateral	Oil Base	10.0-14.0	58-68	4 - 6



Ripple 32 Fed Com 731H

Wellhead & Offline Cementing:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement operations to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 21 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.
- See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure"



Ripple 32 Fed Com 731H

1877' FNL
1338' FWL
Section 32
T-26-S, R-31-E

Revised Wellbore

KB: 3129'
GL: 3104'

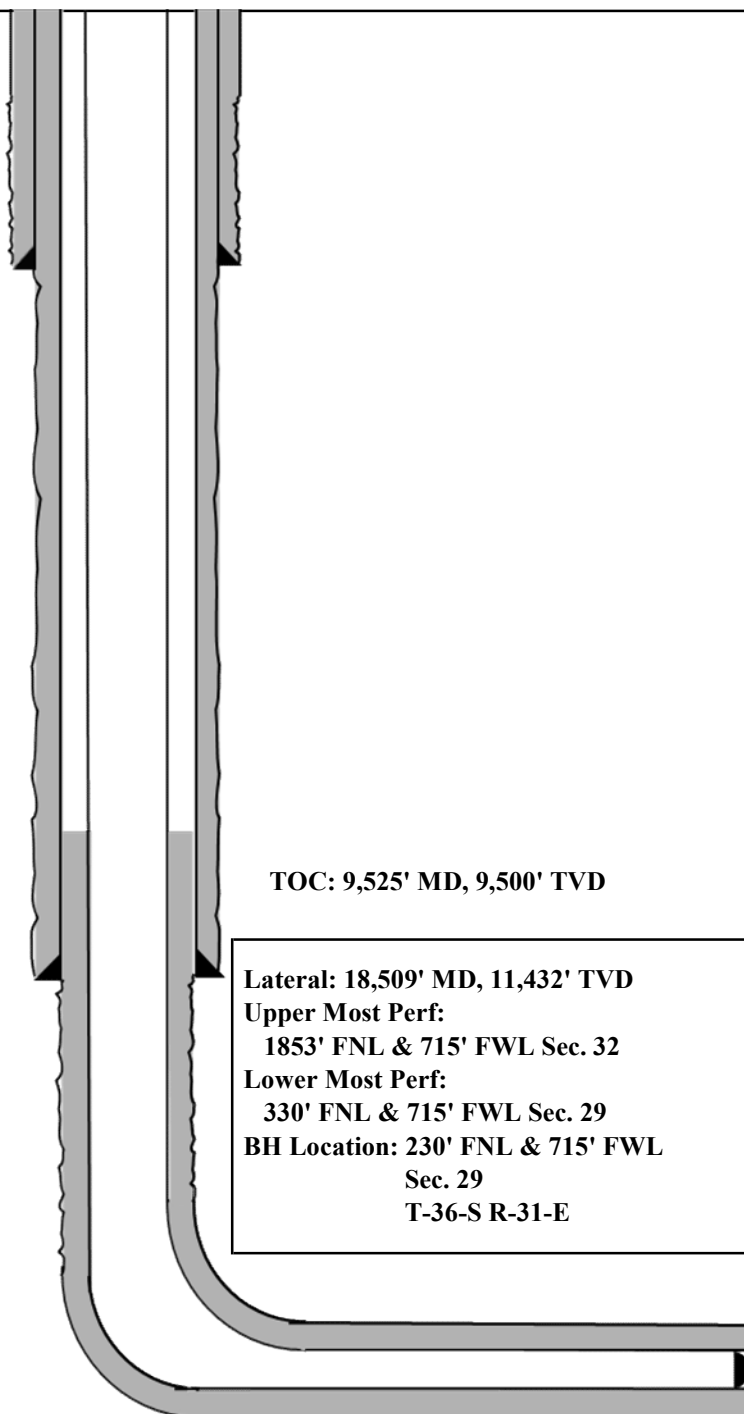
API: 30-015-50133

Bit Size: 12-1/4"
9-5/8", 36#, J-55, LTC,
@ 0' - 1,060'

Bit Size: 8-3/4"
7-5/8", 29.7#, HCP-110, FXL,
@ 0' - 10,025'

Bit Size: 6-3/4"
5-1/2", 20#, P110-EC, DWC/C IS MS,
@ 0' - 9,525'
5-1/2", 20#, P110-EC, Vam Sprint SF,
@ 9,525' - 10,025'
5-1/2", 20#, P110-EC, DWC/C IS MS,
@ 10,025' - 18,509'

KOP: 10,979' MD, 10,954' TVD
EOC: 11,729' MD, 11,432' TVD





Ripple 32 Fed Com 731H

Design B**4. CASING PROGRAM**

Hole Size	Interval MD		Interval TVD		Csg OD	Weight	Grade	Conn
	From (ft)	To (ft)	From (ft)	To (ft)				
13"	0	1,060	0	1,060	10-3/4"	40.5#	J-55	STC
9-7/8"	0	10,025	0	10,000	8-3/4"	38.5#	P110-EC	SLIJ II NA
7-7/8"	0	18,509	0	11,432	6"	22.3#	P110-EC	DWC/C IS

Variance is requested to waive the centralizer requirements for the 8-3/4" casing in the 9-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 9-7/8" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive any centralizer requirements for the 6" casing in the 7-7/8" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 7-7/8" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive the annular clearance requirements for the 6" casing by 8-3/4" 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.

