



Lea County, NM (NAD 83 NME)

Dogwood 23 Fed Com #710H

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: #710H

Ground Level: 3287.00
KB= 25' @ 3312.00usft
Northing 372708.00 Easting 784412.00 Latitude 32.0222910 Longitude -103.54901337

SECTION DETAILS

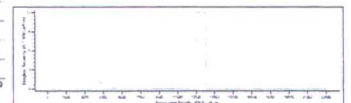
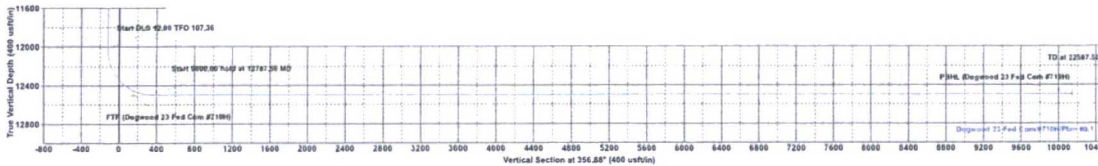
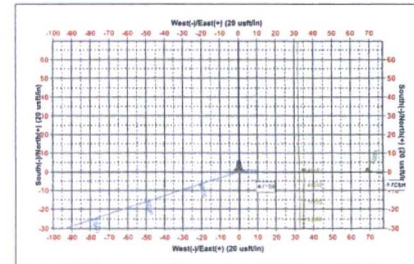
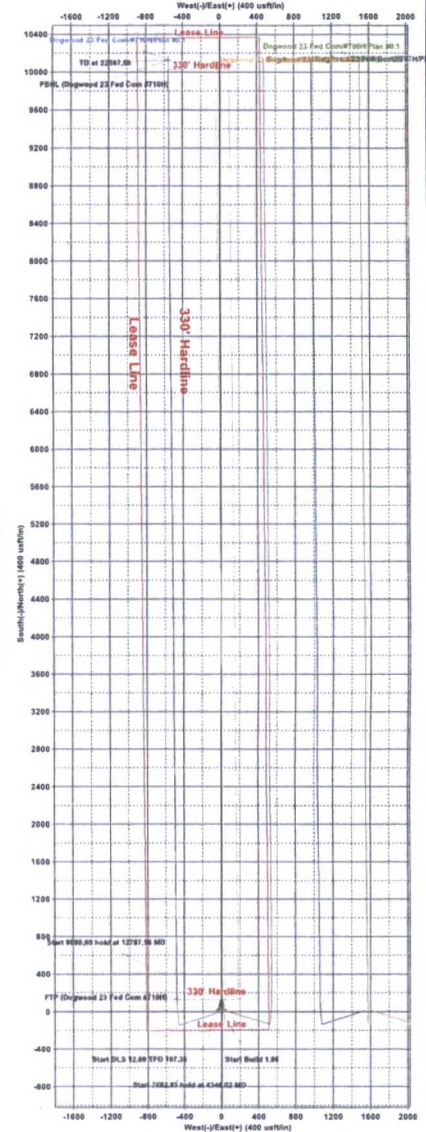
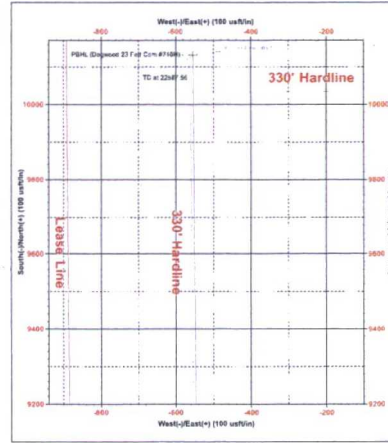
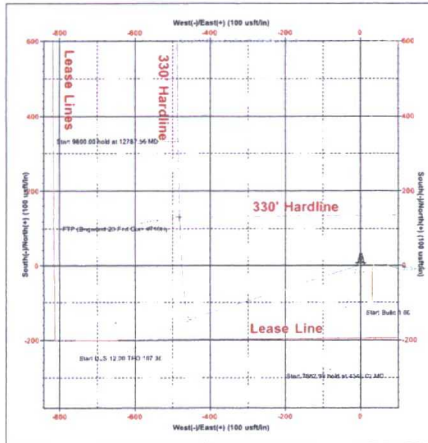
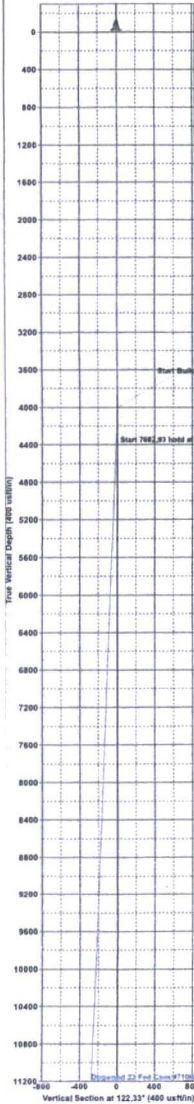
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	
3	4346.02	3.46	252.20	4345.81	-3.19	-9.95	1.00	252.20	-2.65	
4	12028.95	3.46	252.20	12014.73	-144.92	-451.46	0.00	0.00	-120.10	
5	12787.56	90.00	359.59	12500.00	332.25	-482.87	12.00	107.36	358.07	
6	22587.56	90.00	359.59	12500.00	10132.00	-553.00	0.00	0.00	10147.08	PBHL (Dogwood 23 Fed Com #710H)

