



Lea County, NM (NAD 83 NME)

Gem 36 State Com #3H

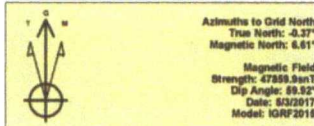
Plan #0.1

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: #3H

Ground Level: 3388.00
KB = 25' @ 3394.00usft
Northing 393697.00 Easting 760125.00
Latitude 32.08935341 Longitude -103.62691799



To convert a Magnetic Direction to a Grid Direction, Add 6.91°
To convert a Magnetic Direction to a True Direction, Add 6.98° East
To convert a True Direction to a Grid Direction, Subtract 0.30°

SECTION DETAILS

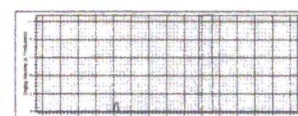
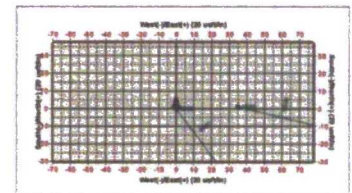
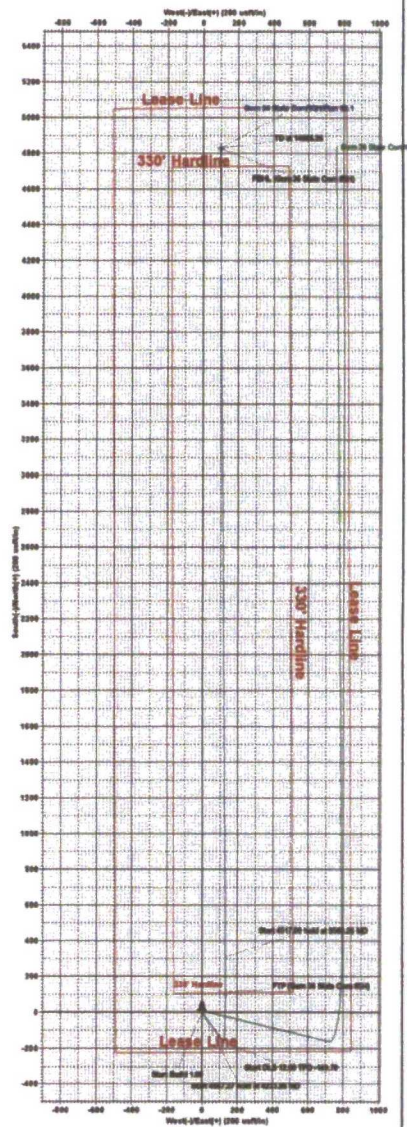
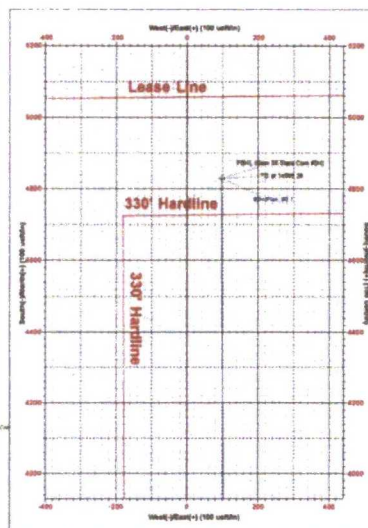
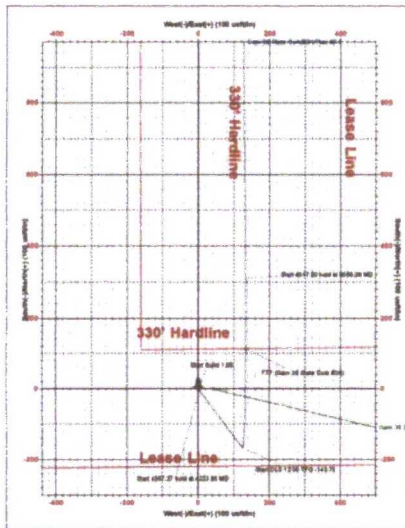
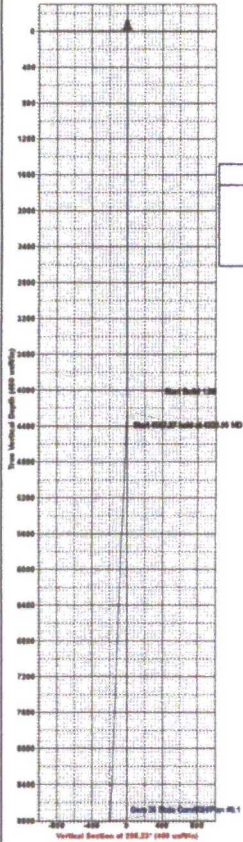
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VFace	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00		
3	4233.96	2.64	143.26	4233.97	-4.16	3.10	1.98	143.26	-4.09		
4	8891.22	2.64	143.26	8796.67	-146.10	134.01	0.00	0.00	-143.69		
6	9869.38	90.00	389.63	9291.00	311.10	123.06	12.00	-142.70	213.74		
6	14058.26	90.00	389.63	9291.00	4829.00	98.00	0.00	0.00	4829.95		PBHL (Gem 36 State Com #3H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
PBHL (Gem 36 State Com #24)	9291.00	4829.00	98.00	396925.00	760225.00
FTP (Gem 36 State Com #3H)	9291.00	111.00	134.00	393698.00	760263.00



