

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 30-025-46572		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 705H
⁷ GRID No. 7377		⁸ Operator Name EOG RESOURCES, INC.			⁹ Elevation 3456'

¹⁰Surface Location

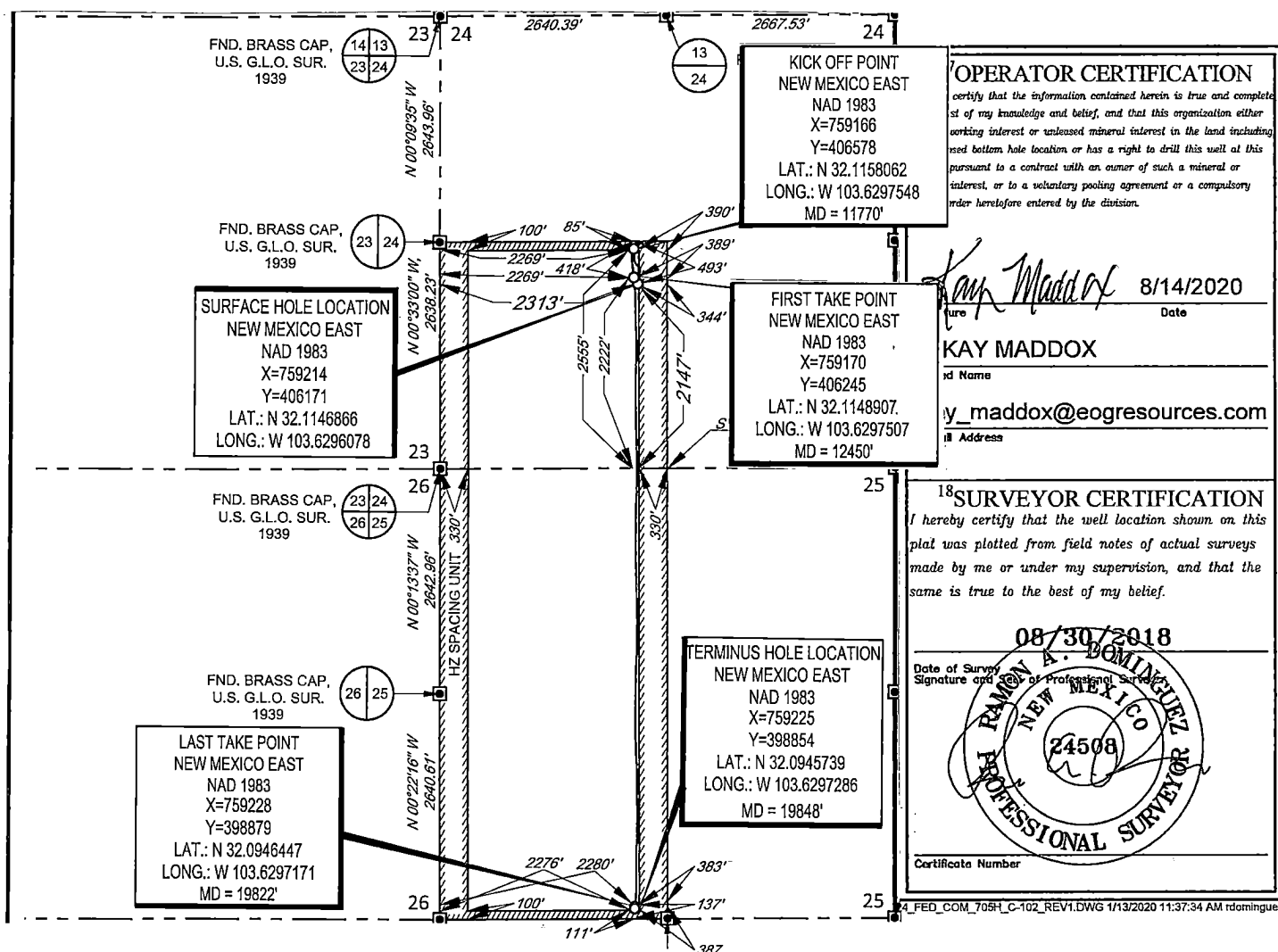
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	24	25-S	32-E	-	2147'	SOUTH	2313'	WEST	LEA