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 #710H)	12500.00	132.00	-479.00	372840.00	783933.00
PBHL (Dogwood 23 Fed Com #710H)	12500.00	10132.00	-553.00	382840.00	783859.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Dogwood 23 Fed Com

#710H

OH

Plan: Plan #0.1

Standard Planning Report

28 February, 2017

HOBBS OCD
OCT 16 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: #710H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #710H
TVD Reference: KB= 25' @ 3312.00usft
MD Reference: KB= 25' @ 3312.00usft
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 #710H

Well Position +N/-S -33.00 usft Northing: 372,708.00 usft Latitude: 32.02222910
+E/-W -3,899.00 usft Easting: 784,412.00 usft Longitude: -103.54901337
Position Uncertainty 0.00 usft Wellhead Elevation: 0.00 usft Ground Level: 3,287.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/23/2017	6.96	59.88	47,853

Design Plan #0.1

Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	356.88

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	
4,346.02	3.46	252.20	4,345.81	-3.19	-9.95	1.00	1.00	0.00	252.20	
12,028.95	3.46	252.20	12,014.73	-144.92	-451.46	0.00	0.00	0.00	0.00	
12,787.56	90.00	359.59	12,500.00	332.25	-482.87	12.00	11.41	14.16	107.36	
22,587.56	90.00	359.59	12,500.00	10,132.00	-553.00	0.00	0.00	0.00	0.00	PBHL (Dogwood 23 F



EOG Resources, Inc.

