

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

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-46567		² Pool Code 98180	³ Pool Name WC025 G09 S253309P; UPPER WOLFCAMP
⁴ Property Code 325949	⁵ Property Name VALIANT 24 FED COM		⁶ Well Number 742H
⁷ GRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.		⁹ Elevation 3447'

¹⁰Surface Location

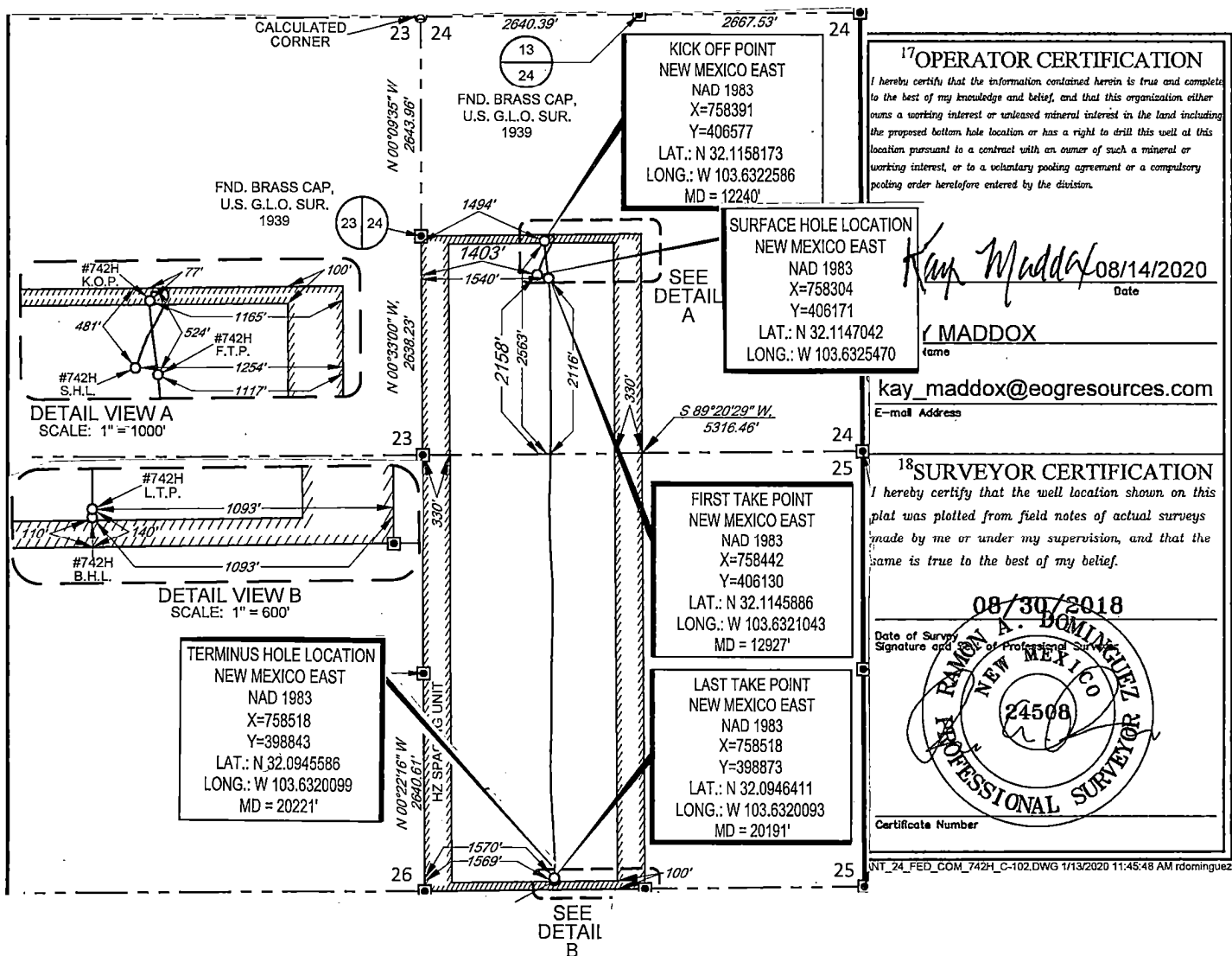
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	24	25-S	32-E	-	2158'	SOUTH	1403'	WEST	LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	25	25-S	32-E	-	110'	SOUTH	1569'	WEST	LEA