¹¹Bottom Hole Location If Different From Surface **SL**

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	-	111'	SOUTH	2267'	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'

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

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

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

KICK OFF POINT
NEW MEXICO EAST
NAD 1983
X=759166
Y=406578
LAT.: N 32.1158062
LONG.: W 103.6297548
MD = 11770'

SURFACE HOLE LOCATION
NEW MEXICO EAST
NAD 1983
X=759214
Y=406171
LAT.: N 32.1146866
LONG.: W 103.6296078

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

FIRST TAKE POINT
NEW MEXICO EAST
NAD 1983
X=759170
Y=406245
LAT.: N 32.1148907
LONG.: W 103.6297507
MD = 12450'

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

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

POINT	UTM ZONE 13 COORDINATES	
SHL	X=2064578.393	Y=11659983.623
KOP	X=2064527.883	Y=11660390.254
FTP	X=2064533.943	Y=11660057.338
LTP	X=2064637.487	Y=11652692.995
THL	X=2064634.642	Y=11652667.982

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

LAST TAKE POINT
NEW MEXICO EAST
NAD 1983
X=759228
Y=398879
LAT.: N 32.0946447
LONG.: W 103.6297171
MD = 19822'

TERMINUS HOLE LOCATION
NEW MEXICO EAST
NAD 1983
X=759225
Y=398854
LAT.: N 32.0945739
LONG.: W 103.6297286
MD = 19848'

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.
1939

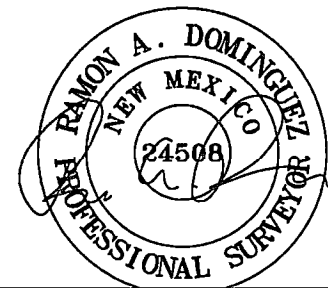
FND. BRASS CAP,
U.S. G.L.O. SUR.

LEASE NAME & WELL NO.: VALIANT 24 FED COM #705H
SECTION 24 TWP 25-S RGE 32-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3456'
DESCRIPTION 2147' FSL & 2313' 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 02, 2020

Geog resources, Inc.

VALIANT 24 FED COM #705H AS-COMplete DATE: 06/02/2020 FILE:AD_VALIANT_24_FED_COM_705H DRAWN BY: H.B. SHEET: 1 OF 1	REVISION:	NOTES: 1. ORIGINAL DOCUMENT SIZE: 8.5" X 11" 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. 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. 4. ADJOINER INFORMATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.



Rec'd 8/24/2020 - NMOCD

EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Valiant 24 Fed Com

#705H

OH

Design: OH

Final PVA

01 April, 2020



EOG Resources

Final PVA

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME) Site: Valiant 24 Fed Com Well: #705H Wellbore: OH Design: OH		Local Co-ordinate Reference: TVD Reference: KB = 25 @ 3481.0usft MD Reference: KB = 25 @ 3481.0usft North Reference: Grid Survey Calculation Method: Minimum Curvature Database: EDM 5000.14		Well #705H	
Project Lea County, NM (NAD 83 NME)					
Map System: US State Plane 1983					
Geo Datum: North American Datum 1983					
Map Zone: New Mexico Eastern Zone					
System Datum: Mean Sea Level					
Site Valiant 24 Fed Com					
Site Position:		Northings: 406,151.00 usft		Latitude: 32° 6' 52.620 N	
From:		Easting: 760,107.00 usft		Longitude: 103° 37' 36.212 W	
Position Uncertainty:		Slot Radius: 13-3/16 "		Grid Convergence: 0.38 °	
Well #705H		Northings: 406,171.00 usft		Latitude: 32° 6' 52.876 N	
Well Position		Easting: 759,214.00 usft		Longitude: 103° 37' 46.593 W	
Position Uncertainty		Wellhead Elevation: usft		Ground Level: 3,456.0 usft	
Wellbore OH					
Magnetics.		Model Name	Sample Date	Declination (°)	Dip Angle (°)
		IGRF2015	1/22/2019	6.80	59.93
				47,702.56541755	
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	179.65
Survey Program Date 4/1/2020					
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
140.0	19,848.0	Trueshot MWD #1 (OH)	EOG MWD+IFR1	MWD + IFR1	



