



Lea County, NM (NAD 83 NME)

Ares 4 State #502H

Plan #0.1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GR8 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #502H

Ground Level: 3579.00
KB = 25' @ 3604.00sft
Northing 452444.00 Easting 778125.00 Latitude 32.54158340 Longitude -103.8735706

SECTION DETAILS

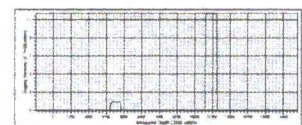
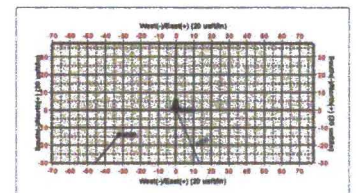
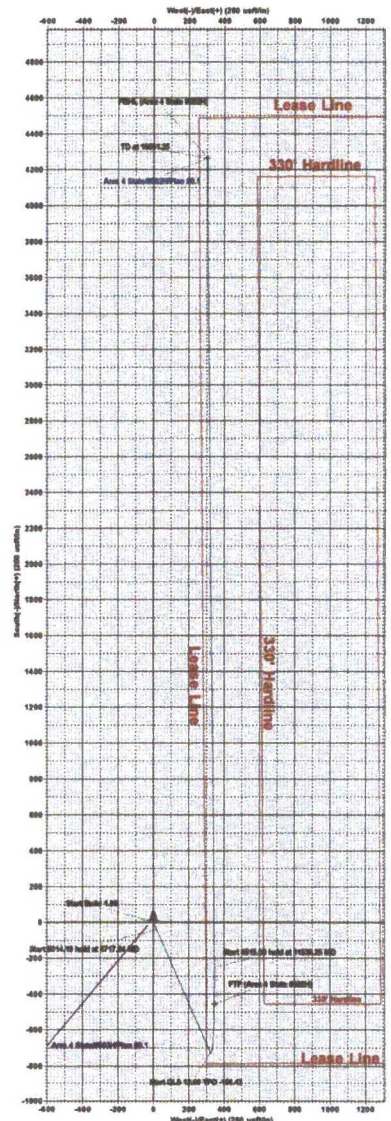
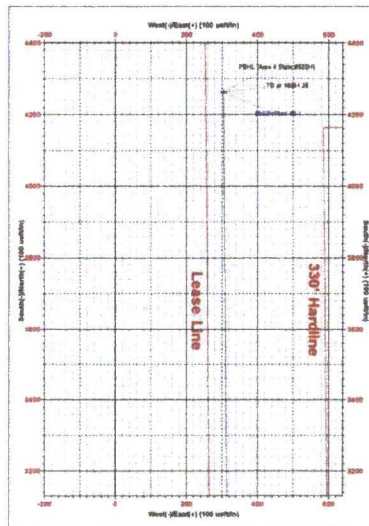
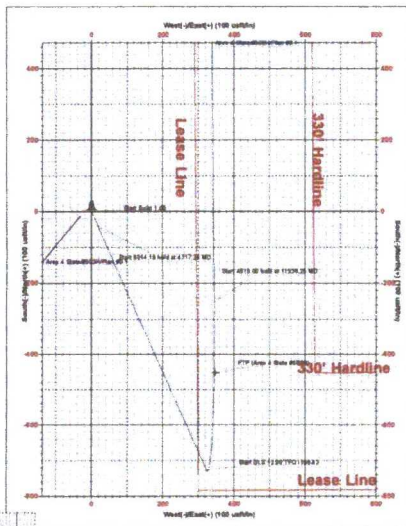
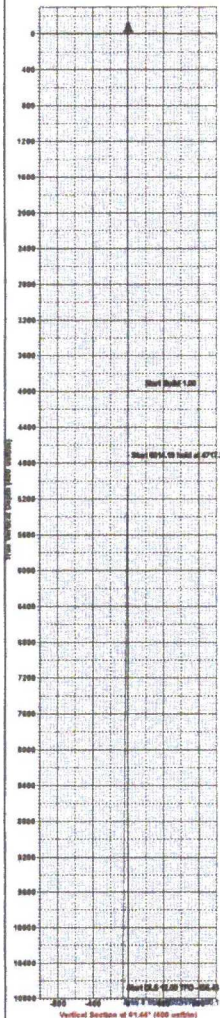
Sec	MD	Inc	Az	TVD	+N-S	+E-W	Deg	TFace	VFace	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00		
3	4717.34	7.17	106.07	4716.36	-40.90	10.18	1.00	106.07	-39.00		
4	10771.42	7.17	106.07	10662.69	-727.36	322.71	0.00	0.00	-732.96		
5	11536.35	80.00	309.48	11214.00	-352.81	344.80	12.00	-106.43	-227.83		
6	10061.25	90.00	288.48	11214.00	4262.00	304.00	0.00	0.00	4272.32		PSHL (Ares 4 State #502H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
PSHL (Ares 4 State #502H)	11214.00	4262.00	304.00	458708.00	778428.00
FTP (Ares 4 State #502H)	11214.00	-406.00	347.00	451888.00	779472.00



