

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 30-025-46929		² Pool Code 98094		³ Pool Name BOBCAT DRAW, UPPER WOLFCAMP KZ	
⁴ Property Code 39180		⁵ Property Name VACA 24 FED COM			⁶ Well Number 703H
⁷ OGRID No. 7377		⁸ Operator Name EOG RESOURCES, INC.			⁹ Elevation 3343'

¹⁰Surface Location

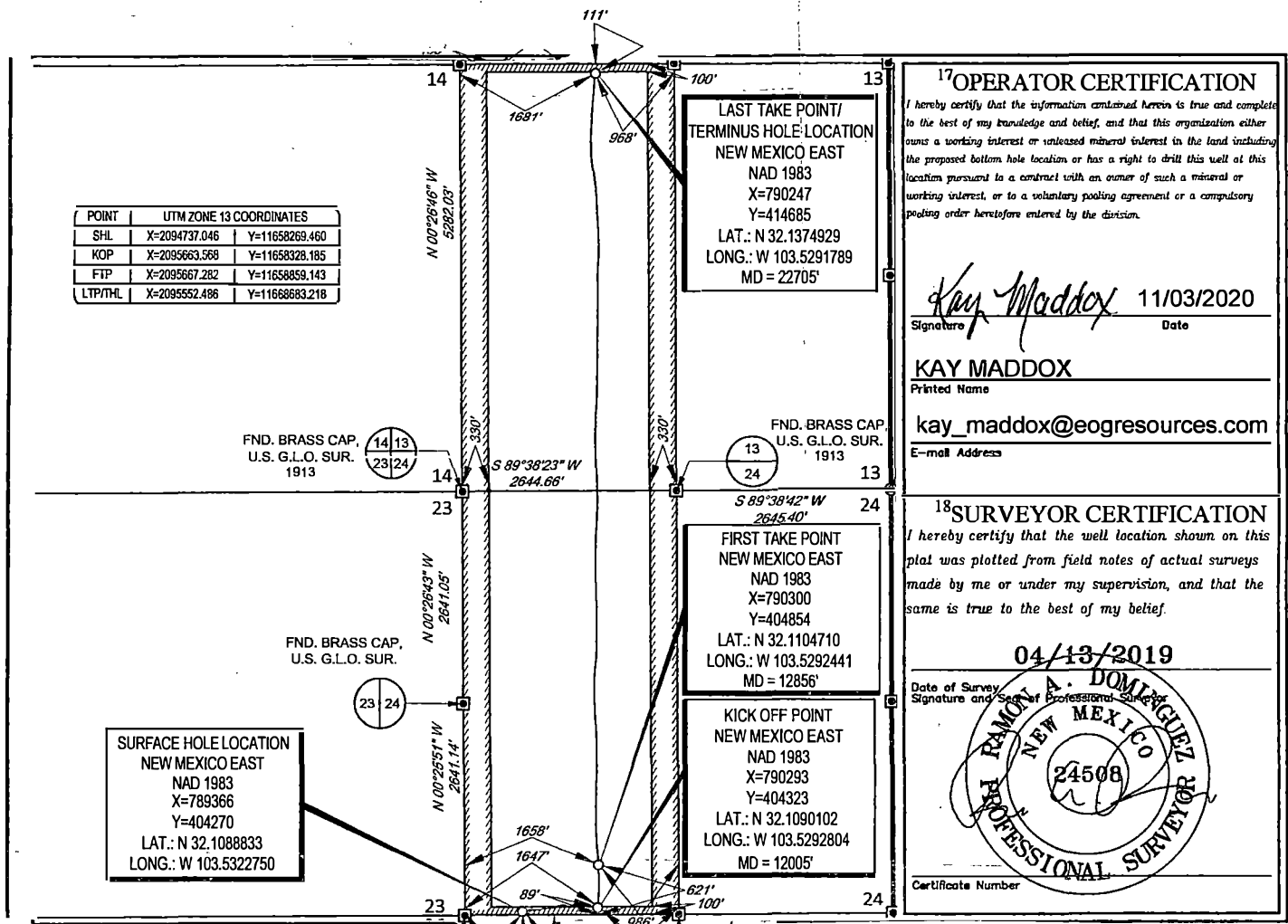
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	24	25-S	33-E	-	43'	SOUTH	720'	WEST	LEA

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
C	13	25-S	33-E	-	111'	NORTH	1681'	WEST	LEA

¹² Dedicated Acres 641.53	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.



