

SEP 28 2017

RECEIVED



Lea County, NM (NAD 83 NME)

Dogwood 23 Fed Com #703H

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: #703H

Ground Level: 3318.00
 KB = 25' @ 3343.00usf
 Northing: 372734.00 Easting: 787285.00 Latitude: 32.0224290 Longitude: -103.53974331

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

Magnetic Field
 Strength: 47856.2auT
 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

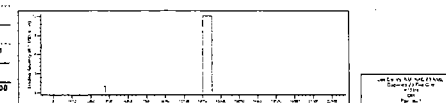
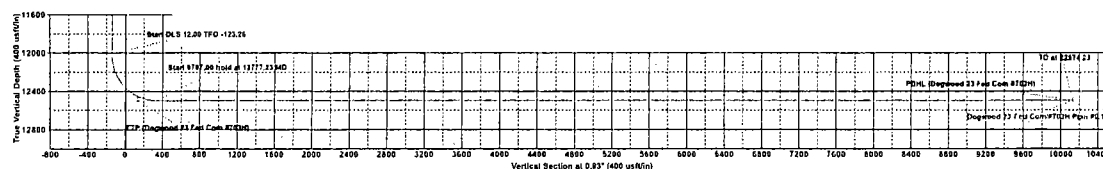
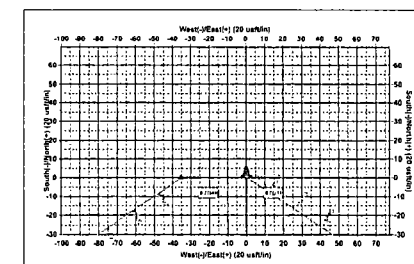
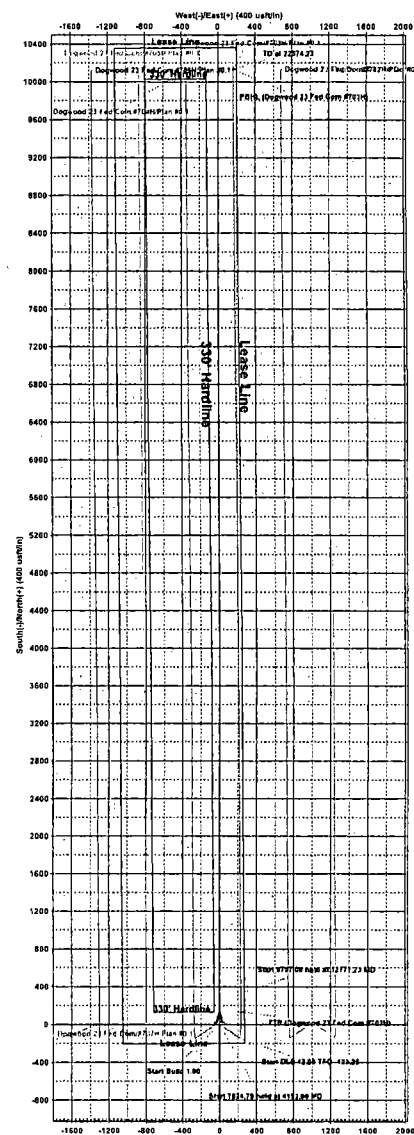
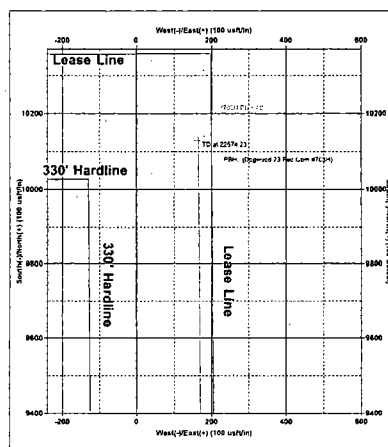
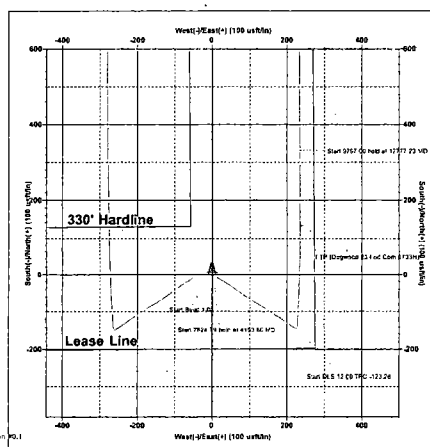
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	
3	4193.60	1.94	122.86	4193.56	-1.77	2.75	1.00	122.86	-1.73	
4	12018.38	1.94	122.86	12013.88	-145.22	224.78	0.00	0.00	-141.54	
5	12777.23	90.00	359.59	12500.00	332.25	235.11	12.00	-123.26	336.04	
6	22574.23	90.00	359.59	12500.00	10129.00	165.00	0.00	0.00	10130.34	PBHL (Dogwood 23 Fed Com #703H)

