Received by OCD: 2/9/2021 2:56:43 PM

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

02/09/2021

Well Name: VACA 24 FED COM

Well Location: T25S / R33E / SEC 24 / SESW / 32.110631 / -103.5276794

County or Parish/State: LEA / NM

Well Number: 705H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM108504

Unit or CA Name:

Unit or CA Number:

US Well Number: 300254696400X1

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: 02/09/2021

Time Sundry Submitted: 12:19

Date proposed operation will begin: 02/08/2021

Procedure Description: EOG respectfully requests an amendment to our approved APD for this well to reflect the following changes: Change BHL to T-25-S R-33-E Sec 13 100 feet FNL 2310 feet FEL Lea Co, NM Increase HSU to 640 acres

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

VACA_24_FED_COM_705H_C102_SIGNED_20210209121856.pdf

Vaca_24_Fed_Com_705H_Permit_Info___Revised_HSU__BHL_1.5.2020_20210209121855.pdf

Vaca_24_Fed_Com_705H_Planning_Report_20210209121855.pdf

Vaca_24_Fed_Com_705H_Wall_Plot_20210209121855.pdf

Released to Imaging: 2/14/2021 4:44:07 PM

Well Name: VACA 24 FED COM

Well Location: T25S / R33E / SEC 24 / SESW / 32.110631 / -103.5276794

County or Parish/State: LEA / NM

Well Number: 705H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM108504

Unit or CA Name:

Unit or CA Number:

US Well Number: 300254696400X1

Well Status: Approved Application for Permit to Drill

Operator: EOG RESOURCES INCORPORATED

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 09, 2021 12:18 PM

Name: EOG RESOURCES INCORPORATED

Title: Regulatory Specialist

Street Address: NOT ENTERED

City: NOT ENTERED **State:** NOT ENTERED

Phone: (432) 686-3600

Email address: NOT ENTERED

Field Representative

Representative Name: Star Harrell

Street Address: 5509 CHAMPIONS DRIVE

City: MIDLAND **State:** TX **Zip:** 79702

Phone: (432)848-9161

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: 02/09/2021

Signature: Chris Walls

Released to Imaging: 2/14/2021 4:44:07 PM

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	[2]Pool Code	[3]Pool Name
30-025-46964	98094	BOBCAT DRAW : UPPER WOLFCAMP

[4]Property Code	[5]Property Name	[6]Well Number
39180	VACA 24 FED COM	705H

[7]OGRID No.	[8]Operator Name	[9]Elevation
7377	EOG RESOURCES, INC.	3332'

[10]Surface Location

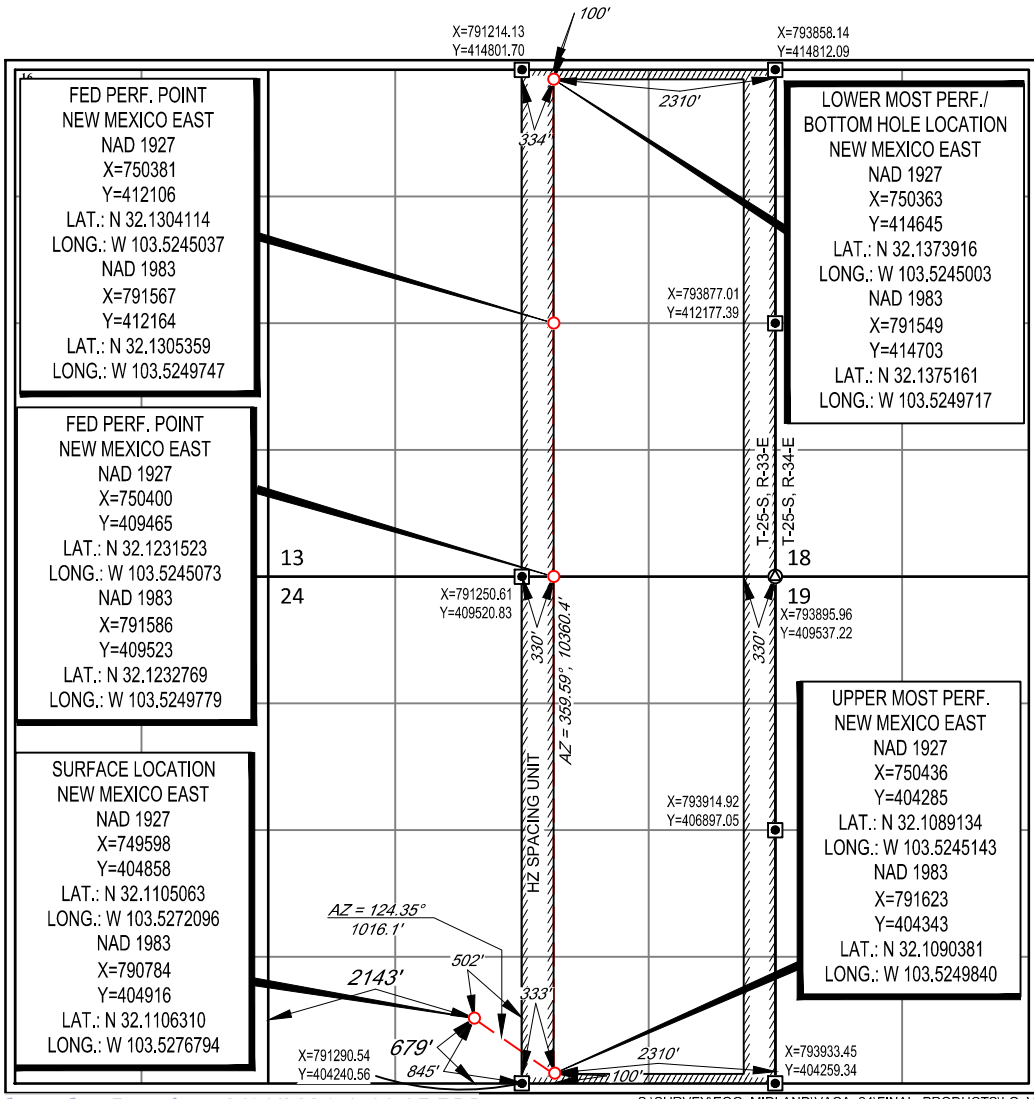
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	24	25-S	33-E	-	679'	SOUTH	2143'	WEST	LEA

[11]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
B	13	25-S	33-E	-	100'	NORTH	2310'	EAST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
640			

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.



[17]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 a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Emily Follis — 1-11-2021
Signature — Date

EMILY FOLLIS
Printed Name

EMILY_FOLLIS@EOGRESOURCES.C
E-mail Address

[18]SURVEYOR 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 to the best of my belief.

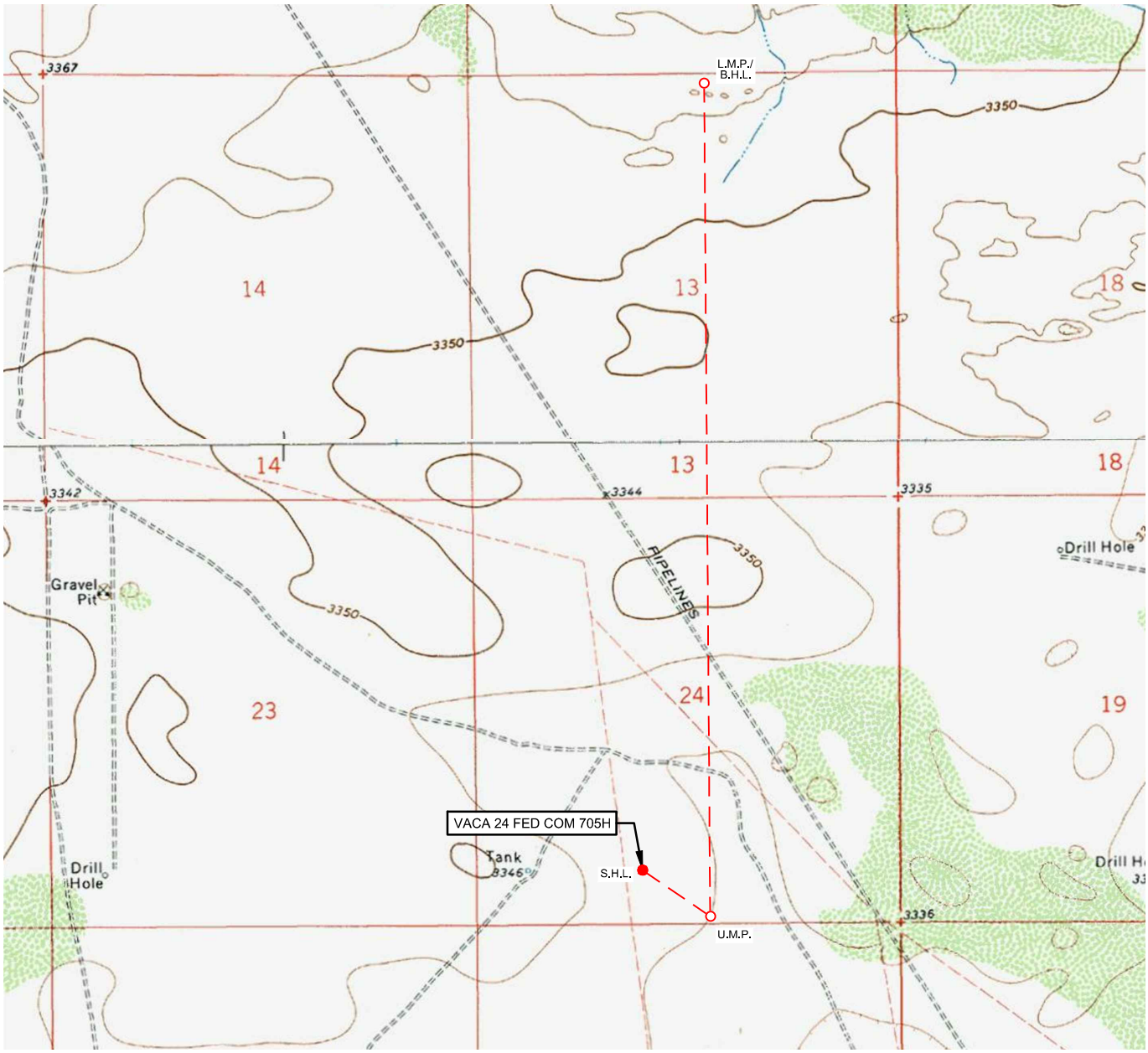
04/13/2019
Date of Survey
Signature and Seal of Professional Surveyor

RAMON A. DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

Certificate Number

S:\SURVEY\EOG_MIDLAND\VACA_24\FINAL_PRODUCTS\LO_VACA_24_FED_COM_705H_REV1.DWG 12/15/2020 9:02:52 AM rdominguez

LOCATION & ELEVATION VERIFICATION MAP



eog resources, inc.