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,060' 10-3/4"	280	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	70	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 860')
10,000' 8-3/4"	500	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 6,270')
	1220	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
18,509' 6"	1270	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 9,500')



Ripple 32 Fed Com 731H

EOG requests variance from minimum standards to pump a two stage cement job on the 8-3/4" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (6,467') and the second stage performed as a 1000 sack bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 219 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. 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.

Wellhead & Offline Cementing:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) along with Batch Drilling & Offline cement operations to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 21 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and option to offline cement and/or remediate (if needed) any surface or intermediate sections, according to attached offline cementing support documentation.
- After the well section is secured, the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad.
- TA cap will also be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.
- See attached "EOG BLM Variance 3a -Offline Cement Intermediate Operational Procedure"



Ripple 32 Fed Com 731H

1877' FNL
1338' FWL
Section 32
T-26-S, R-31-E

Proposed Wellbore

KB: 3129'
GL: 3104'

API: 30-015-50133

Bit Size: 13"
10-3/4", 40.5#, J-55, STC,
@ 0' - 1,060'

Bit Size: 9-7/8"
8-3/4" 38.5#, P110-EC, SLIJ II NA,
@ 0' - 10,025'

Bit Size: 7-7/8"
6", 22.3#, P110-EC, DWC/C IS,
@ 0' - 18,509'

TOC: 9,525' MD, 9,500' TVD

Lateral: 18,509' MD, 11,432' TVD
Upper Most Perf:
1853' FNL & 715' FWL Sec. 32
Lower Most Perf:
330' FNL & 715' FWL Sec. 29
BH Location: 230' FNL & 715' FWL
Sec. 29
T-36-S R-31-E

KOP: 10,979' MD, 10,954' TVD
EOC: 11,729' MD, 11,432' TVD



Midland

Eddy County, NM (NAD 83 NME)

Ripple 32 Fed Com

#731H

OH

Plan: Plan #0.2

Standard Planning Report

14 November, 2022



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #731H
Company:	Midland	TVD Reference:	KB @ 3129.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB @ 3129.0usft
Site:	Ripple 32 Fed Com	North Reference:	Grid
Well:	#731H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Project	Eddy 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	Ripple 32 Fed Com				
Site Position:		Northing:	365,131.00 usft	Latitude:	32° 0' 9.625 N
From:	Map	Easting:	708,897.00 usft	Longitude:	103° 47' 34.029 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "		

Well	#731H					
Well Position	+N/-S	0.0 usft	Northing:	364,507.00 usft	Latitude:	32° 0' 3.629 N
	+E/-W	0.0 usft	Easting:	705,238.00 usft	Longitude:	103° 48' 16.557 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,104.0 usft
Grid Convergence:		0.28 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	7/8/2020	6.75	59.69	47,437.78874785

Design	Plan #0.2				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	-22.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	354.57	

Plan Survey Tool Program	Date	11/14/2022			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	-22.0	18,509.3 Plan #0.2 (OH)	EOG MWD+IFR1		
			MWD + IFR1		



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #731H
Company:	Midland	TVD Reference:	KB @ 3129.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB @ 3129.0usft
Site:	Ripple 32 Fed Com	North Reference:	Grid
Well:	#731H	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	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,407.3	4.15	244.21	1,407.1	-3.3	-6.7	2.00	2.00	0.00	244.21	
10,772.1	4.15	244.21	10,747.4	-297.7	-616.3	0.00	0.00	0.00	0.00	
10,979.4	0.00	0.00	10,954.5	-301.0	-623.0	2.00	-2.00	0.00	180.00	KOP(Ripple 32 Fed C
11,558.9	73.05	0.00	11,389.3	21.0	-623.0	12.60	12.60	0.00	0.00	FTP(Ripple 32 Fed C
11,694.1	89.27	359.68	11,410.0	154.2	-623.4	12.00	12.00	-0.24	-1.15	
13,414.1	89.27	359.68	11,432.0	1,874.0	-633.0	0.00	0.00	0.00	0.00	Fed Perf 1(Ripple 32 I
18,509.3	90.73	359.65	11,432.0	6,969.0	-663.0	0.03	0.03	0.00	-1.32	PBHL(Ripple 32 Fed I



