Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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.

SUBMIT IN TRIPLICATE - Other instructions on page 2

5. Lease Serial No.
NMNM15317

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
VALIANT 24 FED COM 742H

2. Name of Operator
EOG RESOURCES INCORPORATED
Contact: EMILY FOLLIS
E-Mail: emily_follis@eogresources.com

9. API Well No.
30-025-46567-00-X1

3a. Address
PO BOX 2267
MIDLAND, TX 79702

3b. Phone No. (include area code)
Ph: 432-636-3600

10. Field and Pool or Exploratory Area
PERMIAN

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 24 T25S R32E NESW 2158FSL 1403FWL
32.114704 N Lat, 103.632545 W Lon

11. County or Parish, State
LEA COUNTY, NM

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 to Original APD
	☐ 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 recomplete 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 performed 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 determined that the site is ready for final inspection.

EOG respectfully requests an amendment to our approved APD for this well to reflect the following changes:
Change well number from 602H to 742H
Change target formation from Third Bone Spring Sand to Wolfcamp
BHL change to T-25-S R-32-E Sec. 25 100 feet FSL 1550 feet FWL, Lea Co., NM

HOBBS OCD
FEB 03 2020
RECEIVED

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #500489 verified by the BLM Well Information System
For EOG RESOURCES INCORPORATED, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 01/24/2020 (20PP1064SE)

Name *(Printed/Typed)* BEN HOCHER — Title REGULATORY ASSOC.

Signature (Electronic Submission) — Date 01/23/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JEROMY PORTER — Title PETROLEUM ENGINEER — Date 01/30/2020

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 Hobbs

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)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Revised Permit Information 1/14/2020:

Well Name: Valiant 24 Fed Com #742H

Location:
SHL: 2158' FSL & 1403' FWL, Section 24, T-25-S, R-32-E, Lea Co., N.M.
BHL: 100' FSL & 1550' FWL, Section 25, T-25-S, R-32-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' – 1,045'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75"	0' – 11,180'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0' – 10,680'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60
6.75"	10,680'–11,180'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60
6.75"	11,180' – 20,358'	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.

EOG also requests to retain the option to utilize the previously permitted 4 string design, to be referred to as Design B.

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft^3/sk	Slurry Description
1,045' 9-5/8"	960	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 @ 845')
11,180' 7-5/8"	430	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 7,500')
	1,000	12.7	2.30	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
20,358' 5-1/2"	780	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,680')

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 also requests variance for the option to perform this cement procedure on Design B in the 7-5/8" 2nd Intermediate casing string as a contingency plan.

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:

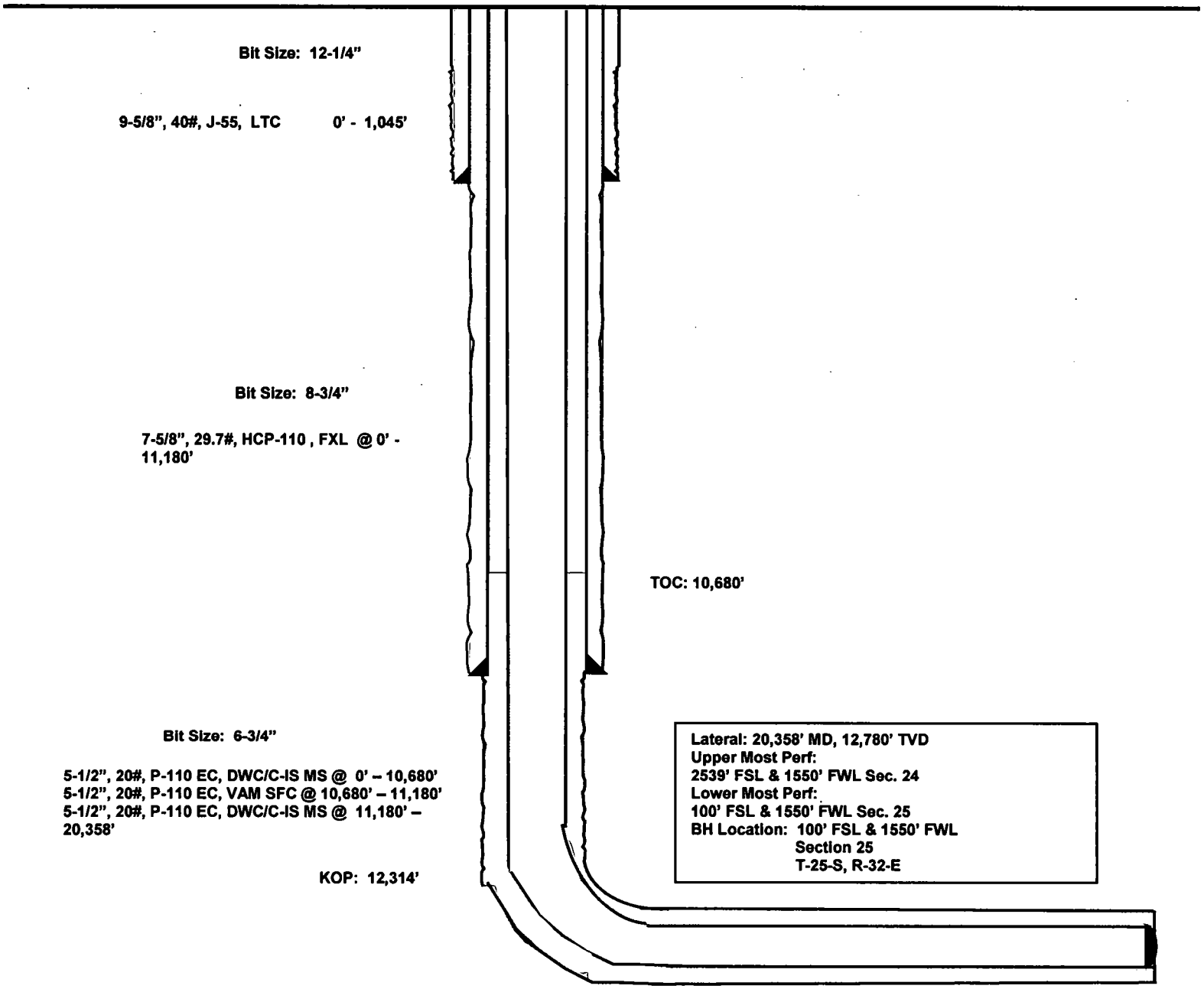
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,045'	Fresh - Gel	8.6-8.8	28-34	N/c
1,045' – 11,180'	Brine	10.0-10.2	28-34	N/c
11,180' – 12,314'	Oil Base	8.7-9.4	58-68	N/c - 6
12,314' – 20,358' Lateral	Oil Base	10.0-14.0	58-68	3 - 6