LEASE NAME & WELL NO.: VACA 24 FED COM 705H

SECTION 24 TWP 25-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3332'
DESCRIPTION 679' FSL & 2143' FWL

LATITUDE N 32.1106310 LONGITUDE W 103.5276794

N

SCALE: 1" = 2000'

0' 1000' 2000'

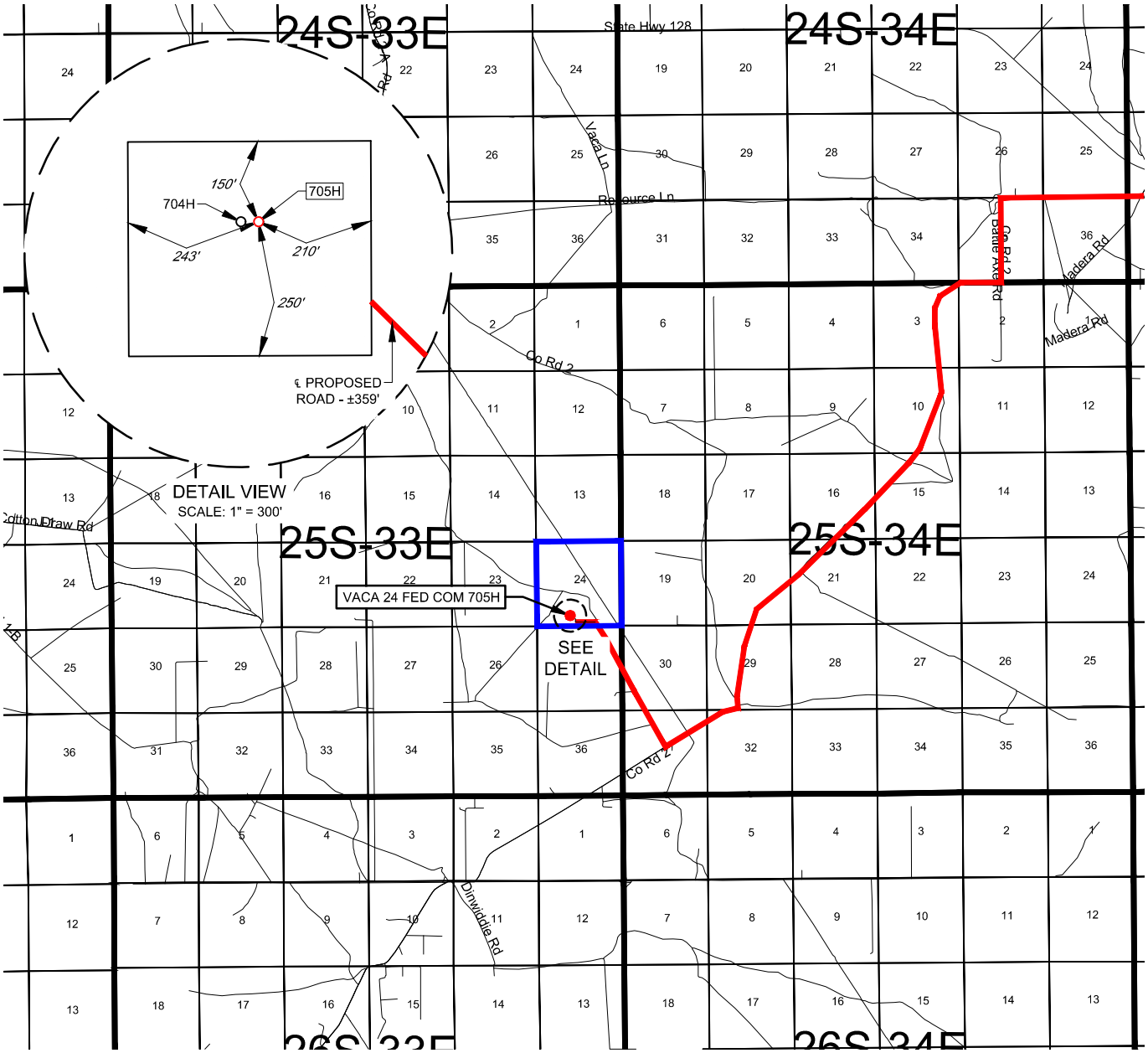
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

EXHIBIT 2

VICINITY MAP



eog resources, inc.

LEASE NAME & WELL NO.: VACA 24 FED COM 705H

SECTION 24 TWP 25-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 679' FSL & 2143' FWL

DISTANCE & DIRECTION

FROM INT. OF NM-18 N. & NM-128, GO WEST ON NM-128 ±14.1 MILES, THENCE SOUTHWEST (LEFT) ON BATTLE AXE RD. ±10.4 MILES, THENCE NORTHWEST (RIGHT) ON LEASE RD. ±1.7 MILES, THENCE WEST (LEFT) ON A PROPOSED RD. ±1246 FEET, THENCE NORTH (RIGHT) ON A PROPOSED RD. ±359 FEET TO A POINT ±258 FEET SOUTHEAST OF THE LOCATION.

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

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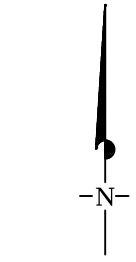

SCALE: 1" = 10000'

0' 5000' 10000'

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
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WWW.TOPOGRAPHIC.COM

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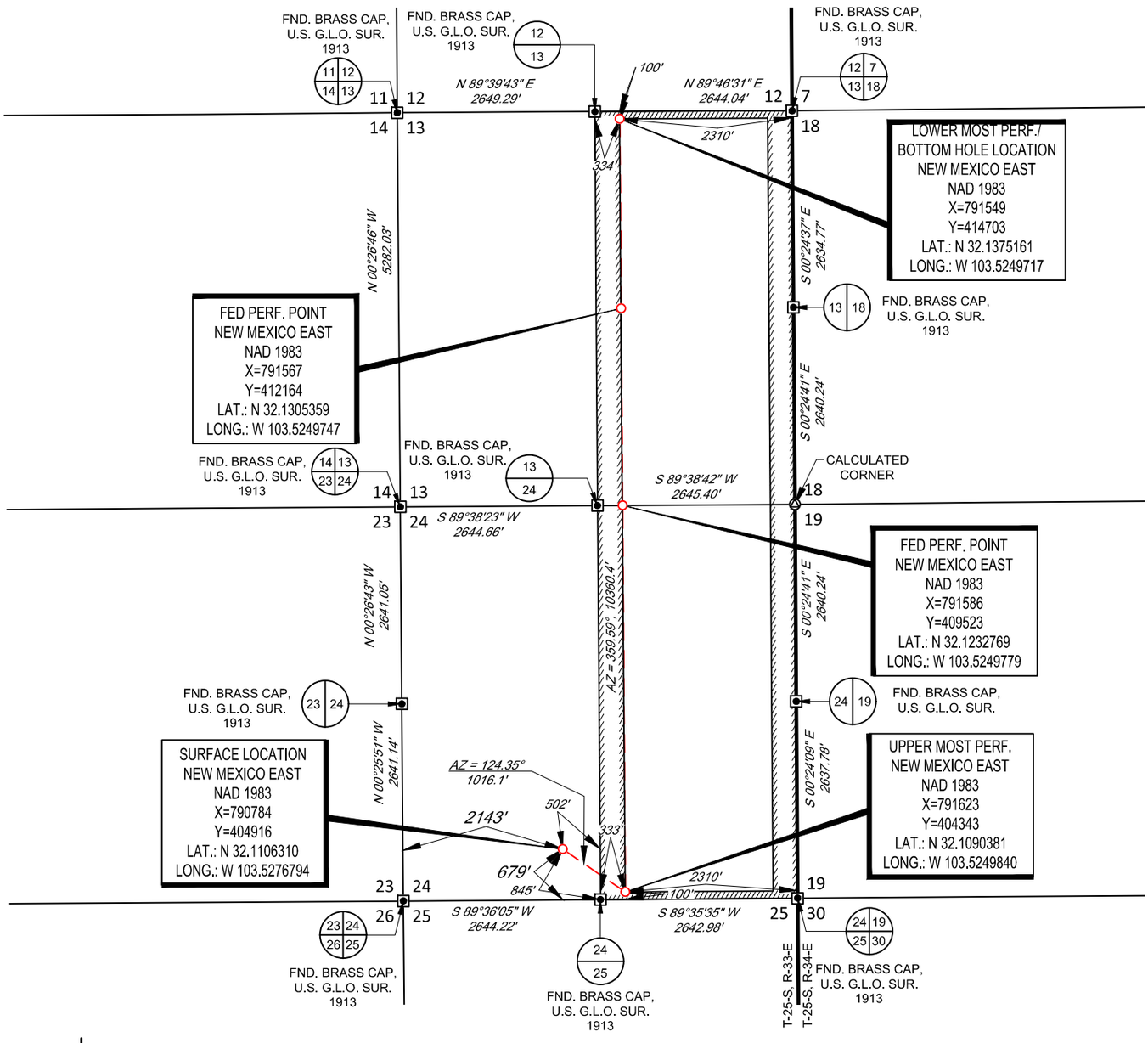
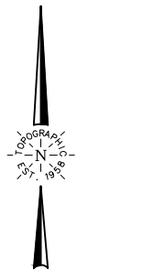
eog resources, inc.