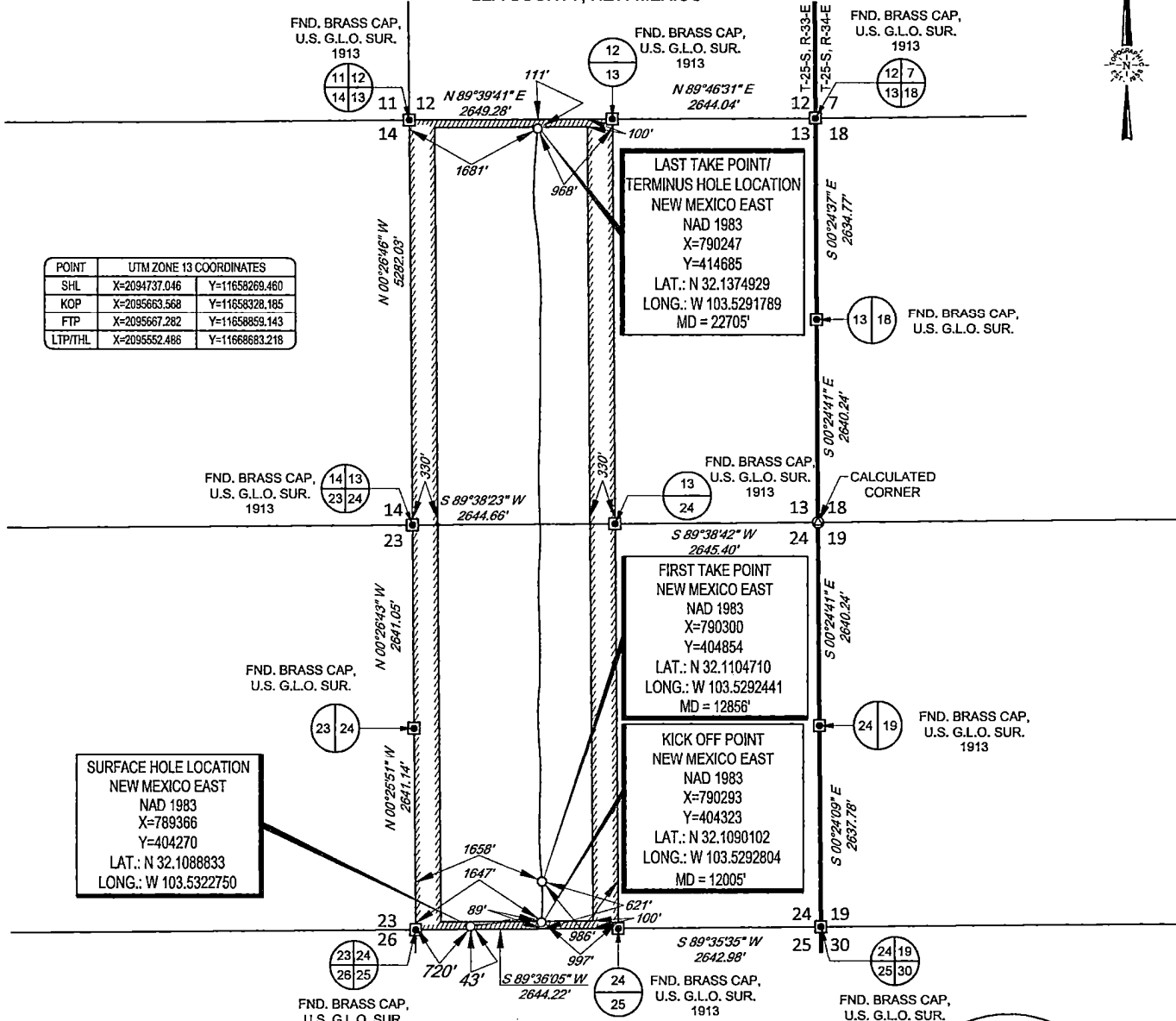
SECTION 24, TOWNSHIP 25-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SCALE: 1" = 2000'

0' 1000' 2000'



POINT	UTM ZONE 13 COORDINATES	
SHL	X=2094737.046	Y=11658269.460
KOP	X=2095663.568	Y=11658328.185
FTP	X=2095667.282	Y=11658859.143
LTP/THL	X=2095552.486	Y=11668683.218



SURFACE HOLE LOCATION
NEW MEXICO EAST
NAD 1983
X=789366
Y=404270
LAT.: N 32.1088833
LONG.: W 103.5322750

**LAST TAKE POINT/
TERMINUS HOLE LOCATION**
NEW MEXICO EAST
NAD 1983
X=790247
Y=414685
LAT.: N 32.1374929
LONG.: W 103.5291789
MD = 22705'

FIRST TAKE POINT
NEW MEXICO EAST
NAD 1983
X=790300
Y=404854
LAT.: N 32.1104710
LONG.: W 103.5292441
MD = 12856'

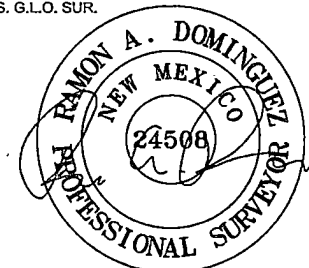
KICK OFF POINT
NEW MEXICO EAST
NAD 1983
X=790293
Y=404323
LAT.: N 32.1090102
LONG.: W 103.5292804
MD = 12005'

LEASE NAME & WELL NO.: VACA 24 FED COM #703H
SECTION 24 TWP 25-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3342'
DESCRIPTION 43' FSL & 720' 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
SEPTEMBER 23, 2020

eoog resources, inc.

VACA 24 FED COM #703H AS-COMplete	REVISION:
DATE: 09/23/2020	
FILE:AD_VACA_24_FED_COM_703H	
DRAWN BY: A.V.F.	
SHEET: 1 OF 1	

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.

Intent ☐ As Drilled ☐ XXX

API # 30-025-46929		
Operator Name: EOG RESOURCES, INC	Property Name: VACA 24 FEDERAL COM	Well Number 703H

Kick Off Point (KOP)

UL N	Section 24	Township 25S	Range 33E	Lot	Feet 89	From N/S SOUTH	Feet 1647	From E/W WEST	County LEA
Latitude 32.1090102					Longitude 103.5292804				NAD 1983

First Take Point (FTP)

UL N	Section 24	Township 25S	Range 33E	Lot	Feet 621	From N/S SOUTH	Feet 1658	From E/W WEST	County LEA
Latitude 32.1104710					Longitude 103.5292441				NAD 1983

Last Take Point (LTP)

UL C	Section 13	Township 25S	Range 33E	Lot	Feet 111	From N/S NORTH	Feet 1681	From E/W WEST	County LEA
Latitude 32.1374929					Longitude 103.5291789				NAD 1983

Is this well the defining well for the Horizontal Spacing Unit? ☐ YESIs this well an infill well? ☐ NO

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name: EOG RESOURCES, INC	Property Name:	Well Number



