



Lea County, NM (NAD 83 NME)

Dogwood 23 Fed Com #704H

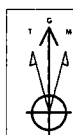
Plan #0.1

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

Ground Level: 3316.00
KB = 25' @ 3343.00usft
Northing: 372734.00
Easting: 787250.00
Latitude: 32.0224361
Longitude: -103.5385623



Azimuths to Grid North
True North: -0.42°
Magnetic North: 6.54°

Magnetic Field
Strength: 47856.2aT
Dip Angle: 59.89°
Date: 2/16/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.54°
To convert a Magnetic Direction to a True Direction, Add 6.96° East
To convert a True Direction to a Grid Direction, Subtract 0.42°

SECTION DETAILS

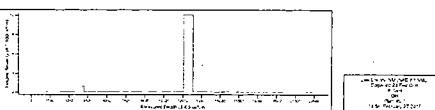
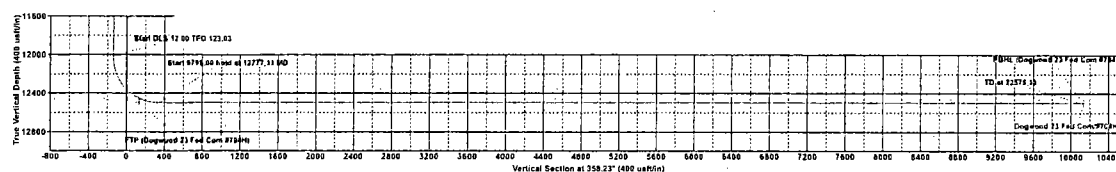
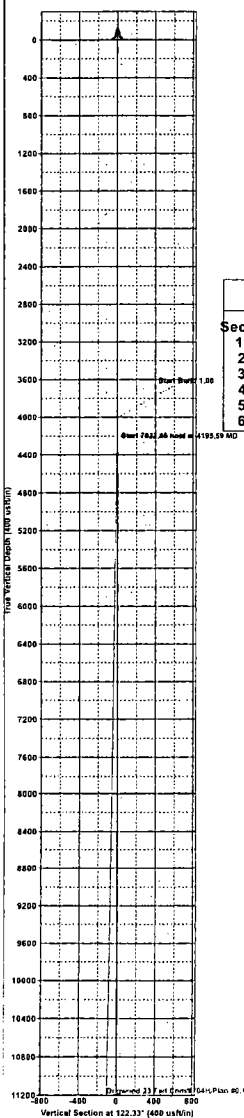
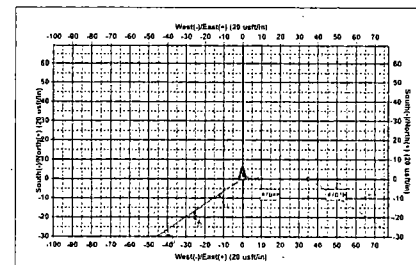
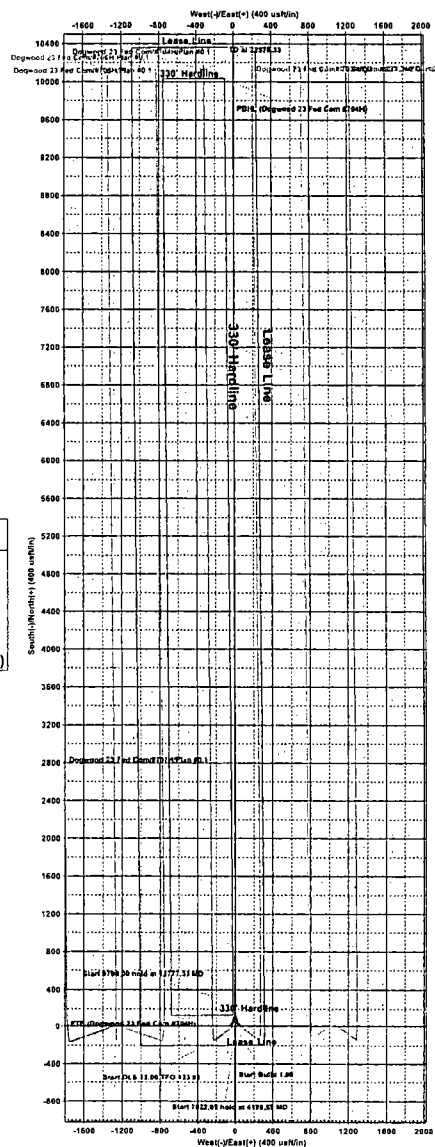
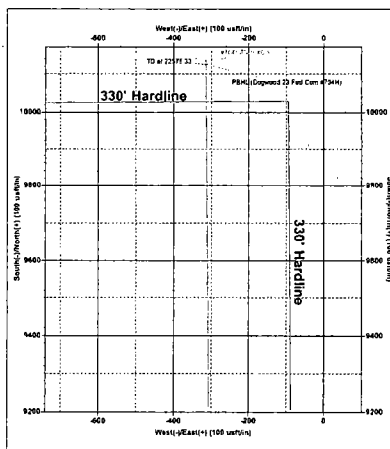
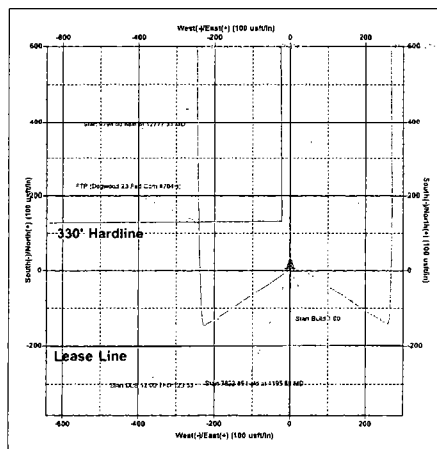
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	
3	4195.59	1.96	236.55	4195.55	-1.84	-2.79	1.00	236.55	-1.75	
4	12018.44	1.96	236.55	12013.85	-149.02	-225.55	0.00	0.00	-141.98	
5	12777.33	90.00	359.59	12500.00	328.25	-242.89	12.00	123.03	335.60	PBHL (Dogwood 23 Fed Com #704H)
6	22575.33	90.00	359.59	12500.00	10126.00	-313.00	0.00	0.00	10130.84	