EOG Resources

Final PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Valiant 24 Fed Com
 Well: #705H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference:
 TVD Reference: KB = 25 @ 3481.0usft
 MD Reference: KB = 25 @ 3481.0usft
 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)	DLeg (°/100usft)	Build (°/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
140.0	0.53	58.05	140.0	0.3	0.5	0.38	0.38	0.00	-0.6	0.0
323.0	0.97	160.00	323.0	-0.7	1.8	0.65	0.24	55.71	-1.2	1.5
505.0	1.19	175.56	505.0	-4.0	2.5	0.20	0.12	8.55	-4.2	2.2
694.0	1.14	178.19	693.9	-7.8	2.7	0.04	-0.03	1.39	-7.9	2.4
879.0	1.01	161.67	878.9	-11.2	3.3	0.18	-0.07	-8.93	-11.7	-0.4
983.0	0.92	173.62	982.9	-12.9	3.6	0.21	-0.09	11.49	-13.2	2.2
1,175.0	1.14	166.32	1,174.8	-16.3	4.3	0.13	0.11	-3.80	-16.9	0.3
1,366.0	1.19	149.62	1,365.8	-19.9	5.7	0.18	0.03	-8.74	-20.0	-5.1
1,558.0	1.41	5.57	1,557.8	-19.2	6.9	1.29	0.11	-75.03	18.5	-8.8
1,749.0	1.63	347.20	1,748.7	-14.2	6.6	0.28	0.12	-9.62	15.3	-3.3
1,941.0	1.67	349.49	1,940.6	-8.8	5.5	0.04	0.02	1.19	9.7	-3.8
2,132.0	2.07	346.94	2,131.5	-2.7	4.2	0.21	0.21	-1.34	3.6	-3.4
2,323.0	2.59	346.67	2,322.4	4.8	2.4	0.27	0.27	-0.14	-4.1	-3.4
2,514.0	2.90	351.77	2,513.2	13.8	0.7	0.21	0.16	2.67	-13.6	-2.7
2,705.0	5.85	6.71	2,703.6	28.3	1.2	1.64	1.54	7.82	-28.2	2.2
2,897.0	7.65	15.24	2,894.2	50.3	5.7	1.07	0.94	4.44	-50.0	7.8
3,088.0	7.78	17.88	3,083.5	74.9	13.0	0.20	0.07	1.38	-74.1	10.3
3,279.0	7.82	4.87	3,272.8	100.1	18.0	0.92	0.02	-6.81	-87.9	-10.8
3,471.0	7.96	9.17	3,463.0	126.3	21.3	0.32	0.07	2.24	-92.6	-7.2
3,662.0	6.02	352.39	3,652.5	149.3	22.1	1.46	-1.02	-8.79	-86.2	-34.5
3,853.0	5.63	356.43	3,842.6	168.5	20.1	0.30	-0.20	2.12	-84.5	-26.6
4,044.0	5.27	336.22	4,032.7	185.9	16.0	1.02	-0.19	-10.58	-66.3	-48.1
4,235.0	3.03	352.39	4,223.2	198.9	11.8	1.31	-1.17	8.47	-67.3	-22.7
4,426.0	4.48	311.08	4,413.8	208.9	5.5	1.56	0.76	-21.63	-31.6	-47.3
4,618.0	1.19	265.02	4,605.6	213.6	-2.1	1.95	-1.71	-23.99	3.4	-37.5
4,809.0	6.33	306.07	4,796.1	219.6	-12.6	2.87	2.69	21.49	-20.1	-10.6