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Vaca 24 Fed Com

#703H

OH

Design: OH

Final PVA

24 August, 2020

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME) Site: Vaca 24 Fed Com Well: #703H Wellbore: OH Design: OH		Local Co-ordinate Reference: TVD Reference: KB = 32' @ 3375.0usft MD Reference: KB = 32' @ 3375.0usft North Reference: Grid Survey Calculation Method: Minimum Curvature Database: EDM 5000.14		Well #703H KB = 32' @ 3375.0usft KB = 32' @ 3375.0usft Grid Minimum Curvature EDM 5000.14	
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 Vaca 24 Fed Com					
Site Position: From: Map Position Uncertainty: 0.0 usft		Northing: 404,270.00 usft Easting: 789,366.00 usft Slot Radius: 13-3/16 "		Latitude: 32° 6' 31.982 N Longitude: 103° 31' 56.186 W Grid Convergence: 0.43 °	
Well #703H					
Well Position +N/-S 0.0 usft +E/-W 0.0 usft Wellhead Elevation: 0.0 usft		404,270.00 usft 789,366.00 usft usft		Latitude: 32° 6' 31.982 N Longitude: 103° 31' 56.186 W Ground Level: 3,343.0 usft	
Wellbore OH					
Magnetics					
Model Name IGRF2015		Sample Date 7/8/2019		Dip Angle (°) 59.94 Field Strength (nT) 47,663.11978437	
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 (°) 4.67	
Survey Program					
From (usft) 124.0		To (usft) 22,705.0 Total MWD #1 (OH)		Tool Name EOG MWD+IFR1 Description MWD + IFR1	



EOG Resources

Final PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Vaca 24 Fed Corn
Well: #703H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB = 32' @ 3375.0usft
MD Reference: KB = 32' @ 3375.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Well #703H
KB = 32' @ 3375.0usft
KB = 32' @ 3375.0usft
Grid
Minimum Curvature
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	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0
124.0	0.60	90.00	124.0	0.0	0.6	0.48	0.48	0.00	0.00	-0.6
309.0	0.40	143.10	309.0	-0.5	2.0	0.26	-0.11	28.70	-1.6	1.3
492.0	0.50	170.80	492.0	-1.8	2.5	0.13	0.05	15.14	-2.2	2.2
676.0	0.60	237.00	676.0	-3.1	1.8	0.33	0.05	35.98	-0.2	3.6
867.0	1.00	243.80	867.0	-4.4	-0.5	0.21	0.21	3.56	-2.4	3.7
1,056.0	0.90	263.90	1,055.9	-5.3	-3.5	0.18	-0.05	10.63	-4.0	4.9
1,171.0	0.70	267.30	1,170.9	-5.4	-5.1	0.18	-0.17	2.96	-5.3	5.2
1,254.0	0.53	269.23	1,253.9	-5.5	-5.9	0.21	-0.20	2.33	-6.0	5.4
1,349.0	0.62	265.18	1,348.9	-5.5	-6.9	0.10	0.09	-4.26	-7.3	4.9
1,444.0	0.57	253.58	1,443.9	-5.7	-7.9	0.14	-0.05	-12.21	-9.1	3.2
1,539.0	2.51	57.15	1,538.9	-4.7	-6.6	3.22	2.04	172.18	8.3	-0.3
1,634.0	3.96	63.83	1,633.7	-2.1	-1.9	1.57	1.53	7.03	5.6	-0.1
1,729.0	5.58	67.25	1,728.4	1.1	5.3	1.73	1.71	3.60	3.5	1.3
1,824.0	7.38	77.71	1,822.8	4.2	15.6	2.26	1.89	11.01	2.1	2.2
1,919.0	10.73	77.01	1,916.6	7.5	30.1	3.53	3.53	-0.74	-0.7	3.2
2,014.0	12.09	75.87	2,009.7	11.9	48.4	1.45	1.43	-1.20	-4.3	4.6
2,109.0	12.31	73.58	2,102.6	17.2	67.8	0.56	0.23	-2.41	-7.5	6.6
2,204.0	12.40	84.48	2,195.4	21.0	87.6	2.45	0.09	11.47	-9.1	9.0
2,299.0	11.91	88.35	2,288.3	22.3	107.6	1.00	-0.52	4.07	-11.3	8.4
2,394.0	11.87	87.91	2,381.2	22.9	127.1	0.10	-0.04	-0.46	-13.7	6.5
2,489.0	11.74	88.17	2,474.2	23.6	146.6	0.15	-0.14	0.27	-16.0	4.7
2,584.0	11.91	87.56	2,567.2	24.3	166.0	0.22	0.18	-0.64	-18.3	2.8
2,679.0	9.93	79.73	2,660.5	26.2	183.9	2.60	-2.08	-8.24	-19.1	-0.4
2,774.0	10.24	78.68	2,754.0	29.3	200.2	0.38	0.33	-1.11	-18.5	0.1
2,869.0	10.55	79.91	2,847.4	32.5	217.1	0.40	0.33	1.29	-18.3	1.3
2,964.0	10.51	81.14	2,940.8	35.4	234.2	0.24	-0.04	1.29	-18.3	2.2



