

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 30-025-46573		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 711H
⁷ GRID No. 7377		⁸ Operator Name EOG RESOURCES, INC.			⁹ Elevation 3448'

¹⁰Surface Location

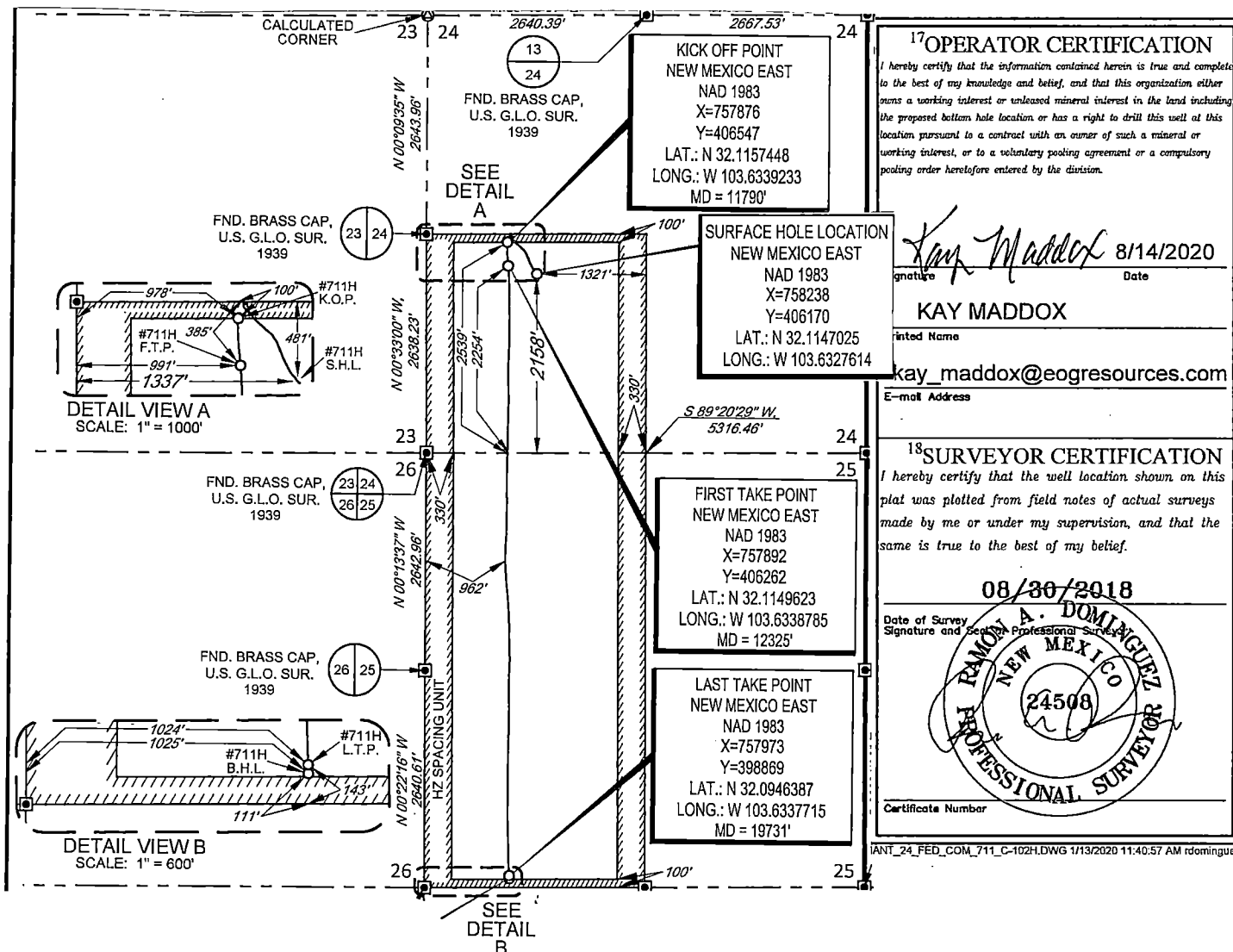
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	24	25-S	32-E	-	2158'	SOUTH	1337'	WEST	LEA

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
M	25	25-S	32-E	-	111'	SOUTH	1025'	WEST	LEA