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (Dogwood 23 Fed Com #704H)	12500.00	128.00	-240.80	372862.00	787010.00
PBHL (Dogwood 23 Fed Com #704H)	12500.00	10126.00	-313.00	382866.00	786937.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Dogwood 23 Fed Com

#704H

OH

Plan: Plan #0.1

Standard Planning Report

27 February, 2017

HOBBS OCD
OCT 03 2017
RECEIVED



EOG Resources, Inc.
Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Dogwood 23 Fed Com
Well: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3343.00usft
MD Reference: KB = 25' @ 3343.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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

Site Dogwood 23 Fed Com

Site Position: **Northing:** 372,741.00 usft **Latitude:** 32.02224139
From: Map **Easting:** 788,311.00 usft **Longitude:** -103.53643286
Position Uncertainty: 0.00 usft **Slot Radius:** 13-3/16 " **Grid Convergence:** 0.42 °

Well #704H

Well Position **+N/-S** -7.00 usft **Northing:** 372,734.00 usft **Latitude:** 32.02224361
+E/-W -1,061.00 usft **Easting:** 787,250.00 usft **Longitude:** -103.53985623
Position Uncertainty 0.00 usft **Wellhead Elevation:** 0.00 usft **Ground Level:** 3,318.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/16/2017	6.96	59.89	47,856

Design Plan #0.1

Audit Notes:

Version: **Phase:** PLAN **Tie On Depth:** 0.00

Vertical Section: **Depth From (TVD)** **+N/-S** **+E/-W** **Direction**
(usft) (usft) (usft) (°)
0.00 0.00 0.00 358.23

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,195.59	1.96	236.55	4,195.55	-1.84	-2.79	1.00	1.00	0.00	236.55	
12,018.44	1.96	236.55	12,013.85	-149.02	-225.55	0.00	0.00	0.00	0.00	
12,777.33	90.00	359.59	12,500.00	328.25	-242.89	12.00	11.60	16.21	123.03	
22,575.33	90.00	359.59	12,500.00	10,126.00	-313.00	0.00	0.00	0.00	0.00	PBHL (Dogwood 23 F