EOG Resources

Final PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #703H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 32' @ 3375.0usft
Site:	Vaca 24 Fed Corn	MD Reference:	KB = 32' @ 3375.0usft
Well:	#703H	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)
	3,059.0	10.02	80.88	3,034.3	38.0	250.9	0.52	-0.52	-0.27	-17.9	2.4
	3,154.0	10.11	81.84	3,127.9	40.5	267.3	0.20	0.09	1.01	-17.2	2.9
	3,249.0	10.29	81.67	3,221.4	42.9	284.0	0.19	0.19	-0.18	-16.7	2.9
	3,344.0	10.59	81.84	3,314.8	45.4	301.0	0.32	0.32	0.18	-16.6	3.0
	3,439.0	10.90	82.11	3,408.1	47.9	318.5	0.33	0.33	0.28	-17.0	3.1
	3,534.0	10.86	81.67	3,501.4	50.4	336.3	0.10	-0.04	-0.46	-17.6	3.0
	3,629.0	11.16	81.76	3,594.7	53.0	354.3	0.32	0.32	0.09	-18.4	3.1
	3,724.0	9.58	81.84	3,688.1	55.4	371.2	1.66	-1.66	0.08	-18.2	3.2
	3,819.0	9.58	82.37	3,781.8	57.6	386.8	0.09	0.00	0.56	-16.7	3.3
	3,914.0	8.75	84.30	3,875.6	59.4	401.9	0.93	-0.87	2.03	-14.3	3.5
	4,010.0	10.24	75.16	3,970.3	62.3	417.4	2.20	1.55	-9.52	-13.1	2.1
	4,105.0	10.86	74.29	4,063.7	66.9	434.2	0.67	0.65	-0.92	-13.3	4.1
	4,200.0	9.14	72.62	4,157.2	71.6	450.0	1.84	-1.81	-1.76	-12.8	6.3
	4,295.0	10.37	79.91	4,250.8	75.3	465.6	1.83	1.29	7.67	-10.7	9.4
	4,390.0	9.54	82.20	4,344.4	77.9	481.8	0.97	-0.87	2.41	-9.4	10.1
	4,485.0	8.70	88.61	4,438.2	79.1	496.8	1.39	-0.88	6.75	-6.0	10.0
	4,580.0	12.00	90.37	4,531.6	79.2	513.9	3.49	3.47	1.85	-5.6	7.8
	4,675.0	12.31	82.02	4,624.5	80.6	533.8	1.88	0.33	-8.79	-9.3	5.5
	4,770.0	11.47	88.44	4,717.5	82.2	553.2	1.65	-0.88	6.76	-11.0	5.7
	4,865.0	11.87	97.93	4,810.5	81.1	572.4	2.06	0.42	9.99	-12.4	4.2
	4,960.0	10.73	87.21	4,903.7	80.2	590.9	2.51	-1.20	-11.28	-14.2	-1.5
	5,055.0	8.70	71.21	4,997.3	83.0	606.5	3.54	-2.14	-16.84	-11.9	-4.5
	5,150.0	7.56	66.81	5,091.4	87.8	619.1	1.37	-1.20	-4.63	-8.2	-1.4
	5,245.0	9.80	68.48	5,185.3	93.2	632.3	2.37	2.36	1.76	-5.7	3.0
	5,340.0	11.52	76.83	5,278.7	98.3	649.1	2.43	1.81	8.79	-5.4	6.6
	5,435.0	12.04	77.36	5,371.7	102.6	668.0	0.56	0.55	0.56	-7.5	8.1
	5,530.0	13.10	75.69	5,464.4	107.5	688.1	1.18	1.12	-1.76	-12.0	9.9



EOG Resources
Final PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Vaca 24 Fed Corn
Well: #703H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB = 32' @ 3375.0usft
MD Reference: KB = 32' @ 3375.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Well #703H
KB = 32' @ 3375.0usft
KB = 32' @ 3375.0usft
Grid
Minimum Curvature
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)
5,625.0	13.89	86.15	5,556.8	110.9	709.9	2.70	0.83	11.01	-17.6	15.1
5,720.0	11.21	99.77	5,649.5	110.1	730.4	4.18	-2.82	14.34	-20.9	20.9
5,815.0	10.33	99.86	5,742.8	107.1	747.9	0.93	-0.93	0.09	-25.5	20.4
5,910.0	10.59	98.98	5,836.3	104.2	764.9	0.32	0.27	-0.93	-29.9	19.5
6,005.0	9.49	107.33	5,929.8	100.5	781.0	1.92	-1.16	8.79	-30.2	22.6
6,100.0	8.97	109.71	6,023.6	95.7	795.4	0.68	-0.55	2.51	-31.6	21.3
6,195.0	7.60	98.02	6,117.6	92.3	808.6	2.28	-1.44	-12.31	-35.6	12.9
6,290.0	7.25	97.05	6,211.8	90.7	820.8	0.39	-0.37	-1.02	-34.8	12.2
6,385.0	7.12	95.82	6,306.1	89.4	832.6	0.21	-0.14	-1.29	-33.7	11.7
6,480.0	6.90	95.47	6,400.3	88.3	844.2	0.24	-0.23	-0.37	-32.2	11.9
6,575.0	6.81	95.12	6,494.7	87.2	855.4	0.10	-0.09	-0.37	-30.4	12.2
6,670.0	6.73	95.47	6,589.0	86.2	866.6	0.09	-0.08	0.37	-28.3	12.9
6,765.0	7.12	95.64	6,683.3	85.1	878.0	0.41	0.41	0.18	-26.4	13.4
6,860.0	7.03	94.94	6,777.6	84.0	889.6	0.13	-0.09	-0.74	-25.1	13.6
6,955.0	7.38	95.47	6,871.8	82.9	901.5	0.38	0.37	0.56	-23.7	14.3
7,050.0	5.67	90.02	6,966.2	82.3	912.3	1.91	-1.80	-5.74	-22.5	13.1
7,145.0	5.71	85.89	7,060.7	82.7	921.7	0.43	0.04	-4.35	-19.8	13.8
7,240.0	4.53	85.45	7,155.4	83.3	930.1	1.24	-1.24	-0.46	-17.2	16.0
7,335.0	2.46	84.74	7,250.2	83.8	935.9	2.18	-2.18	-0.75	-15.0	17.5
7,430.0	1.05	124.30	7,345.1	83.5	938.7	1.87	-1.48	41.64	1.9	22.0
7,525.0	1.01	142.75	7,440.1	82.3	939.9	0.35	-0.04	19.42	8.6	19.0
7,620.0	0.75	148.64	7,535.1	81.1	940.7	0.29	-0.27	6.20	9.0	18.1
7,715.0	0.70	155.23	7,630.1	80.1	941.3	0.10	-0.05	6.94	9.9	17.0
7,810.0	0.70	167.89	7,725.1	79.0	941.6	0.16	0.00	13.33	12.2	14.5
7,905.0	0.40	157.08	7,820.1	78.1	941.9	0.33	-0.32	-11.38	8.4	16.4
8,000.0	0.75	151.89	7,915.1	77.2	942.3	0.37	0.37	-5.46	5.9	17.1
8,095.0	0.92	148.46	8,010.1	76.0	943.0	0.19	0.18	-3.61	3.5	17.4