¹² Dedicated Acres 480.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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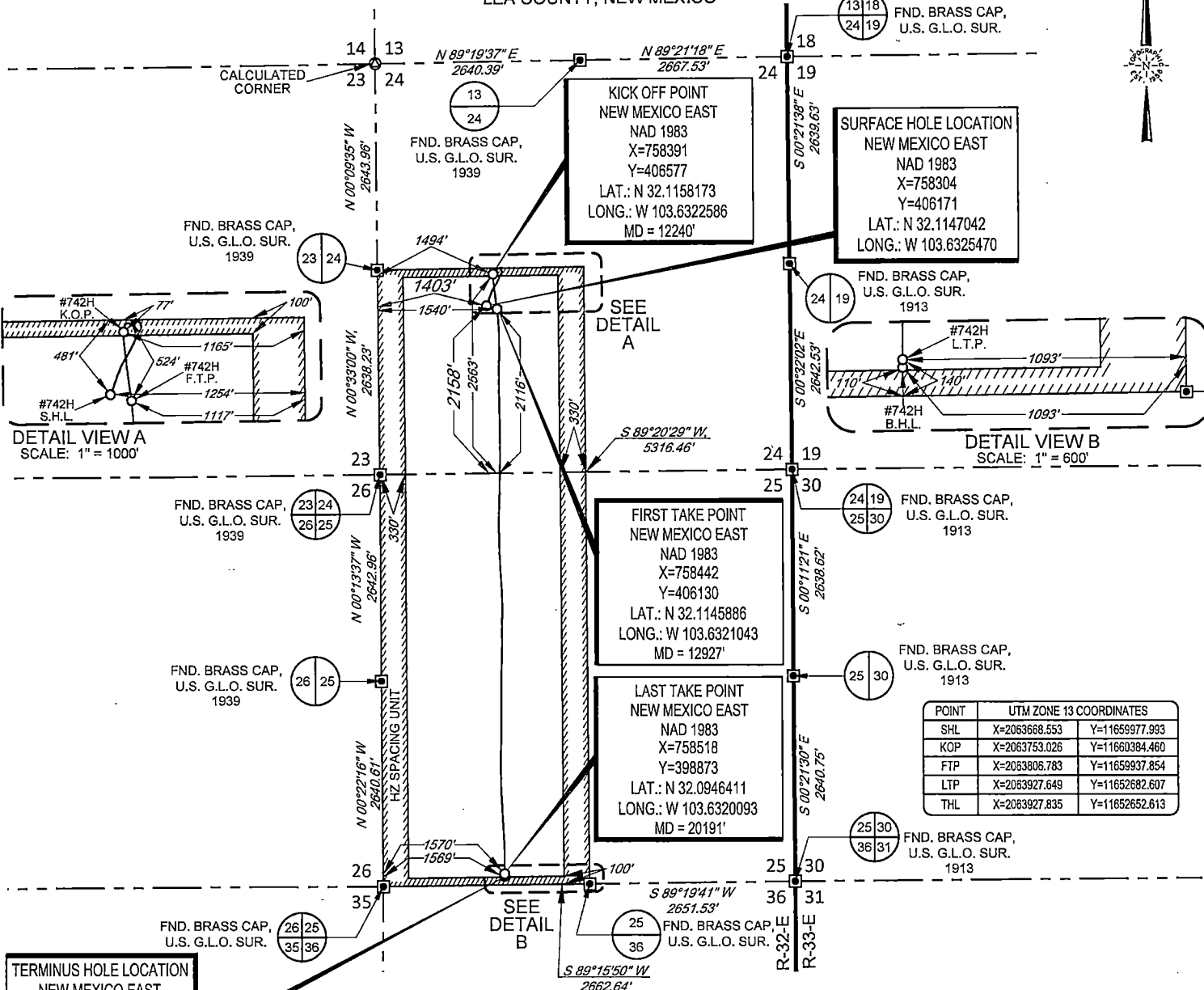
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



SECTION 24, TOWNSHIP 25-S, RANGE 32-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SCALE: 1" = 2000'

0' 1000' 2000'



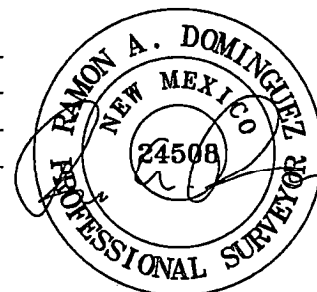
POINT	UTM ZONE 13 COORDINATES	
SHL	X=2063668.553	Y=11659977.993
KOP	X=2063753.026	Y=11660384.460
FTP	X=2063806.783	Y=11659937.854
LTP	X=2063927.649	Y=11652682.607
THL	X=2063927.835	Y=11652652.613

LEASE NAME & WELL NO.: VALIANT 24 FED COM #742H
SECTION 24 TWP 25-S RGE 32-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3447'
DESCRIPTION 2158' FSL & 1403' FWL



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



Ramon A. Dominguez, P.S. No. 24508
JUNE 26, 2020



VALIANT 24 FED COM #742H AS-COMPLETED	REVISION:	NOTES:
DATE: 06/26/2020		1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
FILE: AD_VALIANT_24_FED_COM_742H		2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
DRAWN BY: A.V.F.		3. THIS WELL 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.
SHEET: 1 OF 1		4. ADJOINER INFORMATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Valiant 24 Fed Com

#742H

OH

Design: OH

Midland PVA

27 March, 2020





EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #742H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 2 @ 3472.0usft
Site:	Valliant 24 Fed Com	MD Reference:	KB = 2 @ 3472.0usft
Well:	#742H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

Project	Lea County, NM (NAD 83 NME)	System Datum:	Mean Sea Level
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Map System:	US State Plane 1983
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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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Wellbore	OH
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/8/2020	6.68	59.92	47,586.90976257

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	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	

Survey Program	Date	3/27/2020
From (usft)	To (usft)	Survey (Wellbore)
200.0	20,221.0	Driltech (OH)
		EOG MWD+IFR1
		MWD + IFR1



EOG Resources

Midland PVA

Company: EOG Resources - Midland.
 Project: Lea County, NM (NAD 83 NME)
 Site: Valiant 24 Fed Com
 Well: #742H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:
 Database:

Well #742H
 KB = 2 @ 3472.0usft
 KB = 2 @ 3472.0usft
 Grid
 Minimum Curvature
 EDM