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 Project: Lea County, NM (NAD 83 NME)
 Site: Dogwood 23 Fed Com
 Well: #710H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #710H
 TVD Reference: KB= 25' @ 3312.00usft
 MD Reference: KB= 25' @ 3312.00usft
 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)
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	252.20	4,100.00	-0.27	-0.83	-0.22	1.00	1.00	0.00
4,200.00	2.00	252.20	4,199.96	-1.07	-3.32	-0.88	1.00	1.00	0.00
4,300.00	3.00	252.20	4,299.86	-2.40	-7.48	-1.99	1.00	1.00	0.00
4,346.02	3.46	252.20	4,345.81	-3.19	-9.95	-2.65	1.00	1.00	0.00
4,400.00	3.46	252.20	4,399.69	-4.19	-13.05	-3.47	0.00	0.00	0.00
4,500.00	3.46	252.20	4,499.51	-6.03	-18.79	-5.00	0.00	0.00	0.00
4,600.00	3.46	252.20	4,599.33	-7.88	-24.54	-6.53	0.00	0.00	0.00
4,700.00	3.46	252.20	4,699.14	-9.72	-30.29	-8.06	0.00	0.00	0.00
4,800.00	3.46	252.20	4,798.96	-11.57	-36.03	-9.59	0.00	0.00	0.00
4,900.00	3.46	252.20	4,898.78	-13.41	-41.78	-11.12	0.00	0.00	0.00
5,000.00	3.46	252.20	4,998.60	-15.26	-47.53	-12.64	0.00	0.00	0.00
5,100.00	3.46	252.20	5,098.42	-17.10	-53.27	-14.17	0.00	0.00	0.00
5,200.00	3.46	252.20	5,198.23	-18.95	-59.02	-15.70	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Dogwood 23 Fed Com
Well: #710H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #710H
TVD Reference: KB= 25' @ 3312.00usft
MD Reference: KB= 25' @ 3312.00usft
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	3.46	252.20	5,298.05	-20.79	-64.77	-17.23	0.00	0.00	0.00
5,400.00	3.46	252.20	5,397.87	-22.64	-70.51	-18.76	0.00	0.00	0.00
5,500.00	3.46	252.20	5,497.69	-24.48	-76.26	-20.29	0.00	0.00	0.00
5,600.00	3.46	252.20	5,597.50	-26.33	-82.01	-21.82	0.00	0.00	0.00
5,700.00	3.46	252.20	5,697.32	-28.17	-87.75	-23.35	0.00	0.00	0.00
5,800.00	3.46	252.20	5,797.14	-30.01	-93.50	-24.87	0.00	0.00	0.00
5,900.00	3.46	252.20	5,896.96	-31.86	-99.25	-26.40	0.00	0.00	0.00
6,000.00	3.46	252.20	5,996.77	-33.70	-104.99	-27.93	0.00	0.00	0.00
6,100.00	3.46	252.20	6,096.59	-35.55	-110.74	-29.46	0.00	0.00	0.00
6,200.00	3.46	252.20	6,196.41	-37.39	-116.49	-30.99	0.00	0.00	0.00
6,300.00	3.46	252.20	6,296.23	-39.24	-122.23	-32.52	0.00	0.00	0.00
6,400.00	3.46	252.20	6,396.05	-41.08	-127.98	-34.05	0.00	0.00	0.00
6,500.00	3.46	252.20	6,495.86	-42.93	-133.73	-35.58	0.00	0.00	0.00
6,600.00	3.46	252.20	6,595.68	-44.77	-139.47	-37.11	0.00	0.00	0.00
6,700.00	3.46	252.20	6,695.50	-46.62	-145.22	-38.63	0.00	0.00	0.00
6,800.00	3.46	252.20	6,795.32	-48.46	-150.97	-40.16	0.00	0.00	0.00