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #731H
Company:	Midland	TVD Reference:	KB @ 3129.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB @ 3129.0usft
Site:	Ripple 32 Fed Com	North Reference:	Grid
Well:	#731H	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	2.00	244.21	1,300.0	-0.8	-1.6	-0.6	2.00	2.00	0.00
1,407.3	4.15	244.21	1,407.1	-3.3	-6.7	-2.6	2.00	2.00	0.00
1,500.0	4.15	244.21	1,499.6	-6.2	-12.8	-4.9	0.00	0.00	0.00
1,600.0	4.15	244.21	1,599.3	-9.3	-19.3	-7.5	0.00	0.00	0.00
1,700.0	4.15	244.21	1,699.1	-12.5	-25.8	-10.0	0.00	0.00	0.00
1,800.0	4.15	244.21	1,798.8	-15.6	-32.3	-12.5	0.00	0.00	0.00
1,900.0	4.15	244.21	1,898.5	-18.8	-38.8	-15.0	0.00	0.00	0.00
2,000.0	4.15	244.21	1,998.3	-21.9	-45.3	-17.5	0.00	0.00	0.00
2,100.0	4.15	244.21	2,098.0	-25.0	-51.8	-20.0	0.00	0.00	0.00
2,200.0	4.15	244.21	2,197.7	-28.2	-58.3	-22.5	0.00	0.00	0.00
2,300.0	4.15	244.21	2,297.5	-31.3	-64.9	-25.0	0.00	0.00	0.00
2,400.0	4.15	244.21	2,397.2	-34.5	-71.4	-27.6	0.00	0.00	0.00
2,500.0	4.15	244.21	2,497.0	-37.6	-77.9	-30.1	0.00	0.00	0.00
2,600.0	4.15	244.21	2,596.7	-40.8	-84.4	-32.6	0.00	0.00	0.00
2,700.0	4.15	244.21	2,696.4	-43.9	-90.9	-35.1	0.00	0.00	0.00
2,800.0	4.15	244.21	2,796.2	-47.1	-97.4	-37.6	0.00	0.00	0.00
2,900.0	4.15	244.21	2,895.9	-50.2	-103.9	-40.1	0.00	0.00	0.00
3,000.0	4.15	244.21	2,995.7	-53.3	-110.4	-42.6	0.00	0.00	0.00
3,100.0	4.15	244.21	3,095.4	-56.5	-116.9	-45.2	0.00	0.00	0.00
3,200.0	4.15	244.21	3,195.1	-59.6	-123.4	-47.7	0.00	0.00	0.00
3,300.0	4.15	244.21	3,294.9	-62.8	-129.9	-50.2	0.00	0.00	0.00
3,400.0	4.15	244.21	3,394.6	-65.9	-136.4	-52.7	0.00	0.00	0.00
3,500.0	4.15	244.21	3,494.3	-69.1	-143.0	-55.2	0.00	0.00	0.00
3,600.0	4.15	244.21	3,594.1	-72.2	-149.5	-57.7	0.00	0.00	0.00
3,700.0	4.15	244.21	3,693.8	-75.4	-156.0	-60.2	0.00	0.00	0.00
3,800.0	4.15	244.21	3,793.6	-78.5	-162.5	-62.8	0.00	0.00	0.00
3,900.0	4.15	244.21	3,893.3	-81.6	-169.0	-65.3	0.00	0.00	0.00
4,000.0	4.15	244.21	3,993.0	-84.8	-175.5	-67.8	0.00	0.00	0.00
4,100.0	4.15	244.21	4,092.8	-87.9	-182.0	-70.3	0.00	0.00	0.00
4,200.0	4.15	244.21	4,192.5	-91.1	-188.5	-72.8	0.00	0.00	0.00
4,300.0	4.15	244.21	4,292.3	-94.2	-195.0	-75.3	0.00	0.00	0.00
4,400.0	4.15	244.21	4,392.0	-97.4	-201.5	-77.8	0.00	0.00	0.00
4,500.0	4.15	244.21	4,491.7	-100.5	-208.0	-80.4	0.00	0.00	0.00
4,600.0	4.15	244.21	4,591.5	-103.7	-214.5	-82.9	0.00	0.00	0.00
4,700.0	4.15	244.21	4,691.2	-106.8	-221.1	-85.4	0.00	0.00	0.00
4,800.0	4.15	244.21	4,790.9	-109.9	-227.6	-87.9	0.00	0.00	0.00
4,900.0	4.15	244.21	4,890.7	-113.1	-234.1	-90.4	0.00	0.00	0.00
5,000.0	4.15	244.21	4,990.4	-116.2	-240.6	-92.9	0.00	0.00	0.00
5,100.0	4.15	244.21	5,090.2	-119.4	-247.1	-95.4	0.00	0.00	0.00
5,200.0	4.15	244.21	5,189.9	-122.5	-253.6	-98.0	0.00	0.00	0.00
5,300.0	4.15	244.21	5,289.6	-125.7	-260.1	-100.5	0.00	0.00	0.00



