



Lea County, NM (NAD 83 NME)

Dogwood 23 Fed Com #706H

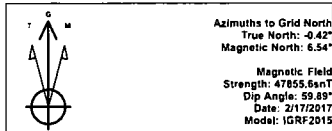
Plan #0.1

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: #706H

Ground Level: 3304.00
KB = 25' @ 3329.00usft
Northing: 372720.00
Easting: 785986.00
Latitude: 32.02223058
Longitude: -103.54393473



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

Magnetic Field
Strength: 47855.6nT
Dip Angle: 59.89°
Date: 2/17/2017
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

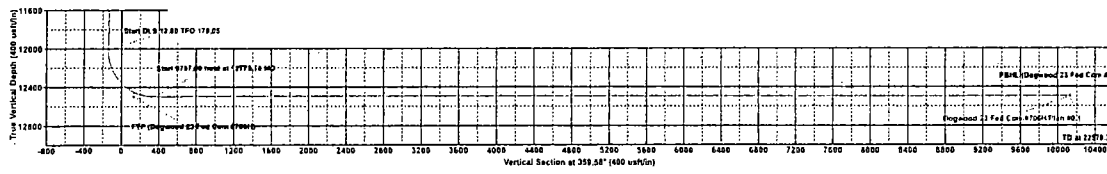
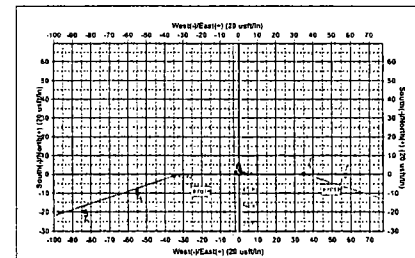
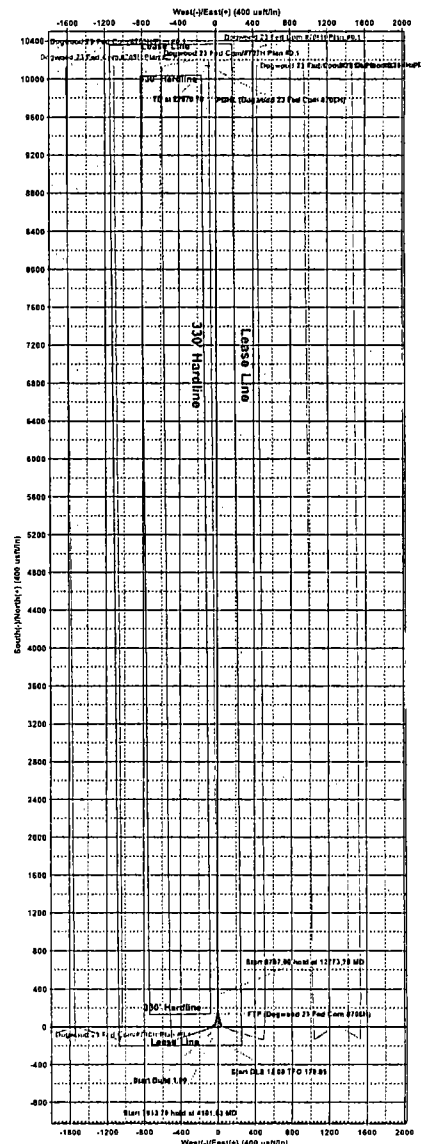
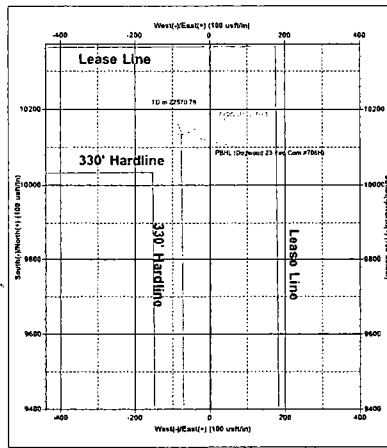
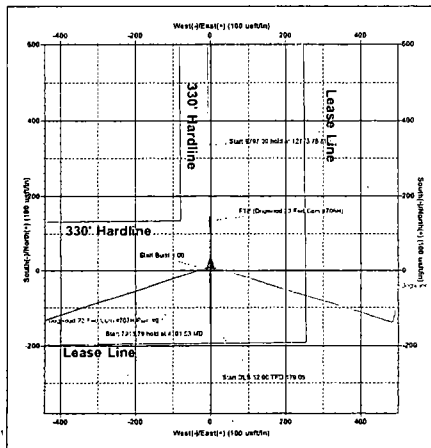
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	
3	4101.53	1.02	180.54	4101.53	-0.90	-0.01	1.00	180.54	-0.90	
4	12015.32	1.02	180.54	12014.08	-141.13	-1.34	0.00	0.00	-141.11	
5	12773.78	90.00	359.59	12500.00	336.25	-4.89	12.00	179.05	336.28	
6	22570.78	90.00	359.59	12500.00	10133.00	-75.00	0.00	0.00	10133.28	PBHL (Dogwood 23 Fed Com #706H)