EXHIBIT 2A

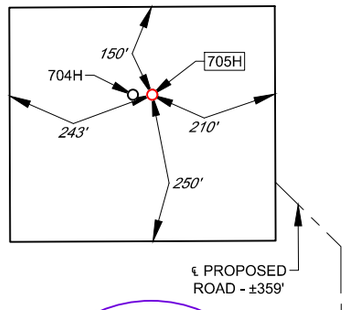
SECTION 24, TOWNSHIP 25-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO





SCALE: 1" = 2000'

0' 1000' 2000'



DETAIL VIEW
SCALE: 1" = 300'

℄ PROPOSED ROAD - ±359'

LEASE NAME & WELL NO.: VACA 24 FED COM 705H

SECTION 24 TWP 25-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 679' FSL & 2143' FWL

DISTANCE & DIRECTION

FROM INT. OF NM-18 N. & NM-128, GO WEST ON NM-128 ±14.1 MILES, THENCE SOUTHWEST (LEFT) ON BATTLE AXE RD. ±10.4 MILES, THENCE NORTHWEST (RIGHT) ON LEASE RD. ±1.7 MILES, THENCE WEST (LEFT) ON A PROPOSED RD. ±1246 FEET, THENCE NORTH (RIGHT) ON A PROPOSED RD. ±359 FEET TO A POINT ±258 FEET SOUTHEAST OF THE LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

RAMON A. DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

Ramon A. Dominguez, P.S. No. 24508
December 14, 2020

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
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WWW.TOPOGRAPHIC.COM

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EXHIBIT 2B

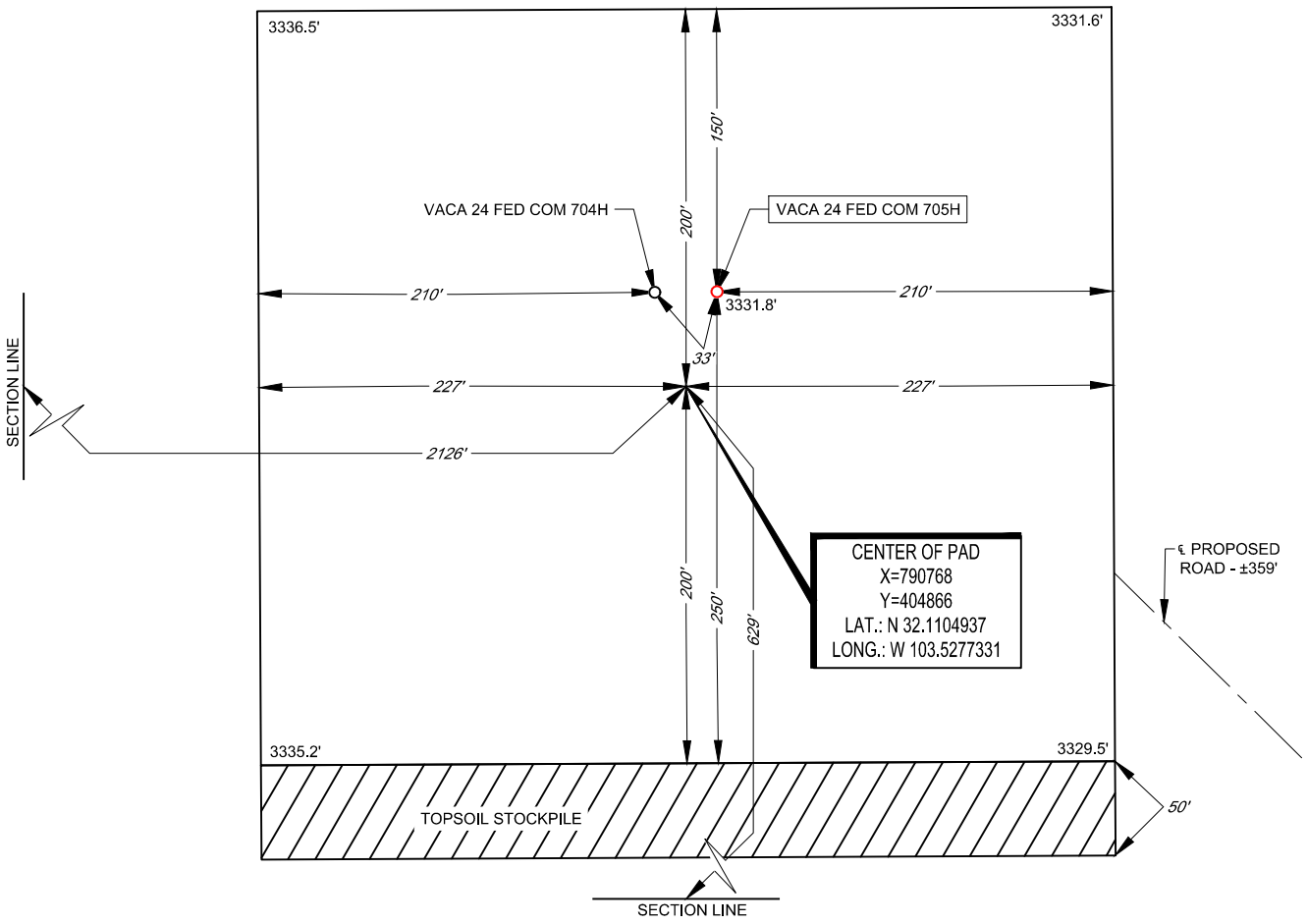
eog resources, inc.

SECTION 24, TOWNSHIP 25-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'

LEGEND

SECTION LINE
PROPOSED ROAD



LEASE NAME & WELL NO.: VACA 24 FED COM 705H

705H LATITUDE N 32.1106310 705H LONGITUDE W 103.5276794

CENTER OF PAD IS 629' FSL & 2126' FWL

RAMON A. DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

Ramon A. Dominguez, P.S. No. 24508

DECEMBER 14, 2020

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. ONLY THE DATA SHOWN ABOVE IS BEING CERTIFIED TO, ALL OTHER INFORMATION WAS INTENTIONALLY OMITTED. THIS PLAT IS ONLY INTENDED TO BE USED FOR A PERMIT AND IS NOT A BOUNDARY SURVEY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"

SCALE: 1" = 100'

0' 50' 100'

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
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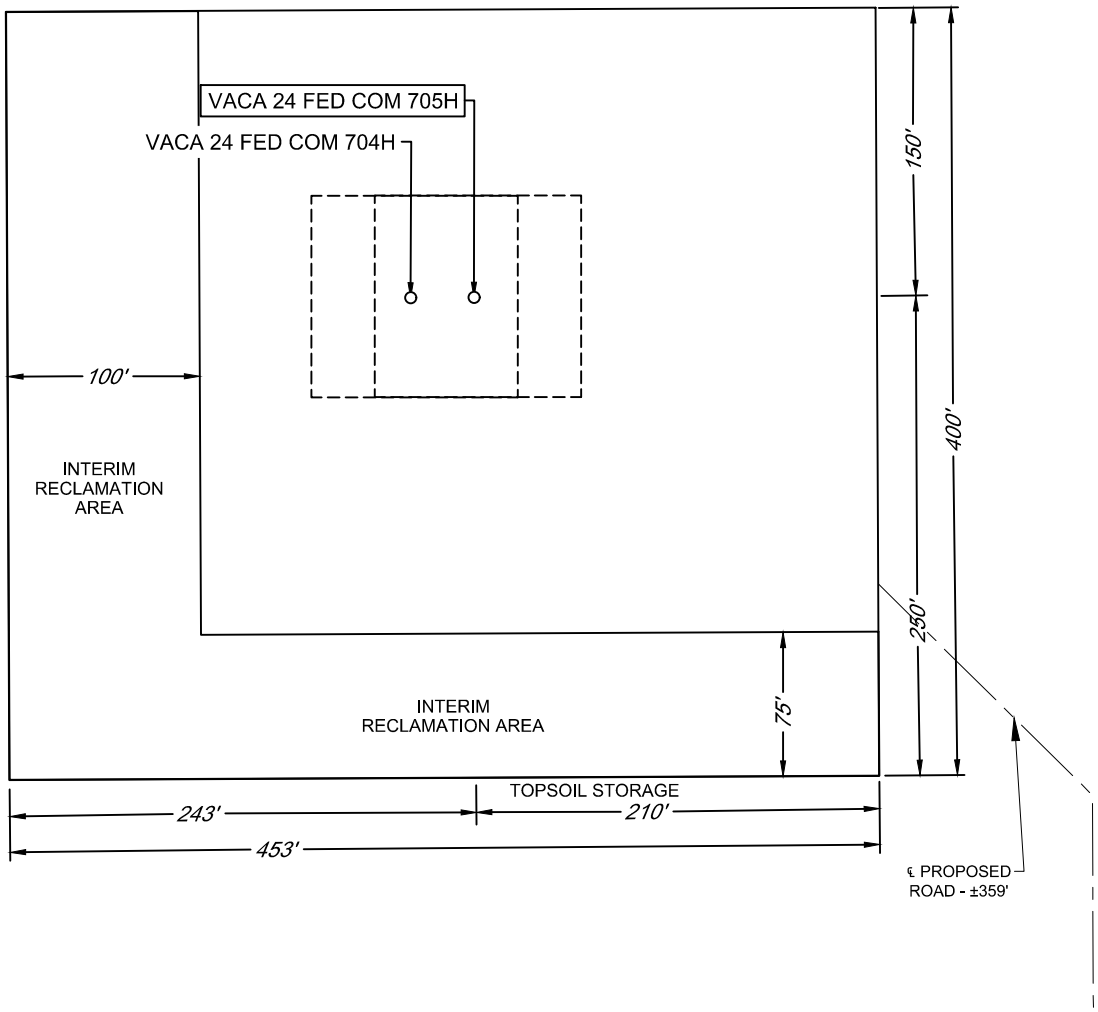
EXHIBIT 2C

RECLAMATION AND FACILITY DIAGRAM - PRODUCTION FACILITIES DIAGRAM

SECTION 24, TOWNSHIP 25-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'



