

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-025-46571		² Pool Code 98180		³ Pool Name WC025 G09 S253309P; UPPER WOLFCAMP KZ	
⁴ Property Code 325949		⁵ Property Name VALIANT 24 FED COM			⁶ Well Number #704H
⁷ OGRID No. 7377		⁸ Operator Name EOG RESOURCES, INC.			⁹ Elevation 3457'

¹⁰Surface Location

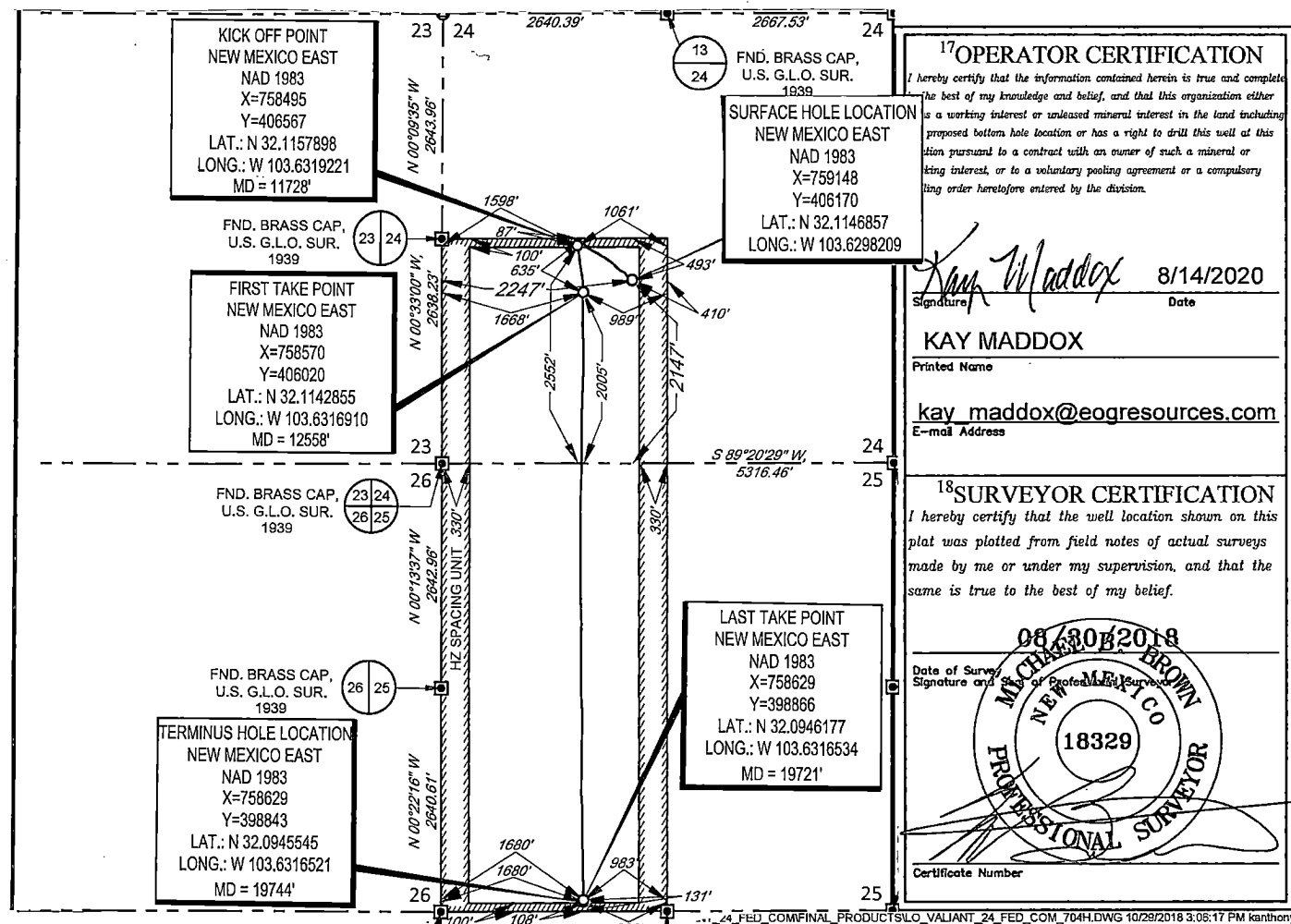
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	24	25-S	32-E	-	2147'	SOUTH	2247'	WEST	LEA

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	-	108'	SOUTH	1480'	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'