2158' FSL
1403' FWL
Section 24
T-25-S, R-32-E

Revised Wellbore
Design A

API: 30-025-46567

KB: 3,472'
GL: 3,447'



eog resources

EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Valiant 24 Fed Com
#742H

OH

Plan: Plan #0.1

Standard Planning Report

20 January, 2020

Database:	EDM	**Local Co-ordinate Reference:**	Well #742H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 2 @ 3472.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 2 @ 3472.0usft
Site:	Valiant 24 Fed Com	**North Reference:**	Grid
Well:	#742H	**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	Valiant 24 Fed Com				
Site Position:		**Northing:**	406,151.00 usft	**Latitude:**	32° 6' 52.620 N
From:	Map	**Easting:**	760,107.00 usft	**Longitude:**	103° 37' 36.212 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.38 °

Well	#742H				
Well Position	**+N/-S**	20.0 usft	**Northing:**	406,171.00 usft	**Latitude:**	32° 6' 52.935 N
	+E/-W	-1,803.0 usft	**Easting:**	758,304.00 usft	**Longitude:**	103° 37' 57.174 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,447.0 usft

Wellbore	OH				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	1/22/2019	6.80	59.93	47,702.33360375

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	178.48	

Plan Survey Tool Program **Date** 1/20/2020

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,357.5	Plan #0.1 (OH)	MWD	
				OWSG MWD - Standard	

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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,142.6	2.85	18.40	3,142.5	3.4	1.1	2.00	2.00	0.00	18.40	
12,171.2	2.85	18.40	12,160.0	429.6	142.9	0.00	0.00	0.00	0.00	
12,313.8	0.00	0.00	12,302.5	433.0	144.0	2.00	-2.00	0.00	180.00	KOP(VAL 24 FC #602
13,063.8	90.00	179.62	12,780.0	-44.5	147.1	12.00	12.00	23.95	179.62	
20,357.5	90.00	179.62	12,780.0	-7,338.0	195.0	0.00	0.00	0.00	0.00	PBHL(VAL 24 FC #60

Database:	EDM	**Local Co-ordinate Reference:**	Well #742H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 2 @ 3472.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 2 @ 3472.0usft
Site:	Valiant 24 Fed Com	**North Reference:**	Grid
Well:	#742H	**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	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	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	2.00	18.40	3,100.0	1.7	0.6	-1.6	2.00	2.00	0.00
3,142.6	2.85	18.40	3,142.5	3.4	1.1	-3.3	2.00	2.00	0.00
3,200.0	2.85	18.40	3,199.9	6.1	2.0	-6.0	0.00	0.00	0.00
3,300.0	2.85	18.40	3,299.7	10.8	3.6	-10.7	0.00	0.00	0.00
3,400.0	2.85	18.40	3,399.6	15.5	5.2	-15.4	0.00	0.00	0.00
3,500.0	2.85	18.40	3,499.5	20.2	6.7	-20.1	0.00	0.00	0.00
3,600.0	2.85	18.40	3,599.4	25.0	8.3	-24.7	0.00	0.00	0.00
3,700.0	2.85	18.40	3,699.3	29.7	9.9	-29.4	0.00	0.00	0.00
3,800.0	2.85	18.40	3,799.1	34.4	11.4	-34.1	0.00	0.00	0.00
3,900.0	2.85	18.40	3,899.0	39.1	13.0	-38.8	0.00	0.00	0.00
4,000.0	2.85	18.40	3,998.9	43.8	14.6	-43.4	0.00	0.00	0.00
4,100.0	2.85	18.40	4,098.8	48.6	16.2	-48.1	0.00	0.00	0.00
4,200.0	2.85	18.40	4,198.6	53.3	17.7	-52.8	0.00	0.00	0.00
4,300.0	2.85	18.40	4,298.5	58.0	19.3	-57.5	0.00	0.00	0.00
4,400.0	2.85	18.40	4,398.4	62.7	20.9	-62.2	0.00	0.00	0.00
4,500.0	2.85	18.40	4,498.3	67.5	22.4	-66.8	0.00	0.00	0.00
4,600.0	2.85	18.40	4,598.1	72.2	24.0	-71.5	0.00	0.00	0.00
4,700.0	2.85	18.40	4,698.0	76.9	25.6	-76.2	0.00	0.00	0.00
4,800.0	2.85	18.40	4,797.9	81.6	27.1	-80.9	0.00	0.00	0.00
4,900.0	2.85	18.40	4,897.8	86.3	28.7	-85.5	0.00	0.00	0.00
5,000.0	2.85	18.40	4,997.6	91.1	30.3	-90.2	0.00	0.00	0.00
5,100.0	2.85	18.40	5,097.5	95.8	31.9	-94.9	0.00	0.00	0.00
5,200.0	2.85	18.40	5,197.4	100.5	33.4	-99.6	0.00	0.00	0.00