LEASE NAME & WELL NO.: VACA 24 FED COM 705H

705H LATITUDE N 32.1106310 705H LONGITUDE W 103.5276794

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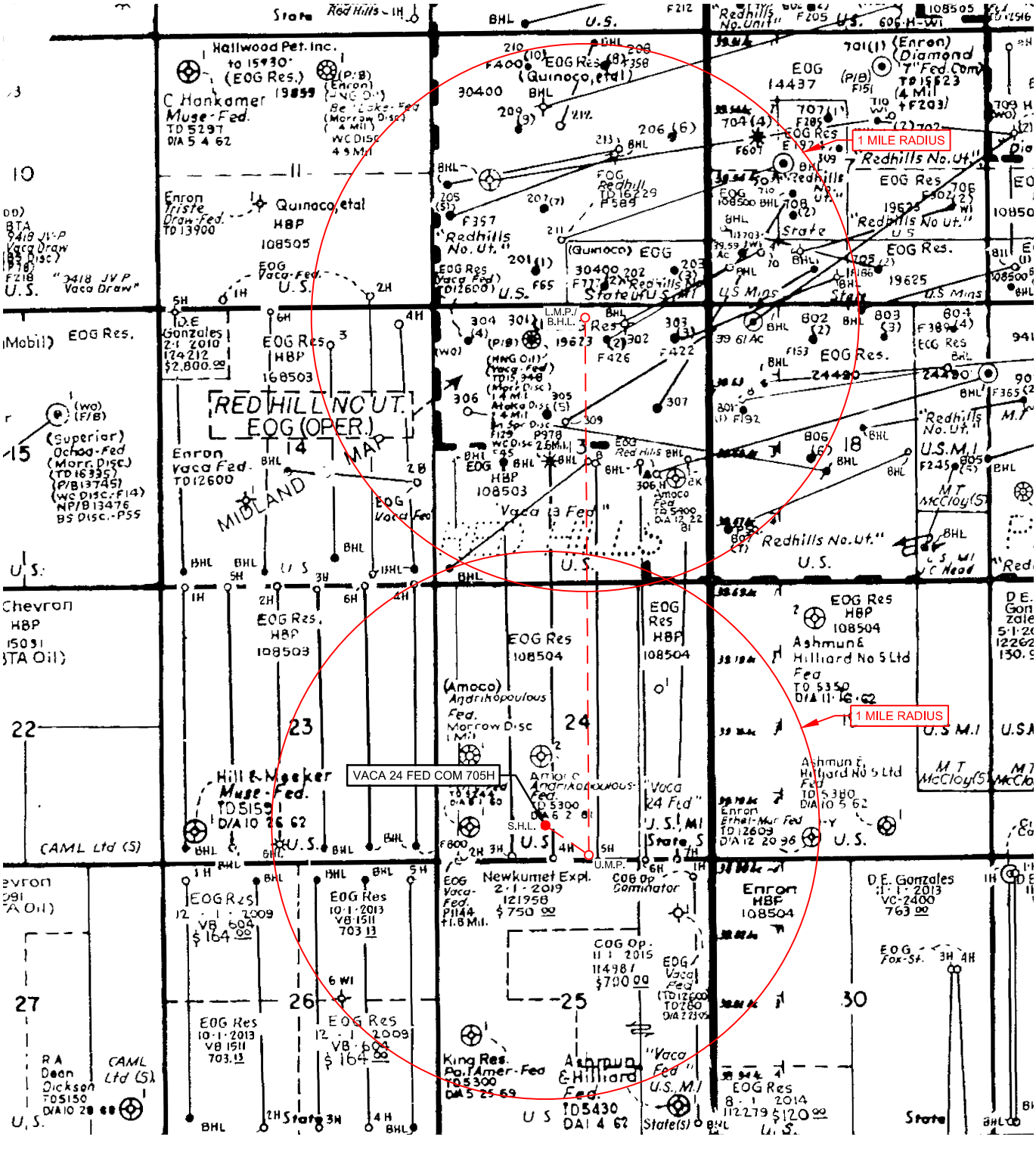
EXHIBIT 3

SECTION 24, TOWNSHIP 25-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

eog resources, inc.



LEASE NAME & WELL NO.: VACA 24 FED COM 705H

705H LATITUDE N 32.1106310 705H LONGITUDE W 103.5276794

SCALE: NTS

N

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

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Revised Permit Information 1/5/2020:

Well Name: Vaca 24 Fed Com #705H

Location:
SHL: 679' FSL & 2143' FWL, Section 24, T-25-S, R-33-E, Lea Co., N.M.
BHL: 100' FNL & 2310' FEL, Section 13, T-25-S, R-33-E, Lea Co., N.M.

Design A

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF_{min} Collapse	DF_{min} Burst	DF_{min} Tension
12.25"	0' – 1,200'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75"	0' – 11,430'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0' – 10,930'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60
6.75"	10,930'–11,430'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60
6.75"	11,430' – 22,789'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60

Variance is requested to wave 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 wave 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.

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

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

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft^3/sk	Slurry Description
1,200' 9-5/8"	330	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 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 @ 1,000')
11,430' 7-5/8"	420	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,925')
	1,320	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
22,789' 5-1/2"	1,000	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,930')

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 TOC at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary a top out consisting of 1,000 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Top of cement will be verified by Echo-meter.

EOG will include the final fluid top verified by Echo-meter 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:

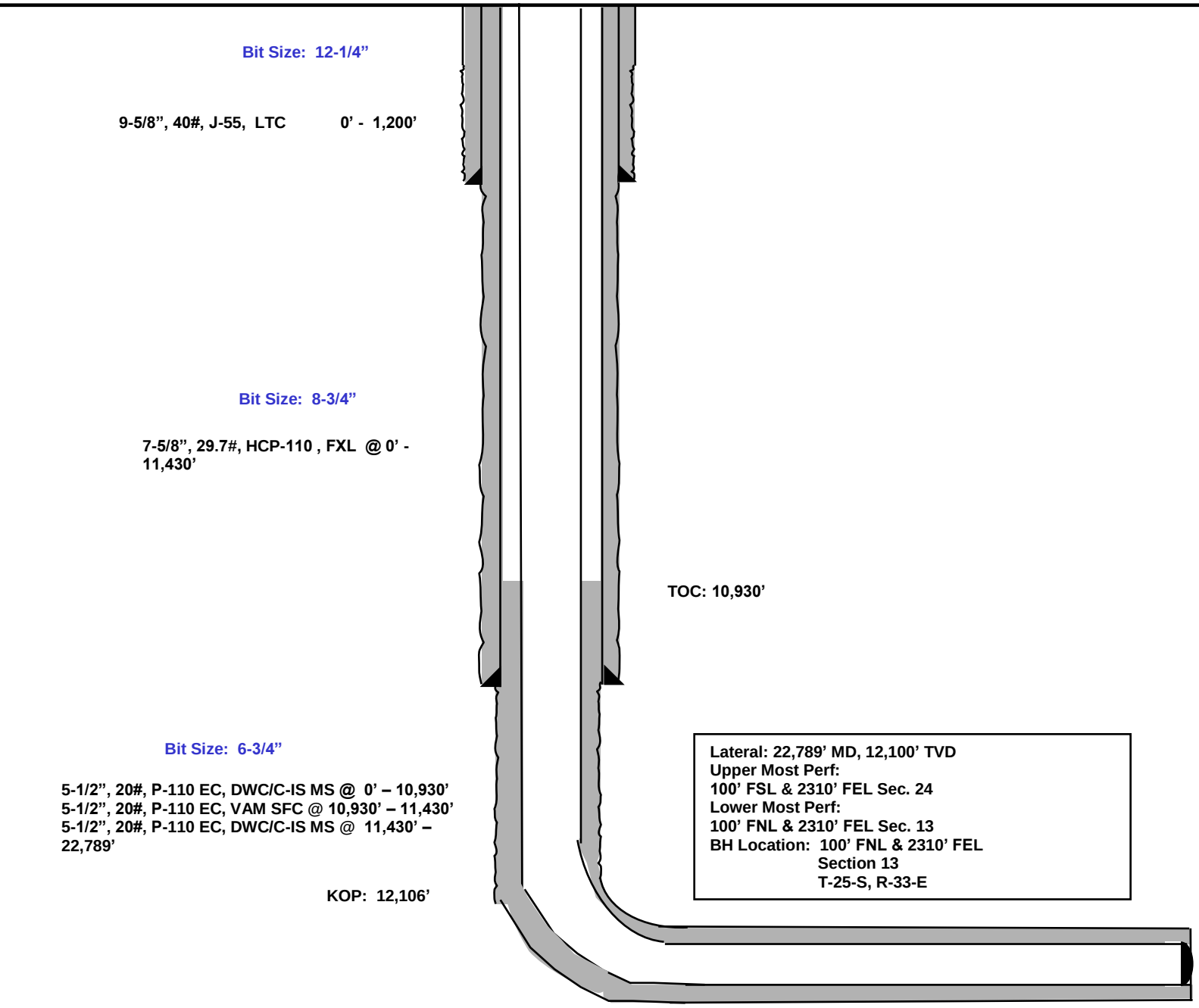
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,200'	Fresh - Gel	8.6-8.8	28-34	N/c
1,200' – 11,430'	Brine	10.0-10.2	28-34	N/c
11,430' – 12,106'	Oil Base	8.7-9.4	58-68	N/c - 6
12,106' – 22,789' Lateral	Oil Base	10.0-14.0	58-68	3 - 6

679’ FSL
2143’ FWL
Section 24
T-25-S, R-33-E

Revised Wellbore

API: 30-025-46964

KB: 3,357’
GL: 3,332’



EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Vaca 24 Fed Com
#705H

OH

Plan: Plan #0.1

Standard Planning Report

06 January, 2021

eog resources

EOG Resources
Planning Report

Database:	EDM	**Local Co-ordinate Reference:**	Well #705H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3357.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3357.0usft
Site:	Vaca 24 Fed Com	**North Reference:**	Grid
Well:	#705H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Project Lea County, NM (NAD 83 NME)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Vaca 24 Fed Com

Site Position:		**Northing:**	404,270.00 usft	**Latitude:**	32° 6' 31.982 N
From:	Map	**Easting:**	789,366.00 usft	**Longitude:**	103° 31' 56.186 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.43 °

Well #705H

Well Position	**+N/-S**	646.0 usft	**Northing:**	404,916.00 usft	**Latitude:**	32° 6' 38.270 N
	+E/-W	1,418.0 usft	**Easting:**	790,784.00 usft	**Longitude:**	103° 31' 39.644 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,332.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/8/2019	6.70	59.94	47,664.70846933