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Bulid (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
	200.0	0.62	264.68	200.0	-0.1	-1.1	0.31	0.31	0.00	-1.1	0.0
	294.0	0.35	226.45	294.0	-0.3	-1.8	0.43	-0.29	-40.67	-1.5	-1.0
	382.0	0.35	188.22	382.0	-0.8	-2.0	0.26	0.00	-43.44	-1.1	-1.9
	554.0	0.62	166.60	554.0	-2.2	-1.9	0.19	0.16	-12.57	-1.7	-2.3
	653.0	0.53	179.52	653.0	-3.2	-1.8	0.16	-0.09	13.05	-3.2	-1.8
	749.0	0.62	165.81	749.0	-4.1	-1.6	0.17	0.09	-14.28	-3.6	-2.6
	825.0	0.44	168.79	825.0	-4.8	-1.5	0.24	-0.24	3.92	-4.5	-2.4
	947.0	0.44	142.34	947.0	-5.7	-1.1	0.17	0.00	-21.68	-3.8	-4.3
	1,042.0	1.05	62.01	1,042.0	-5.5	-0.1	1.13	0.65	-84.56	2.9	-5.1
	1,138.0	2.81	24.74	1,137.9	-3.0	1.7	2.15	1.82	-38.82	5.3	-3.1
	1,234.0	5.63	21.32	1,233.6	3.5	4.4	2.95	2.94	-3.56	4.6	-3.3
	1,330.0	7.91	21.49	1,329.0	14.1	8.5	2.38	2.37	0.18	2.5	-3.8
	1,426.0	8.44	21.23	1,424.0	26.8	13.5	0.55	0.55	-0.27	-1.1	-4.3
	1,522.0	8.44	20.17	1,518.9	40.0	18.5	0.16	0.00	-1.10	-5.1	-4.8
	1,617.0	8.27	18.07	1,612.9	53.0	23.0	0.37	-0.18	-2.21	-8.8	-5.1
	1,713.0	8.79	15.69	1,707.9	66.6	27.1	0.65	0.54	-2.48	-12.8	-5.3
	1,809.0	8.62	20.79	1,802.8	80.4	31.6	0.82	-0.18	5.31	-17.8	-3.9
	1,905.0	8.27	22.46	1,897.7	93.5	36.8	0.45	-0.36	1.74	-22.0	-3.9
	2,001.0	8.18	18.42	1,992.7	106.4	41.6	0.61	-0.09	-4.21	-25.4	-5.9
	2,097.0	8.18	15.96	2,087.8	119.4	45.7	0.36	0.00	-2.56	-28.7	-6.9
	2,192.0	8.27	23.43	2,181.8	132.2	50.2	1.13	0.09	7.86	-33.0	-3.1
	2,288.0	8.79	24.48	2,276.7	145.2	56.0	0.57	0.54	1.09	-37.4	-3.4
	2,384.0	8.53	22.72	2,371.6	158.5	61.8	0.39	-0.27	-1.83	-41.7	-5.5
	2,480.0	8.27	20.26	2,466.6	171.5	67.0	0.46	-0.27	-2.56	-45.5	-8.0
	2,576.0	8.71	21.84	2,561.6	184.7	72.1	0.52	0.46	1.65	-49.9	-7.1
	2,671.0	8.97	29.40	2,655.4	197.9	78.4	1.25	0.27	7.96	-55.2	-1.5



EOG Resources Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Valiant 24 Fed Com
Well: #742H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #742H
KB = 2 @ 3472.0usft
KB = 2 @ 3472.0usft
Grid
Minimum Curvature
EDM

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Dleg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
	2,767.0	9.32	30.37	2,750.2	211.1	86.0	0.40	0.36	1.01	-60.7	-2.5
	2,863.0	9.67	29.58	2,844.9	224.8	93.9	0.39	0.36	-0.82	-66.7	-5.4
	2,959.0	9.67	29.58	2,939.5	238.8	101.8	0.00	0.00	0.00	-73.0	-7.3
	3,055.0	9.67	29.84	3,034.2	252.8	109.8	0.05	0.00	0.27	-79.4	-9.0
	3,150.0	9.76	29.58	3,127.8	266.8	117.8	0.11	0.09	-0.27	-85.7	-11.3
	3,246.0	9.76	30.02	3,222.4	280.9	125.9	0.08	0.00	0.46	-92.2	-12.6
	3,342.0	9.23	29.49	3,317.1	294.6	133.7	0.56	-0.55	-0.55	-98.2	-15.4
	3,438.0	8.09	22.64	3,412.0	307.6	140.1	1.60	-1.19	-7.14	-100.1	-28.6
	3,533.0	8.79	28.70	3,506.0	320.1	146.2	1.19	0.74	6.38	-106.7	-19.0
	3,629.0	7.74	28.61	3,601.0	332.2	152.8	1.09	-1.09	-0.09	-110.6	-21.0
	3,725.0	7.39	28.52	3,696.1	343.3	158.8	0.36	-0.36	-0.09	-113.3	-22.9
	3,821.0	6.24	21.14	3,791.5	353.6	163.7	1.50	-1.20	-7.69	-110.8	-38.5
	3,917.0	5.54	16.31	3,887.0	362.9	166.8	0.89	-0.73	-5.03	-107.0	-47.7
	4,013.0	5.10	8.75	3,982.5	371.6	168.8	0.86	-0.46	-7.87	-98.8	-60.2
	4,108.0	4.66	12.53	4,077.2	379.5	170.3	0.57	-0.46	3.98	-100.7	-52.3
	4,204.0	4.04	34.15	4,172.9	386.1	173.0	1.81	-0.65	22.52	-110.2	-13.0
	4,300.0	4.04	54.19	4,268.7	390.9	177.7	1.46	0.00	20.87	-106.4	20.6
	4,396.0	3.96	37.93	4,364.5	395.5	182.4	1.18	-0.08	-16.94	-105.1	-14.2
	4,491.0	4.31	38.02	4,459.2	400.9	186.7	0.37	0.37	0.09	-102.6	-17.3
	4,587.0	2.90	38.90	4,555.0	405.6	190.4	1.47	-1.47	0.92	-99.4	-19.2
	4,683.0	3.69	25.36	4,650.9	410.3	193.3	1.15	0.82	-14.10	-87.7	-43.7
	4,778.0	2.99	22.90	4,745.7	415.3	195.5	0.75	-0.74	-2.59	-81.3	-48.3
	4,874.0	2.37	13.93	4,841.6	419.6	197.0	0.78	-0.65	-9.34	-67.2	-60.0
	4,970.0	2.20	12.44	4,937.5	423.3	197.9	0.19	-0.18	-1.55	-59.5	-60.7
	5,066.0	2.20	9.80	5,033.5	426.9	198.6	0.11	0.00	-2.75	-50.4	-62.0
	5,162.0	1.93	10.77	5,129.4	430.3	199.2	0.28	-0.28	1.01	-44.9	-59.7
	5,257.0	1.85	6.73	5,224.3	433.4	199.7	0.16	-0.08	-4.25	-34.0	-60.9