6,900.00	3.46	252.20	6,895.13	-50.31	-156.71	-41.69	0.00	0.00	0.00
7,000.00	3.46	252.20	6,994.95	-52.15	-162.46	-43.22	0.00	0.00	0.00
7,100.00	3.46	252.20	7,094.77	-54.00	-168.21	-44.75	0.00	0.00	0.00
7,200.00	3.46	252.20	7,194.59	-55.84	-173.95	-46.28	0.00	0.00	0.00
7,300.00	3.46	252.20	7,294.40	-57.69	-179.70	-47.81	0.00	0.00	0.00
7,400.00	3.46	252.20	7,394.22	-59.53	-185.45	-49.34	0.00	0.00	0.00
7,500.00	3.46	252.20	7,494.04	-61.38	-191.19	-50.86	0.00	0.00	0.00
7,600.00	3.46	252.20	7,593.86	-63.22	-196.94	-52.39	0.00	0.00	0.00
7,700.00	3.46	252.20	7,693.68	-65.07	-202.69	-53.92	0.00	0.00	0.00
7,800.00	3.46	252.20	7,793.49	-66.91	-208.43	-55.45	0.00	0.00	0.00
7,900.00	3.46	252.20	7,893.31	-68.75	-214.18	-56.98	0.00	0.00	0.00
8,000.00	3.46	252.20	7,993.13	-70.60	-219.93	-58.51	0.00	0.00	0.00
8,100.00	3.46	252.20	8,092.95	-72.44	-225.67	-60.04	0.00	0.00	0.00
8,200.00	3.46	252.20	8,192.76	-74.29	-231.42	-61.57	0.00	0.00	0.00
8,300.00	3.46	252.20	8,292.58	-76.13	-237.17	-63.10	0.00	0.00	0.00
8,400.00	3.46	252.20	8,392.40	-77.98	-242.91	-64.62	0.00	0.00	0.00
8,500.00	3.46	252.20	8,492.22	-79.82	-248.66	-66.15	0.00	0.00	0.00
8,600.00	3.46	252.20	8,592.03	-81.67	-254.41	-67.68	0.00	0.00	0.00
8,700.00	3.46	252.20	8,691.85	-83.51	-260.15	-69.21	0.00	0.00	0.00
8,800.00	3.46	252.20	8,791.67	-85.36	-265.90	-70.74	0.00	0.00	0.00
8,900.00	3.46	252.20	8,891.49	-87.20	-271.65	-72.27	0.00	0.00	0.00
9,000.00	3.46	252.20	8,991.31	-89.05	-277.39	-73.80	0.00	0.00	0.00
9,100.00	3.46	252.20	9,091.12	-90.89	-283.14	-75.33	0.00	0.00	0.00
9,200.00	3.46	252.20	9,190.94	-92.74	-288.89	-76.85	0.00	0.00	0.00
9,300.00	3.46	252.20	9,290.76	-94.58	-294.63	-78.38	0.00	0.00	0.00
9,400.00	3.46	252.20	9,390.58	-96.43	-300.38	-79.91	0.00	0.00	0.00
9,500.00	3.46	252.20	9,490.39	-98.27	-306.13	-81.44	0.00	0.00	0.00
9,600.00	3.46	252.20	9,590.21	-100.12	-311.87	-82.97	0.00	0.00	0.00
9,700.00	3.46	252.20	9,690.03	-101.96	-317.62	-84.50	0.00	0.00	0.00
9,800.00	3.46	252.20	9,789.85	-103.81	-323.37	-86.03	0.00	0.00	0.00
9,900.00	3.46	252.20	9,889.66	-105.65	-329.11	-87.56	0.00	0.00	0.00
10,000.00	3.46	252.20	9,989.48	-107.49	-334.86	-89.09	0.00	0.00	0.00
10,100.00	3.46	252.20	10,089.30	-109.34	-340.61	-90.61	0.00	0.00	0.00
10,200.00	3.46	252.20	10,189.12	-111.18	-346.35	-92.14	0.00	0.00	0.00
10,300.00	3.46	252.20	10,288.94	-113.03	-352.10	-93.67	0.00	0.00	0.00
10,400.00	3.46	252.20	10,388.75	-114.87	-357.85	-95.20	0.00	0.00	0.00
10,500.00	3.46	252.20	10,488.57	-116.72	-363.59	-96.73	0.00	0.00	0.00
10,600.00	3.46	252.20	10,588.39	-118.56	-369.34	-98.26	0.00	0.00	0.00