Vertical Section at 4.68° (200 wft/in)



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Ares 4 State

#502H

OH

Plan: Plan #0.1

Standard Planning Report

20 April, 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: Ares 4 State
Well: #502H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference: KB = 25' @ 3604.00usft
MD Reference: KB = 25' @ 3604.00usft
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: Ares 4 State

Site Position: Northing: 451,993.00 usft Latitude: 32.24029765
From: Map Easting: 777,413.00 usft Longitude: -103.56978184
Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 " Grid Convergence: 0.41 "

Well: #502H

Well Position: +N/-S 451.00 usft Northing: 452,444.00 usft Latitude: 32.24156239
+E/-W -1,288.00 usft Easting: 776,125.00 usft Longitude: -103.57393705
Position Uncertainty: 0.00 usft Wellhead Elevation: 0.00 usft Ground Level: 3,579.00 usft

Wellbore: OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/20/2017	6.97	60.08	47,964

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	4.08

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	
4,717.24	7.17	156.07	4,715.36	-40.98	18.18	1.00	1.00	0.00	156.07	
10,731.42	7.17	156.07	10,682.49	-727.36	322.71	0.00	0.00	0.00	0.00	
11,536.25	90.00	359.48	11,214.00	-252.81	344.98	12.00	10.29	-19.46	-156.43	
16,051.25	90.00	359.48	11,214.00	4,262.00	304.00	0.00	0.00	0.00	0.00	PBHL (Ares 4 State #



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 Well: #502H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference:
 TVD Reference: KB = 25' @ 3604.00usft
 MD Reference: KB = 25' @ 3604.00usft
 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	156.07	4,100.00	-0.80	0.35	-0.77	1.00	1.00	0.00
4,200.00	2.00	156.07	4,199.96	-3.19	1.42	-3.08	1.00	1.00	0.00
4,300.00	3.00	156.07	4,299.86	-7.18	3.18	-6.93	1.00	1.00	0.00
4,400.00	4.00	156.07	4,399.68	-12.76	5.66	-12.32	1.00	1.00	0.00
4,500.00	5.00	156.07	4,499.37	-19.93	8.84	-19.25	1.00	1.00	0.00
4,600.00	6.00	156.07	4,598.90	-28.69	12.73	-27.71	1.00	1.00	0.00
4,700.00	7.00	156.07	4,698.28	-39.04	17.32	-37.71	1.00	1.00	0.00
4,717.24	7.17	156.07	4,715.36	-40.98	18.18	-39.58	1.00	1.00	0.00
4,800.00	7.17	156.07	4,797.48	-50.43	22.37	-48.71	0.00	0.00	0.00
4,900.00	7.17	156.07	4,896.70	-61.84	27.44	-59.73	0.00	0.00	0.00
5,000.00	7.17	156.07	4,995.92	-73.25	32.50	-70.75	0.00	0.00	0.00
5,100.00	7.17	156.07	5,095.13	-84.66	37.56	-81.78	0.00	0.00	0.00
5,200.00	7.17	156.07	5,194.35	-96.08	42.63	-92.80	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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 Site: Ares 4 State
 Well: #502H
 Wellbore: OH
 Design: Plan #0.1