Design Plan #0.1

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	4.47

Plan Survey Tool Program **Date** 1/6/2021

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,788.5	Plan #0.1 (OH)	MWD	
				OWSG MWD - Standard	

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Wellbore:	OH		
Design:	Plan #0.1		

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	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,766.4	9.33	126.60	1,764.4	-22.6	30.4	2.00	2.00	0.00	126.60	
7,745.8	9.33	126.60	7,664.6	-600.4	808.6	0.00	0.00	0.00	0.00	
8,212.2	0.00	0.00	8,129.0	-623.0	839.0	2.00	-2.00	0.00	180.00	
12,105.7	0.00	0.00	12,022.5	-623.0	839.0	0.00	0.00	0.00	0.00	KOP(Vaca 24 Fed Co
12,855.7	90.00	359.59	12,500.0	-145.6	835.6	12.00	12.00	-0.05	359.59	
17,608.4	90.00	359.59	12,500.0	4,607.0	802.0	0.00	0.00	0.00	0.00	Fed Perf 1(Vaca 24 F
17,608.7	90.00	359.59	12,500.0	4,607.3	802.0	2.00	0.12	-2.00	-86.46	
20,249.4	90.00	359.59	12,500.0	7,248.0	783.0	0.00	0.00	0.00	0.00	Fed Perf 2(Vaca 24 F
20,249.7	90.00	359.59	12,500.0	7,248.3	783.0	2.00	0.00	2.00	90.00	
22,788.5	90.00	359.59	12,500.0	9,787.0	765.0	0.00	0.00	0.00	0.00	PBHL(Vaca 24 Fed C

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Well:	#705H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
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	2.00	126.60	1,400.0	-1.0	1.4	-0.9	2.00	2.00	0.00
1,500.0	4.00	126.60	1,499.8	-4.2	5.6	-3.7	2.00	2.00	0.00
1,600.0	6.00	126.60	1,599.5	-9.4	12.6	-8.3	2.00	2.00	0.00
1,700.0	8.00	126.60	1,698.7	-16.6	22.4	-14.8	2.00	2.00	0.00
1,766.4	9.33	126.60	1,764.4	-22.6	30.4	-20.1	2.00	2.00	0.00
1,800.0	9.33	126.60	1,797.5	-25.8	34.8	-23.0	0.00	0.00	0.00
1,900.0	9.33	126.60	1,896.2	-35.5	47.8	-31.7	0.00	0.00	0.00
2,000.0	9.33	126.60	1,994.9	-45.2	60.8	-40.3	0.00	0.00	0.00
2,100.0	9.33	126.60	2,093.5	-54.8	73.8	-48.9	0.00	0.00	0.00
2,200.0	9.33	126.60	2,192.2	-64.5	86.8	-57.5	0.00	0.00	0.00
2,300.0	9.33	126.60	2,290.9	-74.1	99.9	-66.1	0.00	0.00	0.00
2,400.0	9.33	126.60	2,389.6	-83.8	112.9	-74.8	0.00	0.00	0.00
2,500.0	9.33	126.60	2,488.2	-93.5	125.9	-83.4	0.00	0.00	0.00
2,600.0	9.33	126.60	2,586.9	-103.1	138.9	-92.0	0.00	0.00	0.00
2,700.0	9.33	126.60	2,685.6	-112.8	151.9	-100.6	0.00	0.00	0.00
2,800.0	9.33	126.60	2,784.3	-122.5	164.9	-109.2	0.00	0.00	0.00
2,900.0	9.33	126.60	2,883.0	-132.1	177.9	-117.9	0.00	0.00	0.00
3,000.0	9.33	126.60	2,981.6	-141.8	191.0	-126.5	0.00	0.00	0.00
3,100.0	9.33	126.60	3,080.3	-151.5	204.0	-135.1	0.00	0.00	0.00
3,200.0	9.33	126.60	3,179.0	-161.1	217.0	-143.7	0.00	0.00	0.00
3,300.0	9.33	126.60	3,277.7	-170.8	230.0	-152.3	0.00	0.00	0.00
3,400.0	9.33	126.60	3,376.3	-180.5	243.0	-161.0	0.00	0.00	0.00
3,500.0	9.33	126.60	3,475.0	-190.1	256.0	-169.6	0.00	0.00	0.00
3,600.0	9.33	126.60	3,573.7	-199.8	269.0	-178.2	0.00	0.00	0.00
3,700.0	9.33	126.60	3,672.4	-209.4	282.1	-186.8	0.00	0.00	0.00
3,800.0	9.33	126.60	3,771.0	-219.1	295.1	-195.4	0.00	0.00	0.00
3,900.0	9.33	126.60	3,869.7	-228.8	308.1	-204.1	0.00	0.00	0.00
4,000.0	9.33	126.60	3,968.4	-238.4	321.1	-212.7	0.00	0.00	0.00
4,100.0	9.33	126.60	4,067.1	-248.1	334.1	-221.3	0.00	0.00	0.00
4,200.0	9.33	126.60	4,165.8	-257.8	347.1	-229.9	0.00	0.00	0.00
4,300.0	9.33	126.60	4,264.4	-267.4	360.1	-238.5	0.00	0.00	0.00
4,400.0	9.33	126.60	4,363.1	-277.1	373.2	-247.2	0.00	0.00	0.00
4,500.0	9.33	126.60	4,461.8	-286.8	386.2	-255.8	0.00	0.00	0.00
4,600.0	9.33	126.60	4,560.5	-296.4	399.2	-264.4	0.00	0.00	0.00
4,700.0	9.33	126.60	4,659.1	-306.1	412.2	-273.0	0.00	0.00	0.00
4,800.0	9.33	126.60	4,757.8	-315.7	425.2	-281.6	0.00	0.00	0.00
4,900.0	9.33	126.60	4,856.5	-325.4	438.2	-290.3	0.00	0.00	0.00
5,000.0	9.33	126.60	4,955.2	-335.1	451.2	-298.9	0.00	0.00	0.00
5,100.0	9.33	126.60	5,053.9	-344.7	464.3	-307.5	0.00	0.00	0.00
5,200.0	9.33	126.60	5,152.5	-354.4	477.3	-316.1	0.00	0.00	0.00

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Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	9.33	126.60	5,251.2	-364.1	490.3	-324.7	0.00	0.00	0.00
5,400.0	9.33	126.60	5,349.9	-373.7	503.3	-333.4	0.00	0.00	0.00
5,500.0	9.33	126.60	5,448.6	-383.4	516.3	-342.0	0.00	0.00	0.00
5,600.0	9.33	126.60	5,547.2	-393.1	529.3	-350.6	0.00	0.00	0.00
5,700.0	9.33	126.60	5,645.9	-402.7	542.3	-359.2	0.00	0.00	0.00
5,800.0	9.33	126.60	5,744.6	-412.4	555.4	-367.8	0.00	0.00	0.00
5,900.0	9.33	126.60	5,843.3	-422.0	568.4	-376.5	0.00	0.00	0.00
6,000.0	9.33	126.60	5,942.0	-431.7	581.4	-385.1	0.00	0.00	0.00
6,100.0	9.33	126.60	6,040.6	-441.4	594.4	-393.7	0.00	0.00	0.00
6,200.0	9.33	126.60	6,139.3	-451.0	607.4	-402.3	0.00	0.00	0.00
6,300.0	9.33	126.60	6,238.0	-460.7	620.4	-410.9	0.00	0.00	0.00
6,400.0	9.33	126.60	6,336.7	-470.4	633.4	-419.6	0.00	0.00	0.00
6,500.0	9.33	126.60	6,435.3	-480.0	646.5	-428.2	0.00	0.00	0.00
6,600.0	9.33	126.60	6,534.0	-489.7	659.5	-436.8	0.00	0.00	0.00
6,700.0	9.33	126.60	6,632.7	-499.4	672.5	-445.4	0.00	0.00	0.00
6,800.0	9.33	126.60	6,731.4	-509.0	685.5	-454.1	0.00	0.00	0.00
6,900.0	9.33	126.60	6,830.0	-518.7	698.5	-462.7	0.00	0.00	0.00
7,000.0	9.33	126.60	6,928.7	-528.3	711.5	-471.3	0.00	0.00	0.00
7,100.0	9.33	126.60	7,027.4	-538.0	724.5	-479.9	0.00	0.00	0.00
7,200.0	9.33	126.60	7,126.1	-547.7	737.6	-488.5	0.00	0.00	0.00
7,300.0	9.33	126.60	7,224.8	-557.3	750.6	-497.2	0.00	0.00	0.00
7,400.0	9.33	126.60	7,323.4	-567.0	763.6	-505.8	0.00	0.00	0.00
7,500.0	9.33	126.60	7,422.1	-576.7	776.6	-514.4	0.00	0.00	0.00
7,600.0	9.33	126.60	7,520.8	-586.3	789.6	-523.0	0.00	0.00	0.00
7,700.0	9.33	126.60	7,619.5	-596.0	802.6	-531.6	0.00	0.00	0.00
7,745.8	9.33	126.60	7,664.6	-600.4	808.6	-535.6	0.00	0.00	0.00
7,800.0	8.24	126.60	7,718.2	-605.4	815.2	-540.0	2.00	-2.00	0.00
7,900.0	6.24	126.60	7,817.4	-612.9	825.4	-546.7	2.00	-2.00	0.00
8,000.0	4.24	126.60	7,917.0	-618.3	832.7	-551.5	2.00	-2.00	0.00
8,100.0	2.24	126.60	8,016.8	-621.7	837.2	-554.6	2.00	-2.00	0.00
8,200.0	0.24	126.60	8,116.8	-623.0	839.0	-555.7	2.00	-2.00	0.00
8,212.2	0.00	0.00	8,129.0	-623.0	839.0	-555.7	2.00	-2.00	0.00
8,300.0	0.00	0.00	8,216.8	-623.0	839.0	-555.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,316.8	-623.0	839.0	-555.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,416.8	-623.0	839.0	-555.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,516.8	-623.0	839.0	-555.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,616.8	-623.0	839.0	-555.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,716.8	-623.0	839.0	-555.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,816.8	-623.0	839.0	-555.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,916.8	-623.0	839.0	-555.7	0.00	0.00	0.00
9,100.0	0.00	0.00	9,016.8	-623.0	839.0	-555.7	0.00	0.00	0.00
9,200.0	0.00	0.00	9,116.8	-623.0	839.0	-555.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,216.8	-623.0	839.0	-555.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,316.8	-623.0	839.0	-555.7	0.00	0.00	0.00
9,500.0	0.00	0.00	9,416.8	-623.0	839.0	-555.7	0.00	0.00	0.00
9,600.0	0.00	0.00	9,516.8	-623.0	839.0	-555.7	0.00	0.00	0.00
9,700.0	0.00	0.00	9,616.8	-623.0	839.0	-555.7	0.00	0.00	0.00
9,800.0	0.00	0.00	9,716.8	-623.0	839.0	-555.7	0.00	0.00	0.00
9,900.0	0.00	0.00	9,816.8	-623.0	839.0	-555.7	0.00	0.00	0.00
10,000.0	0.00	0.00	9,916.8	-623.0	839.0	-555.7	0.00	0.00	0.00
10,100.0	0.00	0.00	10,016.8	-623.0	839.0	-555.7	0.00	0.00	0.00
10,200.0	0.00	0.00	10,116.8	-623.0	839.0	-555.7	0.00	0.00	0.00
10,300.0	0.00	0.00	10,216.8	-623.0	839.0	-555.7	0.00	0.00	0.00
10,400.0	0.00	0.00	10,316.8	-623.0	839.0	-555.7	0.00	0.00	0.00