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #731H
Company:	Midland	TVD Reference:	KB @ 3129.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB @ 3129.0usft
Site:	Ripple 32 Fed Com	North Reference:	Grid
Well:	#731H	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)	
5,400.0	4.15	244.21	5,389.4	-128.8	-266.6	-103.0	0.00	0.00	0.00	
5,500.0	4.15	244.21	5,489.1	-132.0	-273.1	-105.5	0.00	0.00	0.00	
5,600.0	4.15	244.21	5,588.9	-135.1	-279.6	-108.0	0.00	0.00	0.00	
5,700.0	4.15	244.21	5,688.6	-138.2	-286.1	-110.5	0.00	0.00	0.00	
5,800.0	4.15	244.21	5,788.3	-141.4	-292.6	-113.0	0.00	0.00	0.00	
5,900.0	4.15	244.21	5,888.1	-144.5	-299.2	-115.6	0.00	0.00	0.00	
6,000.0	4.15	244.21	5,987.8	-147.7	-305.7	-118.1	0.00	0.00	0.00	
6,100.0	4.15	244.21	6,087.5	-150.8	-312.2	-120.6	0.00	0.00	0.00	
6,200.0	4.15	244.21	6,187.3	-154.0	-318.7	-123.1	0.00	0.00	0.00	
6,300.0	4.15	244.21	6,287.0	-157.1	-325.2	-125.6	0.00	0.00	0.00	
6,400.0	4.15	244.21	6,386.8	-160.3	-331.7	-128.1	0.00	0.00	0.00	
6,500.0	4.15	244.21	6,486.5	-163.4	-338.2	-130.6	0.00	0.00	0.00	
6,600.0	4.15	244.21	6,586.2	-166.5	-344.7	-133.2	0.00	0.00	0.00	
6,700.0	4.15	244.21	6,686.0	-169.7	-351.2	-135.7	0.00	0.00	0.00	
6,800.0	4.15	244.21	6,785.7	-172.8	-357.7	-138.2	0.00	0.00	0.00	
6,900.0	4.15	244.21	6,885.5	-176.0	-364.2	-140.7	0.00	0.00	0.00	
7,000.0	4.15	244.21	6,985.2	-179.1	-370.7	-143.2	0.00	0.00	0.00	
7,100.0	4.15	244.21	7,084.9	-182.3	-377.3	-145.7	0.00	0.00	0.00	
7,200.0	4.15	244.21	7,184.7	-185.4	-383.8	-148.2	0.00	0.00	0.00	
7,300.0	4.15	244.21	7,284.4	-188.6	-390.3	-150.7	0.00	0.00	0.00	
7,400.0	4.15	244.21	7,384.1	-191.7	-396.8	-153.3	0.00	0.00	0.00	
7,500.0	4.15	244.21	7,483.9	-194.8	-403.3	-155.8	0.00	0.00	0.00	
7,600.0	4.15	244.21	7,583.6	-198.0	-409.8	-158.3	0.00	0.00	0.00	
7,700.0	4.15	244.21	7,683.4	-201.1	-416.3	-160.8	0.00	0.00	0.00	
7,800.0	4.15	244.21	7,783.1	-204.3	-422.8	-163.3	0.00	0.00	0.00	
7,900.0	4.15	244.21	7,882.8	-207.4	-429.3	-165.8	0.00	0.00	0.00	
8,000.0	4.15	244.21	7,982.6	-210.6	-435.8	-168.3	0.00	0.00	0.00	
8,100.0	4.15	244.21	8,082.3	-213.7	-442.3	-170.9	0.00	0.00	0.00	
8,200.0	4.15	244.21	8,182.1	-216.9	-448.8	-173.4	0.00	0.00	0.00	
8,300.0	4.15	244.21	8,281.8	-220.0	-455.4	-175.9	0.00	0.00	0.00	
8,400.0	4.15	244.21	8,381.5	-223.1	-461.9	-178.4	0.00	0.00	0.00	
8,500.0	4.15	244.21	8,481.3	-226.3	-468.4	-180.9	0.00	0.00	0.00	
8,600.0	4.15	244.21	8,581.0	-229.4	-474.9	-183.4	0.00	0.00	0.00	
8,700.0	4.15	244.21	8,680.7	-232.6	-481.4	-185.9	0.00	0.00	0.00	
8,800.0	4.15	244.21	8,780.5	-235.7	-487.9	-188.5	0.00	0.00	0.00	
8,900.0	4.15	244.21	8,880.2	-238.9	-494.4	-191.0	0.00	0.00	0.00	
9,000.0	4.15	244.21	8,980.0	-242.0	-500.9	-193.5	0.00	0.00	0.00	
9,100.0	4.15	244.21	9,079.7	-245.2	-507.4	-196.0	0.00	0.00	0.00	
9,200.0	4.15	244.21	9,179.4	-248.3	-513.9	-198.5	0.00	0.00	0.00	
9,300.0	4.15	244.21	9,279.2	-251.4	-520.4	-201.0	0.00	0.00	0.00	
9,400.0	4.15	244.21	9,378.9	-254.6	-527.0	-203.5	0.00	0.00	0.00	
9,500.0	4.15	244.21	9,478.7	-257.7	-533.5	-206.1	0.00	0.00	0.00	
9,600.0	4.15	244.21	9,578.4	-260.9	-540.0	-208.6	0.00	0.00	0.00	
9,700.0	4.15	244.21	9,678.1	-264.0	-546.5	-211.1	0.00	0.00	0.00	
9,800.0	4.15	244.21	9,777.9	-267.2	-553.0	-213.6	0.00	0.00	0.00	
9,900.0	4.15	244.21	9,877.6	-270.3	-559.5	-216.1	0.00	0.00	0.00	
10,000.0	4.15	244.21	9,977.3	-273.5	-566.0	-218.6	0.00	0.00	0.00	
10,100.0	4.15	244.21	10,077.1	-276.6	-572.5	-221.1	0.00	0.00	0.00	
10,200.0	4.15	244.21	10,176.8	-279.8	-579.0	-223.7	0.00	0.00	0.00	
10,300.0	4.15	244.21	10,276.6	-282.9	-585.5	-226.2	0.00	0.00	0.00	
10,400.0	4.15	244.21	10,376.3	-286.0	-592.0	-228.7	0.00	0.00	0.00	
10,500.0	4.15	244.21	10,476.0	-289.2	-598.5	-231.2	0.00	0.00	0.00	
10,600.0	4.15	244.21	10,575.8	-292.3	-605.1	-233.7	0.00	0.00	0.00	
10,700.0	4.15	244.21	10,675.5	-295.5	-611.6	-236.2	0.00	0.00	0.00	