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Vaca 24 Fed Corn
Well: #703H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB = 32' @ 3375.0usft
MD Reference: KB = 32' @ 3375.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Well #703H
 KB = 32' @ 3375.0usft
 KB = 32' @ 3375.0usft
 Grid
 Minimum Curvature
 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)
8,190.0	0.62	133.44	8,105.1	75.0	943.8	0.38	-0.32	-15.81	-2.4	17.5
8,285.0	0.57	178.61	8,200.1	74.2	944.2	0.48	-0.05	47.55	9.9	14.4
8,380.0	0.62	184.68	8,295.1	73.2	944.1	0.08	0.05	6.39	10.4	13.3
8,475.0	0.75	158.57	8,390.1	72.1	944.3	0.35	0.14	-27.48	2.3	16.3
8,570.0	0.79	171.67	8,485.0	70.9	944.6	0.19	0.04	13.79	4.7	15.5
8,665.0	1.01	183.18	8,580.0	69.4	944.7	0.30	0.23	12.12	6.2	14.4
8,760.0	1.32	192.76	8,675.0	67.5	944.4	0.38	0.33	10.08	6.6	13.3
8,855.0	2.15	290.67	8,770.0	67.1	942.5	2.81	0.87	103.06	10.6	-7.3
8,950.0	2.59	286.80	8,864.9	68.3	938.8	0.49	0.46	-4.07	7.1	-6.7
9,045.0	1.89	287.33	8,959.8	69.4	935.2	0.74	-0.74	0.56	3.4	-6.7
9,140.0	1.89	272.39	9,054.8	70.0	932.2	0.52	0.00	-15.73	1.9	-6.0
9,235.0	1.98	254.29	9,149.7	69.6	929.0	0.65	0.09	-19.05	0.6	-5.6
9,330.0	2.59	318.45	9,244.7	70.7	926.0	2.61	0.64	67.54	-7.7	-1.5
9,425.0	2.24	321.96	9,339.6	73.8	923.4	0.40	-0.37	3.69	-11.8	-0.9
9,521.0	1.67	315.28	9,435.5	76.3	921.3	0.64	-0.59	-6.96	-14.8	-2.5
9,616.0	1.36	289.53	9,530.5	77.6	919.3	0.78	-0.33	-27.11	-14.7	-9.3
9,710.0	2.07	216.49	9,624.5	76.6	917.2	2.25	0.76	-77.70	2.6	-17.8
9,805.0	1.71	188.72	9,719.4	73.9	916.0	1.02	-0.38	-29.23	7.6	-15.4
9,900.0	1.71	166.92	9,814.4	71.1	916.1	0.68	0.00	-22.95	10.1	-12.0
9,995.0	0.75	137.13	9,909.3	69.3	916.8	1.18	-1.01	-31.36	12.8	-6.1
10,090.0	0.62	60.31	10,004.3	69.0	917.7	0.90	-0.14	-80.86	8.2	10.5
10,185.0	1.01	151.63	10,099.3	68.6	918.5	1.26	0.41	96.13	9.5	-7.9
10,280.0	0.75	165.34	10,194.3	67.2	919.1	0.35	-0.27	14.43	5.9	-9.7
10,374.0	0.70	128.07	10,288.3	66.3	919.7	0.50	-0.05	-39.65	9.5	-4.6
10,470.0	2.24	102.76	10,384.3	65.5	922.0	1.70	1.60	-26.36	8.1	-0.3
10,565.0	2.73	95.82	10,479.2	64.9	926.1	0.60	0.52	-7.31	4.0	0.5
10,659.0	0.40	110.50	10,573.2	64.5	928.6	2.49	-2.48	15.62	1.5	0.0

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Vaca 24 Fed Com
Well: #703H
Wellbore: OH
Design: OH

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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Well #703H
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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)
10,754.0	0.84	223.52	10,668.1	63.9	928.4	1.12	0.46	118.97	-1.2	-1.1
10,849.0	0.70	204.54	10,763.1	62.9	927.7	0.30	-0.15	-19.98	-2.0	-1.6
10,944.0	1.14	197.16	10,858.1	61.4	927.2	0.48	0.46	-7.77	-3.3	-1.9
11,039.0	0.84	322.66	10,953.1	61.1	926.5	1.86	-0.32	132.11	0.2	4.6
11,134.0	1.49	357.21	11,048.1	62.9	926.0	0.98	0.68	36.37	0.9	4.1
11,229.0	0.70	135.90	11,143.1	63.7	926.3	2.18	-0.83	145.99	2.3	-2.8
11,324.0	1.36	159.29	11,238.1	62.2	927.1	0.81	0.69	24.62	-0.7	-3.3
11,419.0	2.68	132.47	11,333.0	59.7	929.2	1.67	1.39	-28.23	-2.3	-3.8
11,514.0	0.26	139.76	11,428.0	58.0	931.0	2.55	-2.55	7.67	-5.2	-3.1
11,609.0	0.40	273.71	11,523.0	57.9	930.8	0.64	0.15	141.00	1.2	6.1
11,704.0	0.97	204.71	11,618.0	57.2	930.1	0.95	0.60	-72.63	-6.2	3.0
11,799.0	1.63	222.47	11,712.9	55.4	928.8	0.81	0.69	18.69	-7.1	4.9
11,924.0	0.97	200.50	11,837.9	53.1	927.3	0.65	-0.53	-17.58	-11.1	1.3
12,019.0	0.88	343.58	11,932.9	53.1	926.8	1.85	-0.09	150.61	9.6	6.2
12,025.2	1.53	353.12	11,939.1	53.2	926.8	10.88	10.43	153.26	10.3	4.5
KOP (Vaca 24 Fed Com #703H)										
12,114.0	11.16	3.88	12,027.3	63.0	927.2	10.88	10.85	12.12	8.1	2.2
12,116.2	11.35	3.91	12,029.4	63.4	927.2	8.52	8.51	1.56	8.0	2.2
HL Crossing, MD:12116.2', TVD:12029.4', N/S:63.4', E/W:927.2', INC:11.35										
12,209.0	19.25	4.76	12,118.9	87.8	929.1	8.52	8.52	0.91	5.3	0.2
12,304.0	28.70	3.97	12,205.6	126.2	932.0	9.95	9.95	-0.83	3.4	-2.7
12,399.0	39.47	5.55	12,284.1	179.2	936.5	11.37	11.34	1.66	0.4	-7.5
12,468.6	50.84	3.98	12,333.1	228.3	940.6	16.41	16.33	-2.26	-5.0	-11.6
FTP (Vaca 24 Fed Com #703H)										
12,494.0	54.99	3.53	12,348.4	248.5	941.9	16.41	16.35	-1.76	-8.3	-13.0
12,589.0	67.78	359.93	12,393.9	331.7	944.2	13.86	13.46	-3.79	-24.2	-16.4
12,684.0	69.05	357.12	12,428.8	420.0	941.9	3.06	1.34	-2.96	-36.0	-15.3