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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,500.0	0.00	0.00	10,416.8	-623.0	839.0	-555.7	0.00	0.00	0.00
10,600.0	0.00	0.00	10,516.8	-623.0	839.0	-555.7	0.00	0.00	0.00
10,700.0	0.00	0.00	10,616.8	-623.0	839.0	-555.7	0.00	0.00	0.00
10,800.0	0.00	0.00	10,716.8	-623.0	839.0	-555.7	0.00	0.00	0.00
10,900.0	0.00	0.00	10,816.8	-623.0	839.0	-555.7	0.00	0.00	0.00
11,000.0	0.00	0.00	10,916.8	-623.0	839.0	-555.7	0.00	0.00	0.00
11,100.0	0.00	0.00	11,016.8	-623.0	839.0	-555.7	0.00	0.00	0.00
11,200.0	0.00	0.00	11,116.8	-623.0	839.0	-555.7	0.00	0.00	0.00
11,300.0	0.00	0.00	11,216.8	-623.0	839.0	-555.7	0.00	0.00	0.00
11,400.0	0.00	0.00	11,316.8	-623.0	839.0	-555.7	0.00	0.00	0.00
11,500.0	0.00	0.00	11,416.8	-623.0	839.0	-555.7	0.00	0.00	0.00
11,600.0	0.00	0.00	11,516.8	-623.0	839.0	-555.7	0.00	0.00	0.00
11,700.0	0.00	0.00	11,616.8	-623.0	839.0	-555.7	0.00	0.00	0.00
11,800.0	0.00	0.00	11,716.8	-623.0	839.0	-555.7	0.00	0.00	0.00
11,900.0	0.00	0.00	11,816.8	-623.0	839.0	-555.7	0.00	0.00	0.00
12,000.0	0.00	0.00	11,916.8	-623.0	839.0	-555.7	0.00	0.00	0.00
12,105.7	0.00	0.00	12,022.5	-623.0	839.0	-555.7	0.00	0.00	0.00
12,125.0	2.32	359.59	12,041.8	-622.6	839.0	-555.3	12.00	12.00	0.00
12,150.0	5.32	359.59	12,066.7	-620.9	839.0	-553.7	12.00	12.00	0.00
12,175.0	8.32	359.59	12,091.6	-618.0	839.0	-550.7	12.00	12.00	0.00
12,200.0	11.32	359.59	12,116.2	-613.7	838.9	-546.5	12.00	12.00	0.00
12,225.0	14.32	359.59	12,140.6	-608.2	838.9	-541.0	12.00	12.00	0.00
12,250.0	17.32	359.59	12,164.6	-601.4	838.8	-534.2	12.00	12.00	0.00
12,275.0	20.32	359.59	12,188.3	-593.3	838.8	-526.1	12.00	12.00	0.00
12,300.0	23.32	359.59	12,211.5	-584.0	838.7	-516.9	12.00	12.00	0.00
12,325.0	26.32	359.59	12,234.2	-573.5	838.6	-506.4	12.00	12.00	0.00
12,350.0	29.32	359.59	12,256.3	-561.9	838.6	-494.8	12.00	12.00	0.00
12,375.0	32.32	359.59	12,277.8	-549.0	838.5	-482.0	12.00	12.00	0.00
12,400.0	35.32	359.59	12,298.5	-535.1	838.4	-468.2	12.00	12.00	0.00
12,425.0	38.32	359.59	12,318.5	-520.2	838.3	-453.2	12.00	12.00	0.00
12,450.0	41.32	359.59	12,337.7	-504.1	838.2	-437.3	12.00	12.00	0.00
12,475.0	44.32	359.59	12,356.1	-487.2	838.0	-420.4	12.00	12.00	0.00
12,500.0	47.32	359.59	12,373.5	-469.2	837.9	-402.5	12.00	12.00	0.00
12,525.0	50.32	359.59	12,389.9	-450.4	837.8	-383.8	12.00	12.00	0.00
12,550.0	53.32	359.59	12,405.4	-430.8	837.6	-364.2	12.00	12.00	0.00
12,575.0	56.32	359.59	12,419.8	-410.3	837.5	-343.8	12.00	12.00	0.00
12,600.0	59.32	359.59	12,433.1	-389.2	837.3	-322.8	12.00	12.00	0.00
12,625.0	62.32	359.59	12,445.3	-367.4	837.2	-301.0	12.00	12.00	0.00
12,650.0	65.32	359.59	12,456.3	-344.9	837.0	-278.7	12.00	12.00	0.00
12,675.0	68.32	359.59	12,466.2	-322.0	836.9	-255.8	12.00	12.00	0.00
12,700.0	71.32	359.59	12,474.8	-298.5	836.7	-232.4	12.00	12.00	0.00
12,725.0	74.32	359.59	12,482.2	-274.6	836.5	-208.6	12.00	12.00	0.00
12,750.0	77.32	359.59	12,488.3	-250.4	836.4	-184.4	12.00	12.00	0.00
12,775.0	80.32	359.59	12,493.2	-225.9	836.2	-160.0	12.00	12.00	0.00
12,800.0	83.32	359.59	12,496.7	-201.1	836.0	-135.4	12.00	12.00	0.00
12,825.0	86.32	359.59	12,499.0	-176.2	835.8	-110.5	12.00	12.00	0.00
12,850.0	89.32	359.59	12,499.9	-151.2	835.7	-85.7	12.00	12.00	0.00
12,855.7	90.00	359.59	12,500.0	-145.6	835.6	-80.0	12.00	12.00	0.00
12,900.0	90.00	359.59	12,500.0	-101.2	835.3	-35.8	0.00	0.00	0.00
13,000.0	90.00	359.59	12,500.0	-1.2	834.6	63.8	0.00	0.00	0.00
13,100.0	90.00	359.59	12,500.0	98.8	833.9	163.4	0.00	0.00	0.00
13,200.0	90.00	359.59	12,500.0	198.7	833.2	263.1	0.00	0.00	0.00
13,300.0	90.00	359.59	12,500.0	298.7	832.5	362.7	0.00	0.00	0.00
13,400.0	90.00	359.59	12,500.0	398.7	831.8	462.3	0.00	0.00	0.00