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 #703H)	12500.00	112.00	238.00	372865.00	787523.00
PBHL (Dogwood 23 Fed Com #703H)	12500.00	10129.00	165.00	382863.00	787450.00



Issued on: 24 Jan. 2017

VAM SLIJ-II

Connection Data Sheet

OD	Weight	Wall Th.	Grade	API Drift	Connection
7 5/8 in.	29.70 lb/ft	0.375 in.	VM 110 HC	6.750 in.	VAM® SLIJ-II

PIPE PROPERTIES	
Nominal OD	7.625 in.
Nominal ID	6.875 in.
Nominal Cross Section Area	8.541 sq.in.
Grade Type	High Collapse
Min. Yield Strength	110 ksi
Max. Yield Strength	140 ksi
Min. Ultimate Tensile Strength	125 ksi

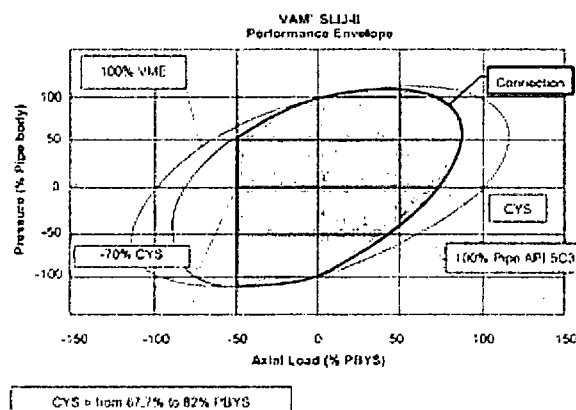
CONNECTION PROPERTIES	
Connection Type	Premium integral semi-flush
Connection OD (nom)	7.711 in.
Connection ID (nom)	6.820 in.
Make-up Loss	4.822 in.
Critical Cross Section	5.912 sq.in.
Tension Efficiency	69.2 % of pipe
Compression Efficiency	48.5 % of pipe
Internal Pressure Efficiency	100 % of pipe
External Pressure Efficiency	100 % of pipe

CONNECTION PERFORMANCES	
Tensile Yield Strength	651 klb
Compression Resistance	455 klb
Internal Yield Pressure	9470 psi
Uniaxial Collapse Pressure	7890 psi
Max. Bending Capacity	TDB
Max Bending with Sealability	20 °/100 ft

FIELD TORQUE VALUES	
Min. Make-up torque	11300 ft.lb
Opti. Make-up torque	12600 ft.lb
Max. Make-up torque	13900 ft.lb

VAM® SLIJ-II is a semi-flush integral premium connection for all casing applications. It combines a near flush design with high performances in tension, compression and gas sealability.

VAM® SLIJ-II has been validated according to the most stringent tests protocols, and has an excellent performance history in the world's most prolific HPHT wells.



Do you need help on this product? - Remember no one knows VAM® like VAM

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brazil@vamfieldservice.com

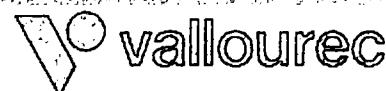
uk@vamfieldservice.com
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Over 140 VAM® Specialists available worldwide 24/7 for Rig Site Assistance

Other Connection Data Sheets are available at www.vamservices.com

Vallourec Group





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Dogwood 23 Fed Com

#703H

OH

Plan: Plan #0.1

Standard Planning Report

27 February, 2017



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: #703H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #703H
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
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: #703H
Well Position: +N/-S -7.00 usft Northing: 372,734.00 usft Latitude: 32.02224291
+E/-W -1,026.00 usft Easting: 787,285.00 usft Longitude: -103.53974331
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 0.93

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	
4,193.60	1.94	122.86	4,193.56	-1.77	2.75	1.00	1.00	0.00	122.86	
12,018.38	1.94	122.86	12,013.88	-145.22	224.78	0.00	0.00	0.00	0.00	
12,777.23	90.00	359.59	12,500.00	332.25	235.11	12.00	11.60	-16.24	-123.26	
22,574.23	90.00	359.59	12,500.00	10,129.00	165.00	0.00	0.00	0.00	0.00	PBHL (Dogwood 23 F



EOG Resources, Inc.