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 #706H)	12500.00	135.00	-2.00	372855.00	785984.00
PBHL (Dogwood 23 Fed Com #706H)	12500.00	10133.00	-75.00	382853.00	785911.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Dogwood 23 Fed Com

#706H

OH

Plan: Plan #0.1

Standard Planning Report

28 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: #706H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #706H
TVD Reference: KB = 25' @ 3329.00usft
MD Reference: KB = 25' @ 3329.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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: 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: #706H

Well Position: +N/-S -21.00 usft Northing: 372,720.00 usft Latitude: 32.02223058
+E/-W -2,325.00 usft Easting: 785,986.00 usft Longitude: -103.54393473
Position Uncertainty: 0.00 usft Wellhead Elevation: 0.00 usft Ground Level: 3,304.00 usft

Wellbore: OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/17/2017	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) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.58

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	
4,101.53	1.02	180.54	4,101.53	-0.90	-0.01	1.00	1.00	0.00	180.54	
12,015.32	1.02	180.54	12,014.08	-141.13	-1.34	0.00	0.00	0.00	0.00	
12,773.78	90.00	359.59	12,500.00	336.25	-4.89	12.00	11.73	23.61	179.05	
22,570.78	90.00	359.59	12,500.00	10,133.00	-75.00	0.00	0.00	0.00	0.00	PBHL (Dogwood 23 F



EOG Resources, Inc.