EOG Resources
Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Valiant 24 Fed Com
 Well: #742H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference:
 TVD Reference: KB = 2 @ 3472.0usft
 MD Reference: KB = 2 @ 3472.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	D/Leg (°/100usft)	Bulld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
	5,353.0	1.58	4.09	5,320.3	436.3	199.9	0.29	-0.28	-2.75	-24.3	-59.9
	5,449.0	1.49	5.76	5,416.3	438.8	200.2	0.10	-0.09	1.74	-19.9	-57.2
	5,545.0	1.67	5.23	5,512.2	441.5	200.4	0.19	0.19	-0.55	-16.3	-56.0
	5,641.0	1.76	358.82	5,608.2	444.3	200.5	0.22	0.09	-6.68	-10.3	-56.8
	5,736.0	1.58	351.61	5,703.1	447.1	200.3	0.29	-0.19	-7.59	-5.7	-57.7
	5,832.0	1.58	339.66	5,799.1	449.6	199.6	0.34	0.00	-12.45	3.7	-57.9
	5,928.0	1.49	338.78	5,895.1	452.1	198.7	0.10	-0.09	-0.92	2.0	-57.9
	6,024.0	1.58	339.22	5,991.0	454.5	197.8	0.09	0.09	0.46	-1.0	-57.9
	6,120.0	1.58	334.21	6,087.0	456.9	196.8	0.14	0.00	-5.22	1.4	-57.9
	6,216.0	1.58	331.31	6,183.0	459.2	195.5	0.08	0.00	-3.02	1.7	-57.8
	6,311.0	1.58	331.04	6,277.9	461.5	194.3	0.01	0.00	-0.28	-0.6	-57.8
	6,502.0	1.67	329.46	6,468.9	466.2	191.6	0.05	0.05	-0.83	-4.4	-57.9
	6,598.0	1.58	328.06	6,564.8	468.6	190.2	0.10	-0.09	-1.46	-5.7	-58.0
	6,694.0	1.58	322.34	6,660.8	470.7	188.7	0.16	0.00	-5.96	-2.6	-58.4
	6,790.0	1.67	321.46	6,756.7	472.9	187.0	0.10	0.09	-0.92	-4.4	-58.5
	6,886.0	1.76	319.97	6,852.7	475.1	185.2	0.10	0.09	-1.55	-5.8	-58.6
	6,982.0	1.76	316.28	6,948.6	477.3	183.2	0.12	0.00	-3.84	-4.9	-58.9
	7,077.0	1.14	284.11	7,043.6	478.6	181.3	1.05	-0.65	-33.86	25.0	-53.3
	7,173.0	1.23	264.33	7,139.6	478.7	179.3	0.43	0.09	-20.60	39.7	-42.0
	7,364.0	1.23	264.51	7,330.6	478.3	175.2	0.00	0.00	0.09	35.4	-42.1
	7,408.2	1.11	261.44	7,374.7	478.2	174.4	0.31	-0.28	-6.96	36.7	-40.2
Brushy Top (VAL 24 FC #742H)											
	7,460.0	0.97	256.86	7,426.5	478.0	173.4	0.31	-0.27	-8.83	38.9	-37.2
	7,651.0	1.23	250.36	7,617.5	477.0	169.9	0.15	0.14	-3.40	39.2	-32.7
	7,747.0	1.23	254.14	7,713.5	476.3	168.0	0.08	0.00	3.94	34.9	-35.1
	7,843.0	1.14	247.02	7,809.5	475.7	166.1	0.18	-0.09	-7.42	37.0	-30.7
	7,938.0	1.14	241.13	7,904.4	474.9	164.4	0.12	0.00	-6.20	38.1	-26.8



EOG Resources

Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Valiant 24 Fed Com
 Well: #742H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference:
 TVD Reference: KB = 2 @ 3472.0usft
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 Survey Calculation Method: Minimum Curvature
 Database: EDM

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
	8,034.0	1.14	243.77	8,000.4	474.0	162.7	0.05	0.00	2.75	34.9	-28.5
	8,130.0	1.23	247.37	8,096.4	473.2	160.9	0.12	0.09	3.75	31.0	-30.6
	8,226.0	1.06	247.64	8,192.4	472.4	159.1	0.18	-0.18	0.28	29.0	-30.7
	8,321.0	1.14	250.62	8,287.4	471.8	157.4	0.10	0.08	3.14	25.5	-32.1
	8,417.0	1.14	241.92	8,383.3	471.0	155.7	0.18	0.00	-9.06	28.2	-28.0
	8,513.0	1.32	238.49	8,479.3	470.0	153.9	0.20	0.19	-3.57	27.8	-26.4
	8,608.0	1.49	234.36	8,574.3	468.7	152.0	0.21	0.18	-4.35	27.3	-24.4
	8,704.0	1.49	228.65	8,670.3	467.1	150.0	0.15	0.00	-5.95	27.1	-21.7
	8,800.0	1.67	231.99	8,766.2	465.5	148.0	0.21	0.19	3.48	23.1	-23.1
	8,896.0	1.58	234.10	8,862.2	463.8	145.8	0.11	-0.09	2.20	19.5	-23.9
	8,991.0	1.49	231.64	8,957.2	462.3	143.8	0.12	-0.09	-2.59	18.0	-23.1
	9,087.0	1.49	235.33	9,053.1	460.8	141.8	0.10	0.00	3.84	14.0	-24.1
	9,183.0	1.32	254.40	9,149.1	459.8	139.7	0.52	-0.18	19.86	3.0	-27.0
	9,279.0	1.23	271.19	9,245.1	459.5	137.6	0.40	-0.09	17.49	-7.0	-26.4
	9,374.0	1.76	277.61	9,340.0	459.7	135.1	0.58	0.56	6.76	-12.4	-25.3
	9,470.0	2.37	279.54	9,436.0	460.3	131.7	0.64	0.64	2.01	-16.7	-24.8
	9,566.0	2.02	276.64	9,531.9	460.8	128.0	0.38	-0.36	-3.02	-19.1	-25.8
	9,660.0	2.64	275.94	9,625.8	461.2	124.2	0.66	0.66	-0.74	-22.6	-26.0
	9,756.0	2.46	268.36	9,721.7	461.4	120.0	0.40	-0.19	-7.87	-23.2	-29.0
	9,851.0	2.02	274.88	9,816.7	461.4	116.3	0.53	-0.46	6.84	-30.0	-26.0
	9,947.0	1.49	255.19	9,912.6	461.3	113.4	0.83	-0.55	-20.51	-22.4	-35.2
	10,043.0	1.41	250.36	10,008.6	460.6	111.1	0.15	-0.08	-5.03	-21.7	-37.0
	10,139.0	1.67	266.71	10,104.5	460.1	108.6	0.53	0.27	17.03	-33.8	-29.1
	10,235.0	2.02	268.73	10,200.5	460.0	105.5	0.37	0.36	2.10	-37.9	-27.8
	10,330.0	2.11	263.28	10,295.4	459.7	102.1	0.23	0.09	-5.74	-38.5	-31.5
	10,426.0	0.70	278.49	10,391.4	459.6	99.7	1.51	-1.47	15.84	-47.7	-19.8
	10,522.0	0.53	186.82	10,487.4	459.2	99.1	0.93	-0.18	-95.49	20.7	-47.7