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Site: Dogwood 23 Fed Com
Well: #703H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #703H
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)
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	122.86	4,100.00	-0.47	0.73	-0.46	1.00	1.00	0.00
4,193.60	1.94	122.86	4,193.56	-1.77	2.75	-1.73	1.00	1.00	0.00
4,200.00	1.94	122.86	4,199.96	-1.89	2.93	-1.84	0.00	0.00	0.00
4,300.00	1.94	122.86	4,299.90	-3.73	5.77	-3.63	0.00	0.00	0.00
4,400.00	1.94	122.86	4,399.85	-5.56	8.60	-5.42	0.00	0.00	0.00
4,500.00	1.94	122.86	4,499.79	-7.39	11.44	-7.20	0.00	0.00	0.00
4,600.00	1.94	122.86	4,599.73	-9.22	14.28	-8.99	0.00	0.00	0.00
4,700.00	1.94	122.86	4,699.67	-11.06	17.12	-10.78	0.00	0.00	0.00
4,800.00	1.94	122.86	4,799.62	-12.89	19.95	-12.56	0.00	0.00	0.00
4,900.00	1.94	122.86	4,899.56	-14.72	22.79	-14.35	0.00	0.00	0.00
5,000.00	1.94	122.86	4,999.50	-16.56	25.63	-16.14	0.00	0.00	0.00
5,100.00	1.94	122.86	5,099.45	-18.39	28.47	-17.92	0.00	0.00	0.00
5,200.00	1.94	122.86	5,199.39	-20.22	31.30	-19.71	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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 Well: #703H
 Wellbore: OH
 Design: Plan #0.1

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

Well #703H
 KB = 25' @ 3343.00usft
 KB = 25' @ 3343.00usft
 Grid
 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	1.94	122.86	5,299.33	-22.06	34.14	-21.50	0.00	0.00	0.00
5,400.00	1.94	122.86	5,399.27	-23.89	36.98	-23.28	0.00	0.00	0.00
5,500.00	1.94	122.86	5,499.22	-25.72	39.82	-25.07	0.00	0.00	0.00
5,600.00	1.94	122.86	5,599.16	-27.56	42.66	-26.86	0.00	0.00	0.00
5,700.00	1.94	122.86	5,699.10	-29.39	45.49	-28.65	0.00	0.00	0.00
5,800.00	1.94	122.86	5,799.05	-31.22	48.33	-30.43	0.00	0.00	0.00
5,900.00	1.94	122.86	5,898.99	-33.06	51.17	-32.22	0.00	0.00	0.00
6,000.00	1.94	122.86	5,998.93	-34.89	54.01	-34.01	0.00	0.00	0.00
6,100.00	1.94	122.86	6,098.88	-36.72	56.84	-35.79	0.00	0.00	0.00
6,200.00	1.94	122.86	6,198.82	-38.56	59.68	-37.58	0.00	0.00	0.00
6,300.00	1.94	122.86	6,298.76	-40.39	62.52	-39.37	0.00	0.00	0.00
6,400.00	1.94	122.86	6,398.70	-42.22	65.36	-41.15	0.00	0.00	0.00
6,500.00	1.94	122.86	6,498.65	-44.06	68.19	-42.94	0.00	0.00	0.00
6,600.00	1.94	122.86	6,598.59	-45.89	71.03	-44.73	0.00	0.00	0.00
6,700.00	1.94	122.86	6,698.53	-47.72	73.87	-46.51	0.00	0.00	0.00
6,800.00	1.94	122.86	6,798.48	-49.56	76.71	-48.30	0.00	0.00	0.00
6,900.00	1.94	122.86	6,898.42	-51.39	79.54	-50.09	0.00	0.00	0.00