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Well: #706H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #706H
TVD Reference: KB = 25' @ 3329.00usft
MD Reference: KB = 25' @ 3329.00usft
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
4,101.53	1.02	180.54	4,101.53	-0.90	-0.01	-0.90	1.00	1.00	0.00
4,200.00	1.02	180.54	4,199.98	-2.64	-0.03	-2.64	0.00	0.00	0.00
4,300.00	1.02	180.54	4,299.96	-4.42	-0.04	-4.42	0.00	0.00	0.00
4,400.00	1.02	180.54	4,399.95	-6.19	-0.06	-6.19	0.00	0.00	0.00
4,500.00	1.02	180.54	4,499.93	-7.96	-0.08	-7.96	0.00	0.00	0.00
4,600.00	1.02	180.54	4,599.92	-9.73	-0.09	-9.73	0.00	0.00	0.00
4,700.00	1.02	180.54	4,699.90	-11.50	-0.11	-11.50	0.00	0.00	0.00
4,800.00	1.02	180.54	4,799.89	-13.28	-0.13	-13.27	0.00	0.00	0.00
4,900.00	1.02	180.54	4,899.87	-15.05	-0.14	-15.05	0.00	0.00	0.00
5,000.00	1.02	180.54	4,999.85	-16.82	-0.16	-16.82	0.00	0.00	0.00
5,100.00	1.02	180.54	5,099.84	-18.59	-0.18	-18.59	0.00	0.00	0.00
5,200.00	1.02	180.54	5,199.82	-20.36	-0.19	-20.36	0.00	0.00	0.00
5,300.00	1.02	180.54	5,299.81	-22.14	-0.21	-22.13	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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Site: Dogwood 23 Fed Com
Well: #706H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #706H
TVD Reference: KB = 25' @ 3329.00usft
MD Reference: KB = 25' @ 3329.00usft
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)
5,400.00	1.02	180.54	5,399.79	-23.91	-0.23	-23.91	0.00	0.00	0.00
5,500.00	1.02	180.54	5,499.78	-25.68	-0.24	-25.68	0.00	0.00	0.00
5,600.00	1.02	180.54	5,599.76	-27.45	-0.26	-27.45	0.00	0.00	0.00
5,700.00	1.02	180.54	5,699.74	-29.22	-0.28	-29.22	0.00	0.00	0.00
5,800.00	1.02	180.54	5,799.73	-31.00	-0.29	-30.99	0.00	0.00	0.00
5,900.00	1.02	180.54	5,899.71	-32.77	-0.31	-32.76	0.00	0.00	0.00
6,000.00	1.02	180.54	5,999.70	-34.54	-0.33	-34.54	0.00	0.00	0.00
6,100.00	1.02	180.54	6,099.68	-36.31	-0.34	-36.31	0.00	0.00	0.00
6,200.00	1.02	180.54	6,199.67	-38.08	-0.36	-38.08	0.00	0.00	0.00
6,300.00	1.02	180.54	6,299.65	-39.85	-0.38	-39.85	0.00	0.00	0.00
6,400.00	1.02	180.54	6,399.63	-41.63	-0.39	-41.62	0.00	0.00	0.00
6,500.00	1.02	180.54	6,499.62	-43.40	-0.41	-43.39	0.00	0.00	0.00
6,600.00	1.02	180.54	6,599.60	-45.17	-0.43	-45.17	0.00	0.00	0.00
6,700.00	1.02	180.54	6,699.59	-46.94	-0.44	-46.94	0.00	0.00	0.00
6,800.00	1.02	180.54	6,799.57	-48.71	-0.46	-48.71	0.00	0.00	0.00
6,900.00	1.02	180.54	6,899.56	-50.49	-0.48	-50.48	0.00	0.00	0.00
7,000.00	1.02	180.54	6,999.54	-52.26	-0.49	-52.25	0.00	0.00	0.00