EOG Resources

Final PVA

Company: EOG Resources - Midland				Local Co-ordinate Reference: Well #705H						
Project: Lea County, NM (NAD 83 NME)				KB = 25 @ 3481.0usft						
Site: Valiant 24 Fed Com				KB = 25 @ 3481.0usft						
Well: #705H				Grid						
Wellbore: OH				Minimum Curvature						
Design: OH				EDM 5000.14						
Survey Calculation Method:				Database:						
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)
5,001.0	7.91	330.15	4,986.7	237.3	-27.7	1.74	0.82	12.54	-25.1	14.2
5,192.0	9.89	338.50	5,175.4	264.0	-40.3	1.24	1.04	4.37	-30.4	27.8
5,383.0	11.34	2.06	5,363.2	298.0	-45.6	2.38	0.76	12.34	-27.6	43.0
5,575.0	12.40	14.45	5,551.1	336.9	-39.8	1.43	0.55	6.45	-34.5	45.8
5,766.0	12.53	13.83	5,737.6	376.9	-29.8	0.10	0.07	-0.32	-53.9	39.5
5,957.0	10.90	10.32	5,924.6	414.7	-21.6	0.93	-0.85	-1.84	-72.3	30.3
6,148.0	9.01	17.61	6,112.7	446.8	-13.8	1.19	-0.99	3.82	-78.8	34.1
6,340.0	3.60	23.59	6,303.5	466.6	-6.8	2.83	-2.82	3.11	-74.5	34.1
6,531.0	2.33	35.10	6,494.3	475.3	-2.2	0.73	-0.66	6.03	-57.0	35.8
6,722.0	2.02	84.14	6,685.1	478.8	3.4	0.96	-0.16	25.68	-14.3	47.6
6,913.0	3.03	142.24	6,876.0	475.2	9.8	1.36	0.53	30.42	17.2	33.4
7,105.0	2.64	137.14	7,067.7	467.9	15.9	0.24	-0.20	-2.66	4.1	33.7
7,296.0	2.55	194.89	7,258.6	460.6	17.8	1.31	-0.05	30.24	24.1	18.3
7,487.0	0.31	330.68	7,449.5	456.9	16.5	1.46	-1.17	71.09	-2.0	-26.9
7,678.0	0.62	286.73	7,640.5	457.7	15.2	0.24	0.16	-23.01	15.8	-21.1
7,870.0	0.44	314.77	7,832.5	458.5	13.7	0.16	-0.09	14.60	2.4	-25.6
8,061.0	0.35	214.31	8,023.5	458.5	12.9	0.32	-0.05	-52.60	24.3	6.3
8,252.0	0.40	257.20	8,214.5	457.9	11.9	0.15	0.03	22.46	21.0	-11.6
8,443.0	0.44	226.88	8,405.5	457.3	10.7	0.12	0.02	-15.87	22.6	0.3
8,634.0	0.84	193.04	8,596.5	455.4	9.9	0.28	0.21	-17.72	16.6	12.4
8,825.0	1.27	203.41	8,787.4	452.1	8.7	0.25	0.23	5.43	15.1	9.5
9,017.0	1.27	194.18	8,978.4	448.1	7.3	0.11	0.00	-4.81	9.2	11.4
9,208.0	0.84	191.81	9,170.4	444.7	6.5	0.23	-0.23	-1.24	5.2	11.7
9,399.0	0.66	182.76	9,361.4	442.2	6.2	0.11	-0.09	-4.74	0.8	12.2
9,591.0	2.77	221.61	9,553.3	437.6	3.1	1.19	1.10	20.23	2.7	9.7
9,779.0	2.07	218.18	9,741.1	431.5	-2.1	0.38	-0.37	-1.82	-5.8	9.6
9,973.0	2.68	227.67	9,934.9	425.7	-7.6	0.37	0.31	4.89	-12.1	11.0



EOG Resources Final PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Valiant 24 Fed Com
Well: #705H
Wellbore: OH
Design: OH

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

Well #705H
KB = 25 @ 3481.0usft
KB = 25 @ 3481.0usft
Grid
Minimum Curvature
EDM 5000.14