Database:	EDM	**Local Co-ordinate Reference:**	Well #742H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 2 @ 3472.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 2 @ 3472.0usft
Site:	Valiant 24 Fed Com	**North Reference:**	Grid
Well:	#742H	**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)
5,300.0	2.85	18.40	5,297.3	105.2	35.0	-104.3	0.00	0.00	0.00
5,400.0	2.85	18.40	5,397.1	109.9	36.6	-108.9	0.00	0.00	0.00
5,500.0	2.85	18.40	5,497.0	114.7	38.1	-113.6	0.00	0.00	0.00
5,600.0	2.85	18.40	5,596.9	119.4	39.7	-118.3	0.00	0.00	0.00
5,700.0	2.85	18.40	5,696.8	124.1	41.3	-123.0	0.00	0.00	0.00
5,800.0	2.85	18.40	5,796.6	128.8	42.8	-127.6	0.00	0.00	0.00
5,900.0	2.85	18.40	5,896.5	133.6	44.4	-132.3	0.00	0.00	0.00
6,000.0	2.85	18.40	5,996.4	138.3	46.0	-137.0	0.00	0.00	0.00
6,100.0	2.85	18.40	6,096.3	143.0	47.6	-141.7	0.00	0.00	0.00
6,200.0	2.85	18.40	6,196.2	147.7	49.1	-146.4	0.00	0.00	0.00
6,300.0	2.85	18.40	6,296.0	152.4	50.7	-151.0	0.00	0.00	0.00
6,400.0	2.85	18.40	6,395.9	157.2	52.3	-155.7	0.00	0.00	0.00
6,500.0	2.85	18.40	6,495.8	161.9	53.8	-160.4	0.00	0.00	0.00
6,600.0	2.85	18.40	6,595.7	166.6	55.4	-165.1	0.00	0.00	0.00
6,700.0	2.85	18.40	6,695.5	171.3	57.0	-169.7	0.00	0.00	0.00
6,800.0	2.85	18.40	6,795.4	176.0	58.5	-174.4	0.00	0.00	0.00
6,900.0	2.85	18.40	6,895.3	180.8	60.1	-179.1	0.00	0.00	0.00
7,000.0	2.85	18.40	6,995.2	185.5	61.7	-183.8	0.00	0.00	0.00
7,100.0	2.85	18.40	7,095.0	190.2	63.3	-188.5	0.00	0.00	0.00
7,200.0	2.85	18.40	7,194.9	194.9	64.8	-193.1	0.00	0.00	0.00
7,300.0	2.85	18.40	7,294.8	199.6	66.4	-197.8	0.00	0.00	0.00
7,400.0	2.85	18.40	7,394.7	204.4	68.0	-202.5	0.00	0.00	0.00
7,500.0	2.85	18.40	7,494.5	209.1	69.5	-207.2	0.00	0.00	0.00
7,600.0	2.85	18.40	7,594.4	213.8	71.1	-211.8	0.00	0.00	0.00
7,700.0	2.85	18.40	7,694.3	218.5	72.7	-216.5	0.00	0.00	0.00
7,800.0	2.85	18.40	7,794.2	223.3	74.2	-221.2	0.00	0.00	0.00
7,900.0	2.85	18.40	7,894.0	228.0	75.8	-225.9	0.00	0.00	0.00
8,000.0	2.85	18.40	7,993.9	232.7	77.4	-230.6	0.00	0.00	0.00
8,100.0	2.85	18.40	8,093.8	237.4	79.0	-235.2	0.00	0.00	0.00
8,200.0	2.85	18.40	8,193.7	242.1	80.5	-239.9	0.00	0.00	0.00
8,300.0	2.85	18.40	8,293.6	246.9	82.1	-244.6	0.00	0.00	0.00
8,400.0	2.85	18.40	8,393.4	251.6	83.7	-249.3	0.00	0.00	0.00
8,500.0	2.85	18.40	8,493.3	256.3	85.2	-254.0	0.00	0.00	0.00
8,600.0	2.85	18.40	8,593.2	261.0	86.8	-258.6	0.00	0.00	0.00
8,700.0	2.85	18.40	8,693.1	265.7	88.4	-263.3	0.00	0.00	0.00
8,800.0	2.85	18.40	8,792.9	270.5	89.9	-268.0	0.00	0.00	0.00
8,900.0	2.85	18.40	8,892.8	275.2	91.5	-272.7	0.00	0.00	0.00
9,000.0	2.85	18.40	8,992.7	279.9	93.1	-277.3	0.00	0.00	0.00
9,100.0	2.85	18.40	9,092.6	284.6	94.7	-282.0	0.00	0.00	0.00
9,200.0	2.85	18.40	9,192.4	289.4	96.2	-286.7	0.00	0.00	0.00
9,300.0	2.85	18.40	9,292.3	294.1	97.8	-291.4	0.00	0.00	0.00
9,400.0	2.85	18.40	9,392.2	298.8	99.4	-296.1	0.00	0.00	0.00
9,500.0	2.85	18.40	9,492.1	303.5	100.9	-300.7	0.00	0.00	0.00
9,600.0	2.85	18.40	9,591.9	308.2	102.5	-305.4	0.00	0.00	0.00
9,700.0	2.85	18.40	9,691.8	313.0	104.1	-310.1	0.00	0.00	0.00
9,800.0	2.85	18.40	9,791.7	317.7	105.6	-314.8	0.00	0.00	0.00
9,900.0	2.85	18.40	9,891.6	322.4	107.2	-319.4	0.00	0.00	0.00
10,000.0	2.85	18.40	9,991.4	327.1	108.8	-324.1	0.00	0.00	0.00
10,100.0	2.85	18.40	10,091.3	331.8	110.4	-328.8	0.00	0.00	0.00
10,200.0	2.85	18.40	10,191.2	336.6	111.9	-333.5	0.00	0.00	0.00
10,300.0	2.85	18.40	10,291.1	341.3	113.5	-338.2	0.00	0.00	0.00
10,400.0	2.85	18.40	10,391.0	346.0	115.1	-342.8	0.00	0.00	0.00
10,500.0	2.85	18.40	10,490.8	350.7	116.6	-347.5	0.00	0.00	0.00
10,600.0	2.85	18.40	10,590.7	355.5	118.2	-352.2	0.00	0.00	0.00