7,100.00	1.02	180.54	7,099.52	-54.03	-0.51	-54.02	0.00	0.00	0.00
7,200.00	1.02	180.54	7,199.51	-55.80	-0.53	-55.80	0.00	0.00	0.00
7,300.00	1.02	180.54	7,299.49	-57.57	-0.54	-57.57	0.00	0.00	0.00
7,400.00	1.02	180.54	7,399.48	-59.35	-0.56	-59.34	0.00	0.00	0.00
7,500.00	1.02	180.54	7,499.46	-61.12	-0.58	-61.11	0.00	0.00	0.00
7,600.00	1.02	180.54	7,599.45	-62.89	-0.60	-62.88	0.00	0.00	0.00
7,700.00	1.02	180.54	7,699.43	-64.66	-0.61	-64.66	0.00	0.00	0.00
7,800.00	1.02	180.54	7,799.41	-66.43	-0.63	-66.43	0.00	0.00	0.00
7,900.00	1.02	180.54	7,899.40	-68.21	-0.65	-68.20	0.00	0.00	0.00
8,000.00	1.02	180.54	7,999.38	-69.98	-0.66	-69.97	0.00	0.00	0.00
8,100.00	1.02	180.54	8,099.37	-71.75	-0.68	-71.74	0.00	0.00	0.00
8,200.00	1.02	180.54	8,199.35	-73.52	-0.70	-73.51	0.00	0.00	0.00
8,300.00	1.02	180.54	8,299.34	-75.29	-0.71	-75.29	0.00	0.00	0.00
8,400.00	1.02	180.54	8,399.32	-77.07	-0.73	-77.06	0.00	0.00	0.00
8,500.00	1.02	180.54	8,499.30	-78.84	-0.75	-78.83	0.00	0.00	0.00
8,600.00	1.02	180.54	8,599.29	-80.61	-0.76	-80.60	0.00	0.00	0.00
8,700.00	1.02	180.54	8,699.27	-82.38	-0.78	-82.37	0.00	0.00	0.00
8,800.00	1.02	180.54	8,799.26	-84.15	-0.80	-84.14	0.00	0.00	0.00
8,900.00	1.02	180.54	8,899.24	-85.92	-0.81	-85.92	0.00	0.00	0.00
9,000.00	1.02	180.54	8,999.23	-87.70	-0.83	-87.69	0.00	0.00	0.00
9,100.00	1.02	180.54	9,099.21	-89.47	-0.85	-89.46	0.00	0.00	0.00
9,200.00	1.02	180.54	9,199.19	-91.24	-0.86	-91.23	0.00	0.00	0.00
9,300.00	1.02	180.54	9,299.18	-93.01	-0.88	-93.00	0.00	0.00	0.00
9,400.00	1.02	180.54	9,399.16	-94.78	-0.90	-94.78	0.00	0.00	0.00
9,500.00	1.02	180.54	9,499.15	-96.56	-0.91	-96.55	0.00	0.00	0.00
9,600.00	1.02	180.54	9,599.13	-98.33	-0.93	-98.32	0.00	0.00	0.00
9,700.00	1.02	180.54	9,699.12	-100.10	-0.95	-100.09	0.00	0.00	0.00
9,800.00	1.02	180.54	9,799.10	-101.87	-0.96	-101.86	0.00	0.00	0.00
9,900.00	1.02	180.54	9,899.08	-103.64	-0.98	-103.63	0.00	0.00	0.00
10,000.00	1.02	180.54	9,999.07	-105.42	-1.00	-105.41	0.00	0.00	0.00
10,100.00	1.02	180.54	10,099.05	-107.19	-1.01	-107.18	0.00	0.00	0.00
10,200.00	1.02	180.54	10,199.04	-108.96	-1.03	-108.95	0.00	0.00	0.00
10,300.00	1.02	180.54	10,299.02	-110.73	-1.05	-110.72	0.00	0.00	0.00
10,400.00	1.02	180.54	10,399.01	-112.50	-1.06	-112.49	0.00	0.00	0.00
10,500.00	1.02	180.54	10,498.99	-114.28	-1.08	-114.26	0.00	0.00	0.00
10,600.00	1.02	180.54	10,598.97	-116.05	-1.10	-116.04	0.00	0.00	0.00
10,700.00	1.02	180.54	10,698.96	-117.82	-1.11	-117.81	0.00	0.00	0.00