EOG Resources Midland PVA

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME) Site: Valiant 24 Fed Com Well: #742H Wellbore: OH Design: OH				Local Co-ordinate Reference: TVD Reference: KB = 2 @ 3472.0usft MD Reference: KB = 2 @ 3472.0usft North Reference: Grid Survey Calculation Method: Minimum Curvature Database: EDM								Well #742H	
Survey													
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	D/Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)			
10,618.0	1.49	196.04	10,583.4	457.6	98.7	1.01	1.00	9.60	11.1	-50.3			
10,714.0	1.41	218.02	10,679.4	455.5	97.6	0.58	-0.08	22.90	-10.9	-50.4			
10,810.0	1.23	189.98	10,775.3	453.5	96.7	0.69	-0.19	-29.21	12.0	-50.1			
10,905.0	1.32	167.48	10,870.3	451.5	96.8	0.53	0.09	-23.68	28.2	-42.1			
11,001.0	1.32	166.51	10,966.3	449.3	97.3	0.02	0.00	-1.01	26.7	-41.6			
11,097.0	1.67	181.45	11,062.3	446.8	97.5	0.54	0.36	15.56	12.6	-46.8			
11,193.0	2.02	197.71	11,158.2	443.8	96.9	0.65	0.36	16.94	-4.0	-48.1			
11,289.0	1.85	200.61	11,254.1	440.8	95.9	0.20	-0.18	3.02	-9.7	-47.8			
11,385.0	1.06	198.77	11,350.1	438.5	95.1	0.82	-0.82	-1.92	-10.6	-48.1			
11,481.0	0.88	215.29	11,446.1	437.0	94.3	0.34	-0.19	17.21	-25.4	-42.9			
11,572.0	0.88	219.77	11,537.1	435.9	93.5	0.08	0.00	4.92	-30.1	-40.7			
11,682.0	1.49	185.58	11,647.1	433.8	92.8	0.83	0.55	-31.08	-4.1	-51.0			
11,778.0	1.76	179.52	11,743.0	431.1	92.7	0.33	0.28	-6.31	-1.4	-51.3			
11,874.0	2.73	184.79	11,839.0	427.4	92.5	1.03	1.01	5.49	-9.9	-50.8			
11,969.0	3.17	190.42	11,933.8	422.5	91.9	0.55	0.46	5.93	-19.7	-49.4			
12,065.0	3.78	203.16	12,029.7	417.0	90.1	1.02	0.64	13.27	-35.8	-43.3			
12,161.0	3.52	197.36	12,125.5	411.3	88.0	0.47	-0.27	-6.04	-37.4	-47.0			
12,240.0	5.10	190.03	12,204.2	405.5	86.7	2.12	2.00	-9.28	-36.9	-51.7			
KOP, MD:12240.0', TVD:12204.2', N/S:405.5', E/W:86.7', INC:5.10'													
12,257.0	5.45	189.01	12,221.2	404.0	86.4	2.12	2.04	-5.98	-37.6	-52.4			
12,345.1	22.32	176.67	12,306.4	383.0	86.7	19.33	19.15	-14.01	-37.4	-59.8			
FTP Crossing, MD:12345.1', TVD:12306.4', N/S:383.0', E/W:86.7', INC:22.32'													
12,352.0	23.65	176.44	12,312.7	380.3	86.9	19.33	19.29	-3.34	-38.4	-59.9			
12,448.0	33.94	174.69	12,396.8	334.3	90.6	10.75	10.72	-1.82	-54.0	-58.6			
12,543.0	42.65	174.07	12,471.2	275.7	96.4	9.18	9.17	-0.65	-65.4	-53.7			
12,624.4	49.14	173.31	12,527.9	217.7	102.8	8.00	7.97	-0.93	-68.6	-47.5			
FTP (VAL 24 FC #742H)													