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 Well: #704H
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 MD Reference: KB = 25' @ 3343.00usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	1.00	236.55	4,100.00	-0.48	-0.73	-0.46	1.00	1.00	0.00
4,195.59	1.96	236.55	4,195.55	-1.84	-2.79	-1.75	1.00	1.00	0.00
4,200.00	1.96	236.55	4,199.96	-1.92	-2.91	-1.83	0.00	0.00	0.00
4,300.00	1.96	236.55	4,299.90	-3.80	-5.76	-3.62	0.00	0.00	0.00
4,400.00	1.96	236.55	4,399.84	-5.69	-8.61	-5.42	0.00	0.00	0.00
4,500.00	1.96	236.55	4,499.78	-7.57	-11.45	-7.21	0.00	0.00	0.00
4,600.00	1.96	236.55	4,599.73	-9.45	-14.30	-9.00	0.00	0.00	0.00
4,700.00	1.96	236.55	4,699.67	-11.33	-17.15	-10.79	0.00	0.00	0.00
4,800.00	1.96	236.55	4,799.61	-13.21	-20.00	-12.59	0.00	0.00	0.00
4,900.00	1.96	236.55	4,899.55	-15.09	-22.84	-14.38	0.00	0.00	0.00
5,000.00	1.96	236.55	4,999.49	-16.97	-25.69	-16.17	0.00	0.00	0.00
5,100.00	1.96	236.55	5,099.44	-18.86	-28.54	-17.96	0.00	0.00	0.00
5,200.00	1.96	236.55	5,199.38	-20.74	-31.39	-19.76	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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Project: Lea County, NM (NAD 83 NME)
Site: Dogwood 23 Fed Com
Well: #704H
Wellbore: OH
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TVD Reference: KB = 25' @ 3343.00usft
MD Reference: KB = 25' @ 3343.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.00	1.96	236.55	5,299.32	-22.62	-34.24	-21.55	0.00	0.00	0.00
5,400.00	1.96	236.55	5,399.26	-24.50	-37.08	-23.34	0.00	0.00	0.00
5,500.00	1.96	236.55	5,499.20	-26.38	-39.93	-25.14	0.00	0.00	0.00
5,600.00	1.96	236.55	5,599.14	-28.26	-42.78	-26.93	0.00	0.00	0.00
5,700.00	1.96	236.55	5,699.09	-30.14	-45.63	-28.72	0.00	0.00	0.00
5,800.00	1.96	236.55	5,799.03	-32.03	-48.47	-30.51	0.00	0.00	0.00
5,900.00	1.96	236.55	5,898.97	-33.91	-51.32	-32.31	0.00	0.00	0.00
6,000.00	1.96	236.55	5,998.91	-35.79	-54.17	-34.10	0.00	0.00	0.00
6,100.00	1.96	236.55	6,098.85	-37.67	-57.02	-35.89	0.00	0.00	0.00
6,200.00	1.96	236.55	6,198.79	-39.55	-59.86	-37.68	0.00	0.00	0.00
6,300.00	1.96	236.55	6,298.74	-41.43	-62.71	-39.48	0.00	0.00	0.00
6,400.00	1.96	236.55	6,398.68	-43.31	-65.56	-41.27	0.00	0.00	0.00
6,500.00	1.96	236.55	6,498.62	-45.20	-68.41	-43.06	0.00	0.00	0.00
6,600.00	1.96	236.55	6,598.56	-47.08	-71.25	-44.85	0.00	0.00	0.00
6,700.00	1.96	236.55	6,698.50	-48.96	-74.10	-46.65	0.00	0.00	0.00
6,800.00	1.96	236.55	6,798.44	-50.84	-76.95	-48.44	0.00	0.00	0.00
6,900.00	1.96	236.55	6,898.39	-52.72	-79.80	-50.23	0.00	0.00	0.00