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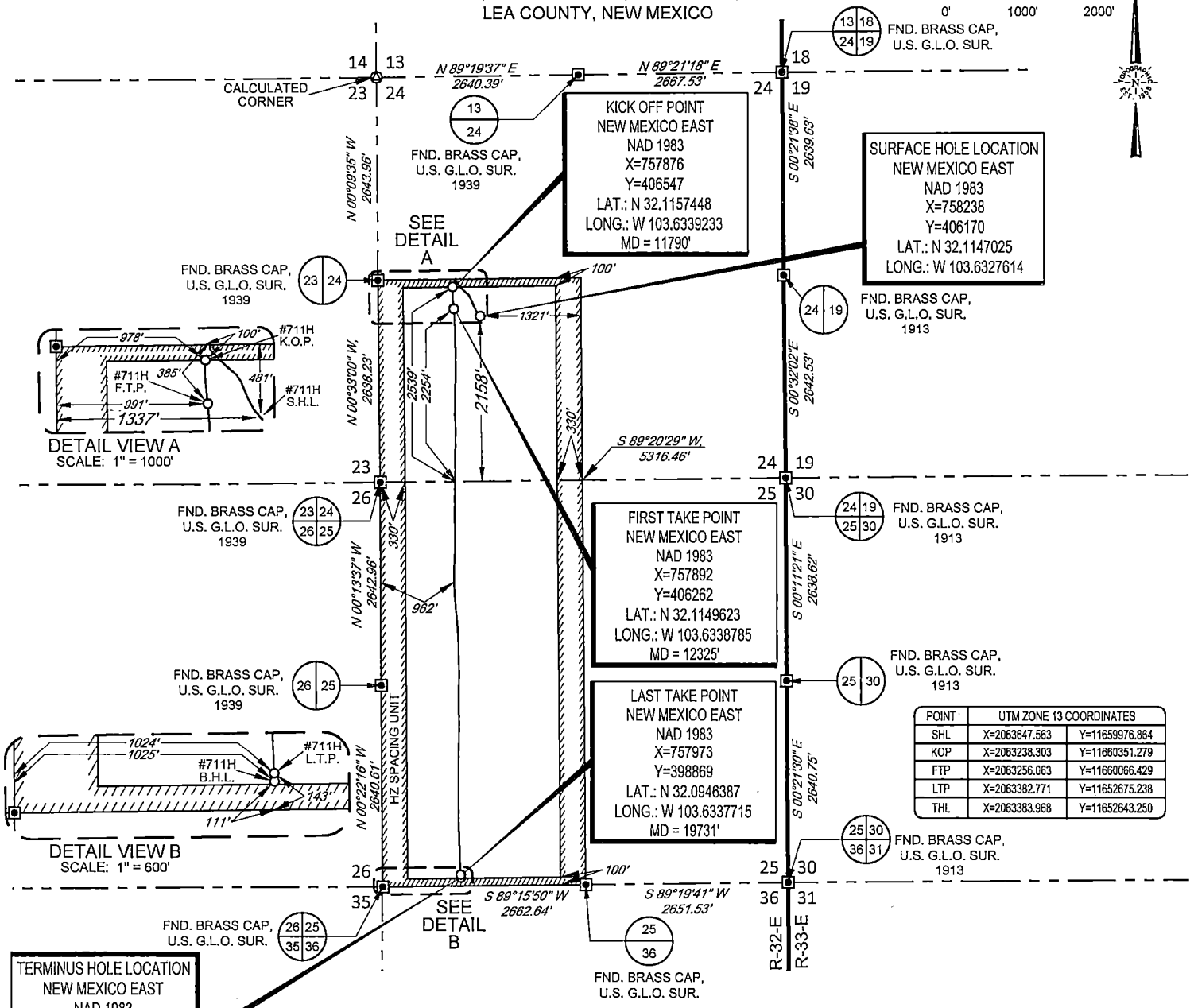
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



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

SCALE: 1" = 2000'

0' 1000' 2000'



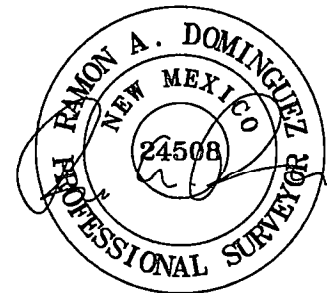
TERMINUS HOLE LOCATION
NEW MEXICO EAST
NAD 1983
X=757974
Y=398837
LAT.: N 32.0945509
LONG.: W 103.6337678
MD = 19763'

LEASE NAME & WELL NO.: VALIANT 24 FED COM #711H
SECTION 24 TWP 25-S RGE 32-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3448'
DESCRIPTION 2158' FSL & 1337' FWL



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

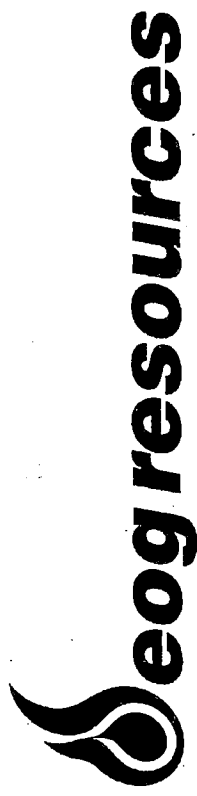
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM



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

Geog resources, Inc.

VALIANT 24 FED COM #711H AS-COMPLETED	REVISION:	NOTES:
DATE: 06/26/2020		1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
FILE:AD_VALIANT_24_FED_COM_711H		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 GEO 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.