KICK OFF POINT
NEW MEXICO EAST
NAD 1983
X=758495
Y=406567
LAT.: N 32.1157898
LONG.: W 103.6319221
MD = 11728'

FND. BRASS CAP,
U.S. G.L.O. SUR.
1939

FIRST TAKE POINT
NEW MEXICO EAST
NAD 1983
X=758570
Y=406020
LAT.: N 32.1142855
LONG.: W 103.6316910
MD = 12558'

FND. BRASS CAP,
U.S. G.L.O. SUR.
1939

FND. BRASS CAP,
U.S. G.L.O. SUR.
1939

TERMINUS HOLE LOCATION
NEW MEXICO EAST
NAD 1983
X=758629
Y=398843
LAT.: N 32.0945545
LONG.: W 103.6316521
MD = 19744'

FND. BRASS CAP,
U.S. G.L.O. SUR.
1939

FND. BRASS CAP,
U.S. G.L.O. SUR.
1939

SURFACE HOLE LOCATION
NEW MEXICO EAST
NAD 1983
X=759148
Y=406170
LAT.: N 32.1146857
LONG.: W 103.6298209

FND. BRASS CAP,
U.S. G.L.O. SUR.
1913

POINT	UTM ZONE 13 COORDINATES
SHL	X=2064512.410 Y=11659982.215
KOP	X=2063857.070 Y=11660375.105
FTP	X=2063935.440 Y=11659828.666
LTP	X=2064038.673 Y=11652676.295
THL	X=2064038.815 Y=11652653.299

LAST TAKE POINT
NEW MEXICO EAST
NAD 1983
X=758629
Y=398866
LAT.: N 32.0946177
LONG.: W 103.6316534
MD = 19721'

FND. BRASS CAP,
U.S. G.L.O. SUR.
1913

FND. BRASS CAP,
U.S. G.L.O. SUR.
1913

FND. BRASS CAP,
U.S. G.L.O. SUR.
1913

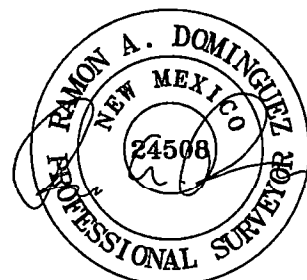
FND. BRASS CAP,
U.S. G.L.O. SUR.

LEASE NAME & WELL NO.: VALIANT 24 FED COM 704H
SECTION 24 TWP 25-S RGE 32-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3457'
DESCRIPTION 2147' FSL & 2247' FWL



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

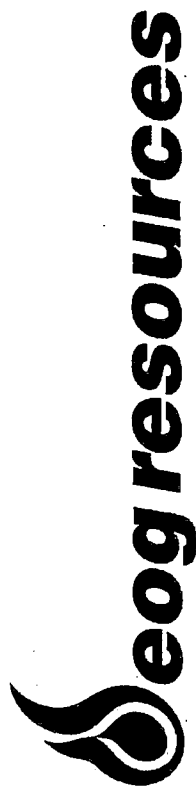
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2803 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM



Ramon A. Dominguez, P.S. No. 24508
JUNE 16, 2020

EOG resources, Inc.

VALIANT 24 FED COM 704H AS-COMplete	REVISION:	NOTES:
DATE: 06/16/2020		1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
FILE: AD_VALIANT_24_FED_COM_704H		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: IMU		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

#704H

OH

Design: OH

Final PVA

29 April, 2020



EOG Resources
Final PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3482.00usft
Site:	Valliant 24 Fed Corn	MD Reference:	KB = 25 @ 3482.00usft
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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

Site:	Valliant 24 Fed Corn		
Site Position:		Northing:	406,151.00 usft
From:	Map	Easting:	760,107.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 52.620 N
		Longitude:	103° 37' 36.212 W
		Grid Convergence:	0.38 °

Well:	#704H		
Well Position	+N/-S	Northing:	406,170.00 usft
	+E/-W	Easting:	759,148.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 6' 52.870 N
		Longitude:	103° 37' 47.361 W
		Ground Level:	3,457.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Dip Angle
	IGRF2015	1/22/2019	(°)
		6.80	Field Strength
			(nT)
			59.93
			47,702.53491552

Design:	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	Direction
	(usft)	(usft)	(°)
	0.00	0.00	184.29

Survey Program	Date	4/29/2020	
From (usft)	To (usft)	Survey (Wellbore)	Description
199.00	19,744.00	Trueshot MWD #1 (OH)	MWD + IFR1
		EOG MWD+IFR1	