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)
	10,165.0	2.15	265.20	10,126.8	422.4	-14.5	0.85	-0.28	19.55	-10.1	18.8
	10,356.0	1.85	293.59	10,317.7	423.4	-20.9	0.54	-0.16	14.86	-6.2	23.0
	10,548.0	1.01	300.53	10,509.6	425.5	-25.2	0.45	-0.44	3.61	-8.1	24.0
	10,739.0	1.41	292.80	10,700.5	427.2	-28.8	0.23	0.21	-4.05	-15.3	22.5
	10,930.0	0.35	243.14	10,891.5	427.9	-31.5	0.64	-0.55	-26.00	-29.1	1.1
	11,121.0	1.54	185.57	11,082.5	425.0	-32.2	0.72	0.62	-30.14	-19.4	-24.5
	11,312.0	1.63	212.99	11,273.4	420.2	-34.0	0.40	0.05	14.36	-33.5	-11.6
	11,504.0	2.20	242.44	11,465.3	416.2	-38.7	0.58	0.30	15.34	-40.9	7.7
	11,590.0	2.33	228.55	11,551.3	414.3	-41.5	0.65	0.15	-16.15	-44.9	-2.7
	11,721.0	3.21	224.33	11,682.1	409.9	-46.1	0.69	0.67	-3.22	-50.9	-6.2
	11,805.4	5.23	210.97	11,766.3	404.9	-49.7	2.64	2.39	-15.82	-54.3	-18.5
KOP (VAL 24 FC #705H)											
	11,816.0	5.49	210.00	11,776.8	404.1	-50.2	2.64	2.50	-9.18	-54.9	-19.4
	11,912.0	11.08	208.33	11,871.8	392.0	-56.9	5.83	5.82	-1.74	-57.6	-27.2
	11,914.7	11.10	207.92	11,874.4	391.5	-57.1	3.04	0.77	-15.28	-57.3	-28.0
HL Crossing, MD: 11914.7, TVD: 11874.4, N/S: 391.5, EW: -57.1, INC: 11.10											
	11,959.0	11.52	201.39	11,917.9	383.6	-60.7	3.04	0.95	-14.73	-50.4	-39.7
	12,010.0	14.86	194.10	11,967.5	372.5	-64.2	7.30	6.55	-14.29	-37.1	-51.4
	12,106.0	19.34	198.31	12,059.3	345.5	-72.2	4.84	4.67	4.39	-19.5	-63.9
	12,137.0	26.11	183.81	12,087.9	333.8	-74.2	28.20	21.84	-46.77	4.9	-69.5
	12,169.0	34.77	177.57	12,115.4	317.6	-74.3	28.78	27.06	-19.50	18.3	-68.7
	12,201.0	41.54	173.35	12,140.6	297.9	-72.7	22.66	21.16	-13.19	26.3	-65.8
	12,214.1	45.38	172.76	12,150.1	289.0	-71.6	29.40	29.24	-4.48	27.7	-64.5
FTP (VAL 24 FC #705H)											
	12,233.0	50.90	172.04	12,162.7	275.0	-69.8	29.40	29.26	-3.82	28.5	-62.7
	12,265.0	57.76	173.00	12,181.4	249.3	-66.4	21.58	21.44	3.00	26.5	-60.1
	12,297.0	64.04	173.88	12,196.9	221.5	-63.2	19.77	19.62	2.75	23.2	-57.7



EOG Resources
Final PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NIME)
Site: Valiant 24 Fed Com
Well: #705H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB = 25 @ 3481.0usft
MD Reference: KB = 25 @ 3481.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