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #731H
Company:	Midland	TVD Reference:	KB @ 3129.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB @ 3129.0usft
Site:	Ripple 32 Fed Com	North Reference:	Grid
Well:	#731H	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)
10,772.1	4.15	244.21	10,747.4	-297.7	-616.3	-238.0	0.00	0.00	0.00
10,800.0	3.59	244.21	10,775.3	-298.6	-617.9	-238.7	2.00	-2.00	0.00
10,900.0	1.59	244.21	10,875.2	-300.5	-622.0	-240.3	2.00	-2.00	0.00
10,979.4	0.00	0.00	10,954.5	-301.0	-623.0	-240.6	2.00	-2.00	0.00
11,000.0	2.60	0.00	10,975.1	-300.5	-623.0	-240.2	12.60	12.60	0.00
11,025.0	5.75	0.00	11,000.1	-298.7	-623.0	-238.4	12.60	12.60	0.00
11,050.0	8.90	0.00	11,024.9	-295.5	-623.0	-235.2	12.60	12.60	0.00
11,075.0	12.06	0.00	11,049.4	-291.0	-623.0	-230.7	12.60	12.60	0.00
11,100.0	15.21	0.00	11,073.7	-285.1	-623.0	-224.8	12.60	12.60	0.00
11,125.0	18.36	0.00	11,097.7	-277.9	-623.0	-217.6	12.60	12.60	0.00
11,150.0	21.51	0.00	11,121.2	-269.3	-623.0	-209.1	12.60	12.60	0.00
11,175.0	24.66	0.00	11,144.2	-259.5	-623.0	-199.4	12.60	12.60	0.00
11,200.0	27.81	0.00	11,166.6	-248.5	-623.0	-188.4	12.60	12.60	0.00
11,225.0	30.96	0.00	11,188.4	-236.2	-623.0	-176.2	12.60	12.60	0.00
11,250.0	34.11	0.00	11,209.4	-222.8	-623.0	-162.8	12.60	12.60	0.00
11,275.0	37.26	0.00	11,229.7	-208.2	-623.0	-148.3	12.60	12.60	0.00
11,300.0	40.42	0.00	11,249.2	-192.5	-623.0	-132.7	12.60	12.60	0.00
11,325.0	43.57	0.00	11,267.8	-175.8	-623.0	-116.0	12.60	12.60	0.00
11,350.0	46.72	0.00	11,285.4	-158.1	-623.0	-98.4	12.60	12.60	0.00
11,375.0	49.87	0.00	11,302.0	-139.4	-623.0	-79.8	12.60	12.60	0.00
11,400.0	53.02	0.00	11,317.6	-119.9	-623.0	-60.3	12.60	12.60	0.00
11,425.0	56.17	0.00	11,332.1	-99.5	-623.0	-40.0	12.60	12.60	0.00
11,450.0	59.32	0.00	11,345.4	-78.4	-623.0	-19.0	12.60	12.60	0.00
11,475.0	62.47	0.00	11,357.6	-56.5	-623.0	2.7	12.60	12.60	0.00
11,500.0	65.63	0.00	11,368.5	-34.0	-623.0	25.1	12.60	12.60	0.00
11,525.0	68.78	0.00	11,378.2	-11.0	-623.0	48.1	12.60	12.60	0.00
11,550.0	71.93	0.00	11,386.6	12.5	-623.0	71.5	12.60	12.60	0.00
11,558.9	73.05	0.00	11,389.3	21.0	-623.0	79.9	12.60	12.60	0.00
11,575.0	74.98	359.96	11,393.7	36.5	-623.0	95.4	12.00	12.00	-0.25
11,600.0	77.98	359.90	11,399.6	60.8	-623.0	119.5	12.00	12.00	-0.24
11,625.0	80.98	359.84	11,404.2	85.4	-623.1	144.0	12.00	12.00	-0.24
11,650.0	83.98	359.78	11,407.4	110.2	-623.2	168.7	12.00	12.00	-0.23
11,675.0	86.98	359.72	11,409.4	135.1	-623.3	193.5	12.00	12.00	-0.23
11,694.1	89.27	359.68	11,410.0	154.2	-623.4	212.5	12.00	12.00	-0.23
11,700.0	89.27	359.68	11,410.1	160.1	-623.4	218.4	0.00	0.00	0.00
11,800.0	89.27	359.68	11,411.4	260.1	-624.0	318.0	0.00	0.00	0.00
11,900.0	89.27	359.68	11,412.6	360.1	-624.5	417.6	0.00	0.00	0.00
12,000.0	89.27	359.68	11,413.9	460.1	-625.1	517.2	0.00	0.00	0.00
12,100.0	89.27	359.68	11,415.2	560.0	-625.7	616.8	0.00	0.00	0.00
12,200.0	89.27	359.68	11,416.5	660.0	-626.2	716.4	0.00	0.00	0.00
12,300.0	89.27	359.68	11,417.8	760.0	-626.8	816.0	0.00	0.00	0.00
12,400.0	89.27	359.68	11,419.0	860.0	-627.3	915.6	0.00	0.00	0.00
12,500.0	89.27	359.68	11,420.3	960.0	-627.9	1,015.2	0.00	0.00	0.00
12,600.0	89.27	359.68	11,421.6	1,060.0	-628.4	1,114.7	0.00	0.00	0.00
12,700.0	89.27	359.68	11,422.9	1,160.0	-629.0	1,214.3	0.00	0.00	0.00
12,800.0	89.27	359.68	11,424.2	1,260.0	-629.6	1,313.9	0.00	0.00	0.00
12,900.0	89.27	359.68	11,425.4	1,360.0	-630.1	1,413.5	0.00	0.00	0.00
13,000.0	89.27	359.68	11,426.7	1,460.0	-630.7	1,513.1	0.00	0.00	0.00
13,100.0	89.27	359.68	11,428.0	1,559.9	-631.2	1,612.7	0.00	0.00	0.00
13,200.0	89.27	359.68	11,429.3	1,659.9	-631.8	1,712.3	0.00	0.00	0.00
13,300.0	89.27	359.68	11,430.5	1,759.9	-632.4	1,811.9	0.00	0.00	0.00
13,400.0	89.27	359.68	11,431.8	1,859.9	-632.9	1,911.5	0.00	0.00	0.00
13,414.1	89.27	359.68	11,432.0	1,874.0	-633.0	1,925.5	0.00	0.00	0.00
13,500.0	89.29	359.68	11,433.1	1,959.9	-633.5	2,011.1	0.03	0.03	0.00