Rec'd 8/24/2020 - NMOCD

EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Valiant 24 Fed Com

#711H

OH

Design: OH

Midland PVA

16 April, 2020



EOG Resources
Midland PVA

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME) Site: Valiant 24 Fed Com Well: #711H Wellbore: OH Design: OH		Local Co-ordinate Reference: TVD Reference: KB = 25 @ 3473.0usft MD Reference: KB = 25 @ 3473.0usft North Reference: Grid Survey Calculation Method: Minimum Curvature Database: EDM		Well #711H KB = 25 @ 3473.0usft Grid Minimum Curvature EDM
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				
Site Valiant 24 Fed Com				
Site Position: From: Map Position Uncertainty: 0.0 usft		Northing: 406,151.00 usft Easting: 760,107.00 usft Slot Radius: 13-3/16 "	Latitude: 32° 6' 52.620 N Longitude: 103° 37' 36.212 W Grid Convergence: 0.38 °	
Well #711H				
Well Position +N/-S 0.0 usft +E/-W 0.0 usft Position Uncertainty 0.0 usft		Northing: 406,170.00 usft Easting: 758,238.00 usft Wellhead Elevation: usft	Latitude: 32° 6' 52.929 N Longitude: 103° 37' 57.941 W Ground Level: 3,448.0 usft	
Wellbore OH				
Magnetics		Model Name IGRF2015 Sample Date 4/8/2020 Declination (°) 6.67 Dip Angle (°) 59.92 Field Strength (nT) 47,578.19772131		
Design OH				
Audit Notes:				
Version: 1.0	Phase: ACTUAL	Tie On Depth: 0.0		
Vertical Section:		Depth From (TVD) (usft) 0.0 +N/-S (usft) 0.0 +E/-W (usft) 0.0 Direction (°) 182.33		
Survey Program Date 4/16/2020				
From (usft) 146.0	To (usft) 19,763.0	Survey (Wellbore) Dritech MWD (OH)	Tool Name EOG MWD+IFR1	Description MWD + IFR1



EOG Resources

Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Valiant 24 Fed Com
 Well: #711H
 Wellbore: OH
 Design: OH

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

Well #711H
 KB = 25 @ 3473.0usft
 KB = 25 @ 3473.0usft
 Grid
 Minimum Curvature
 EDM

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)
	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
	146.0	1.49	119.66	146.0	-0.9	1.6	1.02	1.02	0.00	-1.9	0.0
	205.0	1.58	118.78	205.0	-1.7	3.0	0.16	0.15	-1.49	-3.5	0.0
	294.0	1.32	122.12	293.9	-2.8	5.0	0.31	-0.29	3.75	-5.7	0.2
	382.0	1.23	123.79	381.9	-3.9	6.6	0.11	-0.10	1.90	-7.7	0.4
	468.0	1.23	130.47	467.9	-5.0	8.1	0.17	0.00	7.77	-9.4	1.4
	554.0	0.97	136.97	553.9	-6.2	9.3	0.33	-0.30	7.56	-10.8	2.6
	653.0	0.70	156.31	652.9	-7.3	10.1	0.39	-0.27	19.54	-10.8	6.3
	749.0	0.53	166.77	748.9	-8.3	10.4	0.21	-0.18	10.90	-10.5	8.3
	826.0	0.53	173.01	825.9	-9.0	10.6	0.07	0.00	8.10	-10.2	9.4
	930.0	0.62	197.18	929.9	-10.0	10.5	0.25	0.09	23.24	-6.5	12.9
	1,026.0	1.85	314.60	1,025.8	-9.4	9.2	2.30	1.28	122.31	13.3	0.3
	1,122.0	2.02	318.47	1,121.8	-7.1	7.0	0.22	0.18	4.03	12.5	-0.4
	1,218.0	4.22	322.33	1,217.6	-3.0	3.7	2.30	2.29	4.02	12.9	-1.3
	1,313.0	4.84	322.42	1,312.3	2.9	-0.9	0.65	0.65	0.09	14.1	-1.6
	1,409.0	6.60	320.49	1,407.9	10.4	-6.9	1.84	1.83	-2.01	14.6	-1.2
	1,505.0	7.47	321.37	1,503.1	19.5	-14.3	0.91	0.91	0.92	12.9	-1.5
	1,601.0	7.56	317.85	1,598.3	29.1	-22.4	0.49	0.09	-3.67	10.4	-0.6
	1,696.0	7.65	315.30	1,692.5	38.2	-31.1	0.37	0.09	-2.68	7.7	0.5
	1,792.0	8.09	326.20	1,787.6	48.4	-39.3	1.62	0.46	11.35	4.6	-0.7
	1,888.0	8.62	329.72	1,882.6	60.2	-46.7	0.77	0.55	3.67	0.5	-2.2
	1,984.0	8.62	330.68	1,977.5	72.7	-53.8	0.15	0.00	1.00	-4.0	-3.8
	2,080.0	8.53	330.33	2,072.4	85.2	-60.9	0.11	-0.09	-0.36	-8.5	-5.6
	2,176.0	8.62	332.00	2,167.3	97.7	-67.8	0.28	0.09	1.74	-13.1	-7.1
	2,272.0	8.27	332.88	2,262.3	110.2	-74.3	0.39	-0.36	0.92	-17.5	-8.9
	2,367.0	8.09	332.88	2,356.3	122.2	-80.5	0.19	-0.19	0.00	-21.4	-11.0
	2,463.0	7.83	335.34	2,451.4	134.2	-86.3	0.45	-0.27	2.56	-25.4	-12.3