EOG Resources
Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Vallant 24 Fed Com
Well: #742H
Wellbore: OH
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Local Co-ordinate Reference:
TVD Reference: KB = 2 @ 3472.0usft
MD Reference: KB = 2 @ 3472.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
	12,639.0	50.30	173.19	12,537.3	206.6	104.1	8.00	7.97	-0.82	-68.5	-46.2
	12,735.0	56.72	172.37	12,594.4	130.1	113.8	6.72	6.69	-0.85	-60.9	-35.8
	12,831.0	61.82	172.02	12,643.4	48.4	125.1	5.32	5.31	-0.36	-41.4	-23.6
	12,927.0	76.15	172.28	12,677.7	-40.2	137.3	14.93	14.93	0.27	-18.0	-10.2
	13,023.0	89.69	175.88	12,689.6	-134.7	147.0	14.58	14.10	3.75	-7.0	-0.7
	13,118.0	87.85	175.18	12,691.6	-229.4	154.4	2.07	-1.94	-0.74	-5.5	6.0
	13,214.0	88.81	178.26	12,694.4	-325.2	159.9	3.36	1.00	3.21	-3.3	10.9
	13,310.0	88.55	180.28	12,696.6	-421.1	161.1	2.12	-0.27	2.10	-1.7	11.5
	13,405.0	91.28	181.68	12,696.7	-516.1	159.5	3.23	2.87	1.47	-2.1	9.3
	13,501.0	89.16	179.05	12,696.4	-612.1	158.9	3.52	-2.21	-2.74	-3.1	8.0
	13,596.0	85.82	180.10	12,700.5	-707.0	159.6	3.69	-3.52	1.11	0.5	8.1
	13,692.0	85.30	180.89	12,708.0	-802.7	158.8	0.98	-0.54	0.82	7.3	6.6
	13,789.0	86.88	180.45	12,714.6	-899.5	157.6	1.69	1.63	-0.45	13.3	4.9
	13,885.0	89.60	179.58	12,717.5	-995.4	157.6	2.97	2.83	-0.91	15.7	4.2
	13,981.0	90.66	179.31	12,717.3	-1,091.4	158.5	1.14	1.10	-0.28	14.9	4.5
	14,077.0	91.10	179.84	12,715.8	-1,187.4	159.3	0.72	0.46	0.55	12.8	4.6
	14,173.0	90.48	176.85	12,714.5	-1,283.3	162.0	3.18	-0.65	-3.11	10.9	6.7
	14,269.0	90.22	179.31	12,713.9	-1,379.3	165.2	2.58	-0.27	2.56	9.7	9.3
	14,365.0	91.63	179.58	12,712.4	-1,475.2	166.2	1.50	1.47	0.28	7.6	9.6
	14,461.0	90.22	180.63	12,710.8	-1,571.2	166.0	1.83	-1.47	1.09	5.5	8.8
	14,557.0	89.34	179.66	12,711.2	-1,667.2	165.8	1.36	-0.92	-1.01	5.2	8.0
	14,653.0	90.40	179.31	12,711.4	-1,763.2	166.6	1.16	1.10	-0.36	4.9	8.2
	14,749.0	89.52	179.75	12,711.5	-1,859.2	167.4	1.02	-0.92	0.46	4.3	8.3
	14,845.0	90.31	179.75	12,711.6	-1,955.2	167.8	0.82	0.82	0.00	3.9	8.1
	14,886.4	90.12	180.32	12,711.5	-1,996.6	167.8	1.46	-0.46	1.39	3.5	7.8
TGT#(VAL 24 FC #742)											6.8
	14,940.0	89.87	181.07	12,711.5	-2,050.2	167.1	1.46	-0.46	1.39	3.2	



EOG Resources

Midland PVA

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	15,036.0	90.40	181.25	12,711.3	-2,146.2	165.2	0.58	0.55	0.19	2.6	4.2
	15,132.0	88.99	180.54	12,711.8	-2,242.2	163.7	1.64	-1.47	-0.74	2.7	2.1
	15,228.0	88.99	181.51	12,713.5	-2,338.1	162.0	1.01	0.00	1.01	4.0	-0.2
	15,325.0	89.96	181.25	12,714.3	-2,435.1	159.6	1.04	1.00	-0.27	4.5	-3.2
	15,420.0	88.55	181.77	12,715.6	-2,530.1	157.1	1.58	-1.48	0.55	5.3	-6.3
	15,516.0	89.08	182.04	12,717.6	-2,626.0	154.0	0.62	0.55	0.28	6.9	-10.2
	15,612.0	90.22	181.51	12,718.2	-2,721.9	151.0	1.31	1.19	-0.55	7.1	-13.8
	15,707.0	90.22	178.96	12,717.8	-2,816.9	150.6	2.68	0.00	-2.68	6.3	-14.8
	15,803.0	89.34	179.14	12,718.2	-2,912.9	152.2	0.94	-0.92	0.19	6.3	-13.8
	15,899.0	90.48	178.87	12,718.3	-3,008.9	153.8	1.22	1.19	-0.28	6.0	-12.8
	15,994.0	87.67	177.47	12,719.8	-3,103.8	156.9	3.30	-2.96	-1.47	7.1	-10.4
	16,090.0	88.11	177.11	12,723.4	-3,199.6	161.4	0.59	0.46	-0.37	10.3	-6.4
	16,139.0	88.72	177.82	12,724.7	-3,248.6	163.6	1.91	1.24	1.45	11.4	-4.6
	16,235.0	89.52	177.21	12,726.2	-3,344.5	167.7	1.05	0.83	-0.64	12.5	-1.1
	16,331.0	89.25	176.41	12,727.2	-3,440.3	173.1	0.88	-0.28	-0.83	13.1	3.6
	16,427.0	87.32	175.27	12,730.1	-3,536.0	180.0	2.33	-2.01	-1.19	15.6	10.0
	16,523.0	88.64	176.68	12,733.5	-3,631.7	186.8	2.01	1.37	1.47	18.5	16.1
	16,619.0	90.04	177.38	12,734.6	-3,727.6	191.8	1.63	1.46	0.73	19.2	20.4
	16,715.0	92.86	181.16	12,732.2	-3,823.5	193.0	4.91	2.94	3.94	16.4	21.0
	16,811.0	94.26	181.59	12,726.2	-3,919.3	190.6	1.56	1.46	0.55	10.0	18.0
	16,906.0	91.98	180.11	12,721.0	-4,014.1	189.1	2.92	-2.40	-1.66	4.5	15.9
	17,002.0	91.98	180.54	12,717.7	-4,110.1	188.6	0.45	0.00	0.45	0.7	14.7
	17,098.0	87.76	179.49	12,717.9	-4,206.1	188.5	4.53	-4.40	-1.09	0.5	14.1
	17,194.0	85.03	180.46	12,724.0	-4,301.9	188.6	3.02	-2.84	1.01	6.2	13.5
	17,289.0	86.53	181.78	12,731.0	-4,396.6	186.7	2.10	1.58	1.39	12.8	11.0
	17,385.0	85.91	181.16	12,737.3	-4,492.3	184.3	0.91	-0.65	-0.65	18.7	7.9
	17,481.0	89.52	180.98	12,741.1	-4,588.2	182.5	3.77	3.76	-0.19	22.1	5.5