EOG Resources

Final PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Valiant 24 Fed Com
 Well: #704H
 Wellbore: OH
 Design: OH

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

Well #704H
 KB = 25 @ 3482.00usft
 KB = 25 @ 3482.00usft
 Grid
 Minimum Curvature
 EDM 5000.14

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
199.00	1.49	91.27	198.98	-0.06	2.59	0.75	0.75	0.00	0.00	0.00
323.00	1.32	85.20	322.94	0.03	5.62	0.18	-0.14	-4.90	0.00	0.00
505.00	1.14	114.03	504.90	-0.54	9.36	0.35	-0.10	15.84	0.00	0.00
694.00	1.32	281.46	693.88	-0.87	8.95	1.29	0.10	88.59	0.00	0.00
879.00	1.41	285.03	878.83	-0.64	4.59	0.22	0.05	-8.88	0.00	0.00
983.00	1.71	253.77	982.79	-1.19	1.83	0.41	0.29	-10.83	-1.96	-0.08
1,175.00	1.93	260.01	1,174.70	-2.55	-4.11	0.15	0.11	3.25	-8.03	0.44
1,366.00	1.85	256.84	1,365.59	-3.81	-10.28	0.07	-0.04	-1.66	-14.34	-0.18
1,558.00	1.45	264.49	1,557.51	-4.75	-15.71	0.24	-0.21	3.98	-19.74	2.15
1,749.00	1.32	272.58	1,748.46	-4.88	-20.32	0.12	-0.07	4.24	-23.83	5.24
1,941.00	1.36	280.14	1,940.41	-4.38	-24.77	0.09	0.02	3.94	-27.41	8.62
2,132.00	1.41	296.92	2,131.35	-2.92	-29.09	0.21	0.03	8.79	-28.27	16.82
2,323.00	3.91	324.96	2,322.14	3.48	-34.93	1.44	1.31	14.68	-24.06	28.69
2,514.00	6.02	331.90	2,512.41	17.65	-43.39	1.15	1.10	3.63	-25.33	26.41
2,705.00	8.09	325.84	2,701.96	37.61	-55.65	1.15	1.08	-3.17	-27.34	13.73
2,897.00	8.79	327.16	2,891.88	61.11	-71.19	0.38	0.36	0.69	-27.18	3.74
3,088.00	8.13	305.45	3,080.85	81.21	-90.12	1.70	-0.35	-11.37	-23.86	-11.67
3,279.00	6.42	300.26	3,270.30	94.43	-110.34	0.96	-0.90	-2.72	-17.07	-12.09
3,471.00	7.25	294.37	3,460.94	104.84	-130.65	0.57	0.43	-3.07	-9.05	-8.90
3,662.00	7.82	306.59	3,650.30	117.56	-152.06	0.89	0.30	6.40	-5.58	-4.66
3,853.00	8.22	312.39	3,839.44	134.51	-172.58	0.47	0.21	3.04	-2.90	-6.18
4,044.00	9.54	310.46	4,028.14	153.98	-194.71	0.71	0.69	-1.01	-2.39	-9.15
4,235.00	8.22	317.40	4,216.85	174.31	-216.00	0.89	-0.69	3.63	-3.58	-12.88
4,426.00	11.21	310.11	4,405.10	196.32	-239.44	1.69	1.57	-3.82	-4.29	-17.20
4,618.00	8.70	305.71	4,594.20	216.83	-265.51	1.37	-1.31	-2.29	-6.15	-18.85
4,809.00	10.51	303.60	4,782.51	234.90	-291.75	0.97	0.95	-1.10	-7.50	-18.44



EOG Resources
Final PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NIME)
Site: Valiant 24 Fed Com
Well: #704H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25 @ 3482.00usft
MD Reference: KB = 25 @ 3482.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