7,000.00	1.94	122.86	6,998.36	-53.22	82.38	-51.87	0.00	0.00	0.00
7,100.00	1.94	122.86	7,098.30	-55.05	85.22	-53.66	0.00	0.00	0.00
7,200.00	1.94	122.86	7,198.25	-56.89	88.06	-55.45	0.00	0.00	0.00
7,300.00	1.94	122.86	7,298.19	-58.72	90.89	-57.23	0.00	0.00	0.00
7,400.00	1.94	122.86	7,398.13	-60.55	93.73	-59.02	0.00	0.00	0.00
7,500.00	1.94	122.86	7,498.08	-62.39	96.57	-60.81	0.00	0.00	0.00
7,600.00	1.94	122.86	7,598.02	-64.22	99.41	-62.59	0.00	0.00	0.00
7,700.00	1.94	122.86	7,697.96	-66.05	102.24	-64.38	0.00	0.00	0.00
7,800.00	1.94	122.86	7,797.90	-67.89	105.08	-66.17	0.00	0.00	0.00
7,900.00	1.94	122.86	7,897.85	-69.72	107.92	-67.95	0.00	0.00	0.00
8,000.00	1.94	122.86	7,997.79	-71.55	110.76	-69.74	0.00	0.00	0.00
8,100.00	1.94	122.86	8,097.73	-73.39	113.60	-71.53	0.00	0.00	0.00
8,200.00	1.94	122.86	8,197.68	-75.22	116.43	-73.31	0.00	0.00	0.00
8,300.00	1.94	122.86	8,297.62	-77.05	119.27	-75.10	0.00	0.00	0.00
8,400.00	1.94	122.86	8,397.56	-78.89	122.11	-76.89	0.00	0.00	0.00
8,500.00	1.94	122.86	8,497.51	-80.72	124.95	-78.67	0.00	0.00	0.00
8,600.00	1.94	122.86	8,597.45	-82.55	127.78	-80.46	0.00	0.00	0.00
8,700.00	1.94	122.86	8,697.39	-84.39	130.62	-82.25	0.00	0.00	0.00
8,800.00	1.94	122.86	8,797.33	-86.22	133.46	-84.03	0.00	0.00	0.00
8,900.00	1.94	122.86	8,897.28	-88.05	136.30	-85.82	0.00	0.00	0.00
9,000.00	1.94	122.86	8,997.22	-89.89	139.13	-87.61	0.00	0.00	0.00
9,100.00	1.94	122.86	9,097.16	-91.72	141.97	-89.39	0.00	0.00	0.00
9,200.00	1.94	122.86	9,197.11	-93.55	144.81	-91.18	0.00	0.00	0.00
9,300.00	1.94	122.86	9,297.05	-95.38	147.65	-92.97	0.00	0.00	0.00
9,400.00	1.94	122.86	9,396.99	-97.22	150.48	-94.75	0.00	0.00	0.00
9,500.00	1.94	122.86	9,496.93	-99.05	153.32	-96.54	0.00	0.00	0.00
9,600.00	1.94	122.86	9,596.88	-100.88	156.16	-98.33	0.00	0.00	0.00
9,700.00	1.94	122.86	9,696.82	-102.72	159.00	-100.11	0.00	0.00	0.00
9,800.00	1.94	122.86	9,796.76	-104.55	161.83	-101.90	0.00	0.00	0.00
9,900.00	1.94	122.86	9,896.71	-106.38	164.67	-103.69	0.00	0.00	0.00
10,000.00	1.94	122.86	9,996.65	-108.22	167.51	-105.47	0.00	0.00	0.00
10,100.00	1.94	122.86	10,096.59	-110.05	170.35	-107.26	0.00	0.00	0.00
10,200.00	1.94	122.86	10,196.53	-111.88	173.19	-109.05	0.00	0.00	0.00
10,300.00	1.94	122.86	10,296.48	-113.72	176.02	-110.83	0.00	0.00	0.00
10,400.00	1.94	122.86	10,396.42	-115.55	178.86	-112.62	0.00	0.00	0.00
10,500.00	1.94	122.86	10,496.36	-117.38	181.70	-114.41	0.00	0.00	0.00
10,600.00	1.94	122.86	10,596.31	-119.22	184.54	-116.19	0.00	0.00	0.00