EOG Resources
Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Vallant 24 Fed Com
Well: #742H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #742H
KB = 2 @ 3472.0usft
KB = 2 @ 3472.0usft
Grid
Minimum Curvature
EDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
17,577.0	89.69	180.98	12,741.8	-4,684.2	180.8	0.18	0.18	0.00	22.4	3.2
17,672.0	92.68	181.60	12,739.8	-4,779.2	178.7	3.21	3.15	0.65	20.0	0.4
17,768.0	93.47	180.98	12,734.7	-4,875.0	176.5	1.05	0.82	-0.65	14.4	-2.3
17,864.0	90.75	180.28	12,731.1	-4,970.9	175.5	2.93	-2.83	-0.73	10.5	-4.0
17,960.0	89.25	179.58	12,731.1	-5,066.9	175.6	1.72	-1.56	-0.73	10.1	-4.5
18,054.0	89.60	179.49	12,732.1	-5,160.9	176.4	0.38	0.37	-0.10	10.6	-4.4
18,150.0	89.08	179.93	12,733.2	-5,256.9	176.9	0.71	-0.54	0.46	11.3	-4.5
18,246.0	88.99	180.11	12,734.8	-5,352.9	176.8	0.21	-0.09	0.19	12.5	-5.2
18,341.0	89.34	179.75	12,736.2	-5,447.9	176.9	0.53	0.37	-0.38	13.5	-5.7
18,437.0	88.72	180.46	12,737.8	-5,543.8	176.8	0.98	-0.65	0.74	14.7	-6.5
18,533.0	90.66	181.95	12,738.3	-5,639.8	174.7	2.55	2.02	1.55	14.8	-9.2
18,629.0	90.57	182.74	12,737.3	-5,735.7	170.8	0.83	-0.09	0.82	13.4	-13.7
18,725.0	91.28	180.72	12,735.7	-5,831.7	167.9	2.23	0.74	-2.10	11.5	-17.3
18,820.0	89.69	179.49	12,734.9	-5,926.7	167.7	2.12	-1.67	-1.29	10.2	-18.1
18,890.8	90.73	179.17	12,734.7	-5,997.5	168.6	1.54	1.47	-0.46	9.7	-17.7
TGT#2(VAL 24 FC #742H)										
18,916.0	91.10	179.05	12,734.3	-6,022.7	169.0	1.54	1.47	-0.46	9.1	-17.5
19,012.0	91.63	179.58	12,732.0	-6,118.6	170.1	0.78	0.55	0.55	6.4	-16.9
19,108.0	92.07	178.44	12,728.9	-6,214.5	171.8	1.27	0.46	-1.19	2.7	-15.9
19,203.0	90.48	175.89	12,726.8	-6,309.4	176.5	3.16	-1.67	-2.68	0.1	-11.8
19,299.0	88.02	175.71	12,728.0	-6,405.1	183.5	2.57	-2.56	-0.19	0.9	-5.4
19,395.0	90.75	178.17	12,729.1	-6,501.0	188.6	3.83	2.84	2.56	1.4	-0.9
19,491.0	87.32	176.41	12,730.7	-6,596.8	193.2	4.02	-3.57	-1.83	2.5	3.0
19,587.0	88.11	176.68	12,734.5	-6,692.6	198.9	0.87	0.82	0.28	5.8	8.1
19,683.0	88.72	176.77	12,737.2	-6,788.4	204.4	0.64	0.64	0.09	8.0	13.0
19,779.0	88.29	177.56	12,739.7	-6,884.2	209.2	0.94	-0.45	0.82	10.0	17.1
19,874.0	86.88	177.91	12,743.7	-6,979.1	212.9	1.53	-1.48	0.37	13.5	20.2



EOG Resources
Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Valiant 24 Fed Com
Well: #742H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #742H
KB = 2 @ 3472.0usft
KB = 2 @ 3472.0usft
Grid
Minimum Curvature
EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	D/Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
19,970.0	88.99	180.37	12,747.1	-7,075.0	214.4	3.37	2.20	2.56	16.5	21.0
20,066.0	90.13	180.02	12,747.9	-7,171.0	214.0	1.24	1.19	-0.36	16.7	20.1
Last MWD Survey (MD=20066.0')										
20,221.0	90.13	180.02	12,747.5	-7,326.0	214.0	0.00	0.00	0.00	15.5	19.0
Projection to Bit (MD=20221.0') - PBHL (VAL 24 FC #742H)										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
12,240.0	12,204.2	405.5	86.7	KOP, MD:12240.0', TVD:12204.2', N/S:405.5', EW:86.7', INC:5.10
12,345.1	12,306.4	383.0	86.7	FTP Crossing, MD:12345.1', TVD:12306.4', N/S:383.0', EW:86.7', INC:22.32
20,066.0	12,747.9	-7,171.0	214.0	Last MWD Survey (MD=20066.0')
20,221.0	12,747.5	-7,326.0	214.0	Projection to Bit (MD=20221.0')

Checked By: _____

Approved By: _____

Date: _____



Lea County, NM (NAD 83 NME)

Vallant 24 Fed Com

#742H

Plan #1

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

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1999
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level



Azimuths to Grid North
True North: -0.37°
Magnetic North: 6.31°
Magnetic Field
Strength: 47585.5nT
Dip Angle: 65.92°
Date: 3/5/2020
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.31°
To convert a True Direction to a Grid Direction, Subtract 0.37°