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10,700.00	3.46	252.20	10,688.21	-120.41	-375.09	-99.79	0.00	0.00	0.00
10,800.00	3.46	252.20	10,788.02	-122.25	-380.83	-101.32	0.00	0.00	0.00
10,900.00	3.46	252.20	10,887.84	-124.10	-386.58	-102.84	0.00	0.00	0.00
11,000.00	3.46	252.20	10,987.66	-125.94	-392.33	-104.37	0.00	0.00	0.00
11,100.00	3.46	252.20	11,087.48	-127.79	-398.07	-105.90	0.00	0.00	0.00
11,200.00	3.46	252.20	11,187.30	-129.63	-403.82	-107.43	0.00	0.00	0.00
11,300.00	3.46	252.20	11,287.11	-131.48	-409.57	-108.96	0.00	0.00	0.00
11,400.00	3.46	252.20	11,386.93	-133.32	-415.31	-110.49	0.00	0.00	0.00
11,500.00	3.46	252.20	11,486.75	-135.17	-421.06	-112.02	0.00	0.00	0.00
11,600.00	3.46	252.20	11,586.57	-137.01	-426.81	-113.55	0.00	0.00	0.00
11,700.00	3.46	252.20	11,686.38	-138.86	-432.55	-115.08	0.00	0.00	0.00
11,800.00	3.46	252.20	11,786.20	-140.70	-438.30	-116.60	0.00	0.00	0.00
11,900.00	3.46	252.20	11,886.02	-142.54	-444.05	-118.13	0.00	0.00	0.00
12,000.00	3.46	252.20	11,985.84	-144.39	-449.79	-119.66	0.00	0.00	0.00
12,028.95	3.46	252.20	12,014.73	-144.92	-451.46	-120.10	0.00	0.00	0.00
12,050.00	3.62	293.93	12,035.75	-144.85	-452.67	-119.96	12.00	0.78	198.22
12,075.00	5.57	323.34	12,060.67	-143.55	-454.12	-118.59	12.00	7.80	117.65
12,100.00	8.18	335.94	12,085.49	-140.95	-455.57	-115.92	12.00	10.44	50.37
12,125.00	10.99	342.31	12,110.14	-137.06	-457.02	-111.95	12.00	11.24	25.50
12,150.00	13.88	346.09	12,134.55	-131.87	-458.46	-106.69	12.00	11.56	15.11
12,175.00	16.81	348.58	12,158.65	-125.42	-459.90	-100.17	12.00	11.71	9.96
12,200.00	19.76	350.35	12,182.39	-117.70	-461.33	-92.39	12.00	11.79	7.07
12,225.00	22.72	351.67	12,205.69	-108.76	-462.73	-83.38	12.00	11.85	5.29
12,250.00	25.69	352.70	12,228.49	-98.60	-464.12	-73.16	12.00	11.88	4.13
12,275.00	28.67	353.53	12,250.72	-87.27	-465.49	-61.77	12.00	11.90	3.32
12,300.00	31.65	354.22	12,272.34	-74.78	-466.82	-49.23	12.00	11.92	2.75
12,325.00	34.63	354.80	12,293.27	-61.18	-468.13	-35.58	12.00	11.93	2.32
12,350.00	37.62	355.30	12,313.46	-46.50	-469.40	-20.85	12.00	11.94	1.99
12,375.00	40.60	355.73	12,332.86	-30.78	-470.63	-5.08	12.00	11.95	1.74
12,400.00	43.59	356.12	12,351.40	-14.06	-471.82	11.67	12.00	11.96	1.54
12,425.00	46.58	356.46	12,369.05	3.61	-472.97	29.38	12.00	11.96	1.38
12,450.00	49.57	356.77	12,385.75	22.17	-474.06	47.98	12.00	11.96	1.25
12,475.00	52.57	357.06	12,401.46	41.59	-475.11	67.42	12.00	11.97	1.14
12,500.00	55.56	357.32	12,416.13	61.80	-476.10	87.66	12.00	11.97	1.06
12,525.00	58.55	357.57	12,429.73	82.76	-477.03	108.64	12.00	11.97	0.98
12,550.00	61.54	357.80	12,442.21	104.40	-477.91	130.29	12.00	11.97	0.92
12,575.00	64.54	358.02	12,453.54	126.67	-478.72	152.57	12.00	11.97	0.87
12,598.75	67.38	358.21	12,463.21	148.35	-479.43	174.25	12.00	11.98	0.83
FTP (Dogwood 23 Fed Com #710H)									
12,600.00	67.53	358.22	12,463.69	149.50	-479.47	175.41	12.00	11.98	0.81
12,625.00	70.53	358.42	12,472.64	172.83	-480.15	198.74	12.00	11.98	0.79
12,650.00	73.52	358.61	12,480.35	196.60	-480.77	222.51	12.00	11.98	0.76
12,675.00	76.52	358.80	12,486.82	220.74	-481.31	246.64	12.00	11.98	0.74
12,700.00	79.51	358.98	12,492.01	245.19	-481.79	271.08	12.00	11.98	0.72
12,725.00	82.51	359.16	12,495.91	269.87	-482.19	295.75	12.00	11.98	0.71
12,750.00	85.50	359.33	12,498.53	294.73	-482.52	320.59	12.00	11.98	0.70
12,775.00	88.50	359.50	12,499.84	319.69	-482.77	345.53	12.00	11.98	0.69
12,787.56	90.00	359.59	12,500.00	332.25	-482.87	358.07	12.00	11.98	0.69
12,800.00	90.00	359.59	12,500.00	344.69	-482.96	370.50	0.00	0.00	0.00
12,900.00	90.00	359.59	12,500.00	444.69	-483.68	470.39	0.00	0.00	0.00
13,000.00	90.00	359.59	12,500.00	544.69	-484.39	570.28	0.00	0.00	0.00
13,100.00	90.00	359.59	12,500.00	644.68	-485.11	670.16	0.00	0.00	0.00
13,200.00	90.00	359.59	12,500.00	744.68	-485.82	770.05	0.00	0.00	0.00