7,000.00	1.96	236.55	6,998.33	-54.60	-82.65	-52.02	0.00	0.00	0.00
7,100.00	1.96	236.55	7,098.27	-56.48	-85.49	-53.82	0.00	0.00	0.00
7,200.00	1.96	236.55	7,198.21	-58.37	-88.34	-55.61	0.00	0.00	0.00
7,300.00	1.96	236.55	7,298.15	-60.25	-91.19	-57.40	0.00	0.00	0.00
7,400.00	1.96	236.55	7,398.10	-62.13	-94.04	-59.19	0.00	0.00	0.00
7,500.00	1.96	236.55	7,498.04	-64.01	-96.88	-60.99	0.00	0.00	0.00
7,600.00	1.96	236.55	7,597.98	-65.89	-99.73	-62.78	0.00	0.00	0.00
7,700.00	1.96	236.55	7,697.92	-67.77	-102.58	-64.57	0.00	0.00	0.00
7,800.00	1.96	236.55	7,797.86	-69.65	-105.43	-66.36	0.00	0.00	0.00
7,900.00	1.96	236.55	7,897.80	-71.53	-108.27	-68.16	0.00	0.00	0.00
8,000.00	1.96	236.55	7,997.75	-73.42	-111.12	-69.95	0.00	0.00	0.00
8,100.00	1.96	236.55	8,097.69	-75.30	-113.97	-71.74	0.00	0.00	0.00
8,200.00	1.96	236.55	8,197.63	-77.18	-116.82	-73.53	0.00	0.00	0.00
8,300.00	1.96	236.55	8,297.57	-79.06	-119.67	-75.33	0.00	0.00	0.00
8,400.00	1.96	236.55	8,397.51	-80.94	-122.51	-77.12	0.00	0.00	0.00
8,500.00	1.96	236.55	8,497.45	-82.82	-125.36	-78.91	0.00	0.00	0.00
8,600.00	1.96	236.55	8,597.40	-84.70	-128.21	-80.70	0.00	0.00	0.00
8,700.00	1.96	236.55	8,697.34	-86.59	-131.06	-82.50	0.00	0.00	0.00
8,800.00	1.96	236.55	8,797.28	-88.47	-133.90	-84.29	0.00	0.00	0.00
8,900.00	1.96	236.55	8,897.22	-90.35	-136.75	-86.08	0.00	0.00	0.00
9,000.00	1.96	236.55	8,997.16	-92.23	-139.60	-87.87	0.00	0.00	0.00
9,100.00	1.96	236.55	9,097.10	-94.11	-142.45	-89.67	0.00	0.00	0.00
9,200.00	1.96	236.55	9,197.05	-95.99	-145.29	-91.46	0.00	0.00	0.00
9,300.00	1.96	236.55	9,296.99	-97.87	-148.14	-93.25	0.00	0.00	0.00
9,400.00	1.96	236.55	9,396.93	-99.76	-150.99	-95.04	0.00	0.00	0.00
9,500.00	1.96	236.55	9,496.87	-101.64	-153.84	-96.84	0.00	0.00	0.00
9,600.00	1.96	236.55	9,596.81	-103.52	-156.69	-98.63	0.00	0.00	0.00
9,700.00	1.96	236.55	9,696.76	-105.40	-159.53	-100.42	0.00	0.00	0.00
9,800.00	1.96	236.55	9,796.70	-107.28	-162.38	-102.21	0.00	0.00	0.00
9,900.00	1.96	236.55	9,896.64	-109.16	-165.23	-104.01	0.00	0.00	0.00
10,000.00	1.96	236.55	9,996.58	-111.04	-168.08	-105.80	0.00	0.00	0.00
10,100.00	1.96	236.55	10,096.52	-112.93	-170.92	-107.59	0.00	0.00	0.00
10,200.00	1.96	236.55	10,196.46	-114.81	-173.77	-109.38	0.00	0.00	0.00
10,300.00	1.96	236.55	10,296.41	-116.69	-176.62	-111.18	0.00	0.00	0.00
10,400.00	1.96	236.55	10,396.35	-118.57	-179.47	-112.97	0.00	0.00	0.00
10,500.00	1.96	236.55	10,496.29	-120.45	-182.31	-114.76	0.00	0.00	0.00
10,600.00	1.96	236.55	10,596.23	-122.33	-185.16	-116.55	0.00	0.00	0.00