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)
12,337.0	73.36	173.53	12,211.4	184.5	-59.1	23.31	23.30	-0.87	17.0	-54.3
12,368.0	78.15	172.74	12,219.0	154.7	-55.5	15.65	15.45	-2.55	11.1	-51.2
12,400.0	78.29	172.39	12,225.6	123.6	-51.5	1.16	0.44	-1.09	5.9	-47.4
12,432.0	80.92	172.04	12,231.4	92.4	-47.2	8.29	8.22	-1.09	1.8	-43.5
12,464.0	83.21	172.74	12,235.8	61.0	-43.0	7.48	7.16	2.19	-1.7	-39.5
12,496.0	84.48	172.91	12,239.2	29.5	-39.0	4.00	3.97	0.53	-3.9	-35.8
12,592.0	89.63	177.05	12,244.1	-66.0	-30.7	6.88	5.36	4.31	-3.9	-28.0
12,687.0	89.71	176.61	12,244.7	-160.8	-25.4	0.47	0.08	-0.46	-3.7	-23.4
12,783.0	90.11	178.54	12,244.8	-256.8	-21.3	2.05	0.42	2.01	-3.9	-19.9
12,879.0	89.05	178.72	12,245.5	-352.7	-19.0	1.12	-1.10	0.19	-3.6	-18.3
12,975.0	87.82	178.80	12,248.2	-448.7	-17.0	1.28	-1.28	0.08	-1.3	-16.8
13,070.0	87.16	177.75	12,252.3	-543.5	-14.1	1.30	-0.69	-1.11	2.6	-14.6
13,166.0	93.54	177.31	12,251.7	-639.4	-10.0	6.66	6.65	-0.46	1.6	-11.1
13,262.0	92.48	180.03	12,246.7	-735.2	-7.8	3.04	-1.10	2.83	-3.8	-9.5
13,357.0	89.41	180.91	12,245.1	-830.2	-8.5	3.36	-3.23	0.93	-5.7	-10.9
13,453.0	92.04	182.14	12,243.9	-926.1	-11.1	3.02	2.74	1.28	-7.2	-14.1
13,548.0	88.66	181.26	12,243.3	-1,021.1	-13.9	3.68	-3.56	-0.93	-8.2	-17.5
13,644.0	92.66	181.35	12,242.2	-1,117.0	-16.1	4.17	4.17	0.09	-9.6	-20.3
13,740.0	89.71	178.89	12,240.2	-1,213.0	-16.3	4.00	-3.07	-2.56	-11.9	-21.2
13,836.0	88.88	178.72	12,241.4	-1,309.0	-14.3	0.88	-0.86	-0.18	-11.1	-19.8
13,931.0	87.34	178.10	12,244.6	-1,403.9	-11.7	1.75	-1.62	-0.65	-8.3	-17.8
14,027.0	92.97	179.86	12,244.3	-1,499.8	-9.9	6.14	5.86	1.83	-8.9	-16.7
14,122.0	89.45	178.45	12,242.3	-1,594.8	-8.5	3.99	-3.71	-1.48	-11.3	-15.9
14,218.0	89.76	177.84	12,242.9	-1,690.7	-5.4	0.71	0.32	-0.64	-10.9	-13.4
14,314.0	90.99	177.84	12,242.3	-1,786.6	-1.8	1.28	1.28	0.00	-11.9	-10.4
14,409.0	90.15	177.72	12,241.4	-1,881.6	1.9	0.89	-0.88	-0.13	-13.2	-7.4
14,505.0	90.77	176.23	12,240.6	-1,977.4	6.9	1.68	0.65	-1.55	-14.3	-2.9



EOG Resources
Final PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Valiant 24 Fed Com
Well: #705H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB = 25 @ 3481.0usft
MD Reference: KB = 25 @ 3481.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