EOG Resources, Inc.

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 Site: Dogwood 23 Fed Com
 Well: #710H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #710H
 TVD Reference: KB= 25' @ 3312.00usft
 MD Reference: KB= 25' @ 3312.00usft
 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	844.68	-486.54	869.94	0.00	0.00	0.00
13,400.00	90.00	359.59	12,500.00	944.68	-487.26	969.83	0.00	0.00	0.00
13,500.00	90.00	359.59	12,500.00	1,044.67	-487.97	1,069.71	0.00	0.00	0.00
13,600.00	90.00	359.59	12,500.00	1,144.67	-488.69	1,169.60	0.00	0.00	0.00
13,700.00	90.00	359.59	12,500.00	1,244.67	-489.40	1,269.49	0.00	0.00	0.00
13,800.00	90.00	359.59	12,500.00	1,344.67	-490.12	1,369.38	0.00	0.00	0.00
13,900.00	90.00	359.59	12,500.00	1,444.66	-490.83	1,469.27	0.00	0.00	0.00
14,000.00	90.00	359.59	12,500.00	1,544.66	-491.55	1,569.15	0.00	0.00	0.00
14,100.00	90.00	359.59	12,500.00	1,644.66	-492.26	1,669.04	0.00	0.00	0.00
14,200.00	90.00	359.59	12,500.00	1,744.66	-492.98	1,768.93	0.00	0.00	0.00
14,300.00	90.00	359.59	12,500.00	1,844.65	-493.70	1,868.82	0.00	0.00	0.00
14,400.00	90.00	359.59	12,500.00	1,944.65	-494.41	1,968.70	0.00	0.00	0.00
14,500.00	90.00	359.59	12,500.00	2,044.65	-495.13	2,068.59	0.00	0.00	0.00
14,600.00	90.00	359.59	12,500.00	2,144.65	-495.84	2,168.48	0.00	0.00	0.00
14,700.00	90.00	359.59	12,500.00	2,244.64	-496.56	2,268.37	0.00	0.00	0.00
14,800.00	90.00	359.59	12,500.00	2,344.64	-497.27	2,368.26	0.00	0.00	0.00
14,900.00	90.00	359.59	12,500.00	2,444.64	-497.99	2,468.14	0.00	0.00	0.00
15,000.00	90.00	359.59	12,500.00	2,544.64	-498.71	2,568.03	0.00	0.00	0.00
15,100.00	90.00	359.59	12,500.00	2,644.63	-499.42	2,667.92	0.00	0.00	0.00
15,200.00	90.00	359.59	12,500.00	2,744.63	-500.14	2,767.81	0.00	0.00	0.00
15,300.00	90.00	359.59	12,500.00	2,844.63	-500.85	2,867.70	0.00	0.00	0.00
15,400.00	90.00	359.59	12,500.00	2,944.62	-501.57	2,967.58	0.00	0.00	0.00
15,500.00	90.00	359.59	12,500.00	3,044.62	-502.28	3,067.47	0.00	0.00	0.00
15,600.00	90.00	359.59	12,500.00	3,144.62	-503.00	3,167.36	0.00	0.00	0.00
15,700.00	90.00	359.59	12,500.00	3,244.62	-503.71	3,267.25	0.00	0.00	0.00