EOG Resources Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Valiant 24 Fed Com
Well: #711H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB = 25 @ 3473.0usft
MD Reference: KB = 25 @ 3473.0usft
North Reference: Grid
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)
	2,559.0	7.74	337.89	2,546.5	146.1	-91.4	0.37	-0.09	2.66	-29.4	-13.9
	2,655.0	7.21	337.36	2,641.7	157.7	-96.2	0.56	-0.55	-0.55	-32.1	-17.1
	2,751.0	7.47	341.23	2,736.9	169.1	-100.5	0.58	0.27	4.03	-36.1	-18.0
	2,847.0	7.74	339.82	2,832.1	181.1	-104.8	0.34	0.28	-1.47	-38.8	-22.3
	2,942.0	8.00	333.85	2,926.2	193.0	-109.9	0.90	0.27	-6.28	-39.6	-29.2
	3,038.0	8.00	336.31	3,021.2	205.2	-115.5	0.36	0.00	2.56	-44.6	-29.9
	3,229.0	7.65	340.53	3,210.5	228.3	-125.1	0.35	-0.18	2.21	-53.8	-32.3
	3,325.0	7.03	325.41	3,305.7	240.2	-130.6	2.11	-0.65	-15.75	-45.7	-47.7
	3,421.0	7.21	320.66	3,400.9	249.7	-137.7	0.64	0.19	-4.95	-43.4	-51.8
	3,517.0	6.51	335.43	3,496.3	259.3	-143.8	1.97	-0.73	15.39	-56.7	-40.1
	3,613.0	5.89	322.68	3,591.7	268.1	-149.0	1.57	-0.65	-13.28	-46.7	-53.1
	3,709.0	5.45	331.03	3,687.2	276.1	-154.2	0.97	-0.46	8.70	-53.5	-46.9
	3,805.0	5.01	314.60	3,782.8	283.0	-159.4	1.62	-0.46	-17.11	-36.7	-60.3
	3,900.0	5.28	306.34	3,877.5	288.5	-165.9	0.83	0.28	-8.69	-26.5	-63.0
	3,996.0	5.63	306.78	3,973.0	293.9	-173.2	0.37	0.36	0.46	-26.4	-60.4
	4,092.0	4.48	304.67	4,068.6	298.9	-180.1	1.21	-1.20	-2.20	-22.9	-58.7
	4,188.0	4.22	314.60	4,164.4	303.5	-185.7	0.83	-0.27	10.34	-29.9	-52.2
	4,283.0	4.31	307.83	4,259.1	308.1	-191.0	0.54	0.09	-7.13	-20.9	-53.6
	4,379.0	5.72	314.95	4,354.7	313.7	-197.2	1.60	1.47	7.42	-25.7	-49.1
	4,475.0	5.45	313.46	4,450.3	320.2	-203.9	0.32	-0.28	-1.55	-23.8	-48.6
	4,570.0	5.98	315.65	4,544.8	326.9	-210.7	0.60	0.56	2.31	-25.2	-46.7
	4,666.0	6.86	310.91	4,640.2	334.2	-218.5	1.07	0.92	-4.94	-22.1	-47.3
	4,762.0	6.16	312.66	4,735.6	341.5	-226.6	0.76	-0.73	1.82	-24.5	-45.0
	4,858.0	5.28	307.22	4,831.1	347.6	-233.9	1.08	-0.92	-5.67	-19.9	-45.3
	4,954.0	5.72	315.21	4,926.7	353.7	-240.8	0.92	0.46	8.32	-25.1	-40.5
	5,049.0	7.03	310.12	5,021.1	360.8	-248.6	1.50	1.38	-5.36	-22.2	-41.2
	5,145.0	8.00	313.28	5,116.3	369.2	-257.9	1.10	1.01	3.29	-27.1	-38.3



EOG Resources Midland PVA

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	5,241.0	7.65	311.96	5,211.4	378.0	-267.6	0.41	-0.36	-1.37	-29.3	-37.5
	5,337.0	8.71	319.61	5,306.4	387.8	-277.0	1.58	1.10	7.97	-37.6	-32.3
	5,433.0	9.06	320.49	5,401.2	399.2	-286.5	0.39	0.36	0.92	-42.9	-31.6
	5,528.0	9.23	320.40	5,495.0	410.8	-296.1	0.18	0.18	-0.09	-48.1	-31.7
	5,624.0	9.23	316.80	5,589.8	422.4	-306.3	0.60	0.00	-3.75	-51.4	-34.4
	5,720.0	8.00	314.69	5,684.7	432.7	-316.3	1.32	-1.28	-2.20	-54.6	-35.5
	5,816.0	7.74	325.15	5,779.8	442.7	-324.8	1.51	-0.27	10.90	-63.1	-24.6
	5,911.0	6.33	344.66	5,874.1	453.0	-329.8	2.90	-1.48	20.54	-69.9	-4.1
	6,007.0	4.84	343.51	5,969.6	462.0	-332.4	1.56	-1.55	-1.20	-69.9	-9.5
	6,103.0	2.37	21.48	6,065.5	467.7	-332.8	3.45	-2.57	39.55	-61.3	29.1
	6,295.0	2.55	30.71	6,257.3	475.1	-329.2	0.23	0.09	4.81	-57.1	20.4
	6,486.0	3.08	108.23	6,448.1	477.1	-322.1	1.86	0.28	40.59	-9.3	57.3
	6,582.0	3.96	137.50	6,543.9	473.9	-317.4	2.05	0.92	30.49	12.5	55.7
	6,678.0	4.04	144.00	6,639.7	468.7	-313.2	0.48	0.08	6.77	12.1	54.3
	6,774.0	2.29	174.94	6,735.6	464.1	-311.1	2.49	-1.82	32.23	33.5	42.1
	6,869.0	1.93	184.87	6,830.5	460.6	-311.0	0.54	-0.38	10.45	36.7	36.0
	6,965.0	2.11	179.77	6,926.4	457.2	-311.1	0.26	0.19	-5.31	30.0	39.0
	7,061.0	2.46	183.29	7,022.4	453.4	-311.3	0.39	0.36	3.67	28.5	37.2
	7,157.0	1.06	136.27	7,118.3	450.7	-310.8	1.98	-1.46	-48.98	-10.0	44.7
	7,252.0	1.49	136.18	7,213.3	449.1	-309.3	0.45	0.45	-0.09	-12.2	44.7
	7,348.0	1.14	132.58	7,309.3	447.6	-307.7	0.37	-0.36	-3.75	-17.2	43.8
	7,390.3	1.18	129.44	7,351.6	447.0	-307.1	0.18	0.09	-7.43	-20.4	42.7
Brusby Top (VAL 24 FC #721H)	7,443.0	1.23	125.81	7,404.2	446.4	-306.2	0.18	0.10	-6.88	-24.2	41.3
	7,539.0	1.14	136.00	7,500.2	445.1	-304.7	0.24	-0.09	10.61	-18.5	45.1
	7,635.0	0.70	138.11	7,596.2	443.9	-303.7	0.46	-0.46	2.20	-18.3	45.8
	7,730.0	0.79	141.81	7,691.2	443.0	-302.9	0.11	0.09	3.89	-16.6	46.9