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)
5,001.00	11.69	302.20	4,970.92	254.96	-322.80	0.63	0.61	-0.73	-14.15	-17.15
5,192.00	11.60	300.17	5,157.99	274.92	-355.77	0.22	-0.05	-1.06	-22.51	-15.39
5,383.00	10.86	297.45	5,345.33	292.86	-388.34	0.48	-0.39	-1.42	-29.51	-12.99
5,575.00	11.21	297.45	5,533.78	309.81	-420.96	0.18	0.18	0.00	-36.65	-8.62
5,766.00	11.08	301.32	5,721.18	327.90	-453.11	0.40	-0.07	2.03	-44.36	-2.57
5,957.00	9.93	299.65	5,908.98	345.59	-483.10	0.62	-0.60	-0.87	-49.46	-1.17
6,148.00	9.41	298.59	6,097.26	361.21	-511.13	0.29	-0.27	-0.55	-51.91	1.38
6,340.00	7.60	309.05	6,287.16	376.72	-534.77	1.24	-0.94	5.45	-48.97	11.83
6,531.00	7.38	313.53	6,476.53	393.13	-553.47	0.33	-0.12	2.35	-43.12	12.56
6,722.00	6.02	314.32	6,666.22	408.58	-569.53	0.71	-0.71	0.41	-35.62	8.91
6,913.00	4.22	308.79	6,856.45	419.98	-582.18	0.98	-0.94	-2.90	-23.39	2.96
7,105.00	1.89	286.99	7,048.17	425.33	-590.71	1.33	-1.21	-11.35	-6.40	0.38
7,296.00	1.49	296.92	7,239.09	427.37	-595.94	0.26	-0.21	5.20	3.69	4.43
7,487.00	0.92	50.56	7,430.06	429.47	-596.97	1.07	-0.30	59.50	1.17	-6.19
7,678.00	0.57	61.64	7,621.05	430.90	-594.95	0.20	-0.18	5.80	-2.49	-6.01
7,870.00	0.92	78.25	7,813.03	431.66	-592.60	0.21	0.18	8.65	-6.56	-4.77
8,061.00	0.09	37.03	8,004.02	432.10	-591.01	0.45	-0.43	-21.58	-3.10	-8.93
8,252.00	0.40	97.41	8,195.02	432.13	-590.26	0.19	0.16	31.61	-10.03	-1.59
8,443.00	0.48	214.48	8,386.02	431.39	-590.05	0.39	0.04	61.29	2.65	10.25
8,634.00	0.44	77.64	8,577.01	430.88	-589.79	0.45	-0.02	-71.64	-9.10	-6.21
8,825.00	0.13	191.63	8,768.01	430.83	-589.11	0.27	-0.16	59.68	-1.89	11.50
9,017.00	0.75	241.11	8,960.00	430.01	-590.26	0.35	0.32	25.77	6.12	9.08
9,208.00	1.80	284.79	9,150.96	430.17	-594.25	0.71	0.55	22.87	6.79	3.21
9,396.00	1.41	336.47	9,338.89	433.04	-598.03	0.77	-0.21	27.49	2.58	-1.02
9,588.00	1.76	295.78	9,530.83	436.49	-601.63	0.60	0.18	-21.19	-2.12	-0.63
9,779.00	2.59	247.97	9,721.70	436.15	-608.27	1.00	0.43	-25.03	-7.24	-4.17
9,971.00	2.73	228.02	9,913.50	431.46	-615.69	0.49	0.07	-10.39	-14.03	-7.87