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)
14,527.6	90.59	177.22	12,240.3	-1,999.9	8.2	4.46	-0.78	4.40	-14.7	-1.8
TGT 1 (VAL 24 FC #705H)										
14,601.0	90.02	180.45	12,239.9	-2,073.4	9.7	4.46	-0.78	4.40	-14.8	-0.8
14,696.0	90.15	180.97	12,239.8	-2,168.3	8.5	0.56	0.14	0.55	-14.3	-2.6
14,792.0	89.80	180.27	12,239.8	-2,264.3	7.5	0.82	-0.36	-0.73	-13.7	-4.3
14,887.0	88.35	180.62	12,241.4	-2,359.3	6.8	1.57	-1.53	0.37	-11.7	-5.6
14,983.0	89.80	182.38	12,242.9	-2,455.3	4.2	2.38	1.51	1.83	-9.6	-8.8
15,079.0	93.49	183.96	12,240.2	-2,551.1	-1.1	4.18	3.84	1.65	-11.7	-14.7
15,175.0	87.78	178.16	12,239.1	-2,647.0	-2.8	8.48	-5.95	-6.04	-12.2	-17.1
15,270.0	93.23	180.45	12,238.3	-2,741.9	-1.7	6.22	5.74	2.41	-12.5	-16.6
15,366.0	92.18	180.01	12,233.7	-2,837.8	-2.1	1.19	-1.09	-0.46	-16.5	-17.6
15,462.0	89.10	179.65	12,232.7	-2,933.8	-1.8	3.23	-3.21	-0.37	-17.0	-17.9
15,557.0	91.30	179.83	12,232.3	-3,028.8	-1.4	2.32	2.32	0.19	-16.8	-18.1
15,653.0	90.15	179.30	12,231.1	-3,124.8	-0.6	1.32	-1.20	-0.55	-17.5	-18.0
15,748.0	89.45	178.78	12,231.5	-3,219.7	1.0	0.92	-0.74	-0.55	-16.6	-17.1
15,844.0	91.38	178.34	12,230.8	-3,315.7	3.4	2.06	2.01	-0.46	-16.7	-15.3
15,939.0	91.96	177.46	12,228.0	-3,410.6	6.9	1.11	0.61	-0.93	-18.9	-12.4
16,035.0	89.41	176.49	12,226.8	-3,506.5	11.9	2.84	-2.66	-1.01	-19.5	-8.0
16,130.0	91.08	179.57	12,226.4	-3,601.4	15.2	3.69	1.76	3.24	-19.4	-5.3
16,226.0	88.79	178.42	12,226.5	-3,697.4	16.9	2.67	-2.39	-1.20	-18.7	-4.3
16,321.0	89.27	179.74	12,228.2	-3,792.3	18.4	1.48	0.51	1.39	-16.5	-3.4
16,417.0	90.37	179.30	12,228.5	-3,888.3	19.2	1.23	1.15	-0.46	-15.7	-3.2
16,512.0	87.43	178.60	12,230.3	-3,983.3	20.9	3.18	-3.09	-0.74	-13.3	-2.1
16,608.0	91.03	180.71	12,231.6	-4,079.2	21.5	4.35	3.75	2.20	-11.5	-2.2
16,703.0	90.24	180.97	12,230.5	-4,174.2	20.1	0.88	-0.83	0.27	-12.0	-4.2
16,799.0	87.87	180.09	12,232.1	-4,270.2	19.2	2.63	-2.47	-0.92	-9.8	-5.7
16,895.0	92.57	182.20	12,231.7	-4,366.2	17.3	5.37	4.90	2.20	-9.6	-8.2