15,800.00	90.00	359.59	12,500.00	3,344.61	-504.43	3,367.13	0.00	0.00	0.00
15,900.00	90.00	359.59	12,500.00	3,444.61	-505.15	3,467.02	0.00	0.00	0.00
16,000.00	90.00	359.59	12,500.00	3,544.61	-505.86	3,566.91	0.00	0.00	0.00
16,100.00	90.00	359.59	12,500.00	3,644.61	-506.58	3,666.80	0.00	0.00	0.00
16,200.00	90.00	359.59	12,500.00	3,744.60	-507.29	3,766.69	0.00	0.00	0.00
16,300.00	90.00	359.59	12,500.00	3,844.60	-508.01	3,866.57	0.00	0.00	0.00
16,400.00	90.00	359.59	12,500.00	3,944.60	-508.72	3,966.46	0.00	0.00	0.00
16,500.00	90.00	359.59	12,500.00	4,044.60	-509.44	4,066.35	0.00	0.00	0.00
16,600.00	90.00	359.59	12,500.00	4,144.59	-510.15	4,166.24	0.00	0.00	0.00
16,700.00	90.00	359.59	12,500.00	4,244.59	-510.87	4,266.13	0.00	0.00	0.00
16,800.00	90.00	359.59	12,500.00	4,344.59	-511.59	4,366.01	0.00	0.00	0.00
16,900.00	90.00	359.59	12,500.00	4,444.59	-512.30	4,465.90	0.00	0.00	0.00
17,000.00	90.00	359.59	12,500.00	4,544.58	-513.02	4,565.79	0.00	0.00	0.00
17,100.00	90.00	359.59	12,500.00	4,644.58	-513.73	4,665.68	0.00	0.00	0.00
17,200.00	90.00	359.59	12,500.00	4,744.58	-514.45	4,765.56	0.00	0.00	0.00
17,300.00	90.00	359.59	12,500.00	4,844.58	-515.16	4,865.45	0.00	0.00	0.00
17,400.00	90.00	359.59	12,500.00	4,944.57	-515.88	4,965.34	0.00	0.00	0.00
17,500.00	90.00	359.59	12,500.00	5,044.57	-516.59	5,065.23	0.00	0.00	0.00
17,600.00	90.00	359.59	12,500.00	5,144.57	-517.31	5,165.12	0.00	0.00	0.00
17,700.00	90.00	359.59	12,500.00	5,244.57	-518.03	5,265.00	0.00	0.00	0.00
17,800.00	90.00	359.59	12,500.00	5,344.56	-518.74	5,364.89	0.00	0.00	0.00
17,900.00	90.00	359.59	12,500.00	5,444.56	-519.46	5,464.78	0.00	0.00	0.00
18,000.00	90.00	359.59	12,500.00	5,544.56	-520.17	5,564.67	0.00	0.00	0.00
18,100.00	90.00	359.59	12,500.00	5,644.56	-520.89	5,664.55	0.00	0.00	0.00
18,200.00	90.00	359.59	12,500.00	5,744.55	-521.60	5,764.44	0.00	0.00	0.00
18,300.00	90.00	359.59	12,500.00	5,844.55	-522.32	5,864.33	0.00	0.00	0.00
18,400.00	90.00	359.59	12,500.00	5,944.55	-523.03	5,964.22	0.00	0.00	0.00
18,500.00	90.00	359.59	12,500.00	6,044.55	-523.75	6,064.11	0.00	0.00	0.00
18,600.00	90.00	359.59	12,500.00	6,144.54	-524.47	6,163.99	0.00	0.00	0.00