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #731H
Company:	Midland	TVD Reference:	KB @ 3129.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB @ 3129.0usft
Site:	Ripple 32 Fed Com	North Reference:	Grid
Well:	#731H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

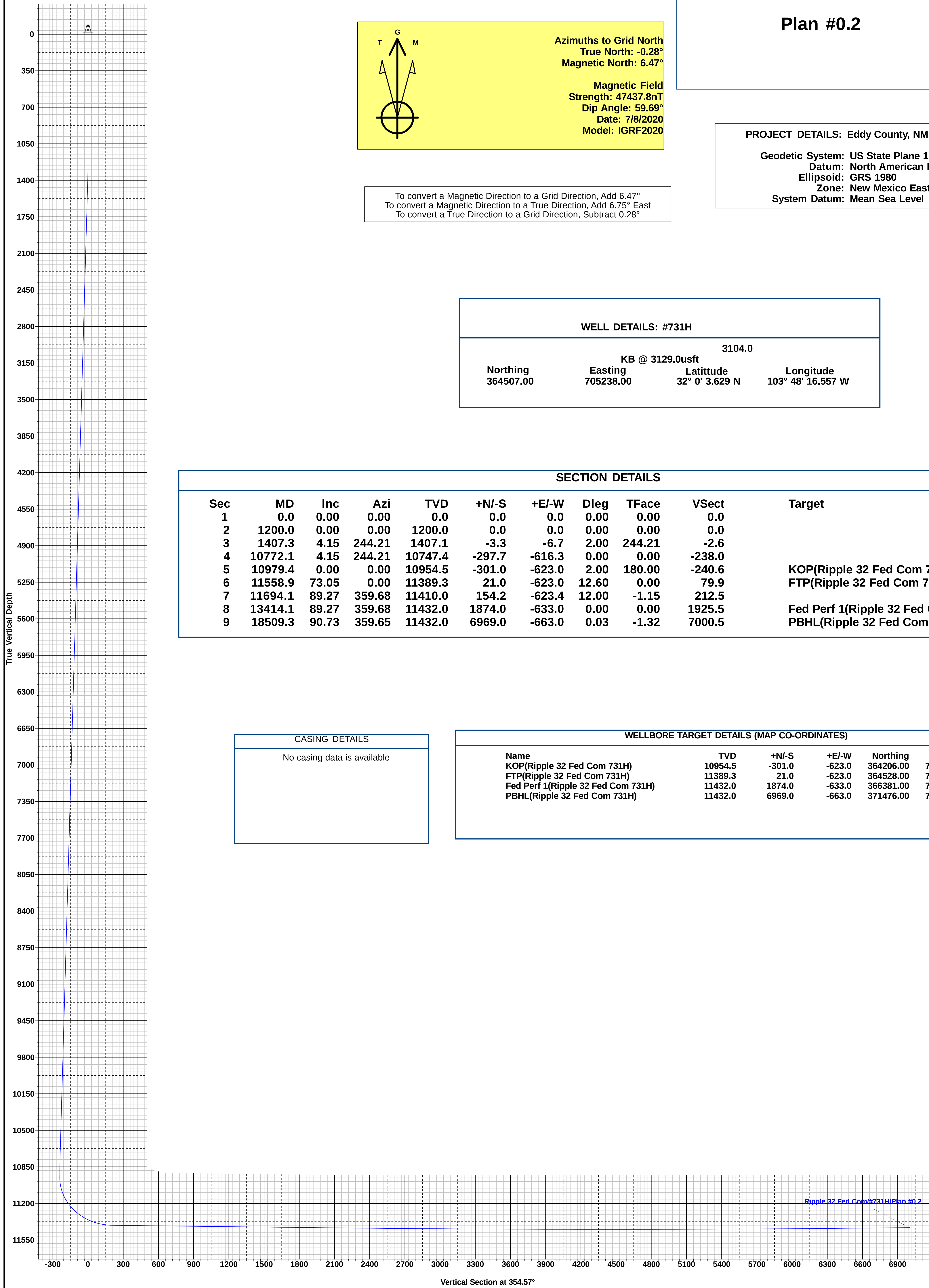
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,600.0	89.32	359.68	11,434.3	2,059.9	-634.0	2,110.7	0.03	0.03	0.00	
13,700.0	89.35	359.68	11,435.4	2,159.9	-634.6	2,210.3	0.03	0.03	0.00	
13,800.0	89.38	359.68	11,436.6	2,259.9	-635.2	2,309.9	0.03	0.03	0.00	
13,900.0	89.41	359.68	11,437.6	2,359.9	-635.7	2,409.5	0.03	0.03	0.00	
14,000.0	89.44	359.68	11,438.6	2,459.9	-636.3	2,509.1	0.03	0.03	0.00	
14,100.0	89.46	359.67	11,439.6	2,559.9	-636.9	2,608.7	0.03	0.03	0.00	
14,200.0	89.49	359.67	11,440.5	2,659.9	-637.4	2,708.3	0.03	0.03	0.00	
14,300.0	89.52	359.67	11,441.4	2,759.9	-638.0	2,807.9	0.03	0.03	0.00	
14,400.0	89.55	359.67	11,442.2	2,859.8	-638.6	2,907.5	0.03	0.03	0.00	
14,500.0	89.58	359.67	11,442.9	2,959.8	-639.1	3,007.1	0.03	0.03	0.00	
14,600.0	89.61	359.67	11,443.6	3,059.8	-639.7	3,106.7	0.03	0.03	0.00	
14,700.0	89.64	359.67	11,444.3	3,159.8	-640.3	3,206.3	0.03	0.03	0.00	
14,800.0	89.67	359.67	11,444.9	3,259.8	-640.9	3,305.9	0.03	0.03	0.00	
14,900.0	89.69	359.67	11,445.5	3,359.8	-641.4	3,405.5	0.03	0.03	0.00	
15,000.0	89.72	359.67	11,446.0	3,459.8	-642.0	3,505.1	0.03	0.03	0.00	
15,100.0	89.75	359.67	11,446.4	3,559.8	-642.6	3,604.7	0.03	0.03	0.00	
15,200.0	89.78	359.67	11,446.8	3,659.8	-643.2	3,704.3	0.03	0.03	0.00	
15,300.0	89.81	359.67	11,447.2	3,759.8	-643.8	3,803.9	0.03	0.03	0.00	
15,400.0	89.84	359.67	11,447.5	3,859.8	-644.3	3,903.5	0.03	0.03	0.00	
15,500.0	89.87	359.67	11,447.7	3,959.8	-644.9	4,003.1	0.03	0.03	0.00	
15,600.0	89.90	359.67	11,448.0	4,059.8	-645.5	4,102.7	0.03	0.03	0.00	
15,700.0	89.92	359.66	11,448.1	4,159.8	-646.1	4,202.3	0.03	0.03	0.00	