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Well #711H
 KB = 25 @ 3473.0usft
 KB = 25 @ 3473.0usft
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 Minimum Curvature
 EDM

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)
7,826.0	0.97	143.12	7,787.2	441.8	-302.0	0.19	0.19	1.36	-17.0	47.3
7,922.0	0.97	148.48	7,883.2	440.5	-301.1	0.09	0.00	5.58	-14.1	48.8
8,017.0	0.97	154.02	7,978.2	439.1	-300.3	0.10	0.00	5.83	-10.9	50.0
8,113.0	0.88	162.20	8,074.1	437.6	-299.7	0.17	-0.09	8.52	-5.2	51.1
8,208.0	0.79	170.02	8,170.1	436.3	-299.4	0.15	-0.09	8.15	0.4	51.5
8,304.0	0.97	175.20	8,265.1	434.8	-299.2	0.21	0.19	5.45	3.6	51.3
8,400.0	1.06	174.06	8,361.1	433.2	-299.0	0.10	0.09	-1.19	0.8	51.3
8,496.0	1.06	177.66	8,457.1	431.4	-298.9	0.07	0.00	3.75	2.3	51.2
8,591.0	1.23	182.23	8,552.1	429.5	-298.9	0.20	0.18	4.81	4.5	51.0
8,687.0	1.14	184.78	8,648.1	427.5	-299.0	0.11	-0.09	2.66	4.7	50.8
8,783.0	1.14	196.03	8,744.0	425.6	-298.4	0.23	0.00	11.72	12.7	49.0
8,879.0	1.14	205.79	8,840.0	423.9	-300.0	0.20	0.00	10.17	18.9	46.4
8,975.0	1.06	244.46	8,936.0	422.6	-301.3	0.76	-0.08	40.28	42.1	25.0
9,070.0	1.32	256.50	9,031.0	422.0	-303.1	0.38	0.27	12.67	44.4	15.8
9,166.0	1.85	263.71	9,126.9	421.5	-305.7	0.59	0.55	7.51	43.4	10.3
9,262.0	1.67	238.40	9,222.9	420.6	-308.5	0.82	-0.19	-26.36	32.0	27.2
9,358.0	1.93	248.86	9,318.9	419.3	-311.2	0.44	0.27	10.90	33.5	21.2
9,453.0	2.29	248.94	9,413.8	418.1	-314.4	0.38	0.38	0.08	30.0	21.1
9,549.0	2.46	232.86	9,509.7	416.1	-317.9	0.71	0.18	-16.75	19.1	28.1
9,643.0	2.20	227.76	9,603.6	413.7	-320.8	0.35	-0.28	-5.43	12.7	29.5
9,739.0	2.02	236.38	9,699.6	411.5	-323.6	0.38	-0.19	8.98	13.4	27.5
9,835.0	2.11	223.63	9,795.5	409.3	-326.2	0.49	0.09	-13.28	3.6	29.4
9,930.0	1.76	221.08	9,890.4	407.0	-328.4	0.38	-0.37	-2.68	-0.9	29.5
10,026.0	1.76	233.12	9,986.4	405.0	-330.5	0.38	0.00	12.54	2.4	29.3
10,122.0	1.76	256.24	10,082.4	403.7	-333.1	0.73	0.00	24.08	10.8	26.6
10,218.0	1.41	283.84	10,178.3	403.7	-335.7	0.66	-0.36	28.75	19.5	19.3
10,314.0	2.64	260.55	10,274.3	403.6	-339.0	1.52	1.28	-24.26	7.0	24.9