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 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,700.00	1.96	236.55	10,696.17	-124.21	-188.01	-118.35	0.00	0.00	0.00
10,800.00	1.96	236.55	10,796.11	-126.10	-190.86	-120.14	0.00	0.00	0.00
10,900.00	1.96	236.55	10,896.06	-127.98	-193.71	-121.93	0.00	0.00	0.00
11,000.00	1.96	236.55	10,996.00	-129.86	-196.55	-123.72	0.00	0.00	0.00
11,100.00	1.96	236.55	11,095.94	-131.74	-199.40	-125.52	0.00	0.00	0.00
11,200.00	1.96	236.55	11,195.88	-133.62	-202.25	-127.31	0.00	0.00	0.00
11,300.00	1.96	236.55	11,295.82	-135.50	-205.10	-129.10	0.00	0.00	0.00
11,400.00	1.96	236.55	11,395.76	-137.38	-207.94	-130.89	0.00	0.00	0.00
11,500.00	1.96	236.55	11,495.71	-139.27	-210.79	-132.69	0.00	0.00	0.00
11,600.00	1.96	236.55	11,595.65	-141.15	-213.64	-134.48	0.00	0.00	0.00
11,700.00	1.96	236.55	11,695.59	-143.03	-216.49	-136.27	0.00	0.00	0.00
11,800.00	1.96	236.55	11,795.53	-144.91	-219.33	-138.06	0.00	0.00	0.00
11,900.00	1.96	236.55	11,895.47	-146.79	-222.18	-139.86	0.00	0.00	0.00
12,000.00	1.96	236.55	11,995.42	-148.67	-225.03	-141.65	0.00	0.00	0.00
12,018.44	1.96	236.55	12,013.85	-149.02	-225.55	-141.98	0.00	0.00	0.00
12,025.00	1.66	259.91	12,020.40	-149.10	-225.74	-142.05	12.00	-4.46	356.37
12,050.00	3.18	328.53	12,045.38	-148.57	-226.46	-141.50	12.00	6.05	274.49
12,075.00	5.95	343.65	12,070.30	-146.74	-227.19	-139.65	12.00	11.10	60.46
12,100.00	8.87	349.02	12,095.09	-143.60	-227.92	-136.49	12.00	11.69	21.50
12,125.00	11.83	351.74	12,119.68	-139.17	-228.65	-132.04	12.00	11.84	10.86
12,150.00	14.81	353.37	12,144.01	-133.46	-229.39	-126.31	12.00	11.91	6.55
12,175.00	17.79	354.47	12,168.00	-126.48	-230.13	-119.31	12.00	11.94	4.39
12,200.00	20.78	355.26	12,191.59	-118.26	-230.86	-111.07	12.00	11.95	3.17
12,225.00	23.77	355.86	12,214.72	-108.81	-231.59	-101.60	12.00	11.97	2.40
12,250.00	26.77	356.34	12,237.33	-98.16	-232.32	-90.94	12.00	11.97	1.89
12,275.00	29.76	356.72	12,259.35	-86.35	-233.03	-79.11	12.00	11.98	1.54
12,300.00	32.76	357.04	12,280.71	-73.39	-233.74	-66.14	12.00	11.98	1.28
12,325.00	35.75	357.31	12,301.37	-59.34	-234.43	-52.07	12.00	11.98	1.09
12,350.00	38.75	357.55	12,321.27	-44.23	-235.11	-36.94	12.00	11.99	0.94
12,375.00	41.75	357.75	12,340.35	-28.09	-235.77	-20.79	12.00	11.99	0.82
12,400.00	44.74	357.93	12,358.56	-10.97	-236.41	-3.66	12.00	11.99	0.73
12,425.00	47.74	358.10	12,375.85	7.07	-237.03	14.39	12.00	11.99	0.66
12,450.00	50.74	358.25	12,392.17	25.99	-237.64	33.32	12.00	11.99	0.60
12,475.00	53.74	358.39	12,407.48	45.75	-238.22	53.09	12.00	11.99	0.55
12,500.00	56.74	358.51	12,421.73	66.28	-238.77	73.62	12.00	11.99	0.51
12,525.00	59.73	358.63	12,434.89	87.52	-239.30	94.87	12.00	11.99	0.48