Database:	EDM	**Local Co-ordinate Reference:**	Well #742H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 2 @ 3472.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 2 @ 3472.0usft
Site:	Valiant 24 Fed Com	**North Reference:**	Grid
Well:	#742H	**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)
10,700.0	2.85	18.40	10,690.6	360.2	119.8	-356.9	0.00	0.00	0.00
10,800.0	2.85	18.40	10,790.5	364.9	121.4	-361.5	0.00	0.00	0.00
10,900.0	2.85	18.40	10,890.3	369.6	122.9	-366.2	0.00	0.00	0.00
11,000.0	2.85	18.40	10,990.2	374.3	124.5	-370.9	0.00	0.00	0.00
11,100.0	2.85	18.40	11,090.1	379.1	126.1	-375.6	0.00	0.00	0.00
11,200.0	2.85	18.40	11,190.0	383.8	127.6	-380.3	0.00	0.00	0.00
11,300.0	2.85	18.40	11,289.8	388.5	129.2	-384.9	0.00	0.00	0.00
11,400.0	2.85	18.40	11,389.7	393.2	130.8	-389.6	0.00	0.00	0.00
11,500.0	2.85	18.40	11,489.6	397.9	132.3	-394.3	0.00	0.00	0.00
11,600.0	2.85	18.40	11,589.5	402.7	133.9	-399.0	0.00	0.00	0.00
11,700.0	2.85	18.40	11,689.3	407.4	135.5	-403.6	0.00	0.00	0.00
11,800.0	2.85	18.40	11,789.2	412.1	137.1	-408.3	0.00	0.00	0.00
11,900.0	2.85	18.40	11,889.1	416.8	138.6	-413.0	0.00	0.00	0.00
12,000.0	2.85	18.40	11,989.0	421.6	140.2	-417.7	0.00	0.00	0.00
12,100.0	2.85	18.40	12,088.8	426.3	141.8	-422.4	0.00	0.00	0.00
12,171.2	2.85	18.40	12,160.0	429.6	142.9	-425.7	0.00	0.00	0.00
12,200.0	2.28	18.40	12,188.7	430.9	143.3	-426.9	2.00	-2.00	0.00
12,300.0	0.28	18.40	12,288.7	433.0	144.0	-429.0	2.00	-2.00	0.00
12,313.8	0.00	0.00	12,302.5	433.0	144.0	-429.0	2.00	-2.00	0.00
12,325.0	1.34	179.62	12,313.7	432.9	144.0	-428.9	12.00	12.00	0.00
12,350.0	4.34	179.62	12,338.7	431.6	144.0	-427.7	12.00	12.00	0.00
12,375.0	7.34	179.62	12,363.5	429.1	144.0	-425.1	12.00	12.00	0.00
12,400.0	10.34	179.62	12,388.2	425.2	144.1	-421.3	12.00	12.00	0.00
12,425.0	13.34	179.62	12,412.7	420.1	144.1	-416.1	12.00	12.00	0.00
12,450.0	16.34	179.62	12,436.9	413.7	144.1	-409.7	12.00	12.00	0.00
12,475.0	19.34	179.62	12,460.7	406.0	144.2	-402.1	12.00	12.00	0.00
12,500.0	22.34	179.62	12,484.0	397.2	144.2	-393.2	12.00	12.00	0.00
12,525.0	25.34	179.62	12,506.9	387.0	144.3	-383.1	12.00	12.00	0.00
12,550.0	28.34	179.62	12,529.2	375.8	144.4	-371.8	12.00	12.00	0.00
12,575.0	31.34	179.62	12,550.9	363.3	144.5	-359.4	12.00	12.00	0.00
12,600.0	34.34	179.62	12,571.9	349.8	144.5	-345.8	12.00	12.00	0.00
12,625.0	37.34	179.62	12,592.1	335.1	144.6	-331.2	12.00	12.00	0.00
12,650.0	40.34	179.62	12,611.6	319.4	144.7	-315.5	12.00	12.00	0.00
12,675.0	43.34	179.62	12,630.2	302.8	144.9	-298.8	12.00	12.00	0.00
12,700.0	46.34	179.62	12,647.9	285.1	145.0	-281.2	12.00	12.00	0.00
12,725.0	49.34	179.62	12,664.7	266.6	145.1	-262.7	12.00	12.00	0.00
12,750.0	52.34	179.62	12,680.5	247.2	145.2	-243.3	12.00	12.00	0.00
12,775.0	55.34	179.62	12,695.3	227.0	145.4	-223.1	12.00	12.00	0.00
12,800.0	58.34	179.62	12,708.9	206.1	145.5	-202.2	12.00	12.00	0.00
12,825.0	61.34	179.62	12,721.5	184.5	145.6	-180.6	12.00	12.00	0.00
12,850.0	64.34	179.62	12,732.9	162.3	145.8	-158.3	12.00	12.00	0.00
12,875.0	67.34	179.62	12,743.1	139.5	145.9	-135.5	12.00	12.00	0.00
12,900.0	70.34	179.62	12,752.1	116.1	146.1	-112.2	12.00	12.00	0.00
12,925.0	73.34	179.62	12,759.9	92.4	146.2	-88.5	12.00	12.00	0.00
12,950.0	76.34	179.62	12,766.5	68.3	146.4	-64.4	12.00	12.00	0.00
12,975.0	79.34	179.62	12,771.7	43.8	146.6	-39.9	12.00	12.00	0.00
13,000.0	82.34	179.62	12,775.7	19.2	146.7	-15.3	12.00	12.00	0.00
13,025.0	85.34	179.62	12,778.4	-5.7	146.9	9.6	12.00	12.00	0.00
13,050.0	88.34	179.62	12,779.8	-30.7	147.0	34.6	12.00	12.00	0.00
13,063.8	90.00	179.62	12,780.0	-44.5	147.1	48.3	12.00	12.00	0.00
13,100.0	90.00	179.62	12,780.0	-80.7	147.4	84.5	0.00	0.00	0.00
13,200.0	90.00	179.62	12,780.0	-180.7	148.0	184.5	0.00	0.00	0.00
13,300.0	90.00	179.62	12,780.0	-280.6	148.7	284.5	0.00	0.00	0.00
13,400.0	90.00	179.62	12,780.0	-380.6	149.3	384.5	0.00	0.00	0.00