Scale: 1 inch = 100 feet
Date: 8/3/2017
By: [Signature]



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Gem 36 State Com

#3H

OH

Plan: Plan #0.1

Standard Planning Report

03 May, 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: Gem 36 State Com
Well: #3H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference: KB = 25' @ 3394.00usft
MD Reference: KB = 25' @ 3394.00usft
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 Gem 36 State Com
Site Position: Northing: 393,698.00 usft Latitude: 32.08038562
From: Map Easting: 760,159.00 usft Longitude: -103.62682111
Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 " Grid Convergence: 0.38 "

Well #3H
Well Position +N/-S -1.00 usft Northing: 393,697.00 usft Latitude: 32.08038341
+E/-W -30.00 usft Easting: 760,129.00 usft Longitude: -103.62691799
Position Uncertainty 0.00 usft Wellhead Elevation: 0.00 usft Ground Level: 3,369.00 usft

Wellbore OH
Magnetics

Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
IGRF2015	5/3/2017	6.98	59.92	47,860

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	1.14

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	
4,233.95	2.54	143.25	4,233.87	-4.15	3.10	1.08	1.08	0.00	143.25	
8,801.22	2.54	143.25	8,796.67	-166.10	124.01	0.00	0.00	0.00	0.00	
9,568.26	90.00	359.53	9,291.00	311.15	133.05	12.00	11.40	-18.74	-143.70	
14,085.26	90.00	359.53	9,291.00	4,828.00	96.00	0.00	0.00	0.00	0.00	PBHL (Gem 36 State)



EOG Resources, Inc.