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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)
10,800.00	1.02	180.54	10,798.94	-119.59	-1.13	-119.58	0.00	0.00	0.00
10,900.00	1.02	180.54	10,898.93	-121.36	-1.15	-121.35	0.00	0.00	0.00
11,000.00	1.02	180.54	10,998.91	-123.14	-1.17	-123.12	0.00	0.00	0.00
11,100.00	1.02	180.54	11,098.90	-124.91	-1.18	-124.89	0.00	0.00	0.00
11,200.00	1.02	180.54	11,198.88	-126.68	-1.20	-126.67	0.00	0.00	0.00
11,300.00	1.02	180.54	11,298.86	-128.45	-1.22	-128.44	0.00	0.00	0.00
11,400.00	1.02	180.54	11,398.85	-130.22	-1.23	-130.21	0.00	0.00	0.00
11,500.00	1.02	180.54	11,498.83	-131.99	-1.25	-131.98	0.00	0.00	0.00
11,600.00	1.02	180.54	11,598.82	-133.77	-1.27	-133.75	0.00	0.00	0.00
11,700.00	1.02	180.54	11,698.80	-135.54	-1.28	-135.53	0.00	0.00	0.00
11,800.00	1.02	180.54	11,798.79	-137.31	-1.30	-137.30	0.00	0.00	0.00
11,900.00	1.02	180.54	11,898.77	-139.08	-1.32	-139.07	0.00	0.00	0.00
12,000.00	1.02	180.54	11,998.75	-140.85	-1.33	-140.84	0.00	0.00	0.00
12,015.32	1.02	180.54	12,014.08	-141.13	-1.34	-141.11	0.00	0.00	0.00
12,025.00	0.15	353.00	12,023.75	-141.20	-1.34	-141.19	12.00	-8.97	1,782.20
12,050.00	3.15	359.28	12,048.74	-140.48	-1.35	-140.47	12.00	12.00	25.15
12,075.00	6.15	359.43	12,073.65	-138.46	-1.37	-138.44	12.00	12.00	0.60
12,100.00	9.15	359.49	12,098.43	-135.13	-1.40	-135.12	12.00	12.00	0.21
12,125.00	12.15	359.51	12,123.00	-130.51	-1.44	-130.50	12.00	12.00	0.11
12,150.00	15.15	359.53	12,147.29	-124.62	-1.49	-124.60	12.00	12.00	0.06
12,175.00	18.15	359.54	12,171.24	-117.46	-1.55	-117.44	12.00	12.00	0.04
12,200.00	21.15	359.55	12,194.78	-109.05	-1.62	-109.04	12.00	12.00	0.03
12,225.00	24.15	359.55	12,217.85	-99.43	-1.69	-99.41	12.00	12.00	0.02
12,250.00	27.15	359.56	12,240.38	-88.61	-1.78	-88.59	12.00	12.00	0.02
12,275.00	30.15	359.56	12,262.32	-76.63	-1.87	-76.61	12.00	12.00	0.02
12,300.00	33.15	359.56	12,283.60	-63.51	-1.97	-63.49	12.00	12.00	0.01
12,325.00	36.15	359.57	12,304.17	-49.30	-2.08	-49.28	12.00	12.00	0.01
12,350.00	39.15	359.57	12,323.96	-34.03	-2.19	-34.02	12.00	12.00	0.01
12,375.00	42.15	359.57	12,342.92	-17.75	-2.32	-17.73	12.00	12.00	0.01
12,400.00	45.15	359.57	12,361.01	-0.50	-2.44	-0.48	12.00	12.00	0.01
12,425.00	48.15	359.57	12,378.17	17.68	-2.58	17.70	12.00	12.00	0.01
12,450.00	51.15	359.58	12,394.36	36.73	-2.72	36.75	12.00	12.00	0.01
12,475.00	54.15	359.58	12,409.53	56.60	-2.87	56.62	12.00	12.00	0.01
12,500.00	57.15	359.58	12,423.63	77.23	-3.02	77.25	12.00	12.00	0.01
12,525.00	60.15	359.58	12,436.64	98.58	-3.18	98.60	12.00	12.00	0.00
12,550.00	63.15	359.58	12,448.51	120.58	-3.34	120.60	12.00	12.00	0.00