Database:	EDM	**Local Co-ordinate Reference:**	Well #742H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 2 @ 3472.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 2 @ 3472.0usft
Site:	Valiant 24 Fed Com	**North Reference:**	Grid
Well:	#742H	**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	179.62	12,780.0	-480.6	150.0	484.5	0.00	0.00	0.00
13,600.0	90.00	179.62	12,780.0	-580.6	150.7	584.4	0.00	0.00	0.00
13,700.0	90.00	179.62	12,780.0	-680.6	151.3	684.4	0.00	0.00	0.00
13,800.0	90.00	179.62	12,780.0	-780.6	152.0	784.4	0.00	0.00	0.00
13,900.0	90.00	179.62	12,780.0	-880.6	152.6	884.4	0.00	0.00	0.00
14,000.0	90.00	179.62	12,780.0	-980.6	153.3	984.4	0.00	0.00	0.00
14,100.0	90.00	179.62	12,780.0	-1,080.6	153.9	1,084.3	0.00	0.00	0.00
14,200.0	90.00	179.62	12,780.0	-1,180.6	154.6	1,184.3	0.00	0.00	0.00
14,300.0	90.00	179.62	12,780.0	-1,280.6	155.2	1,284.3	0.00	0.00	0.00
14,400.0	90.00	179.62	12,780.0	-1,380.6	155.9	1,384.3	0.00	0.00	0.00
14,500.0	90.00	179.62	12,780.0	-1,480.6	156.6	1,484.3	0.00	0.00	0.00
14,600.0	90.00	179.62	12,780.0	-1,580.6	157.2	1,584.2	0.00	0.00	0.00
14,700.0	90.00	179.62	12,780.0	-1,680.6	157.9	1,684.2	0.00	0.00	0.00
14,800.0	90.00	179.62	12,780.0	-1,780.6	158.5	1,784.2	0.00	0.00	0.00
14,900.0	90.00	179.62	12,780.0	-1,880.6	159.2	1,884.2	0.00	0.00	0.00
15,000.0	90.00	179.62	12,780.0	-1,980.6	159.8	1,984.2	0.00	0.00	0.00
15,100.0	90.00	179.62	12,780.0	-2,080.6	160.5	2,084.1	0.00	0.00	0.00
15,200.0	90.00	179.62	12,780.0	-2,180.6	161.2	2,184.1	0.00	0.00	0.00
15,300.0	90.00	179.62	12,780.0	-2,280.6	161.8	2,284.1	0.00	0.00	0.00
15,400.0	90.00	179.62	12,780.0	-2,380.6	162.5	2,384.1	0.00	0.00	0.00
15,500.0	90.00	179.62	12,780.0	-2,480.6	163.1	2,484.1	0.00	0.00	0.00
15,600.0	90.00	179.62	12,780.0	-2,580.6	163.8	2,584.0	0.00	0.00	0.00
15,700.0	90.00	179.62	12,780.0	-2,680.6	164.4	2,684.0	0.00	0.00	0.00
15,800.0	90.00	179.62	12,780.0	-2,780.6	165.1	2,784.0	0.00	0.00	0.00
15,900.0	90.00	179.62	12,780.0	-2,880.6	165.7	2,884.0	0.00	0.00	0.00
16,000.0	90.00	179.62	12,780.0	-2,980.6	166.4	2,984.0	0.00	0.00	0.00
16,100.0	90.00	179.62	12,780.0	-3,080.6	167.1	3,083.9	0.00	0.00	0.00
16,200.0	90.00	179.62	12,780.0	-3,180.6	167.7	3,183.9	0.00	0.00	0.00
16,300.0	90.00	179.62	12,780.0	-3,280.6	168.4	3,283.9	0.00	0.00	0.00
16,400.0	90.00	179.62	12,780.0	-3,380.6	169.0	3,383.9	0.00	0.00	0.00
16,500.0	90.00	179.62	12,780.0	-3,480.6	169.7	3,483.9	0.00	0.00	0.00
16,600.0	90.00	179.62	12,780.0	-3,580.6	170.3	3,583.8	0.00	0.00	0.00
16,700.0	90.00	179.62	12,780.0	-3,680.6	171.0	3,683.8	0.00	0.00	0.00
16,800.0	90.00	179.62	12,780.0	-3,780.6	171.7	3,783.8	0.00	0.00	0.00
16,900.0	90.00	179.62	12,780.0	-3,880.6	172.3	3,883.8	0.00	0.00	0.00
17,000.0	90.00	179.62	12,780.0	-3,980.6	173.0	3,983.8	0.00	0.00	0.00
17,100.0	90.00	179.62	12,780.0	-4,080.6	173.6	4,083.7	0.00	0.00	0.00
17,200.0	90.00	179.62	12,780.0	-4,180.6	174.3	4,183.7	0.00	0.00	0.00
17,300.0	90.00	179.62	12,780.0	-4,280.6	174.9	4,283.7	0.00	0.00	0.00
17,400.0	90.00	179.62	12,780.0	-4,380.6	175.6	4,383.7	0.00	0.00	0.00
17,500.0	90.00	179.62	12,780.0	-4,480.6	176.2	4,483.7	0.00	0.00	0.00
17,600.0	90.00	179.62	12,780.0	-4,580.6	176.9	4,583.6	0.00	0.00	0.00
17,700.0	90.00	179.62	12,780.0	-4,680.6	177.6	4,683.6	0.00	0.00	0.00
17,800.0	90.00	179.62	12,780.0	-4,780.6	178.2	4,783.6	0.00	0.00	0.00
17,900.0	90.00	179.62	12,780.0	-4,880.6	178.9	4,883.6	0.00	0.00	0.00
18,000.0	90.00	179.62	12,780.0	-4,980.5	179.5	4,983.6	0.00	0.00	0.00
18,100.0	90.00	179.62	12,780.0	-5,080.5	180.2	5,083.5	0.00	0.00	0.00
18,200.0	90.00	179.62	12,780.0	-5,180.5	180.8	5,183.5	0.00	0.00	0.00
18,300.0	90.00	179.62	12,780.0	-5,280.5	181.5	5,283.5	0.00	0.00	0.00
18,400.0	90.00	179.62	12,780.0	-5,380.5	182.2	5,383.5	0.00	0.00	0.00
18,500.0	90.00	179.62	12,780.0	-5,480.5	182.8	5,483.5	0.00	0.00	0.00
18,600.0	90.00	179.62	12,780.0	-5,580.5	183.5	5,583.4	0.00	0.00	0.00
18,700.0	90.00	179.62	12,780.0	-5,680.5	184.1	5,683.4	0.00	0.00	0.00
18,800.0	90.00	179.62	12,780.0	-5,780.5	184.8	5,783.4	0.00	0.00	0.00