EOG Resources, Inc.
Planning Report

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Site: Dogwood 23 Fed Com
Well: #703H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #703H
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)
10,700.00	1.94	122.86	10,696.25	-121.05	187.37	-117.98	0.00	0.00	0.00
10,800.00	1.94	122.86	10,796.19	-122.88	190.21	-119.77	0.00	0.00	0.00
10,900.00	1.94	122.86	10,896.14	-124.72	193.05	-121.56	0.00	0.00	0.00
11,000.00	1.94	122.86	10,996.08	-126.55	195.89	-123.34	0.00	0.00	0.00
11,100.00	1.94	122.86	11,096.02	-128.38	198.72	-125.13	0.00	0.00	0.00
11,200.00	1.94	122.86	11,195.96	-130.22	201.56	-126.92	0.00	0.00	0.00
11,300.00	1.94	122.86	11,295.91	-132.05	204.40	-128.70	0.00	0.00	0.00
11,400.00	1.94	122.86	11,395.85	-133.88	207.24	-130.49	0.00	0.00	0.00
11,500.00	1.94	122.86	11,495.79	-135.72	210.07	-132.28	0.00	0.00	0.00
11,600.00	1.94	122.86	11,595.74	-137.55	212.91	-134.06	0.00	0.00	0.00
11,700.00	1.94	122.86	11,695.68	-139.38	215.75	-135.85	0.00	0.00	0.00
11,800.00	1.94	122.86	11,795.62	-141.21	218.59	-137.64	0.00	0.00	0.00
11,900.00	1.94	122.86	11,895.56	-143.05	221.42	-139.42	0.00	0.00	0.00
12,000.00	1.94	122.86	11,995.51	-144.88	224.26	-141.21	0.00	0.00	0.00
12,018.38	1.94	122.86	12,013.88	-145.22	224.78	-141.54	0.00	0.00	0.00
12,025.00	1.64	98.99	12,020.49	-145.29	224.97	-141.61	12.00	-4.46	-360.78
12,050.00	3.18	30.21	12,045.48	-144.75	225.67	-141.06	12.00	6.14	-275.10
12,075.00	5.96	15.31	12,070.39	-142.90	226.36	-139.20	12.00	11.12	-59.63
12,100.00	8.88	10.01	12,095.18	-139.75	227.04	-136.03	12.00	11.70	-21.19
12,125.00	11.84	7.34	12,119.77	-135.30	227.71	-131.58	12.00	11.85	-10.70
12,150.00	14.82	5.72	12,144.10	-129.58	228.35	-125.84	12.00	11.91	-6.46
12,175.00	17.80	4.64	12,168.09	-122.59	228.98	-118.84	12.00	11.94	-4.33
12,200.00	20.79	3.86	12,191.68	-114.35	229.59	-110.59	12.00	11.96	-3.12
12,225.00	23.78	3.27	12,214.81	-104.88	230.17	-101.12	12.00	11.97	-2.37
12,250.00	26.78	2.80	12,237.41	-94.22	230.74	-90.45	12.00	11.97	-1.86
12,275.00	29.77	2.42	12,259.43	-82.40	231.27	-78.62	12.00	11.98	-1.51
12,300.00	32.77	2.11	12,280.79	-69.43	231.78	-65.65	12.00	11.98	-1.26
12,325.00	35.76	1.84	12,301.45	-55.36	232.27	-51.57	12.00	11.98	-1.07
12,350.00	38.76	1.61	12,321.35	-40.24	232.72	-36.44	12.00	11.99	-0.93
12,375.00	41.76	1.40	12,340.42	-24.09	233.15	-20.29	12.00	11.99	-0.81
12,400.00	44.76	1.22	12,358.63	-6.96	233.54	-3.16	12.00	11.99	-0.72
12,425.00	47.75	1.06	12,375.91	11.09	233.90	14.90	12.00	11.99	-0.65
12,450.00	50.75	0.91	12,392.23	30.03	234.22	33.84	12.00	11.99	-0.59
12,475.00	53.75	0.78	12,407.53	49.79	234.51	53.60	12.00	11.99	-0.54
12,500.00	56.75	0.65	12,421.78	70.33	234.77	74.14	12.00	11.99	-0.50
12,525.00	59.75	0.53	12,434.94	91.58	234.99	95.40	12.00	11.99	-0.47
12,550.00	62.74	0.42	12,446.96	113.49	235.17	117.31	12.00	11.99	-0.44
12,575.00	65.74	0.32	12,457.83	136.01	235.32	139.82	12.00	11.99	-0.42
12,587.63	67.26	0.27	12,462.86	147.59	235.38	151.41	12.00	11.99	-0.40
FTP (Dogwood 23 Fed Com #703H)									
12,600.00	68.74	0.22	12,467.50	159.06	235.43	162.87	12.00	11.99	-0.39
12,625.00	71.74	0.12	12,475.95	182.58	235.50	186.39	12.00	11.99	-0.38
12,650.00	74.74	0.03	12,483.15	206.52	235.53	210.33	12.00	11.99	-0.37
12,675.00	77.74	359.94	12,489.10	230.80	235.52	234.60	12.00	11.99	-0.36
12,700.00	80.74	359.85	12,493.77	255.35	235.48	259.16	12.00	12.00	-0.35
12,725.00	83.73	359.77	12,497.15	280.12	235.40	283.92	12.00	12.00	-0.35
12,750.00	86.73	359.68	12,499.22	305.03	235.28	308.82	12.00	12.00	-0.34
12,777.23	90.00	359.59	12,500.00	332.25	235.11	336.04	12.00	12.00	-0.34
12,800.00	90.00	359.59	12,500.00	355.02	234.94	358.80	0.00	0.00	0.00
12,900.00	90.00	359.59	12,500.00	455.01	234.23	458.77	0.00	0.00	0.00
13,000.00	90.00	359.59	12,500.00	555.01	233.51	558.74	0.00	0.00	0.00
13,100.00	90.00	359.59	12,500.00	655.01	232.80	658.71	0.00	0.00	0.00
13,200.00	90.00	359.59	12,500.00	755.01	232.08	758.69	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)