12,575.00	66.15	359.58	12,459.21	143.17	-3.50	143.19	12.00	12.00	0.00
12,582.95	67.10	359.58	12,462.37	150.46	-3.55	150.49	12.00	12.00	0.00
FTP (Dogwood 23 Fed Com #706H)									
12,600.00	69.15	359.58	12,468.72	166.28	-3.67	166.31	12.00	12.00	0.00
12,625.00	72.15	359.58	12,477.01	189.87	-3.84	189.89	12.00	12.00	0.00
12,650.00	75.15	359.59	12,484.04	213.85	-4.01	213.88	12.00	12.00	0.00
12,675.00	78.15	359.59	12,489.82	238.17	-4.19	238.20	12.00	12.00	0.00
12,700.00	81.15	359.59	12,494.31	262.76	-4.37	262.79	12.00	12.00	0.00
12,725.00	84.15	359.59	12,497.51	287.55	-4.55	287.58	12.00	12.00	0.00
12,750.00	87.15	359.59	12,499.41	312.48	-4.72	312.50	12.00	12.00	0.00
12,773.78	90.00	359.59	12,500.00	336.25	-4.89	336.28	12.00	12.00	0.00
12,800.00	90.00	359.59	12,500.00	362.47	-5.08	362.49	0.00	0.00	0.00
12,900.00	90.00	359.59	12,500.00	462.46	-5.80	462.49	0.00	0.00	0.00
13,000.00	90.00	359.59	12,500.00	562.46	-6.51	562.49	0.00	0.00	0.00
13,100.00	90.00	359.59	12,500.00	662.46	-7.23	662.49	0.00	0.00	0.00
13,200.00	90.00	359.59	12,500.00	762.46	-7.94	762.49	0.00	0.00	0.00
13,300.00	90.00	359.59	12,500.00	862.45	-8.66	862.49	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: #706H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #706H
 TVD Reference: KB = 25' @ 3329.00usft
 MD Reference: KB = 25' @ 3329.00usft
 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)
13,400.00	90.00	359.59	12,500.00	962.45	-9.38	962.49	0.00	0.00	0.00
13,500.00	90.00	359.59	12,500.00	1,062.45	-10.09	1,062.49	0.00	0.00	0.00
13,600.00	90.00	359.59	12,500.00	1,162.45	-10.81	1,162.49	0.00	0.00	0.00
13,700.00	90.00	359.59	12,500.00	1,262.44	-11.52	1,262.49	0.00	0.00	0.00
13,800.00	90.00	359.59	12,500.00	1,362.44	-12.24	1,362.49	0.00	0.00	0.00
13,900.00	90.00	359.59	12,500.00	1,462.44	-12.95	1,462.49	0.00	0.00	0.00
14,000.00	90.00	359.59	12,500.00	1,562.44	-13.67	1,562.49	0.00	0.00	0.00
14,100.00	90.00	359.59	12,500.00	1,662.43	-14.38	1,662.49	0.00	0.00	0.00
14,200.00	90.00	359.59	12,500.00	1,762.43	-15.10	1,762.49	0.00	0.00	0.00
14,300.00	90.00	359.59	12,500.00	1,862.43	-15.82	1,862.49	0.00	0.00	0.00
14,400.00	90.00	359.59	12,500.00	1,962.43	-16.53	1,962.49	0.00	0.00	0.00
14,500.00	90.00	359.59	12,500.00	2,062.42	-17.25	2,062.49	0.00	0.00	0.00
14,600.00	90.00	359.59	12,500.00	2,162.42	-17.96	2,162.49	0.00	0.00	0.00
14,700.00	90.00	359.59	12,500.00	2,262.42	-18.68	2,262.49	0.00	0.00	0.00
14,800.00	90.00	359.59	12,500.00	2,362.42	-19.39	2,362.49	0.00	0.00	0.00
14,900.00	90.00	359.59	12,500.00	2,462.41	-20.11	2,462.49	0.00	0.00	0.00
15,000.00	90.00	359.59	12,500.00	2,562.41	-20.83	2,562.49	0.00	0.00	0.00
15,100.00	90.00	359.59	12,500.00	2,662.41	-21.54	2,662.49	0.00	0.00	0.00