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Survey										
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12,779.0	72.62	357.73	12,460.0	509.6	937.9	3.81	3.76	0.64	-35.5	-11.7
12,874.0	75.56	356.50	12,486.0	600.8	933.3	3.34	3.09	-1.29	-23.7	-7.7
12,969.0	81.89	355.71	12,504.6	693.7	927.0	6.71	6.66	-0.83	-5.8	-1.9
13,063.0	90.68	354.83	12,510.7	787.1	919.3	9.40	9.35	-0.94	1.4	5.2
13,158.0	90.59	357.12	12,509.6	881.9	912.6	2.41	-0.09	2.41	1.4	11.1
13,253.0	90.07	355.97	12,509.1	976.7	906.9	1.33	-0.55	-1.21	1.9	16.1
13,348.0	92.26	0.19	12,507.2	1,071.6	903.7	5.00	2.31	4.44	1.0	18.5
13,443.0	93.32	0.02	12,502.5	1,166.5	903.9	1.13	1.12	-0.18	-2.6	17.6
13,538.0	92.40	359.23	12,497.8	1,261.4	903.2	1.28	-0.97	-0.83	-6.3	17.5
13,633.0	89.27	359.84	12,496.4	1,356.4	902.5	3.36	-3.29	0.64	-6.6	17.6
13,728.0	90.59	1.16	12,496.5	1,451.3	903.3	1.96	1.39	1.39	-5.5	16.0
13,823.0	87.34	1.16	12,498.2	1,546.3	905.2	3.42	-3.42	0.00	-2.7	13.3
13,907.8	88.87	1.47	12,501.0	1,631.0	907.2	1.84	1.80	0.37	1.1	10.7
TGT 1 (Vaca 24 Fed Com #703H)										
13,918.0	89.05	1.51	12,501.2	1,641.2	907.4	1.84	1.80	0.37	1.3	10.4
14,014.0	89.63	1.95	12,502.3	1,737.2	910.3	0.76	0.60	0.46	2.6	6.8
14,109.0	91.12	3.01	12,501.7	1,832.1	914.4	1.92	1.57	1.12	2.1	1.9
14,204.0	88.31	0.02	12,502.2	1,927.0	916.9	4.32	-2.96	-3.15	2.7	-1.3
14,299.0	91.87	0.37	12,502.0	2,022.0	917.3	3.77	3.75	0.37	2.6	-2.4
14,394.0	88.92	358.96	12,501.4	2,117.0	916.7	3.44	-3.11	-1.48	2.1	-2.6
14,489.0	89.63	356.59	12,502.6	2,211.9	913.0	2.60	0.75	-2.49	3.4	0.4
14,584.0	89.32	354.92	12,503.5	2,306.6	906.0	1.79	-0.33	-1.76	4.4	6.7
14,679.0	90.07	357.21	12,504.0	2,401.4	899.5	2.54	0.79	2.41	5.0	12.5
14,774.0	90.46	356.24	12,503.5	2,496.2	894.0	1.10	0.41	-1.02	4.7	17.2
14,869.0	90.29	357.29	12,502.9	2,591.1	888.7	1.12	-0.18	1.11	4.1	21.8
14,964.0	90.99	359.67	12,501.8	2,686.0	886.2	2.61	0.74	2.51	3.2	23.6
15,059.0	88.84	357.47	12,502.0	2,781.0	883.8	3.24	-2.26	-2.32	3.4	25.2