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 Well: #3H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference:
 TVD Reference: KB = 25' @ 3394.00usft
 MD Reference: KB = 25' @ 3394.00usft
 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	1.08	143.25	4,099.99	-0.76	0.57	-0.75	1.08	1.08	0.00
4,200.00	2.17	143.25	4,199.95	-3.03	2.26	-2.99	1.08	1.08	0.00
4,233.95	2.54	143.25	4,233.87	-4.15	3.10	-4.09	1.08	1.08	0.00
4,300.00	2.54	143.25	4,299.86	-6.49	4.85	-6.39	0.00	0.00	0.00
4,400.00	2.54	143.25	4,399.76	-10.04	7.49	-9.89	0.00	0.00	0.00
4,500.00	2.54	143.25	4,499.66	-13.58	10.14	-13.38	0.00	0.00	0.00
4,600.00	2.54	143.25	4,599.57	-17.13	12.79	-16.87	0.00	0.00	0.00
4,700.00	2.54	143.25	4,699.47	-20.67	15.44	-20.36	0.00	0.00	0.00
4,800.00	2.54	143.25	4,799.37	-24.22	18.08	-23.86	0.00	0.00	0.00
4,900.00	2.54	143.25	4,899.27	-27.77	20.73	-27.35	0.00	0.00	0.00
5,000.00	2.54	143.25	4,999.17	-31.31	23.38	-30.84	0.00	0.00	0.00
5,100.00	2.54	143.25	5,099.08	-34.86	26.03	-34.33	0.00	0.00	0.00
5,200.00	2.54	143.25	5,198.98	-38.40	28.67	-37.83	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: Gem 36 State Com
 Well: #3H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:
 Well #3H
 KB = 25' @ 3394.00usft
 KB = 25' @ 3394.00usft
 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	2.54	143.25	5,298.88	-41.95	31.32	-41.32	0.00	0.00	0.00
5,400.00	2.54	143.25	5,398.78	-45.50	33.97	-44.81	0.00	0.00	0.00
5,500.00	2.54	143.25	5,498.68	-49.04	36.61	-48.30	0.00	0.00	0.00
5,600.00	2.54	143.25	5,598.59	-52.59	39.26	-51.80	0.00	0.00	0.00
5,700.00	2.54	143.25	5,698.49	-56.13	41.91	-55.29	0.00	0.00	0.00
5,800.00	2.54	143.25	5,798.39	-59.68	44.56	-58.78	0.00	0.00	0.00
5,900.00	2.54	143.25	5,898.29	-63.22	47.20	-62.27	0.00	0.00	0.00
6,000.00	2.54	143.25	5,998.19	-66.77	49.85	-65.77	0.00	0.00	0.00
6,100.00	2.54	143.25	6,098.10	-70.32	52.50	-69.26	0.00	0.00	0.00
6,200.00	2.54	143.25	6,198.00	-73.86	55.15	-72.75	0.00	0.00	0.00
6,300.00	2.54	143.25	6,297.90	-77.41	57.79	-76.24	0.00	0.00	0.00
6,400.00	2.54	143.25	6,397.80	-80.95	60.44	-79.74	0.00	0.00	0.00
6,500.00	2.54	143.25	6,497.70	-84.50	63.09	-83.23	0.00	0.00	0.00
6,600.00	2.54	143.25	6,597.61	-88.05	65.74	-86.72	0.00	0.00	0.00
6,700.00	2.54	143.25	6,697.51	-91.59	68.38	-90.21	0.00	0.00	0.00
6,800.00	2.54	143.25	6,797.41	-95.14	71.03	-93.71	0.00	0.00	0.00
6,900.00	2.54	143.25	6,897.31	-98.68	73.68	-97.20	0.00	0.00	0.00
7,000.00	2.54	143.25	6,997.21	-102.23	76.33	-100.69	0.00	0.00	0.00