13,300.00	90.00	359.59	12,500.00	855.00	231.36	858.66	0.00	0.00	0.00
13,400.00	90.00	359.59	12,500.00	955.00	230.65	958.63	0.00	0.00	0.00
13,500.00	90.00	359.59	12,500.00	1,055.00	229.93	1,058.60	0.00	0.00	0.00
13,600.00	90.00	359.59	12,500.00	1,155.00	229.22	1,158.58	0.00	0.00	0.00
13,700.00	90.00	359.59	12,500.00	1,254.99	228.50	1,258.55	0.00	0.00	0.00
13,800.00	90.00	359.59	12,500.00	1,354.99	227.79	1,358.52	0.00	0.00	0.00
13,900.00	90.00	359.59	12,500.00	1,454.99	227.07	1,458.49	0.00	0.00	0.00
14,000.00	90.00	359.59	12,500.00	1,554.99	226.36	1,558.47	0.00	0.00	0.00
14,100.00	90.00	359.59	12,500.00	1,654.98	225.64	1,658.44	0.00	0.00	0.00
14,200.00	90.00	359.59	12,500.00	1,754.98	224.92	1,758.41	0.00	0.00	0.00
14,300.00	90.00	359.59	12,500.00	1,854.98	224.21	1,858.38	0.00	0.00	0.00
14,400.00	90.00	359.59	12,500.00	1,954.98	223.49	1,958.36	0.00	0.00	0.00
14,500.00	90.00	359.59	12,500.00	2,054.97	222.78	2,058.33	0.00	0.00	0.00
14,600.00	90.00	359.59	12,500.00	2,154.97	222.06	2,158.30	0.00	0.00	0.00
14,700.00	90.00	359.59	12,500.00	2,254.97	221.35	2,258.27	0.00	0.00	0.00
14,800.00	90.00	359.59	12,500.00	2,354.97	220.63	2,358.25	0.00	0.00	0.00
14,900.00	90.00	359.59	12,500.00	2,454.96	219.92	2,458.22	0.00	0.00	0.00
15,000.00	90.00	359.59	12,500.00	2,554.96	219.20	2,558.19	0.00	0.00	0.00
15,100.00	90.00	359.59	12,500.00	2,654.96	218.48	2,658.16	0.00	0.00	0.00
15,200.00	90.00	359.59	12,500.00	2,754.96	217.77	2,758.14	0.00	0.00	0.00
15,300.00	90.00	359.59	12,500.00	2,854.95	217.05	2,858.11	0.00	0.00	0.00
15,400.00	90.00	359.59	12,500.00	2,954.95	216.34	2,958.08	0.00	0.00	0.00
15,500.00	90.00	359.59	12,500.00	3,054.95	215.62	3,058.05	0.00	0.00	0.00
15,600.00	90.00	359.59	12,500.00	3,154.95	214.91	3,158.03	0.00	0.00	0.00
15,700.00	90.00	359.59	12,500.00	3,254.94	214.19	3,258.00	0.00	0.00	0.00
15,800.00	90.00	359.59	12,500.00	3,354.94	213.47	3,357.97	0.00	0.00	0.00
15,900.00	90.00	359.59	12,500.00	3,454.94	212.76	3,457.95	0.00	0.00	0.00
16,000.00	90.00	359.59	12,500.00	3,554.94	212.04	3,557.92	0.00	0.00	0.00
16,100.00	90.00	359.59	12,500.00	3,654.93	211.33	3,657.89	0.00	0.00	0.00
16,200.00	90.00	359.59	12,500.00	3,754.93	210.61	3,757.86	0.00	0.00	0.00
16,300.00	90.00	359.59	12,500.00	3,854.93	209.90	3,857.84	0.00	0.00	0.00
16,400.00	90.00	359.59	12,500.00	3,954.93	209.18	3,957.81	0.00	0.00	0.00
16,500.00	90.00	359.59	12,500.00	4,054.92	208.47	4,057.78	0.00	0.00	0.00
16,600.00	90.00	359.59	12,500.00	4,154.92	207.75	4,157.75	0.00	0.00	0.00
16,700.00	90.00	359.59	12,500.00	4,254.92	207.03	4,257.73	0.00	0.00	0.00
16,800.00	90.00	359.59	12,500.00	4,354.91	206.32	4,357.70	0.00	0.00	0.00
16,900.00	90.00	359.59	12,500.00	4,454.91	205.60	4,457.67	0.00	0.00	0.00
17,000.00	90.00	359.59	12,500.00	4,554.91	204.89	4,557.64	0.00	0.00	0.00
17,100.00	90.00	359.59	12,500.00	4,654.91	204.17	4,657.62	0.00	0.00	0.00
17,200.00	90.00	359.59	12,500.00	4,754.90	203.46	4,757.59	0.00	0.00	0.00
17,300.00	90.00	359.59	12,500.00	4,854.90	202.74	4,857.56	0.00	0.00	0.00
17,400.00	90.00	359.59	12,500.00	4,954.90	202.03	4,957.53	0.00	0.00	0.00
17,500.00	90.00	359.59	12,500.00	5,054.90	201.31	5,057.51	0.00	0.00	0.00
17,600.00	90.00	359.59	12,500.00	5,154.89	200.59	5,157.48	0.00	0.00	0.00
17,700.00	90.00	359.59	12,500.00	5,254.89	199.88	5,257.45	0.00	0.00	0.00
17,800.00	90.00	359.59	12,500.00	5,354.89	199.16	5,357.42	0.00	0.00	0.00
17,900.00	90.00	359.59	12,500.00	5,454.89	198.45	5,457.40	0.00	0.00	0.00
18,000.00	90.00	359.59	12,500.00	5,554.88	197.73	5,557.37	0.00	0.00	0.00
18,100.00	90.00	359.59	12,500.00	5,654.88	197.02	5,657.34	0.00	0.00	0.00
18,200.00	90.00	359.59	12,500.00	5,754.88	196.30	5,757.31	0.00	0.00	0.00
18,300.00	90.00	359.59	12,500.00	5,854.88	195.59	5,857.29	0.00	0.00	0.00
18,400.00	90.00	359.59	12,500.00	5,954.87	194.87	5,957.26	0.00	0.00	0.00
18,500.00	90.00	359.59	12,500.00	6,054.87	194.15	6,057.23	0.00	0.00	0.00
18,600.00	90.00	359.59	12,500.00	6,154.87	193.44	6,157.20	0.00	0.00	0.00