EOG Resources
Final PVA

Company: EOG Resources - Midland			Local Co-ordinate Reference:			Well #704H				
Project: Lea County, NM (NAD 83 NME)			TVD Reference:			KB = 25 @ 3482.00usft				
Site: Valiant 24 Fed Com			MD Reference:			KB = 25 @ 3482.00usft				
Well: #704H			North Reference:			Grid				
Wellbore: OH			Survey Calculation Method:			Minimum Curvature				
Design: OH			Database:			EDM 5000.14				
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)
10,162.00	3.25	228.89	10,104.24	424.86	-623.15	0.27	0.27	0.46	-24.11	-7.60
10,353.00	4.92	277.23	10,294.80	422.33	-635.36	1.92	0.87	25.31	-33.46	17.07
10,450.00	1.67	274.77	10,391.62	422.97	-640.90	3.35	-3.35	-2.54	-39.75	15.39
10,546.00	0.92	157.00	10,487.61	422.38	-641.99	2.34	-0.78	-122.68	4.79	-43.59
10,737.00	2.02	160.69	10,678.54	417.79	-640.28	0.58	0.58	1.93	-2.92	-43.70
10,928.00	3.43	160.77	10,869.32	409.22	-637.28	0.74	0.74	0.04	-12.04	-43.70
11,120.00	1.32	218.69	11,061.17	402.07	-636.77	1.54	-1.10	30.17	-48.69	-8.12
11,311.00	1.71	258.68	11,252.11	399.79	-640.94	0.58	0.20	20.94	-47.05	26.50
11,502.00	1.89	265.98	11,443.01	399.01	-646.88	0.15	0.09	3.82	-49.28	32.63
11,585.00	1.58	256.22	11,525.97	398.64	-649.36	0.51	-0.37	-11.76	-56.59	23.56
11,722.00	1.71	262.00	11,662.92	397.91	-653.22	0.15	0.09	4.22	-57.86	29.34
11,810.92	9.14	162.42	11,751.46	390.98	-652.39	10.76	8.35	-112.00	-25.85	-63.36
KOP (VAL 24 FC #704H)										
11,818.00	9.89	161.63	11,758.44	389.86	-652.03	10.76	10.61	-11.09	-26.15	-63.72
11,844.59	15.65	163.85	11,784.36	384.24	-650.31	21.74	21.67	8.34	-33.43	-62.34
HL Crossing, MD:11844.59', TVD:11784.36', N/S:384.24', E/W:-650.31', INC:15.65										
11,913.00	30.51	165.76	11,847.12	358.40	-643.44	21.74	21.72	2.79	-52.80	-58.87
12,009.00	34.02	169.36	11,928.29	308.37	-632.48	4.17	3.66	3.75	-79.30	-46.62
12,105.00	51.60	173.49	11,998.46	244.08	-623.18	18.54	18.31	4.30	-98.56	-32.97
12,133.08	52.81	173.09	12,015.66	222.05	-620.59	4.45	4.31	-1.43	-103.48	-30.61
FTP (VAL 24 FC #704H)										
12,201.00	55.74	172.17	12,055.32	167.37	-613.51	4.45	4.31	-1.35	-109.22	-23.35
12,296.00	58.55	170.15	12,106.86	88.53	-601.22	3.46	2.96	-2.13	-101.16	-9.46
12,392.00	62.51	172.09	12,154.08	5.97	-588.35	4.48	4.12	2.02	-75.06	8.05
12,487.00	69.10	175.95	12,193.01	-80.15	-579.41	7.86	6.94	4.06	-38.68	18.01
12,583.00	77.98	181.67	12,220.20	-172.06	-577.60	10.87	9.25	5.96	-11.76	18.59
12,679.00	85.63	182.54	12,233.88	-266.94	-581.10	8.02	7.97	0.91	1.49	14.29



EOG Resources
Final PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 83 NIME)	TVD Reference:	KB = 25 @ 3482.00usft
Site:	Valiant 24 Fed Com	MD Reference:	KB = 25 @ 3482.00usft
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)
	12,775.00	94.81	179.91	12,233.51	-362.81	-583.15	9.95	9.56	-2.74	0.86	11.62
	12,870.00	89.80	178.50	12,229.69	-457.69	-581.83	5.48	-5.27	-1.48	-3.15	12.32
	12,965.00	90.64	178.06	12,229.32	-552.65	-578.98	1.00	0.88	-0.46	-3.71	14.55
	13,062.00	90.95	176.39	12,227.98	-649.52	-574.28	1.75	0.32	-1.72	-5.26	18.61
	13,157.00	91.21	178.24	12,226.19	-744.39	-569.83	1.97	0.27	1.95	-7.25	22.43
	13,253.00	90.59	179.73	12,224.68	-840.36	-568.13	1.68	-0.65	1.55	-8.96	23.50
	13,349.00	91.47	180.17	12,222.95	-936.35	-568.05	1.02	0.92	0.46	-10.89	22.96
	13,444.00	89.89	180.08	12,221.83	-1,031.34	-568.26	1.67	-1.66	-0.09	-12.22	22.13
	13,540.00	88.04	179.38	12,223.56	-1,127.32	-567.80	2.06	-1.93	-0.73	-10.69	21.95
	13,636.00	89.71	183.60	12,225.44	-1,223.24	-570.30	4.73	1.74	4.40	-9.01	18.82
	13,731.00	89.36	182.46	12,226.22	-1,318.10	-575.32	1.26	-0.37	-1.20	-8.43	13.18
	13,827.00	89.49	180.70	12,227.18	-1,414.06	-577.97	1.84	0.14	-1.83	-7.67	9.90
	13,923.00	92.31	181.84	12,225.67	-1,510.01	-580.10	3.17	2.94	1.19	-9.38	7.14
	14,018.00	87.96	180.00	12,225.45	-1,604.97	-581.62	4.97	-4.58	-1.94	-9.80	5.00
	14,114.00	91.82	180.26	12,225.63	-1,700.95	-581.84	4.03	4.02	0.27	-9.82	4.16
	14,210.00	92.75	179.73	12,221.80	-1,796.87	-581.83	1.11	0.97	-0.55	-13.85	3.54
	14,305.00	91.25	180.17	12,218.49	-1,891.81	-581.75	1.65	-1.58	0.46	-17.36	2.99
	14,374.56	91.34	179.85	12,216.91	-1,961.36	-581.76	0.48	0.14	-0.46	-19.08	2.52
TGT 1 (VAL 24 FC #704H)											
	14,401.00	91.38	179.73	12,216.29	-1,967.79	-581.66	0.48	0.14	-0.46	-19.69	2.45
	14,496.00	91.52	179.03	12,213.88	-2,082.75	-580.64	0.75	0.15	-0.74	-21.93	2.85
	14,592.00	90.59	178.85	12,212.11	-2,178.72	-578.86	0.99	-0.97	-0.19	-23.53	4.00
	14,687.00	90.51	182.11	12,211.20	-2,273.70	-579.66	3.43	-0.08	3.43	-24.28	2.58
	14,783.00	89.23	182.54	12,211.42	-2,369.62	-583.55	1.41	-1.33	0.45	-23.89	-1.94
	14,879.00	91.87	182.81	12,210.50	-2,465.50	-588.03	2.76	2.75	0.28	-24.65	-7.05
	14,974.00	87.16	180.70	12,211.30	-2,560.42	-590.94	5.43	-4.96	-2.22	-23.67	-10.59
	15,070.00	90.77	180.61	12,213.04	-2,656.38	-592.04	3.76	3.76	-0.09	-21.77	-12.31