12,550.00	62.73	358.74	12,446.92	109.43	-239.80	116.79	12.00	11.99	0.45
12,575.00	65.73	358.85	12,457.79	131.94	-240.27	139.30	12.00	11.99	0.42
12,587.71	67.26	358.90	12,462.85	143.59	-240.50	150.95	12.00	11.99	0.41
FTP (Dogwood 23 Fed Com #704H)									
12,600.00	68.73	358.95	12,467.46	154.98	-240.72	162.34	12.00	11.99	0.40
12,625.00	71.73	359.05	12,475.92	178.50	-241.13	185.86	12.00	11.99	0.39
12,650.00	74.73	359.14	12,483.13	202.43	-241.50	209.80	12.00	11.99	0.37
12,675.00	77.73	359.23	12,489.08	226.71	-241.85	234.07	12.00	11.99	0.36
12,700.00	80.72	359.32	12,493.75	251.26	-242.16	258.62	12.00	11.99	0.36
12,725.00	83.72	359.41	12,497.14	276.03	-242.43	283.39	12.00	11.99	0.35
12,750.00	86.72	359.50	12,499.22	300.94	-242.67	308.29	12.00	12.00	0.35
12,777.33	90.00	359.59	12,500.00	328.25	-242.89	335.60	12.00	12.00	0.34
12,800.00	90.00	359.59	12,500.00	350.92	-243.05	358.26	0.00	0.00	0.00
12,900.00	90.00	359.59	12,500.00	450.92	-243.77	458.23	0.00	0.00	0.00
13,000.00	90.00	359.59	12,500.00	550.91	-244.48	558.20	0.00	0.00	0.00
13,100.00	90.00	359.59	12,500.00	650.91	-245.20	658.18	0.00	0.00	0.00
13,200.00	90.00	359.59	12,500.00	750.91	-245.91	758.15	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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Site: Dogwood 23 Fed Com
Well: #704H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3343.00usft
MD Reference: KB = 25' @ 3343.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,300.00	90.00	359.59	12,500.00	850.91	-246.63	858.12	0.00	0.00	0.00
13,400.00	90.00	359.59	12,500.00	950.90	-247.34	958.09	0.00	0.00	0.00
13,500.00	90.00	359.59	12,500.00	1,050.90	-248.06	1,058.06	0.00	0.00	0.00
13,600.00	90.00	359.59	12,500.00	1,150.90	-248.77	1,158.04	0.00	0.00	0.00
13,700.00	90.00	359.59	12,500.00	1,250.90	-249.49	1,258.01	0.00	0.00	0.00
13,800.00	90.00	359.59	12,500.00	1,350.89	-250.21	1,357.98	0.00	0.00	0.00
13,900.00	90.00	359.59	12,500.00	1,450.89	-250.92	1,457.95	0.00	0.00	0.00
14,000.00	90.00	359.59	12,500.00	1,550.89	-251.64	1,557.92	0.00	0.00	0.00
14,100.00	90.00	359.59	12,500.00	1,650.89	-252.35	1,657.89	0.00	0.00	0.00
14,200.00	90.00	359.59	12,500.00	1,750.88	-253.07	1,757.87	0.00	0.00	0.00
14,300.00	90.00	359.59	12,500.00	1,850.88	-253.78	1,857.84	0.00	0.00	0.00
14,400.00	90.00	359.59	12,500.00	1,950.88	-254.50	1,957.81	0.00	0.00	0.00
14,500.00	90.00	359.59	12,500.00	2,050.88	-255.21	2,057.78	0.00	0.00	0.00
14,600.00	90.00	359.59	12,500.00	2,150.87	-255.93	2,157.75	0.00	0.00	0.00
14,700.00	90.00	359.59	12,500.00	2,250.87	-256.65	2,257.73	0.00	0.00	0.00
14,800.00	90.00	359.59	12,500.00	2,350.87	-257.36	2,357.70	0.00	0.00	0.00
14,900.00	90.00	359.59	12,500.00	2,450.87	-258.08	2,457.67	0.00	0.00	0.00