Database:	EDM	**Local Co-ordinate Reference:**	Well #742H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 2 @ 3472.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 2 @ 3472.0usft
Site:	Valiant 24 Fed Com	**North Reference:**	Grid
Well:	#742H	**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)
18,900.0	90.00	179.62	12,780.0	-5,880.5	185.4	5,883.4	0.00	0.00	0.00
19,000.0	90.00	179.62	12,780.0	-5,980.5	186.1	5,983.4	0.00	0.00	0.00
19,100.0	90.00	179.62	12,780.0	-6,080.5	186.7	6,083.3	0.00	0.00	0.00
19,200.0	90.00	179.62	12,780.0	-6,180.5	187.4	6,183.3	0.00	0.00	0.00
19,300.0	90.00	179.62	12,780.0	-6,280.5	188.1	6,283.3	0.00	0.00	0.00
19,400.0	90.00	179.62	12,780.0	-6,380.5	188.7	6,383.3	0.00	0.00	0.00
19,500.0	90.00	179.62	12,780.0	-6,480.5	189.4	6,483.3	0.00	0.00	0.00
19,600.0	90.00	179.62	12,780.0	-6,580.5	190.0	6,583.2	0.00	0.00	0.00
19,700.0	90.00	179.62	12,780.0	-6,680.5	190.7	6,683.2	0.00	0.00	0.00
19,800.0	90.00	179.62	12,780.0	-6,780.5	191.3	6,783.2	0.00	0.00	0.00
19,900.0	90.00	179.62	12,780.0	-6,880.5	192.0	6,883.2	0.00	0.00	0.00
20,000.0	90.00	179.62	12,780.0	-6,980.5	192.7	6,983.2	0.00	0.00	0.00
20,100.0	90.00	179.62	12,780.0	-7,080.5	193.3	7,083.1	0.00	0.00	0.00
20,200.0	90.00	179.62	12,780.0	-7,180.5	194.0	7,183.1	0.00	0.00	0.00
20,300.0	90.00	179.62	12,780.0	-7,280.5	194.6	7,283.1	0.00	0.00	0.00
20,357.5	90.00	179.62	12,780.0	-7,338.0	195.0	7,340.6	0.00	0.00	0.00