Survey



EOG Resources
Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Valiant 24 Fed Com
Well: #711H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB = 25 @ 3473.0usft
MD Reference: KB = 25 @ 3473.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
10,409.0	2.81	263.97	10,369.2	403.0	-343.5	0.25	0.18	3.60	3.9	24.6
10,506.0	2.46	256.85	10,466.1	402.2	-347.9	0.49	-0.36	-7.34	-3.6	24.6
10,601.0	2.20	260.02	10,561.0	401.5	-351.7	0.31	-0.27	3.34	-6.1	24.9
10,697.0	1.49	248.22	10,656.9	400.6	-354.6	0.87	-0.74	-14.37	-14.9	22.3
10,793.0	1.32	224.25	10,752.9	399.3	-356.5	0.58	-0.18	-22.89	-24.4	14.6
10,889.0	0.53	200.69	10,848.9	398.1	-357.5	0.90	-0.82	-24.54	-29.6	3.2
10,985.0	0.26	149.28	10,944.9	397.5	-357.5	0.44	-0.28	-53.55	-21.5	-21.5
11,081.0	0.53	197.88	11,040.9	396.9	-357.5	0.42	0.28	50.62	-30.9	2.0
11,177.0	0.88	216.16	11,136.9	395.9	-358.1	0.43	0.36	19.04	-29.9	11.8
11,273.0	0.97	208.78	11,232.9	394.6	-358.9	0.16	0.09	-7.69	-32.7	7.8
11,369.0	1.67	190.94	11,328.8	392.5	-359.6	0.84	0.73	-18.58	-35.7	-2.9
11,464.0	1.58	181.00	11,423.8	389.8	-359.9	0.31	-0.09	-10.46	-37.3	-9.2
11,510.0	2.11	178.90	11,469.8	388.4	-359.9	1.16	1.15	-4.57	-38.4	-10.6
11,587.0	2.02	185.49	11,546.7	385.6	-360.0	0.33	-0.12	8.56	-42.2	-6.0
11,682.0	2.55	196.65	11,641.6	381.9	-360.8	0.73	0.56	11.75	-46.3	2.6
11,778.0	2.81	195.95	11,737.5	377.6	-362.0	0.27	0.27	-0.73	-50.7	2.0
11,788.9	4.42	190.80	11,748.4	376.9	-362.2	15.01	14.73	-47.22	-51.0	-2.7
FTP Crossing, MD:11788.9', TVD:11748.4', N/S:376.9', E/W:-362.2', INC:4.42										
11,790.0	4.58	190.48	11,749.5	376.8	-362.2	15.01	14.84	-28.97	-51.0	-3.0
KOP, MD:11790.0', TVD:11749.5', N/S:376.8', E/W:-362.2', INC:4.58										
11,874.0	17.15	184.17	11,831.8	361.1	-363.7	15.01	14.97	-7.52	-53.7	-10.0
11,969.0	21.37	179.42	11,921.5	329.8	-364.5	4.73	4.44	-5.00	-50.4	-15.4
12,065.0	32.89	180.04	12,006.8	286.1	-364.4	12.00	12.00	0.65	-40.0	-15.2
12,161.0	44.05	174.03	12,081.9	226.7	-360.9	12.25	11.62	-6.26	-26.7	-14.0
FTP VAL 24 FC #721H										
12,257.0	56.45	173.33	12,143.1	153.5	-352.8	12.93	12.92	-0.73	-14.2	-5.3
12,352.0	70.17	174.82	12,185.7	69.2	-344.1	14.51	14.44	1.57	-4.0	3.5



EOG Resources Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Valiant 24 Fed Com
Well: #711H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB = 25 @ 3473.0usft
MD Reference: KB = 25 @ 3473.0usft
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)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,448.0	90.31	176.93	12,201.9	-24.6	-337.4	21.09	20.98	2.20	-2.4	9.7
12,543.0	90.48	179.22	12,201.3	-119.6	-334.2	2.42	0.18	2.41	-3.9	12.2
12,636.0	90.48	178.69	12,200.5	-212.6	-332.5	0.57	0.00	-0.57	-4.9	13.3
12,735.0	90.22	178.16	12,199.9	-311.5	-329.8	0.60	-0.26	-0.54	-5.8	15.4
12,831.0	90.84	179.83	12,199.0	-407.5	-328.1	1.86	0.65	1.74	-6.9	16.4
12,927.0	90.66	179.39	12,197.7	-503.5	-327.4	0.50	-0.19	-0.46	-8.4	16.5
13,023.0	89.34	178.69	12,197.7	-599.5	-325.8	1.56	-1.37	-0.73	-8.7	17.4
13,118.0	91.80	180.54	12,196.8	-694.5	-325.2	3.24	2.59	1.95	-9.9	17.4
13,214.0	89.60	179.66	12,195.6	-790.4	-325.3	2.47	-2.29	-0.92	-11.3	16.7
13,310.0	93.21	182.12	12,193.3	-886.4	-326.8	4.55	3.76	2.56	-13.9	14.5
13,405.0	86.26	181.77	12,193.7	-981.3	-330.1	7.33	-7.32	-0.37	-13.7	10.7
13,501.0	87.76	182.73	12,198.7	-1,077.1	-333.8	1.85	1.56	1.00	-8.9	6.3
13,596.0	88.72	180.89	12,201.6	-1,172.0	-336.8	2.18	1.01	-1.94	-6.3	2.7
13,692.0	93.93	177.28	12,199.5	-1,267.9	-335.3	6.52	5.32	-3.76	-8.6	3.6
13,789.0	93.91	176.76	12,192.9	-1,364.5	-330.3	0.54	0.08	-0.54	-15.4	8.0
13,885.0	90.13	178.07	12,189.6	-1,460.3	-325.9	4.17	-3.94	1.36	-19.1	11.7
13,981.0	91.45	181.15	12,188.2	-1,556.3	-325.3	3.49	1.37	3.21	-20.7	11.7
14,077.0	92.33	182.38	12,185.1	-1,652.2	-328.2	1.57	0.92	1.28	-24.1	8.1
14,173.0	91.54	181.06	12,181.8	-1,748.1	-331.1	1.60	-0.82	-1.37	-27.6	4.6
14,269.0	89.43	180.62	12,181.0	-1,844.1	-332.5	2.25	-2.20	-0.46	-28.6	2.6
14,365.0	89.34	180.54	12,182.0	-1,940.1	-333.5	0.13	-0.09	-0.08	-27.8	0.9
14,413.5	88.76	180.76	12,182.8	-1,988.6	-334.0	1.27	-1.19	0.45	-27.2	0.1
TGT#(VAL 24 FC #721H)										
14,461.0	88.20	180.97	12,184.1	-2,036.1	-334.8	1.27	-1.19	0.45	-26.1	-0.9
14,557.0	93.56	181.15	12,182.6	-2,132.0	-336.5	5.59	5.58	0.19	-27.9	-3.4
14,653.0	90.66	180.54	12,179.1	-2,227.9	-338.0	3.09	-3.02	-0.64	-31.7	-5.4
14,749.0	90.66	181.06	12,178.0	-2,323.9	-339.3	0.54	0.00	0.54	-33.2	-7.4