7,100.00	2.54	143.25	7,097.12	-105.78	78.97	-104.18	0.00	0.00	0.00
7,200.00	2.54	143.25	7,197.02	-109.32	81.62	-107.68	0.00	0.00	0.00
7,300.00	2.54	143.25	7,296.92	-112.87	84.27	-111.17	0.00	0.00	0.00
7,400.00	2.54	143.25	7,396.82	-116.41	86.92	-114.66	0.00	0.00	0.00
7,500.00	2.54	143.25	7,496.72	-119.96	89.56	-118.15	0.00	0.00	0.00
7,600.00	2.54	143.25	7,596.63	-123.51	92.21	-121.65	0.00	0.00	0.00
7,700.00	2.54	143.25	7,696.53	-127.05	94.86	-125.14	0.00	0.00	0.00
7,800.00	2.54	143.25	7,796.43	-130.60	97.51	-128.63	0.00	0.00	0.00
7,900.00	2.54	143.25	7,896.33	-134.14	100.15	-132.13	0.00	0.00	0.00
8,000.00	2.54	143.25	7,996.23	-137.69	102.80	-135.62	0.00	0.00	0.00
8,100.00	2.54	143.25	8,096.14	-141.23	105.45	-139.11	0.00	0.00	0.00
8,200.00	2.54	143.25	8,196.04	-144.78	108.10	-142.60	0.00	0.00	0.00
8,300.00	2.54	143.25	8,295.94	-148.33	110.74	-146.10	0.00	0.00	0.00
8,400.00	2.54	143.25	8,395.84	-151.87	113.39	-149.59	0.00	0.00	0.00
8,500.00	2.54	143.25	8,495.74	-155.42	116.04	-153.08	0.00	0.00	0.00
8,600.00	2.54	143.25	8,595.65	-158.96	118.68	-156.57	0.00	0.00	0.00
8,700.00	2.54	143.25	8,695.55	-162.51	121.33	-160.07	0.00	0.00	0.00
8,801.22	2.54	143.25	8,796.67	-166.10	124.01	-163.60	0.00	0.00	0.00
8,825.00	1.71	61.21	8,820.44	-166.35	124.64	-163.84	12.00	-3.49	-345.05
8,850.00	4.09	21.01	8,845.41	-165.34	125.28	-162.81	12.00	9.55	-160.79
8,875.00	6.97	11.91	8,870.29	-163.02	125.92	-160.48	12.00	11.51	-36.42
8,900.00	9.92	8.15	8,895.01	-159.40	126.53	-158.86	12.00	11.80	-15.04
8,925.00	12.90	6.10	8,919.52	-154.50	127.14	-151.94	12.00	11.89	-8.17
8,950.00	15.88	4.82	8,943.73	-148.31	127.72	-145.74	12.00	11.93	-5.15
8,975.00	18.87	3.93	8,967.59	-140.87	128.28	-138.29	12.00	11.95	-3.55
9,000.00	21.86	3.28	8,991.02	-132.19	128.83	-129.60	12.00	11.97	-2.61
9,025.00	24.85	2.77	9,013.97	-122.29	129.35	-119.70	12.00	11.97	-2.01
9,050.00	27.85	2.37	9,036.37	-111.21	129.84	-108.61	12.00	11.98	-1.60
9,075.00	30.84	2.05	9,058.16	-98.97	130.31	-96.36	12.00	11.98	-1.31
9,100.00	33.84	1.77	9,079.28	-85.60	130.76	-82.99	12.00	11.99	-1.10
9,125.00	36.84	1.54	9,099.67	-71.15	131.17	-68.53	12.00	11.99	-0.94
9,150.00	39.83	1.33	9,119.28	-55.65	131.56	-53.03	12.00	11.99	-0.82
9,175.00	42.83	1.15	9,138.05	-39.15	131.92	-36.52	12.00	11.99	-0.72
9,200.00	45.83	0.99	9,155.93	-21.68	132.24	-19.05	12.00	11.99	-0.64
9,225.00	48.83	0.84	9,172.88	-3.31	132.54	-0.67	12.00	11.99	-0.58
9,250.00	51.82	0.71	9,188.84	15.93	132.80	18.57	12.00	11.99	-0.53