EOG Resources

Final PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Valiant 24 Fed Com
 Well: #704H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference:
 TVD Reference: KB = 25 @ 3482.00usft
 MID Reference: KB = 25 @ 3482.00usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey	MID (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)
	15,166.00	89.05	179.12	12,213.19	-2,752.37	-591.81	2.37	-1.79	-1.55	-21.46	-12.72
	15,261.00	91.47	180.00	12,212.76	-2,847.36	-591.08	2.71	2.55	0.93	-21.72	-12.61
	15,357.00	92.00	179.03	12,209.85	-2,943.31	-590.27	1.15	0.55	-1.01	-24.46	-12.43
	15,453.00	90.29	178.68	12,207.93	-3,039.27	-588.35	1.82	-1.78	-0.36	-26.21	-11.13
	15,549.00	89.49	179.56	12,208.12	-3,135.26	-586.88	1.24	-0.83	0.92	-25.86	-10.29
	15,644.00	89.80	178.68	12,208.70	-3,230.24	-585.42	0.98	0.33	-0.93	-25.11	-9.45
	15,740.00	86.77	178.59	12,211.58	-3,326.16	-583.13	3.16	-3.16	-0.09	-22.06	-7.81
	15,835.00	90.68	180.00	12,213.69	-3,421.11	-581.96	4.38	4.12	1.48	-19.79	-7.25
	15,931.00	91.65	179.47	12,211.74	-3,517.09	-581.52	1.15	1.01	-0.55	-21.57	-7.44
	16,026.00	92.18	179.12	12,208.56	-3,612.03	-580.35	0.67	0.56	-0.37	-24.58	-6.90
	16,122.00	87.96	177.71	12,208.45	-3,707.97	-577.70	4.63	-4.40	-1.47	-24.53	-4.87
	16,217.00	85.93	178.94	12,213.51	-3,802.78	-574.92	2.50	-2.14	1.29	-19.30	-2.72
	16,313.00	92.44	178.77	12,214.87	-3,898.70	-573.01	6.78	6.78	-0.18	-17.77	-1.43
	16,408.00	88.88	176.74	12,213.78	-3,993.60	-569.28	4.31	-3.75	-2.14	-18.70	1.67
	16,504.00	92.26	180.79	12,212.82	-4,089.54	-567.22	5.49	3.52	4.22	-19.49	3.11
	16,599.00	90.51	180.35	12,210.53	-4,184.51	-568.16	1.90	-1.84	-0.46	-21.62	1.54
	16,684.25	87.93	179.72	12,211.69	-4,269.74	-568.21	3.12	-3.03	-0.74	-20.31	0.93
TGT 2 (VAL 24 FC #704H)											
	16,695.00	87.60	179.64	12,212.11	-4,280.48	-568.15	3.12	-3.03	-0.74	-19.89	0.92
	16,791.00	89.93	180.35	12,214.18	-4,376.45	-568.14	2.54	2.43	0.74	-19.10	0.30
	16,886.00	91.56	180.17	12,212.95	-4,471.44	-568.58	1.73	1.72	-0.19	-21.88	-0.75
	16,982.00	90.59	179.03	12,211.14	-4,567.42	-567.90	1.56	-1.01	-1.19	-25.25	-0.72
	17,078.00	89.89	179.29	12,210.74	-4,663.41	-566.50	0.78	-0.73	0.27	-27.22	0.06
	17,173.00	89.23	179.47	12,211.47	-4,758.40	-565.47	0.72	-0.69	0.19	-28.04	0.47
	17,269.00	87.34	177.45	12,214.35	-4,854.31	-562.89	2.88	-1.97	-2.10	-26.74	2.40
	17,364.00	87.56	177.10	12,218.57	-4,949.11	-558.38	0.43	0.23	-0.37	-24.06	6.29