EOG Resources
Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Valiant 24 Fed Com
Well: #711H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB = 25 @ 3473.0ust
MID Reference: KB = 25 @ 3473.0ust
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)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
14,845.0	90.57	180.71	12,177.0	-2,419.9	-340.8	0.38	-0.09	-0.36	-34.5	-9.5
14,940.0	90.48	179.13	12,176.1	-2,514.9	-340.6	1.67	-0.09	-1.66	-35.7	-10.0
15,036.0	89.96	178.43	12,175.7	-2,610.8	-338.6	0.91	-0.54	-0.73	-36.4	-8.6
15,132.0	89.25	179.13	12,176.4	-2,706.8	-336.6	1.04	-0.74	0.73	-36.1	-7.1
15,228.0	91.71	180.01	12,175.6	-2,802.8	-335.8	2.72	2.56	0.92	-37.3	-7.1
15,324.0	89.43	179.30	12,174.6	-2,898.8	-335.3	2.49	-2.37	-0.74	-38.5	-7.1
15,420.0	89.16	180.27	12,175.8	-2,994.8	-334.9	1.05	-0.28	1.01	-37.7	-7.4
15,516.0	89.52	181.50	12,176.9	-3,090.8	-336.4	1.33	0.37	1.28	-36.9	-9.5
15,612.0	89.87	182.56	12,177.4	-3,186.7	-339.8	1.16	0.36	1.10	-36.8	-13.5
15,707.0	90.92	183.79	12,176.8	-3,281.6	-345.0	1.70	1.11	1.29	-37.8	-19.4
15,803.0	91.89	181.41	12,174.4	-3,377.4	-349.4	2.68	1.01	-2.48	-40.4	-24.4
15,899.0	88.81	177.81	12,173.8	-3,473.4	-348.7	4.93	-3.21	-3.75	-41.3	-24.4
15,994.0	89.69	176.05	12,175.1	-3,568.2	-343.7	2.07	0.93	-1.85	-40.4	-19.9
16,090.0	87.93	174.91	12,177.1	-3,663.9	-336.1	2.18	-1.83	-1.19	-38.8	-13.0
16,186.0	88.20	175.96	12,180.3	-3,759.5	-328.5	1.13	0.28	1.09	-35.9	-6.0
16,282.0	90.48	174.73	12,181.4	-3,855.2	-320.7	2.70	2.37	-1.28	-35.1	1.2
16,378.0	92.24	173.42	12,179.1	-3,950.7	-310.8	2.29	1.83	-1.36	-37.7	10.4
16,474.0	90.31	175.88	12,177.0	-4,046.2	-301.8	3.26	-2.01	2.56	-40.2	18.8
16,570.0	88.37	176.49	12,178.1	-4,142.0	-295.4	2.12	-2.02	0.64	-39.4	24.5
16,665.0	93.39	180.71	12,176.6	-4,236.9	-293.1	6.90	5.28	4.44	-41.2	26.3
16,718.7	89.40	179.49	12,175.3	-4,290.6	-293.2	7.77	-7.43	-2.28	-42.7	25.8
TGT#2 (VAL 24 FC #721H)										
16,761.0	86.26	178.52	12,176.9	-4,332.8	-292.5	7.77	-7.43	-2.28	-41.3	26.3
16,857.0	87.32	178.26	12,182.3	-4,428.6	-289.8	1.14	1.10	-0.27	-36.5	28.3
16,953.0	92.07	177.73	12,182.8	-4,524.6	-286.4	4.98	4.95	-0.55	-36.5	31.1
17,049.0	91.01	179.05	12,180.2	-4,620.5	-283.7	1.76	-1.10	1.37	-39.6	33.1
17,144.0	91.10	182.04	12,178.5	-4,715.4	-284.6	3.15	0.09	3.15	-42.0	31.6