15,000.00	90.00	359.59	12,500.00	2,550.86	-258.79	2,557.64	0.00	0.00	0.00
15,100.00	90.00	359.59	12,500.00	2,650.86	-259.51	2,657.61	0.00	0.00	0.00
15,200.00	90.00	359.59	12,500.00	2,750.86	-260.22	2,757.58	0.00	0.00	0.00
15,300.00	90.00	359.59	12,500.00	2,850.86	-260.94	2,857.56	0.00	0.00	0.00
15,400.00	90.00	359.59	12,500.00	2,950.85	-261.65	2,957.53	0.00	0.00	0.00
15,500.00	90.00	359.59	12,500.00	3,050.85	-262.37	3,057.50	0.00	0.00	0.00
15,600.00	90.00	359.59	12,500.00	3,150.85	-263.09	3,157.47	0.00	0.00	0.00
15,700.00	90.00	359.59	12,500.00	3,250.85	-263.80	3,257.44	0.00	0.00	0.00
15,800.00	90.00	359.59	12,500.00	3,350.84	-264.52	3,357.42	0.00	0.00	0.00
15,900.00	90.00	359.59	12,500.00	3,450.84	-265.23	3,457.39	0.00	0.00	0.00
16,000.00	90.00	359.59	12,500.00	3,550.84	-265.95	3,557.36	0.00	0.00	0.00
16,100.00	90.00	359.59	12,500.00	3,650.84	-266.66	3,657.33	0.00	0.00	0.00
16,200.00	90.00	359.59	12,500.00	3,750.83	-267.38	3,757.30	0.00	0.00	0.00
16,300.00	90.00	359.59	12,500.00	3,850.83	-268.10	3,857.27	0.00	0.00	0.00
16,400.00	90.00	359.59	12,500.00	3,950.83	-268.81	3,957.25	0.00	0.00	0.00
16,500.00	90.00	359.59	12,500.00	4,050.83	-269.53	4,057.22	0.00	0.00	0.00
16,600.00	90.00	359.59	12,500.00	4,150.82	-270.24	4,157.19	0.00	0.00	0.00
16,700.00	90.00	359.59	12,500.00	4,250.82	-270.96	4,257.16	0.00	0.00	0.00
16,800.00	90.00	359.59	12,500.00	4,350.82	-271.67	4,357.13	0.00	0.00	0.00
16,900.00	90.00	359.59	12,500.00	4,450.81	-272.39	4,457.11	0.00	0.00	0.00
17,000.00	90.00	359.59	12,500.00	4,550.81	-273.10	4,557.08	0.00	0.00	0.00
17,100.00	90.00	359.59	12,500.00	4,650.81	-273.82	4,657.05	0.00	0.00	0.00
17,200.00	90.00	359.59	12,500.00	4,750.81	-274.54	4,757.02	0.00	0.00	0.00
17,300.00	90.00	359.59	12,500.00	4,850.80	-275.25	4,856.99	0.00	0.00	0.00
17,400.00	90.00	359.59	12,500.00	4,950.80	-275.97	4,956.96	0.00	0.00	0.00
17,500.00	90.00	359.59	12,500.00	5,050.80	-276.68	5,056.94	0.00	0.00	0.00
17,600.00	90.00	359.59	12,500.00	5,150.80	-277.40	5,156.91	0.00	0.00	0.00
17,700.00	90.00	359.59	12,500.00	5,250.79	-278.11	5,256.88	0.00	0.00	0.00
17,800.00	90.00	359.59	12,500.00	5,350.79	-278.83	5,356.85	0.00	0.00	0.00
17,900.00	90.00	359.59	12,500.00	5,450.79	-279.54	5,456.82	0.00	0.00	0.00
18,000.00	90.00	359.59	12,500.00	5,550.79	-280.26	5,556.80	0.00	0.00	0.00
18,100.00	90.00	359.59	12,500.00	5,650.78	-280.98	5,656.77	0.00	0.00	0.00
18,200.00	90.00	359.59	12,500.00	5,750.78	-281.69	5,756.74	0.00	0.00	0.00
18,300.00	90.00	359.59	12,500.00	5,850.78	-282.41	5,856.71	0.00	0.00	0.00
18,400.00	90.00	359.59	12,500.00	5,950.78	-283.12	5,956.68	0.00	0.00	0.00
18,500.00	90.00	359.59	12,500.00	6,050.77	-283.84	6,056.65	0.00	0.00	0.00
18,600.00	90.00	359.59	12,500.00	6,150.77	-284.55	6,156.63	0.00	0.00	0.00