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Wellbore: OH
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Well #3H
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KB = 25' @ 3394.00usft
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)
9,275.00	54.82	0.59	9,203.77	35.98	133.02	38.61	12.00	11.99	-0.49
9,300.00	57.82	0.47	9,217.63	56.78	133.22	59.42	12.00	11.99	-0.45
9,325.00	60.82	0.37	9,230.38	78.28	133.37	80.91	12.00	11.99	-0.43
9,350.00	63.82	0.27	9,241.99	100.41	133.50	103.05	12.00	11.99	-0.40
9,375.00	66.82	0.17	9,252.43	123.12	133.58	125.76	12.00	12.00	-0.38
9,377.98	67.18	0.16	9,253.60	125.87	133.59	128.50	12.00	12.00	-0.37
FTP (Gem 36 State Com #3H)									
9,400.00	69.82	0.08	9,261.67	146.35	133.64	148.98	12.00	12.00	-0.36
9,425.00	72.82	359.99	9,269.68	170.03	133.65	172.66	12.00	12.00	-0.35
9,450.00	75.81	359.91	9,276.43	194.10	133.63	196.72	12.00	12.00	-0.34
9,475.00	78.81	359.83	9,281.92	218.49	133.58	221.10	12.00	12.00	-0.33
9,500.00	81.81	359.75	9,286.13	243.13	133.48	245.73	12.00	12.00	-0.32
9,525.00	84.81	359.67	9,289.04	267.95	133.36	270.55	12.00	12.00	-0.32
9,550.00	87.81	359.59	9,290.65	292.90	133.19	295.49	12.00	12.00	-0.32
9,568.26	90.00	359.53	9,291.00	311.15	133.05	313.74	12.00	12.00	-0.31
9,600.00	90.00	359.53	9,291.00	342.89	132.79	345.46	0.00	0.00	0.00
9,700.00	90.00	359.53	9,291.00	442.89	131.97	445.42	0.00	0.00	0.00
9,800.00	90.00	359.53	9,291.00	542.89	131.15	545.39	0.00	0.00	0.00
9,900.00	90.00	359.53	9,291.00	642.88	130.33	645.35	0.00	0.00	0.00
10,000.00	90.00	359.53	9,291.00	742.88	129.51	745.31	0.00	0.00	0.00
10,100.00	90.00	359.53	9,291.00	842.88	128.69	845.27	0.00	0.00	0.00
10,200.00	90.00	359.53	9,291.00	942.87	127.87	945.23	0.00	0.00	0.00
10,300.00	90.00	359.53	9,291.00	1,042.87	127.05	1,045.19	0.00	0.00	0.00
10,400.00	90.00	359.53	9,291.00	1,142.87	126.23	1,145.15	0.00	0.00	0.00
10,500.00	90.00	359.53	9,291.00	1,242.86	125.41	1,245.11	0.00	0.00	0.00
10,600.00	90.00	359.53	9,291.00	1,342.86	124.59	1,345.07	0.00	0.00	0.00
10,700.00	90.00	359.53	9,291.00	1,442.85	123.77	1,445.03	0.00	0.00	0.00
10,800.00	90.00	359.53	9,291.00	1,542.85	122.95	1,544.99	0.00	0.00	0.00
10,900.00	90.00	359.53	9,291.00	1,642.85	122.13	1,644.95	0.00	0.00	0.00
11,000.00	90.00	359.53	9,291.00	1,742.84	121.31	1,744.91	0.00	0.00	0.00
11,100.00	90.00	359.53	9,291.00	1,842.84	120.49	1,844.87	0.00	0.00	0.00
11,200.00	90.00	359.53	9,291.00	1,942.84	119.67	1,944.83	0.00	0.00	0.00
11,300.00	90.00	359.53	9,291.00	2,042.83	118.85	2,044.79	0.00	0.00	0.00
11,400.00	90.00	359.53	9,291.00	2,142.83	118.03	2,144.75	0.00	0.00	0.00
11,500.00	90.00	359.53	9,291.00	2,242.83	117.21	2,244.71	0.00	0.00	0.00
11,600.00	90.00	359.53	9,291.00	2,342.82	116.39	2,344.68	0.00	0.00	0.00
11,700.00	90.00	359.53	9,291.00	2,442.82	115.57	2,444.64	0.00	0.00	0.00
11,800.00	90.00	359.53	9,291.00	2,542.82	114.75	2,544.60	0.00	0.00	0.00
11,900.00	90.00	359.53	9,291.00	2,642.81	113.93	2,644.56	0.00	0.00	0.00
12,000.00	90.00	359.53	9,291.00	2,742.81	113.11	2,744.52	0.00	0.00	0.00
12,100.00	90.00	359.53	9,291.00	2,842.81	112.28	2,844.48	0.00	0.00	0.00
12,200.00	90.00	359.53	9,291.00	2,942.80	111.46	2,944.44	0.00	0.00	0.00
12,300.00	90.00	359.53	9,291.00	3,042.80	110.64	3,044.40	0.00	0.00	0.00
12,400.00	90.00	359.53	9,291.00	3,142.80	109.82	3,144.36	0.00	0.00	0.00
12,500.00	90.00	359.53	9,291.00	3,242.79	109.00	3,244.32	0.00	0.00	0.00
12,600.00	90.00	359.53	9,291.00	3,342.79	108.18	3,344.28	0.00	0.00	0.00
12,700.00	90.00	359.53	9,291.00	3,442.79	107.36	3,444.24	0.00	0.00	0.00
12,800.00	90.00	359.53	9,291.00	3,542.78	106.54	3,544.20	0.00	0.00	0.00
12,900.00	90.00	359.53	9,291.00	3,642.78	105.72	3,644.16	0.00	0.00	0.00
13,000.00	90.00	359.53	9,291.00	3,742.78	104.90	3,744.12	0.00	0.00	0.00
13,100.00	90.00	359.53	9,291.00	3,842.77	104.08	3,844.08	0.00	0.00	0.00
13,200.00	90.00	359.53	9,291.00	3,942.77	103.26	3,944.04	0.00	0.00	0.00
13,300.00	90.00	359.53	9,291.00	4,042.77	102.44	4,044.01	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: Gem 36 State Com
Well: #3H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference: KB = 25' @ 3394.00usft
MD Reference: KB = 25' @ 3394.00usft
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	359.53	9,291.00	4,142.76	101.62	4,143.97	0.00	0.00	0.00
13,500.00	90.00	359.53	9,291.00	4,242.76	100.80	4,243.93	0.00	0.00	0.00
13,600.00	90.00	359.53	9,291.00	4,342.76	99.98	4,343.89	0.00	0.00	0.00
13,700.00	90.00	359.53	9,291.00	4,442.75	99.16	4,443.85	0.00	0.00	0.00
13,800.00	90.00	359.53	9,291.00	4,542.75	98.34	4,543.81	0.00	0.00	0.00
13,900.00	90.00	359.53	9,291.00	4,642.75	97.52	4,643.77	0.00	0.00	0.00
14,000.00	90.00	359.53	9,291.00	4,742.74	96.70	4,743.73	0.00	0.00	0.00
14,085.26	90.00	359.53	9,291.00	4,828.00	96.00	4,828.95	0.00	0.00	0.00

PBHL (Gem 36 State Com #3H)

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (Gem 36 State Cc - plan hits target center - Point	0.00	0.00	9,291.00	4,828.00	96.00	398,525.00	760,225.00	32.09365267	-103.62650590
FTP (Gem 36 State Cor - plan misses target center by 40.25usft at 9377.98usft MD (9253.60 TVD, 125.87 N, 133.59 E) - Point	0.00	0.00	9,291.00	111.00	134.00	393,808.00	760,263.00	32.08068611	-103.62648302