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18,700.00	90.00	359.59	12,500.00	6,254.87	192.72	6,257.18	0.00	0.00	0.00
18,800.00	90.00	359.59	12,500.00	6,354.86	192.01	6,357.15	0.00	0.00	0.00
18,900.00	90.00	359.59	12,500.00	6,454.86	191.29	6,457.12	0.00	0.00	0.00
19,000.00	90.00	359.59	12,500.00	6,554.86	190.58	6,557.09	0.00	0.00	0.00
19,100.00	90.00	359.59	12,500.00	6,654.86	189.86	6,657.07	0.00	0.00	0.00
19,200.00	90.00	359.59	12,500.00	6,754.85	189.15	6,757.04	0.00	0.00	0.00
19,300.00	90.00	359.59	12,500.00	6,854.85	188.43	6,857.01	0.00	0.00	0.00
19,400.00	90.00	359.59	12,500.00	6,954.85	187.71	6,956.98	0.00	0.00	0.00
19,500.00	90.00	359.59	12,500.00	7,054.85	187.00	7,056.96	0.00	0.00	0.00
19,600.00	90.00	359.59	12,500.00	7,154.84	186.28	7,156.93	0.00	0.00	0.00
19,700.00	90.00	359.59	12,500.00	7,254.84	185.57	7,256.90	0.00	0.00	0.00
19,800.00	90.00	359.59	12,500.00	7,354.84	184.85	7,356.87	0.00	0.00	0.00
19,900.00	90.00	359.59	12,500.00	7,454.84	184.14	7,456.85	0.00	0.00	0.00
20,000.00	90.00	359.59	12,500.00	7,554.83	183.42	7,556.82	0.00	0.00	0.00
20,100.00	90.00	359.59	12,500.00	7,654.83	182.71	7,656.79	0.00	0.00	0.00
20,200.00	90.00	359.59	12,500.00	7,754.83	181.99	7,756.76	0.00	0.00	0.00
20,300.00	90.00	359.59	12,500.00	7,854.83	181.27	7,856.74	0.00	0.00	0.00
20,400.00	90.00	359.59	12,500.00	7,954.82	180.56	7,956.71	0.00	0.00	0.00
20,500.00	90.00	359.59	12,500.00	8,054.82	179.84	8,056.68	0.00	0.00	0.00
20,600.00	90.00	359.59	12,500.00	8,154.82	179.13	8,156.65	0.00	0.00	0.00
20,700.00	90.00	359.59	12,500.00	8,254.82	178.41	8,256.63	0.00	0.00	0.00
20,800.00	90.00	359.59	12,500.00	8,354.81	177.70	8,356.60	0.00	0.00	0.00
20,900.00	90.00	359.59	12,500.00	8,454.81	176.98	8,456.57	0.00	0.00	0.00
21,000.00	90.00	359.59	12,500.00	8,554.81	176.26	8,556.54	0.00	0.00	0.00
21,100.00	90.00	359.59	12,500.00	8,654.80	175.55	8,656.52	0.00	0.00	0.00
21,200.00	90.00	359.59	12,500.00	8,754.80	174.83	8,756.49	0.00	0.00	0.00
21,300.00	90.00	359.59	12,500.00	8,854.80	174.12	8,856.46	0.00	0.00	0.00
21,400.00	90.00	359.59	12,500.00	8,954.80	173.40	8,956.43	0.00	0.00	0.00
21,500.00	90.00	359.59	12,500.00	9,054.79	172.69	9,056.41	0.00	0.00	0.00
21,600.00	90.00	359.59	12,500.00	9,154.79	171.97	9,156.38	0.00	0.00	0.00
21,700.00	90.00	359.59	12,500.00	9,254.79	171.26	9,256.35	0.00	0.00	0.00
21,800.00	90.00	359.59	12,500.00	9,354.79	170.54	9,356.32	0.00	0.00	0.00
21,900.00	90.00	359.59	12,500.00	9,454.78	169.82	9,456.30	0.00	0.00	0.00
22,000.00	90.00	359.59	12,500.00	9,554.78	169.11	9,556.27	0.00	0.00	0.00
22,100.00	90.00	359.59	12,500.00	9,654.78	168.39	9,656.24	0.00	0.00	0.00
22,200.00	90.00	359.59	12,500.00	9,754.78	167.68	9,756.21	0.00	0.00	0.00
22,300.00	90.00	359.59	12,500.00	9,854.77	166.96	9,856.19	0.00	0.00	0.00
22,400.00	90.00	359.59	12,500.00	9,954.77	166.25	9,956.16	0.00	0.00	0.00
22,500.00	90.00	359.59	12,500.00	10,054.77	165.53	10,056.13	0.00	0.00	0.00
22,574.23	90.00	359.59	12,500.00	10,129.00	165.00	10,130.34	0.00	0.00	0.00