WELL DETAILS: #742H

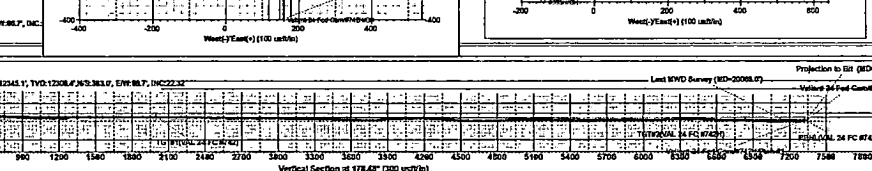
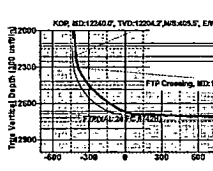
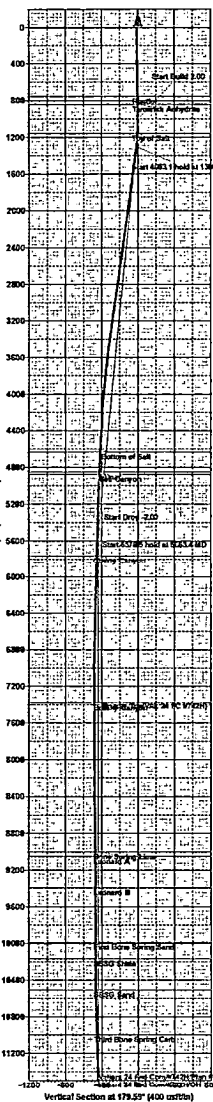
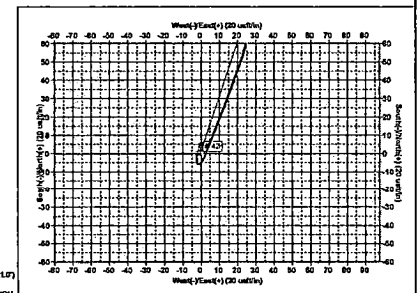
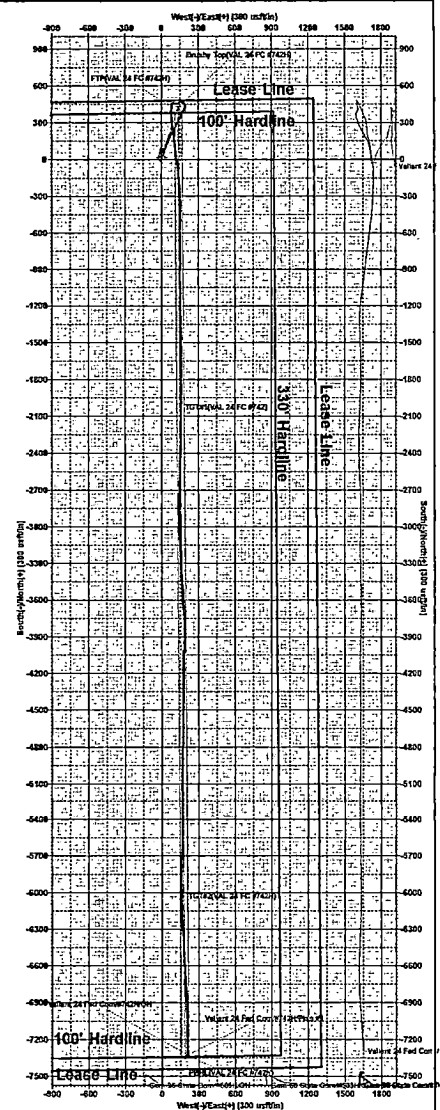
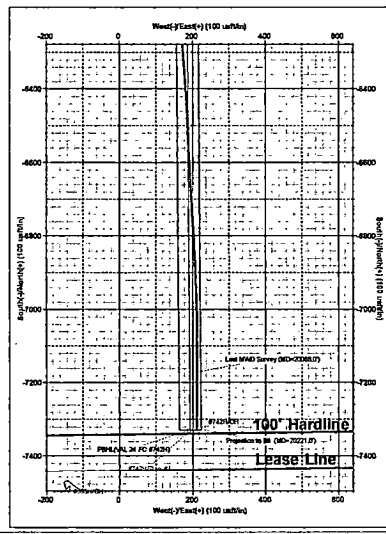
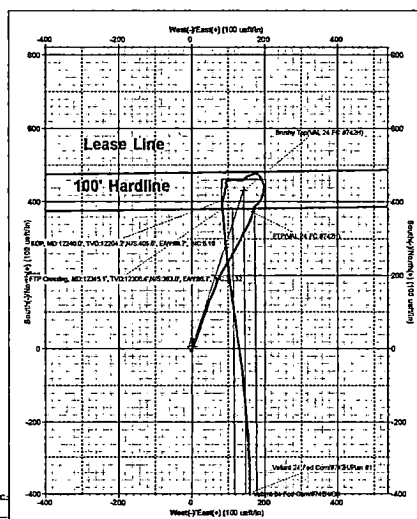
3447.0
KB = 2 @ 3472.0m
Northing
Easting
Longitude
Slat

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dieg	TFace	VSeet	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1300.1	6.00	18.40	1299.6	14.9	5.0	2.00	18.40	-14.9	
4	5363.2	6.00	18.40	5340.4	419.1	139.0	0.00	0.00	-414.2	
5	5663.4	0.00	0.00	5640.0	433.0	144.0	2.00	180.00	-429.0	
6	12241.9	0.00	0.00	12218.5	433.0	144.0	0.00	0.00	-429.0	
7	12988.9	89.65	179.62	12696.0	-41.5	147.1	12.00	179.62	45.4	
8	14944.0	89.65	179.62	12708.0	-1995.5	160.0	0.00	0.00	2000.0	TGT#1(VALL 24 FC #742)
9	14949.5	89.76	179.62	12708.0	-2002.0	160.0	2.00	0.00	2005.5	TGT#2(VALL 24 FC #742H)
10	18944.0	89.76	179.62	12725.0	-5997.2	186.3	0.00	0.00	6000.0	
11	18947.7	89.70	179.62	12725.0	-6000.1	186.3	2.00	-180.00	6002.9	
12	20275.7	89.70	179.62	12732.0	-7328.0	195.0	0.00	0.00	7330.6	PBHL(VALL 24 FC #742H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
Brushy Top(VALL 24 FC #742H)	7374.0	433.0	144.0	406604.00	755448.00	Polygon
FTF(VALL 24 FC #742H)	19348.0	328.9	144.9	406654.80	755448.00	Point
TGT#1(VALL 24 FC #742)	12708.0	-1995.5	160.0	404174.50	755483.97	Point
TGT#2(VALL 24 FC #742H)	12725.0	-5997.2	186.3	400173.80	755480.25	Point
PBHL(VALL 24 FC #742H)	12732.0	-7328.0	195.0	395643.00	755489.50	Rectangle (Sides: L0.0 W60.0)



Lea County, NM (NAD 83 NME)
Vallant 24 Fed Com #742H
Plan #1