eog resources

EOG Resources

Planning Report

Database:	EDM	**Local Co-ordinate Reference:**	Well #705H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3357.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3357.0usft
Site:	Vaca 24 Fed Com	**North Reference:**	Grid
Well:	#705H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,500.0	90.00	359.59	12,500.0	498.7	831.1	562.0	0.00	0.00	0.00
13,600.0	90.00	359.59	12,500.0	598.7	830.4	661.6	0.00	0.00	0.00
13,700.0	90.00	359.59	12,500.0	698.7	829.6	761.3	0.00	0.00	0.00
13,800.0	90.00	359.59	12,500.0	798.7	828.9	860.9	0.00	0.00	0.00
13,900.0	90.00	359.59	12,500.0	898.7	828.2	960.5	0.00	0.00	0.00
14,000.0	90.00	359.59	12,500.0	998.7	827.5	1,060.2	0.00	0.00	0.00
14,100.0	90.00	359.59	12,500.0	1,098.7	826.8	1,159.8	0.00	0.00	0.00
14,200.0	90.00	359.59	12,500.0	1,198.7	826.1	1,259.5	0.00	0.00	0.00
14,300.0	90.00	359.59	12,500.0	1,298.7	825.4	1,359.1	0.00	0.00	0.00
14,400.0	90.00	359.59	12,500.0	1,398.7	824.7	1,458.7	0.00	0.00	0.00
14,500.0	90.00	359.59	12,500.0	1,498.7	824.0	1,558.4	0.00	0.00	0.00
14,600.0	90.00	359.59	12,500.0	1,598.7	823.3	1,658.0	0.00	0.00	0.00
14,700.0	90.00	359.59	12,500.0	1,698.7	822.6	1,757.6	0.00	0.00	0.00
14,800.0	90.00	359.59	12,500.0	1,798.7	821.9	1,857.3	0.00	0.00	0.00
14,900.0	90.00	359.59	12,500.0	1,898.7	821.2	1,956.9	0.00	0.00	0.00
15,000.0	90.00	359.59	12,500.0	1,998.7	820.5	2,056.6	0.00	0.00	0.00
15,100.0	90.00	359.59	12,500.0	2,098.7	819.7	2,156.2	0.00	0.00	0.00
15,200.0	90.00	359.59	12,500.0	2,198.7	819.0	2,255.8	0.00	0.00	0.00
15,300.0	90.00	359.59	12,500.0	2,298.7	818.3	2,355.5	0.00	0.00	0.00
15,400.0	90.00	359.59	12,500.0	2,398.7	817.6	2,455.1	0.00	0.00	0.00
15,500.0	90.00	359.59	12,500.0	2,498.7	816.9	2,554.8	0.00	0.00	0.00
15,600.0	90.00	359.59	12,500.0	2,598.7	816.2	2,654.4	0.00	0.00	0.00
15,700.0	90.00	359.59	12,500.0	2,698.7	815.5	2,754.0	0.00	0.00	0.00
15,800.0	90.00	359.59	12,500.0	2,798.7	814.8	2,853.7	0.00	0.00	0.00
15,900.0	90.00	359.59	12,500.0	2,898.7	814.1	2,953.3	0.00	0.00	0.00
16,000.0	90.00	359.59	12,500.0	2,998.7	813.4	3,052.9	0.00	0.00	0.00
16,100.0	90.00	359.59	12,500.0	3,098.7	812.7	3,152.6	0.00	0.00	0.00
16,200.0	90.00	359.59	12,500.0	3,198.7	812.0	3,252.2	0.00	0.00	0.00
16,300.0	90.00	359.59	12,500.0	3,298.7	811.3	3,351.9	0.00	0.00	0.00
16,400.0	90.00	359.59	12,500.0	3,398.7	810.5	3,451.5	0.00	0.00	0.00
16,500.0	90.00	359.59	12,500.0	3,498.7	809.8	3,551.1	0.00	0.00	0.00
16,600.0	90.00	359.59	12,500.0	3,598.7	809.1	3,650.8	0.00	0.00	0.00
16,700.0	90.00	359.59	12,500.0	3,698.7	808.4	3,750.4	0.00	0.00	0.00
16,800.0	90.00	359.59	12,500.0	3,798.7	807.7	3,850.1	0.00	0.00	0.00
16,900.0	90.00	359.59	12,500.0	3,898.7	807.0	3,949.7	0.00	0.00	0.00
17,000.0	90.00	359.59	12,500.0	3,998.7	806.3	4,049.3	0.00	0.00	0.00
17,100.0	90.00	359.59	12,500.0	4,098.7	805.6	4,149.0	0.00	0.00	0.00
17,200.0	90.00	359.59	12,500.0	4,198.6	804.9	4,248.6	0.00	0.00	0.00
17,300.0	90.00	359.59	12,500.0	4,298.6	804.2	4,348.2	0.00	0.00	0.00
17,400.0	90.00	359.59	12,500.0	4,398.6	803.5	4,447.9	0.00	0.00	0.00
17,500.0	90.00	359.59	12,500.0	4,498.6	802.8	4,547.5	0.00	0.00	0.00
17,608.4	90.00	359.59	12,500.0	4,607.0	802.0	4,655.5	0.00	0.00	0.00
17,608.7	90.00	359.59	12,500.0	4,607.3	802.0	4,655.8	2.00	0.12	-2.00
17,700.0	90.00	359.59	12,500.0	4,698.6	801.3	4,746.8	0.00	0.00	0.00
17,800.0	90.00	359.59	12,500.0	4,798.6	800.6	4,846.4	0.00	0.00	0.00
17,900.0	90.00	359.59	12,500.0	4,898.6	799.9	4,946.1	0.00	0.00	0.00
18,000.0	90.00	359.59	12,500.0	4,998.6	799.2	5,045.7	0.00	0.00	0.00
18,100.0	90.00	359.59	12,500.0	5,098.6	798.5	5,145.3	0.00	0.00	0.00
18,200.0	90.00	359.59	12,500.0	5,198.6	797.7	5,245.0	0.00	0.00	0.00
18,300.0	90.00	359.59	12,500.0	5,298.6	797.0	5,344.6	0.00	0.00	0.00
18,400.0	90.00	359.59	12,500.0	5,398.6	796.3	5,444.3	0.00	0.00	0.00
18,500.0	90.00	359.59	12,500.0	5,498.6	795.6	5,543.9	0.00	0.00	0.00
18,600.0	90.00	359.59	12,500.0	5,598.6	794.9	5,643.5	0.00	0.00	0.00
18,700.0	90.00	359.59	12,500.0	5,698.6	794.1	5,743.2	0.00	0.00	0.00

eog resources

EOG Resources

Planning Report

Database:	EDM	**Local Co-ordinate Reference:**	Well #705H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3357.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3357.0usft
Site:	Vaca 24 Fed Com	**North Reference:**	Grid
Well:	#705H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,800.0	90.00	359.59	12,500.0	5,798.6	793.4	5,842.8	0.00	0.00	0.00
18,900.0	90.00	359.59	12,500.0	5,898.6	792.7	5,942.4	0.00	0.00	0.00
19,000.0	90.00	359.59	12,500.0	5,998.6	792.0	6,042.1	0.00	0.00	0.00
19,100.0	90.00	359.59	12,500.0	6,098.6	791.3	6,141.7	0.00	0.00	0.00
19,200.0	90.00	359.59	12,500.0	6,198.6	790.5	6,241.4	0.00	0.00	0.00
19,300.0	90.00	359.59	12,500.0	6,298.6	789.8	6,341.0	0.00	0.00	0.00
19,400.0	90.00	359.59	12,500.0	6,398.6	789.1	6,440.6	0.00	0.00	0.00
19,500.0	90.00	359.59	12,500.0	6,498.6	788.4	6,540.3	0.00	0.00	0.00
19,600.0	90.00	359.59	12,500.0	6,598.6	787.7	6,639.9	0.00	0.00	0.00
19,700.0	90.00	359.59	12,500.0	6,698.6	787.0	6,739.5	0.00	0.00	0.00
19,800.0	90.00	359.59	12,500.0	6,798.6	786.2	6,839.2	0.00	0.00	0.00
19,900.0	90.00	359.59	12,500.0	6,898.6	785.5	6,938.8	0.00	0.00	0.00
20,000.0	90.00	359.59	12,500.0	6,998.6	784.8	7,038.5	0.00	0.00	0.00
20,100.0	90.00	359.59	12,500.0	7,098.6	784.1	7,138.1	0.00	0.00	0.00
20,200.0	90.00	359.59	12,500.0	7,198.6	783.4	7,237.7	0.00	0.00	0.00
20,249.4	90.00	359.59	12,500.0	7,248.0	783.0	7,287.0	0.00	0.00	0.00
20,249.7	90.00	359.59	12,500.0	7,248.3	783.0	7,287.3	2.00	0.00	2.00
20,300.0	90.00	359.59	12,500.0	7,298.6	782.6	7,337.4	0.00	0.00	0.00
20,400.0	90.00	359.59	12,500.0	7,398.6	781.9	7,437.0	0.00	0.00	0.00
20,500.0	90.00	359.59	12,500.0	7,498.6	781.2	7,536.6	0.00	0.00	0.00
20,600.0	90.00	359.59	12,500.0	7,598.6	780.5	7,636.3	0.00	0.00	0.00
20,700.0	90.00	359.59	12,500.0	7,698.6	779.8	7,735.9	0.00	0.00	0.00
20,800.0	90.00	359.59	12,500.0	7,798.6	779.1	7,835.6	0.00	0.00	0.00
20,900.0	90.00	359.59	12,500.0	7,898.6	778.4	7,935.2	0.00	0.00	0.00
21,000.0	90.00	359.59	12,500.0	7,998.6	777.7	8,034.8	0.00	0.00	0.00
21,100.0	90.00	359.59	12,500.0	8,098.5	777.0	8,134.5	0.00	0.00	0.00
21,200.0	90.00	359.59	12,500.0	8,198.5	776.3	8,234.1	0.00	0.00	0.00
21,300.0	90.00	359.59	12,500.0	8,298.5	775.6	8,333.7	0.00	0.00	0.00
21,400.0	90.00	359.59	12,500.0	8,398.5	774.8	8,433.4	0.00	0.00	0.00
21,500.0	90.00	359.59	12,500.0	8,498.5	774.1	8,533.0	0.00	0.00	0.00
21,600.0	90.00	359.59	12,500.0	8,598.5	773.4	8,632.7	0.00	0.00	0.00
21,700.0	90.00	359.59	12,500.0	8,698.5	772.7	8,732.3	0.00	0.00	0.00
21,800.0	90.00	359.59	12,500.0	8,798.5	772.0	8,831.9	0.00	0.00	0.00
21,900.0	90.00	359.59	12,500.0	8,898.5	771.3	8,931.6	0.00	0.00	0.00
22,000.0	90.00	359.59	12,500.0	8,998.5	770.6	9,031.2	0.00	0.00	0.00
22,100.0	90.00	359.59	12,500.0	9,098.5	769.9	9,130.9	0.00	0.00	0.00
22,200.0	90.00	359.59	12,500.0	9,198.5	769.2	9,230.5	0.00	0.00	0.00
22,300.0	90.00	359.59	12,500.0	9,298.5	768.5	9,330.1	0.00	0.00	0.00
22,400.0	90.00	359.59	12,500.0	9,398.5	767.8	9,429.8	0.00	0.00	0.00
22,500.0	90.00	359.59	12,500.0	9,498.5	767.0	9,529.4	0.00	0.00	0.00
22,600.0	90.00	359.59	12,500.0	9,598.5	766.3	9,629.0	0.00	0.00	0.00
22,700.0	90.00	359.59	12,500.0	9,698.5	765.6	9,728.7	0.00	0.00	0.00
22,788.5	90.00	359.59	12,500.0	9,787.0	765.0	9,816.9	0.00	0.00	0.00

EOG Resources
Planning Report

Database:	EDM	**Local Co-ordinate Reference:**	Well #705H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3357.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3357.0usft
Site:	Vaca 24 Fed Com	**North Reference:**	Grid
Well:	#705H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP(Vaca 24 Fed Com - plan hits target center - Point	0.00	0.00	12,022.5	-623.0	839.0	404,293.00	791,623.00	32° 6' 32.043 N	103° 31' 29.944 W
Fed Perf 2(Vaca 24 Fed - plan hits target center - Point	0.00	0.00	12,500.0	7,248.0	783.0	412,164.00	791,567.00	32° 7' 49.933 N	103° 31' 29.909 W
PBHL(Vaca 24 Fed Com - plan hits target center - Point	0.00	0.00	12,500.0	9,787.0	765.0	414,703.00	791,549.00	32° 8' 15.058 N	103° 31' 29.897 W
FTP(Vaca 24 Fed Com # - plan misses target center by 163.4usft at 12505.2usft MD (12377.0 TVD, -465.4 N, 837.9 E) - Point	0.00	0.00	12,500.0	-573.0	839.0	404,343.00	791,623.00	32° 6' 32.538 N	103° 31' 29.940 W
Fed Perf 1(Vaca 24 Fed - plan hits target center - Point	0.00	0.00	12,500.0	4,607.0	802.0	409,523.00	791,586.00	32° 7' 23.798 N	103° 31' 29.918 W