EOG Resources

Final PVA

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Local Co-ordinate Reference:
 TVD Reference: KB = 25 @ 3481.0usft
 MID Reference: KB = 25 @ 3481.0usft
 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)
16,990.0	91.96	182.29	12,228.0	-4,461.0	13.6	0.65	-0.64	0.09	-12.8	-12.6
17,086.0	90.64	182.04	12,225.8	-4,556.9	10.0	1.40	-1.37	-0.26	-14.5	-16.8
17,128.4	90.49	181.61	12,225.4	-4,599.3	8.6	1.07	-0.36	-1.01	-14.6	-18.5
TGT 2 (VAL 24 FC #705H)										
17,182.0	90.29	181.07	12,225.0	-4,652.9	7.4	1.07	-0.36	-1.01	-15.1	-20.1
17,277.0	88.35	180.10	12,226.1	-4,747.9	6.4	2.28	-2.04	-1.02	-14.7	-21.7
17,373.0	88.00	180.19	12,229.2	-4,843.8	6.2	0.38	-0.36	0.09	-12.3	-22.5
17,468.0	86.77	179.05	12,233.5	-4,938.7	6.8	1.76	-1.29	-1.20	-8.7	-22.5
17,564.0	87.60	180.54	12,238.3	-5,034.6	7.1	1.77	0.86	1.55	-4.7	-22.8
17,660.0	89.54	180.37	12,240.6	-5,130.5	6.4	2.03	2.02	-0.18	-3.0	-24.2
17,755.0	88.70	178.96	12,242.1	-5,225.5	6.9	1.73	-0.88	-1.48	-2.2	-24.3
17,851.0	88.18	177.20	12,244.7	-5,321.4	10.1	1.91	-0.54	-1.83	-0.2	-21.7
17,947.0	90.51	176.15	12,245.8	-5,417.3	15.7	2.66	2.43	-1.09	0.1	-16.7
18,043.0	91.47	177.47	12,244.2	-5,513.1	21.1	1.70	1.00	1.37	-2.2	-12.0
18,130.4	89.73	176.26	12,243.2	-5,600.3	25.8	2.43	-1.99	-1.39	-3.8	-7.8
TGT 3 (VAL 24 FC #705H)										
18,138.0	89.58	176.15	12,243.3	-5,607.9	26.3	2.43	-1.99	-1.39	-3.8	-7.4
18,234.0	89.27	179.05	12,244.3	-5,703.8	30.4	3.04	-0.32	3.02	-3.9	-4.0
18,330.0	91.91	179.93	12,243.3	-5,799.8	31.2	2.90	2.75	0.92	-5.9	-3.8
18,425.0	91.03	179.31	12,240.8	-5,894.8	31.8	1.13	-0.93	-0.65	-9.4	-3.8
18,521.0	89.85	178.35	12,240.1	-5,990.8	33.8	1.58	-1.23	-1.00	-11.2	-2.4
18,617.0	88.22	178.35	12,241.7	-6,086.7	36.6	1.70	-1.70	0.00	-10.7	-0.3
18,712.0	90.81	180.19	12,242.5	-6,181.7	37.8	3.34	2.73	1.94	-10.9	0.3
18,808.0	91.69	179.49	12,240.4	-6,277.6	38.0	1.17	0.92	-0.73	-14.1	-0.1
18,904.0	91.78	179.05	12,237.5	-6,373.6	39.3	0.47	0.09	-0.46	-18.1	0.5
18,999.0	90.86	182.57	12,235.3	-6,468.5	37.9	3.83	-0.97	3.71	-21.3	-1.4



EOG Resources
Final PVA

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Local Co-ordinate Reference:
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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)
19,030.5	89.81	183.06	12,235.1	-6,500.0	36.4	3.69	-3.34	1.55	-21.9	-3.2
TGT 4 (VAL 24 FC #705H)										
19,095.0	87.65	184.06	12,236.6	-6,564.4	32.4	3.69	-3.34	1.55	-21.4	-7.6
19,191.0	84.09	182.48	12,243.5	-6,659.9	26.9	4.06	-3.71	-1.65	-16.1	-13.7
19,286.0	88.79	178.87	12,249.4	-6,754.7	25.8	6.23	4.95	-3.80	-11.6	-15.4
19,382.0	86.51	178.43	12,253.3	-6,850.6	28.1	2.42	-2.37	-0.46	-9.2	-13.8
19,478.0	92.62	178.26	12,254.0	-6,946.5	30.8	6.37	6.36	-0.18	-10.0	-11.6
19,573.0	91.12	180.37	12,250.9	-7,041.4	32.0	2.72	-1.58	2.22	-14.6	-11.1
19,669.0	88.66	182.92	12,251.1	-7,137.4	29.2	3.69	-2.56	2.66	-16.0	-14.5
19,765.0	88.53	186.70	12,253.5	-7,233.0	21.2	3.94	-0.14	3.94	-15.3	-23.1
19,796.0	90.02	187.49	12,253.9	-7,263.8	17.3	5.44	4.81	2.55	-15.4	-27.1
Final MWD Survey (MD=19796.0')										
19,846.2	90.02	187.49	12,253.9	-7,313.5	10.8	0.00	0.00	0.00	-16.2	-34.0
PBHL (VAL 24 FC #705H)										
19,848.0	90.02	187.49	12,253.9	-7,315.3	10.6	0.00	0.00	0.00	-16.2	-34.3
Final Projection to Bit (MD=19848.0')										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
11,914.7	11,874.4	391.5	-57.1	HL Crossing, MD:11914.7', TVD:11874.4', N/S:391.5', EW:-57.1', INC:11.10
19,796.0	12,253.9	-7,263.8	17.3	Final MWD Survey (MD=19796.0')
19,848.0	12,253.9	-7,315.3	10.6	Final Projection to Bit (MD=19848.0')

Checked By: _____

Approved By: _____

Date: _____