Design Targets

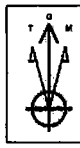
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP(VAL 24 FC #602H) - plan hits target center - Point	0.00	0.00	12,302.5	433.0	144.0	406,604.00	758,448.00	32° 6' 57.210 N	103° 37' 55.467 W
FTP(VAL 24 FC #602H) - plan misses target center by 163.4usft at 12716.1usft MD (12658.9 TVD, 273.3 N, 145.0 E) - Point	0.00	0.00	12,780.0	383.0	144.0	406,554.00	758,448.00	32° 6' 56.715 N	103° 37' 55.470 W
PBHL(VAL 24 FC #602H - plan hits target center - Point	0.00	0.00	12,780.0	-7,338.0	195.0	398,833.00	758,499.00	32° 5' 40.309 N	103° 37' 55.462 W

eog resources

Lea County, NM (NAD 83 NME)

Valiant 24 Fed Com #742H

Plan #0.1



Azimuths to Grid North
True North: -0.37°
Magnetic North: 6.43°

Magnetic Field
Strength: 47702.3nT
Dip Angle: 59.93°
Date: 1/22/2018
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.43°
To convert a Magnetic Direction to a True Direction, Add 6.80° East
To convert a True Direction to a Grid Direction, Subtract 0.37°

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: #742H

3447.0
KB = 2 @ 3472.0usft

Northing	Easting	Latitude	Longitude
406171.00	758304.00	32° 6' 52.935 N	103° 37' 57.174 W

SECTION DETAILS

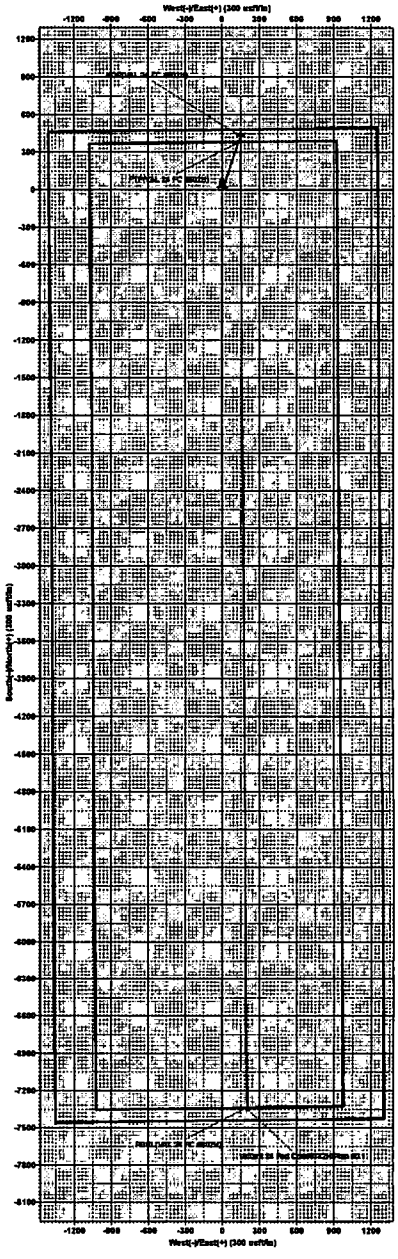
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3142.6	2.85	18.40	3142.5	3.4	1.1	2.00	18.40	-3.3	
4	12171.2	2.85	18.40	12160.0	429.6	142.9	0.00	0.00	-425.7	
5	12313.8	0.00	0.00	12302.5	433.0	144.0	2.00	180.00	-429.0	KOP(VAL 24 FC #802H)
6	13063.8	90.00	179.62	12780.0	-44.5	147.1	12.00	179.62	48.3	
7	20357.6	90.00	179.62	12780.0	-7338.0	195.0	0.00	0.00	7340.6	PBHL(VAL 24 FC #602H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(VAL 24 FC #802H)	12302.5	433.0	144.0	406604.00	758448.00
PBHL(VAL 24 FC #602H)	12780.0	-7338.0	195.0	398833.00	758499.00
FTP(VAL 24 FC #602H)	12780.0	383.0	144.0	406554.00	758448.00