EOG Resources
Midland PVA

Company: EOG Resources -Midland Project: Lea County, NM (NAD 83 NME) Site: Valiant 24 Fed Com Well: #711H Wellbore: OH Design: OH			Local Co-ordinate Reference: Well #711H KB = 25 @ 3473.0usft KB = 25 @ 3473.0usft TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database: Grid Minimum Curvature EDM							
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)
17,240.0	91.28	182.04	12,176.5	-4,811.4	-288.0	0.19	0.19	0.00	-44.5	27.5
17,336.0	89.52	180.46	12,175.8	-4,907.3	-290.1	2.46	-1.83	-1.65	-45.7	24.8
17,420.4	89.28	179.22	12,176.7	-4,991.7	-289.9	1.50	-0.28	-1.47	-45.3	24.5
TGT#3(VAL 24 FC #721H)										
17,432.0	89.25	179.05	12,176.9	-5,003.3	-289.7	1.50	-0.28	-1.47	-45.2	24.6
17,528.0	89.78	179.75	12,177.7	-5,099.3	-288.7	0.91	0.55	0.73	-45.9	25.0
17,623.0	89.16	178.96	12,178.5	-5,194.3	-287.6	1.06	-0.65	-0.83	-46.6	25.4
17,719.0	89.34	180.02	12,179.8	-5,290.3	-286.8	1.12	0.19	1.10	-46.9	25.7
17,814.0	88.64	179.23	12,181.5	-5,385.3	-286.2	1.11	-0.74	-0.83	-46.8	25.6
17,910.0	89.87	179.58	12,182.7	-5,481.3	-285.2	1.33	1.28	0.36	-47.1	26.0
18,006.0	89.08	181.78	12,183.6	-5,577.2	-286.3	2.43	-0.82	2.29	-47.8	24.3
18,100.0	90.48	182.04	12,184.0	-5,671.2	-289.4	1.51	1.49	0.28	-48.9	20.5
18,196.0	89.69	181.69	12,183.8	-5,767.1	-292.6	0.90	-0.82	-0.36	-50.6	16.8
18,292.0	89.60	179.93	12,184.4	-5,863.1	-293.9	1.84	-0.09	-1.83	-51.6	14.8
18,388.0	90.40	179.58	12,184.4	-5,959.1	-293.5	0.91	0.83	-0.36	-53.2	14.5
18,483.0	92.07	180.54	12,182.4	-6,054.1	-293.6	2.03	1.76	1.01	-56.8	13.8
18,579.0	88.02	180.02	12,182.3	-6,150.1	-294.1	4.25	-4.22	-0.54	-58.4	12.7
18,611.0	86.53	179.84	12,183.8	-6,182.0	-294.0	4.69	-4.66	-0.56	-57.4	12.5
18,675.0	87.23	178.44	12,187.3	-6,245.9	-293.1	2.44	1.09	-2.19	-55.0	13.1
18,771.0	86.17	180.46	12,192.8	-6,341.8	-292.2	2.37	-1.10	2.10	-51.0	13.4
18,867.0	85.21	180.28	12,200.0	-6,437.5	-292.8	1.02	-1.00	-0.19	-45.3	12.2
18,963.0	86.61	178.26	12,206.9	-6,533.2	-291.6	2.56	1.46	-2.10	-40.1	12.7
19,058.0	87.76	178.52	12,211.6	-6,628.1	-288.9	1.24	1.21	0.27	-37.0	14.7
19,154.0	85.38	178.70	12,217.3	-6,723.9	-286.6	2.49	-2.48	0.19	-32.8	16.5
19,250.0	83.36	177.47	12,226.7	-6,819.3	-283.4	2.46	-2.10	-1.28	-24.9	19.0
19,346.0	85.56	177.73	12,236.0	-6,914.8	-279.4	2.31	2.29	0.27	-17.2	22.4
19,456.0	86.53	178.70	12,243.6	-7,024.5	-276.0	1.25	0.88	0.88	-11.4	25.1



EOG Resources
Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Valiant 24 Fed Com
Well: #711H
Wellbore: OH
Design: OH

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

Well #711H
KB = 25 @ 3473.0usft
KB = 25 @ 3473.0usft
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)
	19,576.0	86.70	177.56	12,250.7	-7,144.2	-272.0	0.96	0.14	-0.95	-6.3	28.2
Last MWD Survey (MD=19576.0')											
	19,763.0	86.70	177.56	12,261.4	-7,330.7	-264.1	0.00	0.00	0.00	1.4	34.9
Projection to Bit (MD=19763.0') - PPHL(VAL 24 FC #721H)											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
11,788.9	11,748.4	376.9	-362.2	FTP Crossing, MD:11788.9', TVD:11748.4', N/S:376.9', EW:-362.2', INC:4.42
11,790.0	11,749.5	376.8	-362.2	KOP, MD:11790.0', TVD:11749.5', N/S:376.8', EW:-362.2', INC:4.58
19,576.0	12,250.7	-7,144.2	-272.0	Last MWD Survey (MD=19576.0')
19,763.0	12,261.4	-7,330.7	-264.1	Projection to Bit (MD=19763.0')

Checked By: _____ Approved By: _____ Date: _____