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	15,154.0	89.89	2.83	12,503.0	2,876.0	884.0	5.75	1.11	5.64	4.6	24.2
	15,249.0	90.15	4.50	12,503.0	2,970.8	890.1	1.78	0.27	1.76	4.7	17.4
	15,344.0	92.18	4.59	12,501.1	3,065.4	897.6	2.14	2.14	0.09	2.8	9.2
	15,439.0	93.67	4.68	12,496.2	3,160.0	905.3	1.57	1.57	0.09	-1.9	0.8
	15,534.0	92.79	2.83	12,490.9	3,254.6	911.5	2.15	-0.93	-1.95	-7.1	-6.2
	15,628.0	92.18	358.96	12,486.8	3,348.5	913.0	4.16	-0.65	-4.12	-11.1	-8.3
	15,723.0	88.00	359.49	12,486.6	3,443.5	911.7	4.44	-4.40	0.56	-11.1	-7.8
	15,818.0	91.08	0.63	12,487.4	3,538.5	911.8	3.46	3.24	1.20	-10.3	-8.6
	15,913.0	86.29	358.44	12,489.6	3,633.4	911.0	5.54	-5.04	-2.31	-8.0	-8.6
	16,008.0	87.34	358.44	12,494.9	3,728.2	908.4	1.11	1.11	0.00	-2.6	-6.7
	16,124.0	88.20	358.61	12,499.4	3,844.1	905.5	0.76	0.74	0.15	2.0	-4.6
	16,219.0	88.90	358.08	12,501.8	3,939.0	902.7	0.92	0.74	-0.56	4.6	-2.6
	16,314.0	89.91	358.00	12,502.8	4,034.0	899.5	1.07	1.06	-0.08	5.6	-0.1
	16,409.0	91.05	358.44	12,502.0	4,128.9	896.5	1.29	1.20	0.46	5.0	2.1
	16,420.8	91.13	358.47	12,501.7	4,140.8	896.2	0.75	0.69	0.27	4.7	2.3
TGT 2 (Vaca 24 Fed Com #703H)											
	16,504.0	91.71	358.70	12,499.7	4,223.9	894.2	0.75	0.69	0.27	2.6	3.7
	16,599.0	92.29	359.23	12,496.4	4,318.8	892.4	0.83	0.61	0.56	-0.8	4.7
	16,694.0	91.36	0.11	12,493.3	4,413.7	891.9	1.35	-0.98	0.93	-4.0	4.5
	16,789.0	89.03	1.07	12,493.0	4,508.7	892.9	2.65	-2.45	1.01	-4.4	2.8
	16,884.0	87.93	1.34	12,495.5	4,603.7	894.9	1.19	-1.16	0.28	-2.0	0.1
	16,979.0	89.12	1.69	12,498.0	4,698.6	897.4	1.31	1.25	0.37	0.3	-3.2
	17,074.0	89.41	3.45	12,499.2	4,793.5	901.6	1.88	0.31	1.85	1.4	-8.2
	17,169.0	88.04	3.16	12,501.3	4,888.3	907.1	1.47	-1.44	-0.31	3.4	-14.4
	17,264.0	88.57	1.95	12,504.1	4,983.2	911.3	1.39	0.56	-1.27	6.1	-19.3
	17,359.0	87.56	0.46	12,507.3	5,078.1	913.3	1.89	-1.06	-1.57	9.2	-22.1
	17,454.0	87.16	359.23	12,511.7	5,173.0	913.1	1.36	-0.42	-1.29	13.5	-22.5

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	17,549.0	89.01	358.00	12,514.9	5,267.9	910.8	2.34	1.95	-1.29	16.6	-21.0
	17,644.0	90.24	357.64	12,515.5	5,362.8	907.2	1.35	1.29	-0.38	17.1	-18.1
	17,739.0	91.43	357.56	12,514.1	5,457.7	903.2	1.26	1.25	-0.08	15.6	-14.8
	17,834.0	93.19	358.52	12,510.3	5,552.6	900.0	2.11	1.85	1.01	11.6	-12.3
	17,929.0	89.14	358.52	12,508.4	5,647.5	897.5	4.26	-4.26	0.00	9.6	-10.6
	18,024.0	95.60	359.31	12,504.4	5,742.4	895.7	6.85	6.80	0.83	5.5	-9.6
	18,119.0	93.32	359.31	12,497.1	5,837.1	894.6	2.40	-2.40	0.00	-2.0	-9.1
	18,214.0	87.12	359.58	12,496.7	5,932.0	893.6	6.53	-6.53	0.28	-2.4	-8.9
	18,309.0	88.97	0.98	12,499.9	6,027.0	894.1	2.44	1.95	1.47	0.7	-10.1
	18,404.0	88.66	0.72	12,501.9	6,121.9	895.5	0.43	-0.33	-0.27	2.5	-12.3
	18,499.0	89.41	1.78	12,503.5	6,216.9	897.6	1.37	0.79	1.12	4.0	-15.1
	18,593.0	92.09	2.92	12,502.3	6,310.8	901.4	3.10	2.85	1.21	2.7	-19.7
	18,688.0	86.51	2.30	12,503.4	6,405.6	905.8	5.91	-5.87	-0.65	3.6	-24.7
	18,783.0	86.24	2.21	12,509.4	6,500.4	909.5	0.30	-0.28	-0.09	9.5	-29.2
	18,830.0	88.70	359.49	12,511.5	6,547.3	910.2	7.80	5.23	-5.79	11.6	-30.2
	18,878.0	89.36	359.58	12,512.3	6,595.3	909.8	1.39	1.37	0.19	12.4	-30.2
	18,933.3	90.23	0.04	12,512.5	6,650.6	909.6	1.78	1.58	0.83	12.5	-30.5
TGT 3 (Vaca 24 Fed Com #703H)											
	18,973.0	90.86	0.37	12,512.1	6,690.3	909.8	1.78	1.58	0.83	12.2	-30.9
	19,068.0	92.31	0.98	12,509.5	6,785.3	910.9	1.66	1.53	0.64	9.7	-32.8
	19,163.0	88.92	0.81	12,508.5	6,880.2	912.4	3.57	-3.57	-0.18	8.7	-35.0
	19,258.0	92.79	0.72	12,507.1	6,975.2	913.6	4.07	4.07	-0.09	7.4	-37.0
	19,353.0	91.47	0.90	12,503.5	7,070.1	915.0	1.40	-1.39	0.19	4.0	-39.1
	19,447.0	94.95	0.19	12,498.3	7,164.0	915.9	3.78	3.70	-0.76	-1.2	-40.7
	19,543.0	89.36	359.67	12,494.7	7,259.8	915.7	5.85	-5.82	-0.54	-4.7	-41.3
	19,638.0	87.65	358.96	12,497.1	7,354.8	914.6	1.95	-1.80	-0.75	-2.1	-40.9
	19,733.0	87.91	359.49	12,500.8	7,449.7	913.3	0.62	0.27	0.56	1.6	-40.3