Released to Imaging: 2/14/2021 4:44:07 PM

Received by OCD: 2/9/2021 2:56:43 PM

eog resources

Lea County, NM (NAD 83 NME)

Vaca 24 Fed Com #705H

Plan #0.1

Azimuths to Grid North
True North: -0.43°
Magnetic North: 6.27°

Magnetic Field
Strength: 47664.7nT
Dip Angle: 59.94°
Date: 7/8/2019
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.27°
To convert a Magnetic Direction to a True Direction, Add 6.70° East
To convert a True Direction to a Grid Direction, Subtract 0.43°

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: #705H

3332.0
KB = 25 @ 3357.0usft

Northing	Easting	Latittude	Longitude
404916.00	790784.00	32° 6' 38.270 N	103° 31' 39.644 W

SECTION DETAILS

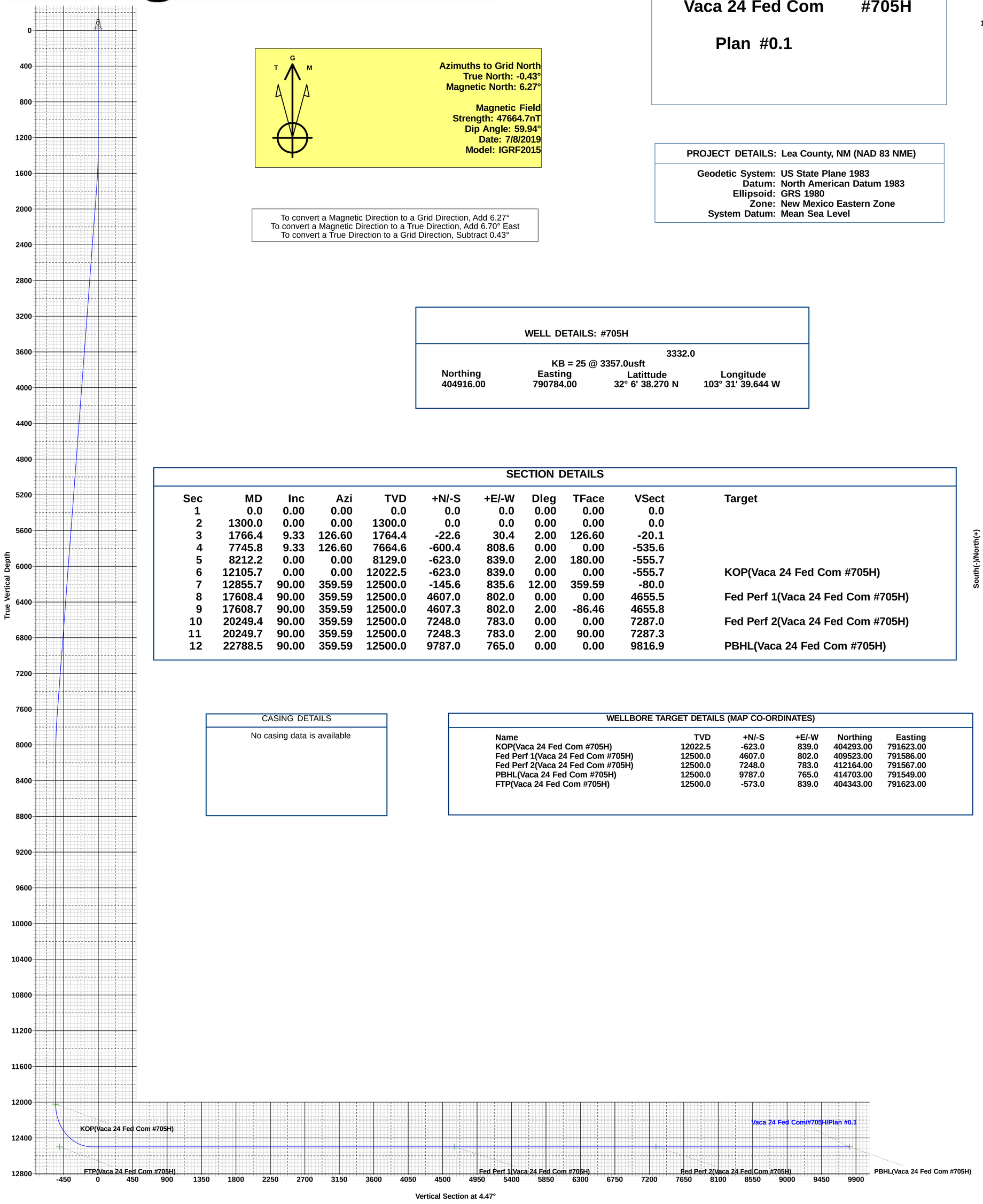
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1300.0	0.00	0.00	1300.0	0.0	0.0	0.00	0.00	0.0	
3	1766.4	9.33	126.60	1764.4	-22.6	30.4	2.00	126.60	-20.1	
4	7745.8	9.33	126.60	7664.6	-600.4	808.6	0.00	0.00	-535.6	
5	8212.2	0.00	0.00	8129.0	-623.0	839.0	2.00	180.00	-555.7	
6	12105.7	0.00	0.00	12022.5	-623.0	839.0	0.00	0.00	-555.7	KOP(Vaca 24 Fed Com #705H)
7	12855.7	90.00	359.59	12500.0	-145.6	835.6	12.00	359.59	-80.0	
8	17608.4	90.00	359.59	12500.0	4607.0	802.0	0.00	0.00	4655.5	Fed Perf 1(Vaca 24 Fed Com #705H)
9	17608.7	90.00	359.59	12500.0	4607.3	802.0	2.00	-86.46	4655.8	
10	20249.4	90.00	359.59	12500.0	7248.0	783.0	0.00	0.00	7287.0	Fed Perf 2(Vaca 24 Fed Com #705H)
11	20249.7	90.00	359.59	12500.0	7248.3	783.0	2.00	90.00	7287.3	
12	22788.5	90.00	359.59	12500.0	9787.0	765.0	0.00	0.00	9816.9	PBHL(Vaca 24 Fed Com #705H)

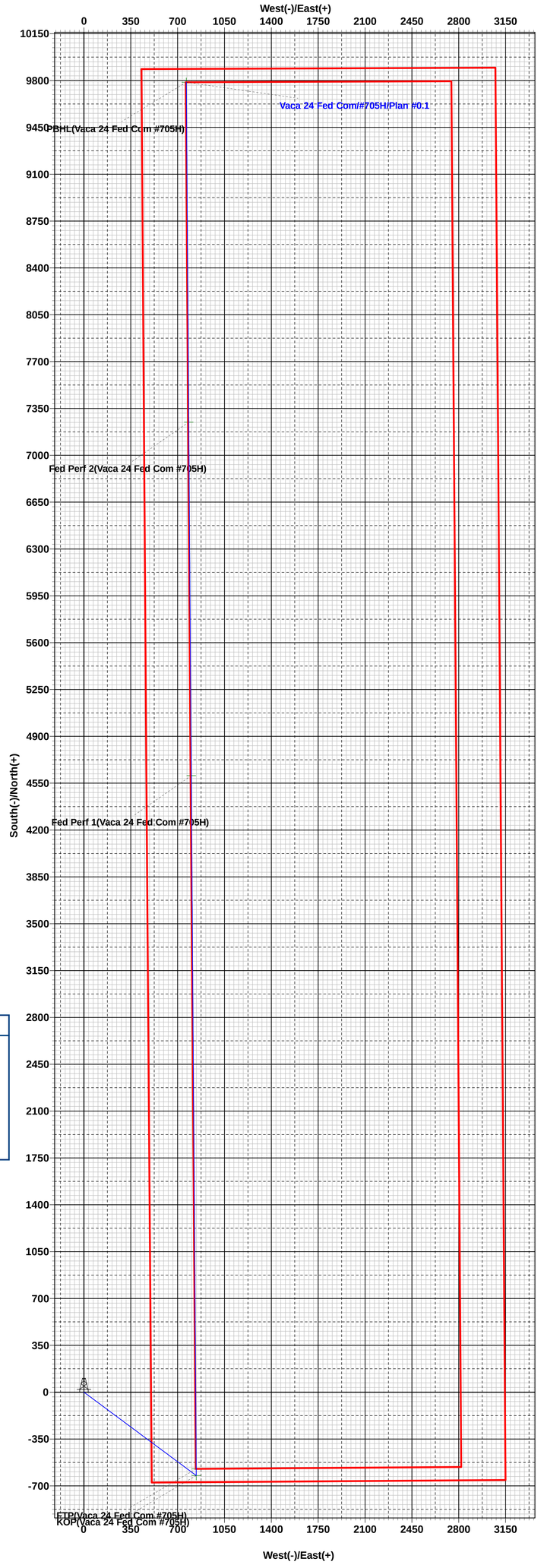
CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Vaca 24 Fed Com #705H)	12022.5	-623.0	839.0	404293.00	791623.00
Fed Perf 1(Vaca 24 Fed Com #705H)	12500.0	4607.0	802.0	409523.00	791586.00
Fed Perf 2(Vaca 24 Fed Com #705H)	12500.0	7248.0	783.0	412164.00	791567.00
PBHL(Vaca 24 Fed Com #705H)	12500.0	9787.0	765.0	414703.00	791549.00
FTP(Vaca 24 Fed Com #705H)	12500.0	-573.0	839.0	404343.00	791623.00





Lea County, NM (NAD 83 NME)
Vaca 24 Fed Com
#705H
OH
Plan #0.1
14:23, January 06 2021

Released to Imaging: 2/14/2021 4:44:07 PM

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

CONDITIONS

Action 17607

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
EOG RESOURCES INC	P.O. Box 2267	Midland, TX79702	7377	17607	C-103A

OCD Reviewer	Condition
pkautz	None