15,200.00	90.00	359.59	12,500.00	2,762.41	-22.26	2,762.49	0.00	0.00	0.00
15,300.00	90.00	359.59	12,500.00	2,862.40	-22.97	2,862.49	0.00	0.00	0.00
15,400.00	90.00	359.59	12,500.00	2,962.40	-23.69	2,962.49	0.00	0.00	0.00
15,500.00	90.00	359.59	12,500.00	3,062.40	-24.40	3,062.49	0.00	0.00	0.00
15,600.00	90.00	359.59	12,500.00	3,162.40	-25.12	3,162.49	0.00	0.00	0.00
15,700.00	90.00	359.59	12,500.00	3,262.39	-25.83	3,262.49	0.00	0.00	0.00
15,800.00	90.00	359.59	12,500.00	3,362.39	-26.55	3,362.49	0.00	0.00	0.00
15,900.00	90.00	359.59	12,500.00	3,462.39	-27.27	3,462.49	0.00	0.00	0.00
16,000.00	90.00	359.59	12,500.00	3,562.38	-27.98	3,562.49	0.00	0.00	0.00
16,100.00	90.00	359.59	12,500.00	3,662.38	-28.70	3,662.49	0.00	0.00	0.00
16,200.00	90.00	359.59	12,500.00	3,762.38	-29.41	3,762.49	0.00	0.00	0.00
16,300.00	90.00	359.59	12,500.00	3,862.38	-30.13	3,862.49	0.00	0.00	0.00
16,400.00	90.00	359.59	12,500.00	3,962.37	-30.84	3,962.49	0.00	0.00	0.00
16,500.00	90.00	359.59	12,500.00	4,062.37	-31.56	4,062.49	0.00	0.00	0.00
16,600.00	90.00	359.59	12,500.00	4,162.37	-32.27	4,162.49	0.00	0.00	0.00
16,700.00	90.00	359.59	12,500.00	4,262.37	-32.99	4,262.49	0.00	0.00	0.00
16,800.00	90.00	359.59	12,500.00	4,362.36	-33.71	4,362.49	0.00	0.00	0.00
16,900.00	90.00	359.59	12,500.00	4,462.36	-34.42	4,462.49	0.00	0.00	0.00
17,000.00	90.00	359.59	12,500.00	4,562.36	-35.14	4,562.49	0.00	0.00	0.00
17,100.00	90.00	359.59	12,500.00	4,662.36	-35.85	4,662.49	0.00	0.00	0.00
17,200.00	90.00	359.59	12,500.00	4,762.35	-36.57	4,762.49	0.00	0.00	0.00
17,300.00	90.00	359.59	12,500.00	4,862.35	-37.28	4,862.49	0.00	0.00	0.00
17,400.00	90.00	359.59	12,500.00	4,962.35	-38.00	4,962.49	0.00	0.00	0.00
17,500.00	90.00	359.59	12,500.00	5,062.35	-38.71	5,062.49	0.00	0.00	0.00
17,600.00	90.00	359.59	12,500.00	5,162.34	-39.43	5,162.49	0.00	0.00	0.00
17,700.00	90.00	359.59	12,500.00	5,262.34	-40.15	5,262.49	0.00	0.00	0.00
17,800.00	90.00	359.59	12,500.00	5,362.34	-40.86	5,362.49	0.00	0.00	0.00
17,900.00	90.00	359.59	12,500.00	5,462.34	-41.58	5,462.49	0.00	0.00	0.00
18,000.00	90.00	359.59	12,500.00	5,562.33	-42.29	5,562.49	0.00	0.00	0.00
18,100.00	90.00	359.59	12,500.00	5,662.33	-43.01	5,662.49	0.00	0.00	0.00
18,200.00	90.00	359.59	12,500.00	5,762.33	-43.72	5,762.49	0.00	0.00	0.00
18,300.00	90.00	359.59	12,500.00	5,862.33	-44.44	5,862.49	0.00	0.00	0.00
18,400.00	90.00	359.59	12,500.00	5,962.32	-45.15	5,962.49	0.00	0.00	0.00
18,500.00	90.00	359.59	12,500.00	6,062.32	-45.87	6,062.49	0.00	0.00	0.00
18,600.00	90.00	359.59	12,500.00	6,162.32	-46.59	6,162.49	0.00	0.00	0.00
18,700.00	90.00	359.59	12,500.00	6,262.32	-47.30	6,262.49	0.00	0.00	0.00