15,800.0	89.95	359.66	11,448.2	4,259.8	-646.7	4,301.9	0.03	0.03	0.00	
15,900.0	89.98	359.66	11,448.3	4,359.8	-647.3	4,401.5	0.03	0.03	0.00	
16,000.0	90.01	359.66	11,448.3	4,459.8	-647.8	4,501.1	0.03	0.03	0.00	
16,100.0	90.04	359.66	11,448.2	4,559.8	-648.4	4,600.7	0.03	0.03	0.00	
16,200.0	90.07	359.66	11,448.1	4,659.8	-649.0	4,700.3	0.03	0.03	0.00	
16,300.0	90.10	359.66	11,448.0	4,759.8	-649.6	4,799.9	0.03	0.03	0.00	
16,400.0	90.13	359.66	11,447.8	4,859.8	-650.2	4,899.5	0.03	0.03	0.00	
16,500.0	90.15	359.66	11,447.6	4,959.8	-650.8	4,999.1	0.03	0.03	0.00	
16,600.0	90.18	359.66	11,447.3	5,059.8	-651.4	5,098.7	0.03	0.03	0.00	
16,700.0	90.21	359.66	11,446.9	5,159.8	-652.0	5,198.3	0.03	0.03	0.00	
16,800.0	90.24	359.66	11,446.5	5,259.8	-652.6	5,298.0	0.03	0.03	0.00	
16,900.0	90.27	359.66	11,446.1	5,359.8	-653.2	5,397.6	0.03	0.03	0.00	
17,000.0	90.30	359.66	11,445.6	5,459.8	-653.8	5,497.2	0.03	0.03	0.00	
17,100.0	90.33	359.66	11,445.0	5,559.8	-654.4	5,596.8	0.03	0.03	0.00	
17,200.0	90.36	359.65	11,444.4	5,659.8	-655.0	5,696.4	0.03	0.03	0.00	
17,300.0	90.38	359.65	11,443.8	5,759.8	-655.6	5,796.0	0.03	0.03	0.00	
17,400.0	90.41	359.65	11,443.1	5,859.8	-656.2	5,895.6	0.03	0.03	0.00	
17,500.0	90.44	359.65	11,442.3	5,959.8	-656.8	5,995.2	0.03	0.03	0.00	
17,600.0	90.47	359.65	11,441.5	6,059.8	-657.4	6,094.8	0.03	0.03	0.00	
17,700.0	90.50	359.65	11,440.7	6,159.8	-658.0	6,194.4	0.03	0.03	0.00	
17,800.0	90.53	359.65	11,439.8	6,259.7	-658.6	6,294.0	0.03	0.03	0.00	
17,900.0	90.56	359.65	11,438.9	6,359.7	-659.3	6,393.6	0.03	0.03	0.00	
18,000.0	90.59	359.65	11,437.9	6,459.7	-659.9	6,493.2	0.03	0.03	0.00	
18,100.0	90.61	359.65	11,436.8	6,559.7	-660.5	6,592.8	0.03	0.03	0.00	
18,200.0	90.64	359.65	11,435.7	6,659.7	-661.1	6,692.4	0.03	0.03	0.00	
18,300.0	90.67	359.65	11,434.6	6,759.7	-661.7	6,792.0	0.03	0.03	0.00	
18,400.0	90.70	359.65	11,433.4	6,859.7	-662.3	6,891.6	0.03	0.03	0.00	
18,509.3	90.73	359.65	11,432.0	6,969.0	-663.0	7,000.5	0.03	0.03	0.00	



Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well #731H
Company:	Midland	TVD Reference:	KB @ 3129.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB @ 3129.0usft
Site:	Ripple 32 Fed Com	North Reference:	Grid
Well:	#731H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
KOP(Ripple 32 Fed Com - plan hits target center - Point	0.00	0.00	10,954.5	-301.0	-623.0	364,206.00	704,615.00	32° 0' 0.680 N	103° 48' 23.809 W
FTP(Ripple 32 Fed Com - plan hits target center - Point	0.00	0.00	11,389.3	21.0	-623.0	364,528.00	704,615.00	32° 0' 3.867 N	103° 48' 23.791 W
Fed Perf 1(Ripple 32 Fed Com - plan hits target center - Point	0.00	0.00	11,432.0	1,874.0	-633.0	366,381.00	704,605.00	32° 0' 22.205 N	103° 48' 23.802 W
PBHL(Ripple 32 Fed Com - plan hits target center - Point	0.00	0.00	11,432.0	6,969.0	-663.0	371,476.00	704,575.00	32° 1' 12.626 N	103° 48' 23.862 W



To convert a Magnetic Direction to a Grid Direction, Add 6.47°
To convert a Magnetic Direction to a True Direction, Add 6.75° East
To convert a True Direction to a Grid Direction, Subtract 0.28°

Eddy County, NM (NAD 83 NME)

Ripple 32 Fed Com #731H

Plan #0.2

PROJECT DETAILS: Eddy 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: #731H

KB @ 3129.0usft 3104.0

Northing	Easting	Latitude	Longitude
364507.00	705238.00	32° 0' 3.629 N	103° 48' 16.557 W

SECTION DETAILS

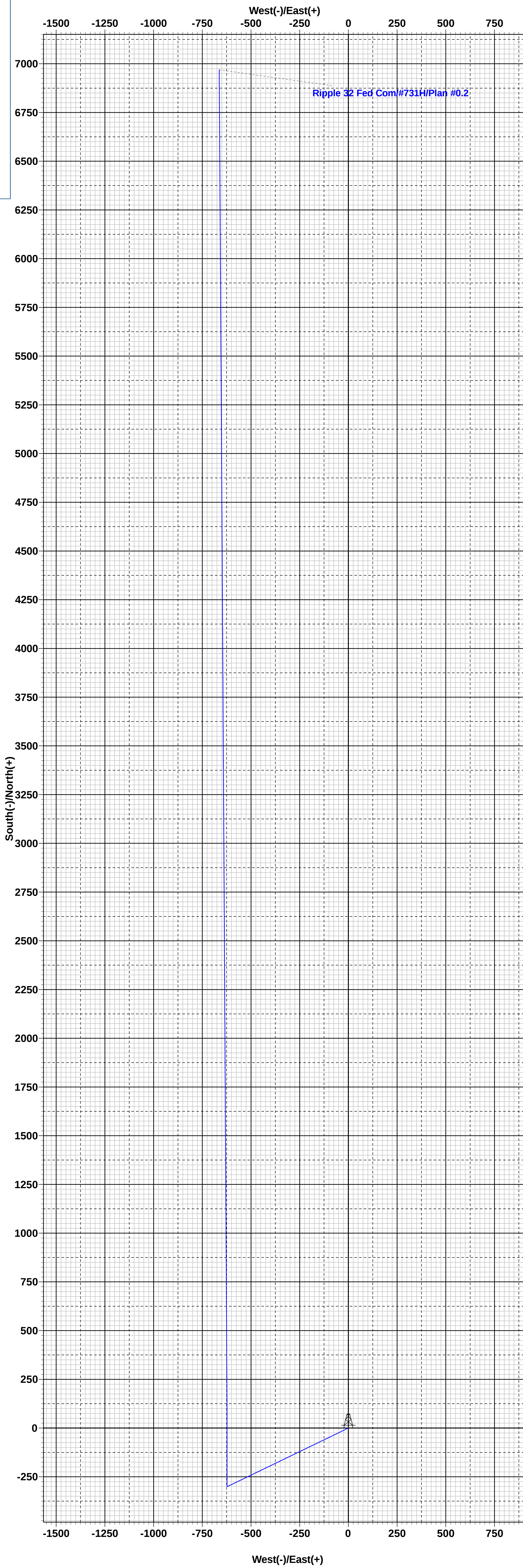
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1407.3	4.15	244.21	1407.1	-3.3	-6.7	2.00	244.21	-2.6	
4	10772.1	4.15	244.21	10747.4	-297.7	-616.3	0.00	0.00	-238.0	
5	10979.4	0.00	0.00	10954.5	-301.0	-623.0	2.00	180.00	-240.6	KOP(Ripple 32 Fed Com 731H)
6	11558.9	73.05	0.00	11389.3	21.0	-623.0	12.60	0.00	79.9	FTP(Ripple 32 Fed Com 731H)
7	11694.1	89.27	359.68	11410.0	154.2	-623.4	12.00	-1.15	212.5	
8	13414.1	89.27	359.68	11432.0	1874.0	-633.0	0.00	0.00	1925.5	Fed Perf 1(Ripple 32 Fed Com 731H)
9	18509.3	90.73	359.65	11432.0	6969.0	-663.0	0.03	-1.32	7000.5	PBHL(Ripple 32 Fed Com 731H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Ripple 32 Fed Com 731H)	10954.5	-301.0	-623.0	364206.00	704615.00
FTP(Ripple 32 Fed Com 731H)	11389.3	21.0	-623.0	364528.00	704615.00
Fed Perf 1(Ripple 32 Fed Com 731H)	11432.0	1874.0	-633.0	366381.00	704605.00
PBHL(Ripple 32 Fed Com 731H)	11432.0	6969.0	-663.0	371476.00	704575.00



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 178853

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 178853
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	• NSP Will require administrative order for non-standard spacing unit	1/25/2023
kpickford	Adhere to previous NMOCD Conditions of Approval	1/25/2023