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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)
19,828.0	87.65	359.67	12,504.5	7,544.7	912.6	0.33	-0.27	0.19	5.4	-40.4
19,923.0	89.58	0.98	12,506.8	7,639.6	913.2	2.46	2.03	1.38	7.8	-41.7
20,017.0	88.13	0.11	12,508.7	7,733.6	914.1	1.80	-1.54	-0.93	9.7	-43.3
20,113.0	88.75	358.17	12,511.3	7,829.5	912.6	2.12	0.65	-2.02	12.5	-42.6
20,208.0	94.59	359.84	12,508.5	7,924.4	911.0	6.39	6.15	1.76	9.8	-41.7
20,303.0	92.09	3.45	12,503.0	8,019.2	913.7	4.62	-2.63	3.80	4.5	-45.1
20,398.0	90.24	3.88	12,501.1	8,114.0	919.8	2.00	-1.95	0.45	2.5	-51.9
20,493.0	89.01	0.81	12,501.7	8,208.9	923.7	3.48	-1.29	-3.23	3.2	-56.5
20,588.0	87.82	357.82	12,504.3	8,303.8	922.5	3.39	-1.25	-3.15	6.0	-56.1
20,683.0	88.48	358.08	12,507.4	8,398.7	919.1	0.75	0.69	0.27	9.2	-53.5
20,778.0	89.67	354.92	12,508.9	8,493.5	913.3	3.55	1.25	-3.33	10.8	-48.4
20,874.0	89.98	357.29	12,509.2	8,589.3	906.8	2.49	0.32	2.47	11.1	-42.6
20,945.2	89.42	357.03	12,509.6	8,660.4	903.3	0.87	-0.79	-0.37	11.6	-39.6
TGT 4 (Vaca 24 Fed Com #703H)										
20,969.0	89.23	356.94	12,509.9	8,684.2	902.0	0.87	-0.79	-0.37	12.0	-38.6
21,001.0	91.47	357.29	12,509.7	8,716.1	900.4	7.08	7.00	1.09	11.9	-37.2
21,064.0	89.54	358.00	12,509.1	8,779.1	897.8	3.26	-3.06	1.13	11.6	-35.1
21,095.0	89.27	356.24	12,509.4	8,810.0	896.3	5.74	-0.87	-5.68	12.1	-33.8
21,159.0	89.49	355.62	12,510.1	8,873.9	891.7	1.03	0.34	-0.97	13.1	-29.7
21,222.0	90.59	355.10	12,510.1	8,936.7	886.6	1.93	1.75	-0.83	13.3	-25.1
21,254.0	92.04	353.95	12,509.3	8,968.5	883.6	5.78	4.53	-3.59	12.7	-22.3
21,349.0	90.51	353.07	12,507.2	9,062.9	872.8	1.86	-1.61	-0.93	11.1	-12.3
21,444.0	90.90	352.40	12,506.1	9,157.1	860.8	0.82	0.41	-0.71	10.3	-1.0
21,539.0	90.40	352.00	12,505.0	9,251.2	847.9	0.67	-0.53	-0.42	9.7	11.1
21,634.0	88.60	353.10	12,505.8	9,345.4	835.6	2.22	-1.89	1.16	10.9	22.7
21,665.0	89.00	356.80	12,506.5	9,376.3	832.9	12.00	1.29	11.94	11.7	25.2
21,729.0	90.20	358.35	12,506.9	9,440.2	830.2	3.06	1.87	2.42	12.5	27.4

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Vaca 24 Fed Com
Well: #703H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB = 32' @ 3375.0usft
MD Reference: KB = 32' @ 3375.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Well #703H
 KB = 32' @ 3375.0usft
 KB = 32' @ 3375.0usft
 Grid
 Minimum Curvature
 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)
21,832.0	92.79	359.23	12,504.2	9,543.1	828.0	2.66	2.51	0.85	10.2	28.8
21,927.0	91.08	2.13	12,501.0	9,638.1	829.1	3.54	-1.80	3.05	7.4	27.0
22,022.0	92.22	2.04	12,498.3	9,733.0	832.6	1.20	1.20	-0.09	5.1	22.8
22,117.0	93.80	2.57	12,493.3	9,827.8	836.4	1.75	1.66	0.56	0.5	18.2
22,212.0	91.47	3.09	12,488.9	9,922.5	841.1	2.51	-2.45	0.55	-3.4	12.8
22,307.0	92.13	3.45	12,485.9	10,017.3	846.5	0.79	0.69	0.38	-5.9	6.6
22,402.0	91.74	4.06	12,482.7	10,112.1	852.7	0.76	-0.41	0.64	-8.7	-0.3
22,497.0	93.10	5.38	12,478.7	10,206.7	860.5	1.99	1.43	1.39	-12.2	-8.8
22,592.0	94.59	5.38	12,472.3	10,301.0	869.4	1.57	1.57	0.00	-18.1	-18.5
22,650.0	95.30	5.91	12,467.3	10,358.5	875.1	1.53	1.22	0.91	-22.8	-24.7
Final MWD Survey (MD=22650.0')										
22,702.3	95.30	5.91	12,462.5	10,410.3	880.5	0.00	0.00	0.00	-27.4	-30.5
PBHL (Vaca 24 Fed Com #703H)										
22,705.0	95.30	5.91	12,462.3	10,413.0	880.8	0.00	0.00	0.00	-27.6	-30.8
Final Projection to Bit (MD=22705.0')										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
12,116.2	12,029.4	63.4	927.2	HL Crossing, MD:12116.2', TVD:12029.4', N/S:63.4', E/W:927.2', INC:11.35
22,650.0	12,467.3	10,358.5	875.1	Final MWD Survey (MD=22650.0')
22,705.0	12,462.3	10,413.0	880.8	Final Projection to Bit (MD=22705.0')

Checked By: _____ Approved By: _____ Date: _____