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 Well: #710H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #710H
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 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)
18,700.00	90.00	359.59	12,500.00	6,244.54	-525.18	6,263.88	0.00	0.00	0.00
18,800.00	90.00	359.59	12,500.00	6,344.54	-525.90	6,363.77	0.00	0.00	0.00
18,900.00	90.00	359.59	12,500.00	6,444.54	-526.61	6,463.66	0.00	0.00	0.00
19,000.00	90.00	359.59	12,500.00	6,544.53	-527.33	6,563.55	0.00	0.00	0.00
19,100.00	90.00	359.59	12,500.00	6,644.53	-528.04	6,663.43	0.00	0.00	0.00
19,200.00	90.00	359.59	12,500.00	6,744.53	-528.76	6,763.32	0.00	0.00	0.00
19,300.00	90.00	359.59	12,500.00	6,844.53	-529.47	6,863.21	0.00	0.00	0.00
19,400.00	90.00	359.59	12,500.00	6,944.52	-530.19	6,963.10	0.00	0.00	0.00
19,500.00	90.00	359.59	12,500.00	7,044.52	-530.91	7,062.98	0.00	0.00	0.00
19,600.00	90.00	359.59	12,500.00	7,144.52	-531.62	7,162.87	0.00	0.00	0.00
19,700.00	90.00	359.59	12,500.00	7,244.51	-532.34	7,262.76	0.00	0.00	0.00
19,800.00	90.00	359.59	12,500.00	7,344.51	-533.05	7,362.65	0.00	0.00	0.00
19,900.00	90.00	359.59	12,500.00	7,444.51	-533.77	7,462.54	0.00	0.00	0.00
20,000.00	90.00	359.59	12,500.00	7,544.51	-534.48	7,562.42	0.00	0.00	0.00
20,100.00	90.00	359.59	12,500.00	7,644.50	-535.20	7,662.31	0.00	0.00	0.00
20,200.00	90.00	359.59	12,500.00	7,744.50	-535.92	7,762.20	0.00	0.00	0.00
20,300.00	90.00	359.59	12,500.00	7,844.50	-536.63	7,862.09	0.00	0.00	0.00
20,400.00	90.00	359.59	12,500.00	7,944.50	-537.35	7,961.97	0.00	0.00	0.00
20,500.00	90.00	359.59	12,500.00	8,044.49	-538.06	8,061.86	0.00	0.00	0.00
20,600.00	90.00	359.59	12,500.00	8,144.49	-538.78	8,161.75	0.00	0.00	0.00
20,700.00	90.00	359.59	12,500.00	8,244.49	-539.49	8,261.64	0.00	0.00	0.00
20,800.00	90.00	359.59	12,500.00	8,344.49	-540.21	8,361.53	0.00	0.00	0.00
20,900.00	90.00	359.59	12,500.00	8,444.48	-540.92	8,461.41	0.00	0.00	0.00
21,000.00	90.00	359.59	12,500.00	8,544.48	-541.64	8,561.30	0.00	0.00	0.00
21,100.00	90.00	359.59	12,500.00	8,644.48	-542.36	8,661.19	0.00	0.00	0.00
21,200.00	90.00	359.59	12,500.00	8,744.48	-543.07	8,761.08	0.00	0.00	0.00
21,300.00	90.00	359.59	12,500.00	8,844.47	-543.79	8,860.97	0.00	0.00	0.00
21,400.00	90.00	359.59	12,500.00	8,944.47	-544.50	8,960.85	0.00	0.00	0.00
21,500.00	90.00	359.59	12,500.00	9,044.47	-545.22	9,060.74	0.00	0.00	0.00
21,600.00	90.00	359.59	12,500.00	9,144.47	-545.93	9,160.63	0.00	0.00	0.00
21,700.00	90.00	359.59	12,500.00	9,244.46	-546.65	9,260.52	0.00	0.00	0.00
21,800.00	90.00	359.59	12,500.00	9,344.46	-547.36	9,360.40	0.00	0.00	0.00
21,900.00	90.00	359.59	12,500.00	9,444.46	-548.08	9,460.29	0.00	0.00	0.00
22,000.00	90.00	359.59	12,500.00	9,544.46	-548.80	9,560.18	0.00	0.00	0.00
22,100.00	90.00	359.59	12,500.00	9,644.45	-549.51	9,660.07	0.00	0.00	0.00
22,200.00	90.00	359.59	12,500.00	9,744.45	-550.23	9,759.96	0.00	0.00	0.00
22,300.00	90.00	359.59	12,500.00	9,844.45	-550.94	9,859.84	0.00	0.00	0.00
22,400.00	90.00	359.59	12,500.00	9,944.45	-551.66	9,959.73	0.00	0.00	0.00
22,500.00	90.00	359.59	12,500.00	10,044.44	-552.37	10,059.62	0.00	0.00	0.00
22,587.56	90.00	359.59	12,500.00	10,132.00	-553.00	10,147.08	0.00	0.00	0.00

PBHL (Dogwood 23 Fed Com #710H)



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Site: Dogwood 23 Fed Com
Well: #710H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #710H
TVD Reference: KB= 25' @ 3312.00usft
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North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	10,132.00	-553.00	382,840.00	783,859.00	32.05009027	-103.55056066
- plan hits target center									
- Point									
FTP (Dogwood 23 Fed C	0.00	0.00	12,500.00	132.00	-479.00	372,840.00	783,933.00	32.02260148	-103.55055574
- plan misses target center by 40.26usft at 12598.75usft MD (12463.21 TVD, 148.35 N, -479.43 E)									
- Point									