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 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
30-025-46567	~~97903~~ 98180	WC-025 G-08 S253309P; UPR WOLFCAMP

[4] Property Code	[5] Property Name	[6] Well Number
325949	VALIANT 24 FED COM	742H

[7] OGRID No.	[8] Operator Name	[9] Elevation
7377	EOG RESOURCES, INC.	3447'

[10] Surface Location

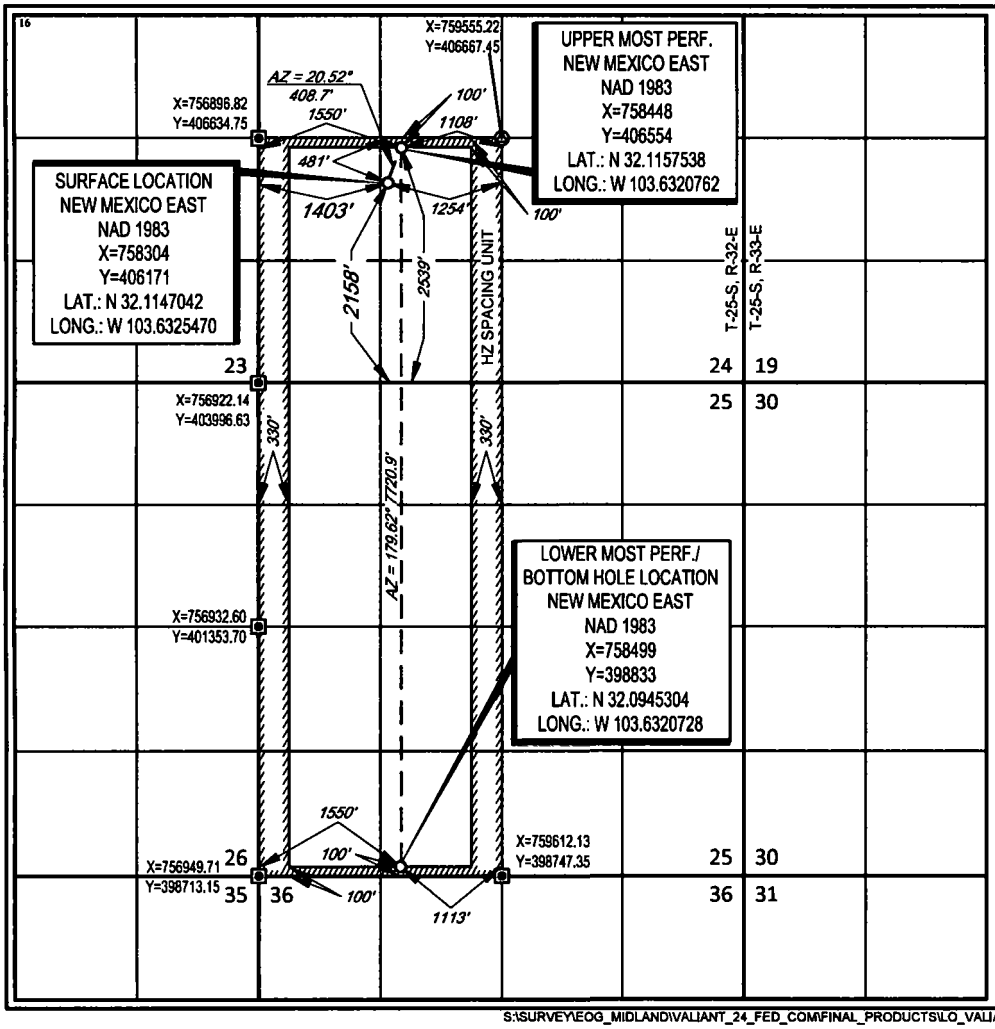
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	24	25-S	32-E	-	2158'	SOUTH	1403'	WEST	LEA

[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
N	25	25-S	32-E	-	100'	SOUTH	1550'	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
480.00			

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



[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 01/23/2020
Signature Date

EMILY FOLLIS
Printed Name

emily_follis@eogresources.com
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.

08/30/2018
Date of Survey
Signature and Seal of Professional Surveyor

RAMON A. DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

Certificate Number

S:\SURVEY\EOG_MIDLAND\VALIANT_24_FED_COM\FINAL_PRODUCTS\LO_VALIANT_24_FED_COM_742H_C-102.DWG 1/13/2020 11:45:48 AM rdominguez