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: #706H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #706H
TVD Reference: KB = 25' @ 3329.00usft
MD Reference: KB = 25' @ 3329.00usft
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)
18,800.00	90.00	359.59	12,500.00	6,362.31	-48.02	6,362.49	0.00	0.00	0.00
18,900.00	90.00	359.59	12,500.00	6,462.31	-48.73	6,462.49	0.00	0.00	0.00
19,000.00	90.00	359.59	12,500.00	6,562.31	-49.45	6,562.49	0.00	0.00	0.00
19,100.00	90.00	359.59	12,500.00	6,662.31	-50.16	6,662.49	0.00	0.00	0.00
19,200.00	90.00	359.59	12,500.00	6,762.30	-50.88	6,762.49	0.00	0.00	0.00
19,300.00	90.00	359.59	12,500.00	6,862.30	-51.59	6,862.49	0.00	0.00	0.00
19,400.00	90.00	359.59	12,500.00	6,962.30	-52.31	6,962.49	0.00	0.00	0.00
19,500.00	90.00	359.59	12,500.00	7,062.30	-53.03	7,062.49	0.00	0.00	0.00
19,600.00	90.00	359.59	12,500.00	7,162.29	-53.74	7,162.49	0.00	0.00	0.00
19,700.00	90.00	359.59	12,500.00	7,262.29	-54.46	7,262.49	0.00	0.00	0.00
19,800.00	90.00	359.59	12,500.00	7,362.29	-55.17	7,362.49	0.00	0.00	0.00
19,900.00	90.00	359.59	12,500.00	7,462.29	-55.89	7,462.49	0.00	0.00	0.00
20,000.00	90.00	359.59	12,500.00	7,562.28	-56.60	7,562.49	0.00	0.00	0.00
20,100.00	90.00	359.59	12,500.00	7,662.28	-57.32	7,662.49	0.00	0.00	0.00
20,200.00	90.00	359.59	12,500.00	7,762.28	-58.04	7,762.49	0.00	0.00	0.00
20,300.00	90.00	359.59	12,500.00	7,862.27	-58.75	7,862.49	0.00	0.00	0.00
20,400.00	90.00	359.59	12,500.00	7,962.27	-59.47	7,962.49	0.00	0.00	0.00
20,500.00	90.00	359.59	12,500.00	8,062.27	-60.18	8,062.49	0.00	0.00	0.00
20,600.00	90.00	359.59	12,500.00	8,162.27	-60.90	8,162.49	0.00	0.00	0.00
20,700.00	90.00	359.59	12,500.00	8,262.26	-61.61	8,262.49	0.00	0.00	0.00
20,800.00	90.00	359.59	12,500.00	8,362.26	-62.33	8,362.49	0.00	0.00	0.00
20,900.00	90.00	359.59	12,500.00	8,462.26	-63.04	8,462.49	0.00	0.00	0.00
21,000.00	90.00	359.59	12,500.00	8,562.26	-63.76	8,562.49	0.00	0.00	0.00
21,100.00	90.00	359.59	12,500.00	8,662.25	-64.48	8,662.49	0.00	0.00	0.00
21,200.00	90.00	359.59	12,500.00	8,762.25	-65.19	8,762.49	0.00	0.00	0.00
21,300.00	90.00	359.59	12,500.00	8,862.25	-65.91	8,862.49	0.00	0.00	0.00
21,400.00	90.00	359.59	12,500.00	8,962.25	-66.62	8,962.49	0.00	0.00	0.00
21,500.00	90.00	359.59	12,500.00	9,062.24	-67.34	9,062.49	0.00	0.00	0.00
21,600.00	90.00	359.59	12,500.00	9,162.24	-68.05	9,162.49	0.00	0.00	0.00
21,700.00	90.00	359.59	12,500.00	9,262.24	-68.77	9,262.49	0.00	0.00	0.00
21,800.00	90.00	359.59	12,500.00	9,362.24	-69.48	9,362.49	0.00	0.00	0.00
21,900.00	90.00	359.59	12,500.00	9,462.23	-70.20	9,462.49	0.00	0.00	0.00
22,000.00	90.00	359.59	12,500.00	9,562.23	-70.92	9,562.49	0.00	0.00	0.00
22,100.00	90.00	359.59	12,500.00	9,662.23	-71.63	9,662.49	0.00	0.00	0.00
22,200.00	90.00	359.59	12,500.00	9,762.23	-72.35	9,762.49	0.00	0.00	0.00
22,300.00	90.00	359.59	12,500.00	9,862.22	-73.06	9,862.49	0.00	0.00	0.00
22,400.00	90.00	359.59	12,500.00	9,962.22	-73.78	9,962.49	0.00	0.00	0.00
22,500.00	90.00	359.59	12,500.00	10,062.22	-74.49	10,062.49	0.00	0.00	0.00
22,570.78	90.00	359.59	12,500.00	10,133.00	-75.00	10,133.28	0.00	0.00	0.00

PBHL (Dogwood 23 Fed Com #706H)



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: #706H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #706H
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MD Reference: KB = 25' @ 3329.00usft
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)		
FTP (Dogwood 23 Fed C	0.00	0.01	12,500.00	135.00	-2.00	372,855.00	785,984.00	32.02260170	-103.54393800
- plan misses target center by 40.71usft at 12582.95usft MD (12462.37 TVD, 150.46 N, -3.55 E)									
- Point									
PBHL (Dogwood 23 Fed	0.00	0.00	12,500.00	10,133.00	-75.00	382,853.00	785,911.00	32.05008494	-103.54393776
- plan hits target center									
- Point									