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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,700.00	90.00	359.59	12,500.00	6,250.77	-285.27	6,256.60	0.00	0.00	0.00
18,800.00	90.00	359.59	12,500.00	6,350.77	-285.98	6,356.57	0.00	0.00	0.00
18,900.00	90.00	359.59	12,500.00	6,450.76	-286.70	6,456.54	0.00	0.00	0.00
19,000.00	90.00	359.59	12,500.00	6,550.76	-287.42	6,556.51	0.00	0.00	0.00
19,100.00	90.00	359.59	12,500.00	6,650.76	-288.13	6,656.49	0.00	0.00	0.00
19,200.00	90.00	359.59	12,500.00	6,750.76	-288.85	6,756.46	0.00	0.00	0.00
19,300.00	90.00	359.59	12,500.00	6,850.75	-289.56	6,856.43	0.00	0.00	0.00
19,400.00	90.00	359.59	12,500.00	6,950.75	-290.28	6,956.40	0.00	0.00	0.00
19,500.00	90.00	359.59	12,500.00	7,050.75	-290.99	7,056.37	0.00	0.00	0.00
19,600.00	90.00	359.59	12,500.00	7,150.75	-291.71	7,156.34	0.00	0.00	0.00
19,700.00	90.00	359.59	12,500.00	7,250.74	-292.42	7,256.32	0.00	0.00	0.00
19,800.00	90.00	359.59	12,500.00	7,350.74	-293.14	7,356.29	0.00	0.00	0.00
19,900.00	90.00	359.59	12,500.00	7,450.74	-293.86	7,456.26	0.00	0.00	0.00
20,000.00	90.00	359.59	12,500.00	7,550.74	-294.57	7,556.23	0.00	0.00	0.00
20,100.00	90.00	359.59	12,500.00	7,650.73	-295.29	7,656.20	0.00	0.00	0.00
20,200.00	90.00	359.59	12,500.00	7,750.73	-296.00	7,756.18	0.00	0.00	0.00
20,300.00	90.00	359.59	12,500.00	7,850.73	-296.72	7,856.15	0.00	0.00	0.00
20,400.00	90.00	359.59	12,500.00	7,950.73	-297.43	7,956.12	0.00	0.00	0.00
20,500.00	90.00	359.59	12,500.00	8,050.72	-298.15	8,056.09	0.00	0.00	0.00
20,600.00	90.00	359.59	12,500.00	8,150.72	-298.86	8,156.06	0.00	0.00	0.00
20,700.00	90.00	359.59	12,500.00	8,250.72	-299.58	8,256.03	0.00	0.00	0.00
20,800.00	90.00	359.59	12,500.00	8,350.72	-300.30	8,356.01	0.00	0.00	0.00
20,900.00	90.00	359.59	12,500.00	8,450.71	-301.01	8,455.98	0.00	0.00	0.00
21,000.00	90.00	359.59	12,500.00	8,550.71	-301.73	8,555.95	0.00	0.00	0.00
21,100.00	90.00	359.59	12,500.00	8,650.71	-302.44	8,655.92	0.00	0.00	0.00
21,200.00	90.00	359.59	12,500.00	8,750.70	-303.16	8,755.89	0.00	0.00	0.00
21,300.00	90.00	359.59	12,500.00	8,850.70	-303.87	8,855.87	0.00	0.00	0.00
21,400.00	90.00	359.59	12,500.00	8,950.70	-304.59	8,955.84	0.00	0.00	0.00
21,500.00	90.00	359.59	12,500.00	9,050.70	-305.31	9,055.81	0.00	0.00	0.00
21,600.00	90.00	359.59	12,500.00	9,150.69	-306.02	9,155.78	0.00	0.00	0.00
21,700.00	90.00	359.59	12,500.00	9,250.69	-306.74	9,255.75	0.00	0.00	0.00
21,800.00	90.00	359.59	12,500.00	9,350.69	-307.45	9,355.72	0.00	0.00	0.00
21,900.00	90.00	359.59	12,500.00	9,450.69	-308.17	9,455.70	0.00	0.00	0.00
22,000.00	90.00	359.59	12,500.00	9,550.68	-308.88	9,555.67	0.00	0.00	0.00
22,100.00	90.00	359.59	12,500.00	9,650.68	-309.60	9,655.64	0.00	0.00	0.00
22,200.00	90.00	359.59	12,500.00	9,750.68	-310.31	9,755.61	0.00	0.00	0.00
22,300.00	90.00	359.59	12,500.00	9,850.68	-311.03	9,855.58	0.00	0.00	0.00
22,400.00	90.00	359.59	12,500.00	9,950.67	-311.75	9,955.56	0.00	0.00	0.00
22,500.00	90.00	359.59	12,500.00	10,050.67	-312.46	10,055.53	0.00	0.00	0.00
22,575.33	90.00	359.59	12,500.00	10,126.00	-313.00	10,130.84	0.00	0.00	0.00

PBHL (Dogwood 23 Fed Com #704H)



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Design: Plan #0.1

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Design Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
PBHL (Dogwood 23 Fed	0.00	0.00	12,500.00	10,126.00	-313.00	382,860.00	786,937.00	32.05008351	-103.54062631
- plan hits target center									
- Point									
FTP (Dogwood 23 Fed C	0.00	0.00	12,500.00	128.00	-240.00	372,862.00	787,010.00	32.02260029	-103.54062754
- plan misses target center by 40.29usft at 12587.71usft MD (12462.85 TVD, 143.59 N, -240.50 E)									
- Point									