PBHL (Dogwood 23 Fed Com #703H)



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: #703H
Wellbore: OH
Design: Plan #0.1

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

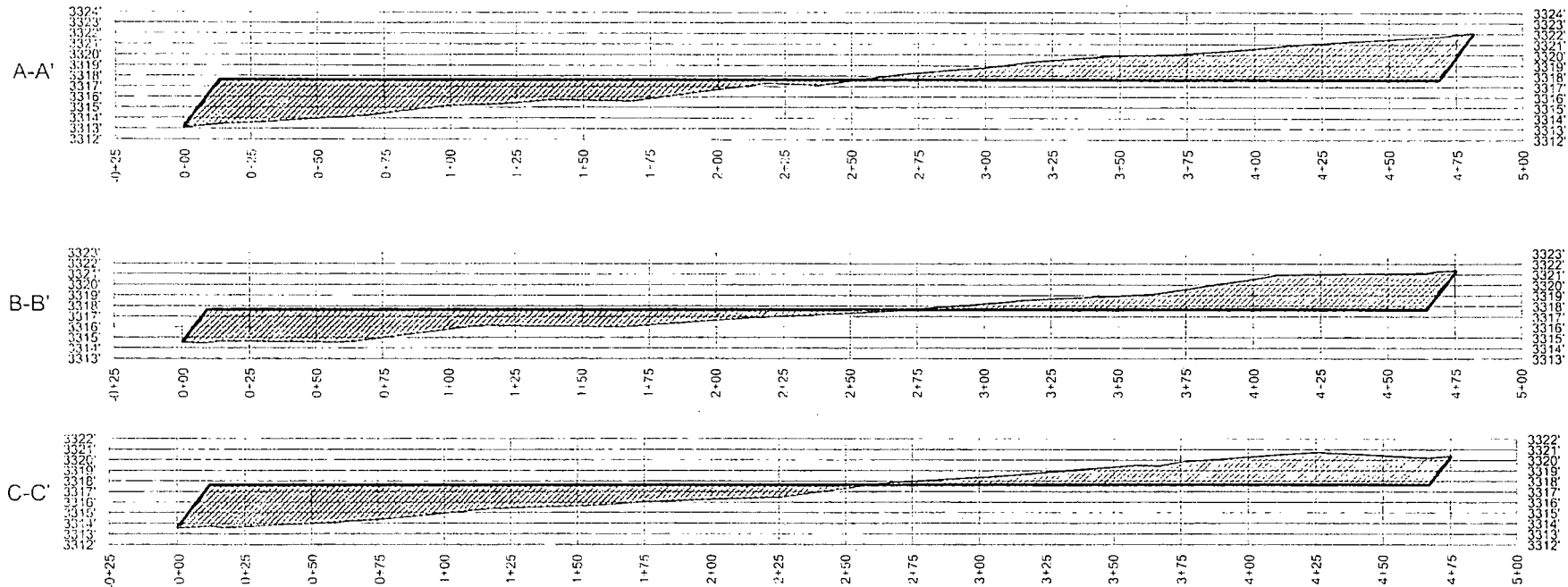
Well #703H
 KB = 25' @ 3343.00usft
 KB = 25' @ 3343.00usft
 Grid
 Minimum Curvature

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	10,129.00	165.00	382,863.00	787,450.00	32.05008140	-103.53897059
- plan hits target center									
- Point									
FTP (Dogwood 23 Fed C	0.00	0.00	12,500.00	132.00	238.00	372,866.00	787,523.00	32.02260093	-103.53897229
- plan misses target center by 40.36usft at 12587.63usft MD (12462.86 TVD, 147.59 N, 235.38 E)									
- Point									

PRELIMINARY

SECTION 24, TOWNSHIP 26-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



Horizontal Scale = 1" = 60'
Vertical Scale = 1" = 5'



1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX: (817) 744-7548
TEXAS FIRM REGISTRATION NO.: 0042604
WWW.TOPOGRAPHIC.COM

DOGWOOD 23 FED COM #703H & #704H SITE	REVISION:		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 STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927. 3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY EOG RESOURCES, INC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
	INT	DATE	
DATE: 02/01/17			
FILE: DOGWOOD23FEDCOM_703H_704H_SITE.PRD			
DRAWN BY: GJU			
SHEET: 2 OF 2			

Michael Blake Brown, P.S. No. 18329

FEBRUARY 1, 2017

Field note description of even date accompanies this plat.