EOG Resources
Final PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Valiant 24 Fed Com
Well: #704H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB = 25 @ 3482.00usft
MD Reference: KB = 25 @ 3482.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

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)
17,387.52	87.14	176.73	12,219.66	-4,972.57	-557.12	2.37	-1.78	-1.56	-23.36	7.39
TGT 3 (VAL 24 FC #704H)										
17,460.00	85.85	175.60	12,224.09	-5,044.75	-552.28	2.37	-1.78	-1.56	-19.90	11.74
17,556.00	87.34	178.50	12,229.79	-5,140.44	-547.35	3.39	1.55	3.02	-15.41	16.08
17,651.00	93.41	181.84	12,229.17	-5,235.38	-547.63	7.29	6.39	3.52	-17.25	15.18
17,747.00	92.00	181.14	12,224.64	-5,331.24	-550.12	1.64	-1.47	-0.73	-23.02	12.07
17,843.00	90.02	180.87	12,222.95	-5,427.20	-551.81	2.08	-2.06	-0.28	-25.96	9.75
17,938.00	86.68	181.40	12,225.68	-5,522.13	-553.69	3.56	-3.52	0.56	-24.45	7.26
18,034.00	83.87	180.00	12,233.59	-5,617.79	-554.86	3.27	-2.93	-1.46	-17.78	5.47
18,130.00	91.60	180.61	12,237.38	-5,713.64	-555.37	8.08	8.05	0.64	-15.23	4.31
18,258.00	92.92	180.44	12,232.33	-5,841.53	-556.54	1.04	1.03	-0.13	-21.94	2.30
18,353.00	89.63	179.38	12,230.22	-5,936.49	-556.39	3.64	-3.46	-1.12	-25.28	1.82
18,391.79	89.33	178.63	12,230.57	-5,975.27	-555.72	2.08	-0.78	-1.93	-25.43	2.23
TGT 4 (VAL 24 FC #704H)										
18,449.00	88.88	177.53	12,231.47	-6,032.44	-553.81	2.08	-0.78	-1.93	-25.45	3.76
18,545.00	87.30	175.86	12,234.67	-6,128.22	-548.27	2.39	-1.65	-1.74	-23.83	8.64
18,640.00	87.47	177.62	12,239.00	-6,222.97	-542.88	1.86	0.18	1.85	-21.03	13.44
18,736.00	88.26	179.64	12,242.58	-6,318.87	-540.59	2.26	0.82	2.10	-19.01	15.12
18,832.00	87.52	179.29	12,246.11	-6,414.80	-539.69	0.85	-0.77	-0.36	-17.04	15.39
18,927.00	87.96	179.47	12,249.86	-6,509.72	-538.66	0.50	0.46	0.19	-14.84	15.79
19,023.00	85.45	177.62	12,255.38	-6,605.52	-536.23	3.25	-2.61	-1.93	-10.91	17.58
19,119.00	85.14	179.12	12,263.25	-6,701.15	-533.51	1.59	-0.32	1.56	-4.57	19.69
19,214.00	86.11	178.68	12,270.50	-6,795.86	-531.69	1.12	1.02	-0.46	1.11	20.89
19,310.00	83.60	178.06	12,279.11	-6,891.42	-528.97	2.69	-2.61	-0.65	8.09	23.01
19,406.00	87.25	178.50	12,286.77	-6,987.06	-526.10	3.83	3.80	0.46	14.26	25.23
19,501.00	90.20	179.03	12,288.88	-7,082.00	-524.05	3.15	3.11	0.56	14.85	26.65
19,597.00	90.73	179.12	12,288.10	-7,177.98	-522.51	0.56	0.55	0.09	12.51	27.57



EOG Resources
Final PVA

Company: EOG Resources - Midland		Local Co-ordinate Reference:		Well: #704H	
Project: Lea County, NM (NAD 83 NME)		TVD Reference:		KB = 25 @ 3482.00usft	
Site: Valiant 24 Fed Com		MD Reference:		KB = 25 @ 3482.00usft	
Well: #704H		North Reference:		Grid	
Wellbore: OH		Survey Calculation Method:		Minimum Curvature	
Design: OH		Database:		EDM 5000.14	

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)
	19,692.00	90.46	178.59	12,287.11	-7,272.96	-520.61	0.63	-0.28	-0.56	9.97	28.84
Final MWD Survey (MD=19962.00')											
	19,744.00	90.46	178.59	12,286.70	-7,324.94	-519.33	0.00	0.00	0.00	8.71	29.78
Final Projection to Bit (MD=19744.00') - PBHL (VAL 24 FC #704H)											

Design Annotations				Local Coordinates		Comment
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)			
11,844.59	11,784.36	384.24	-650.31	HL Crossing, MD:11844.59', TVD:11784.36', N/S:384.24', E/W:-650.31', INC:15.6		
19,692.00	12,287.11	-7,272.96	-520.61	Final MWD Survey (MD=19962.00')		
19,744.00	12,286.70	-7,324.94	-519.33	Final Projection to Bit (MD=19744.00')		

Checked By: _____	Approved By: _____	Date: _____
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Lea County, NM (NAD 83 NME)

Valiant 24 Fed Com #704H

Plan #1

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: #704H

KB = 25 @ 3482.00usft 3457.00
Northing 438344.00 Easting 759148.00 Latitude 32° 6' 52.870 N Longitude 103° 37' 47.361 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
1	878.00	1.41	265.03	878.63	-0.64	4.59	0.00	0.00	0.30
2	949.50	0.00	0.00	949.33	-0.72	3.73	2.00	180.00	0.44
3	2225.17	0.00	0.00	2225.00	-0.72	3.73	0.00	0.00	0.44
4	2674.94	9.00	305.82	2672.92	19.90	-24.84	2.00	305.82	-17.99
5	6985.12	9.00	305.82	6931.08	414.38	-571.43	0.00	0.00	-370.51
6	7435.89	0.00	179.62	7379.00	435.00	-600.00	2.00	180.00	-388.94
7	11811.39	0.00	179.62	11764.50	435.00	-600.00	0.00	0.00	-388.94
8	12560.38	89.98	179.62	12231.96	-41.45	-596.88	12.00	179.62	85.95
9	14480.78	89.98	179.62	12236.00	-1961.80	-584.28	0.00	1999.98	0.00
10	14480.78	90.10	179.62	12236.00	-1972.61	-584.21	2.00	0.00	2010.86
11	16788.43	90.10	179.62	12236.00	-4269.40	-568.81	0.00	0.00	4300.00
12	16840.20	89.06	179.62	12232.38	-4321.16	-564.21	2.00	180.00	4351.59
13	17490.84	89.06	179.62	12243.00	-4971.70	-564.54	0.00	0.00	4999.99
14	17500.54	89.26	179.62	12243.14	-4981.40	-564.43	2.00	0.00	5009.66
15	18494.24	89.26	179.62	12256.00	-5975.00	-557.96	0.00	0.00	5999.99
16	18503.85	89.07	179.62	12256.14	-5984.61	-557.90	2.00	180.00	6009.57
17	19845.45	89.07	179.62	12276.00	-7326.00	-549.10	0.00	0.00	7346.55

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (VAL 24 FC #704H)	11754.50	435.00	-600.00	438344.00	759148.00
FTP (VAL 24 FC #704H)	12232.00	335.00	-400.00	439555.00	760348.00
TGT 1 (VAL 24 FC #704H)	12232.00	-4269.40	-563.16	401800.50	758578.85
TGT 2 (VAL 24 FC #704H)	12236.00	-1961.80	-584.29	404208.20	759563.72
TGT 3 (VAL 24 FC #704H)	12243.00	-4971.70	-564.54	401168.50	758333.46
TGT 4 (VAL 24 FC #704H)	12256.00	-5975.00	-557.96	400195.00	758550.04
PSHL (VAL 24 FC #704H)	12276.00	-7326.00	-549.10	398844.00	758598.90