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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)
5,300.00	7.17	156.07	5,293.57	-107.49	47.69	-103.82	0.00	0.00	0.00
5,400.00	7.17	156.07	5,392.79	-118.90	52.75	-114.85	0.00	0.00	0.00
5,500.00	7.17	156.07	5,492.00	-130.31	57.82	-125.87	0.00	0.00	0.00
5,600.00	7.17	156.07	5,591.22	-141.73	62.88	-136.89	0.00	0.00	0.00
5,700.00	7.17	156.07	5,690.44	-153.14	67.95	-147.92	0.00	0.00	0.00
5,800.00	7.17	156.07	5,789.66	-164.55	73.01	-158.94	0.00	0.00	0.00
5,900.00	7.17	156.07	5,888.87	-175.97	78.07	-169.96	0.00	0.00	0.00
6,000.00	7.17	156.07	5,988.09	-187.38	83.14	-180.99	0.00	0.00	0.00
6,100.00	7.17	156.07	6,087.31	-198.79	88.20	-192.01	0.00	0.00	0.00
6,200.00	7.17	156.07	6,186.53	-210.20	93.26	-203.03	0.00	0.00	0.00
6,300.00	7.17	156.07	6,285.74	-221.62	98.33	-214.06	0.00	0.00	0.00
6,400.00	7.17	156.07	6,384.96	-233.03	103.39	-225.08	0.00	0.00	0.00
6,500.00	7.17	156.07	6,484.18	-244.44	108.45	-236.11	0.00	0.00	0.00
6,600.00	7.17	156.07	6,583.40	-255.85	113.52	-247.13	0.00	0.00	0.00
6,700.00	7.17	156.07	6,682.61	-267.27	118.58	-258.15	0.00	0.00	0.00
6,800.00	7.17	156.07	6,781.83	-278.68	123.64	-269.18	0.00	0.00	0.00
6,900.00	7.17	156.07	6,881.05	-290.09	128.71	-280.20	0.00	0.00	0.00
7,000.00	7.17	156.07	6,980.27	-301.50	133.77	-291.22	0.00	0.00	0.00
7,100.00	7.17	156.07	7,079.48	-312.92	138.83	-302.25	0.00	0.00	0.00
7,200.00	7.17	156.07	7,178.70	-324.33	143.90	-313.27	0.00	0.00	0.00
7,300.00	7.17	156.07	7,277.92	-335.74	148.96	-324.29	0.00	0.00	0.00
7,400.00	7.17	156.07	7,377.14	-347.15	154.03	-335.32	0.00	0.00	0.00
7,500.00	7.17	156.07	7,476.35	-358.57	159.09	-346.34	0.00	0.00	0.00
7,600.00	7.17	156.07	7,575.57	-369.98	164.15	-357.36	0.00	0.00	0.00
7,700.00	7.17	156.07	7,674.79	-381.39	169.22	-368.39	0.00	0.00	0.00
7,800.00	7.17	156.07	7,774.01	-392.80	174.28	-379.41	0.00	0.00	0.00
7,900.00	7.17	156.07	7,873.22	-404.22	179.34	-390.43	0.00	0.00	0.00
8,000.00	7.17	156.07	7,972.44	-415.63	184.41	-401.46	0.00	0.00	0.00
8,100.00	7.17	156.07	8,071.66	-427.04	189.47	-412.48	0.00	0.00	0.00
8,200.00	7.17	156.07	8,170.88	-438.45	194.53	-423.50	0.00	0.00	0.00
8,300.00	7.17	156.07	8,270.09	-449.87	199.60	-434.53	0.00	0.00	0.00
8,400.00	7.17	156.07	8,369.31	-461.28	204.66	-445.55	0.00	0.00	0.00
8,500.00	7.17	156.07	8,468.53	-472.69	209.72	-456.57	0.00	0.00	0.00
8,600.00	7.17	156.07	8,567.75	-484.11	214.79	-467.60	0.00	0.00	0.00
8,700.00	7.17	156.07	8,666.96	-495.52	219.85	-478.62	0.00	0.00	0.00
8,800.00	7.17	156.07	8,766.18	-506.93	224.91	-489.64	0.00	0.00	0.00
8,900.00	7.17	156.07	8,865.40	-518.34	229.98	-500.67	0.00	0.00	0.00
9,000.00	7.17	156.07	8,964.62	-529.76	235.04	-511.69	0.00	0.00	0.00
9,100.00	7.17	156.07	9,063.83	-541.17	240.11	-522.71	0.00	0.00	0.00
9,200.00	7.17	156.07	9,163.05	-552.58	245.17	-533.74	0.00	0.00	0.00
9,300.00	7.17	156.07	9,262.27	-563.99	250.23	-544.76	0.00	0.00	0.00
9,400.00	7.17	156.07	9,361.49	-575.41	255.30	-555.78	0.00	0.00	0.00
9,500.00	7.17	156.07	9,460.70	-586.82	260.36	-566.81	0.00	0.00	0.00
9,600.00	7.17	156.07	9,559.92	-598.23	265.42	-577.83	0.00	0.00	0.00
9,700.00	7.17	156.07	9,659.14	-609.64	270.49	-588.85	0.00	0.00	0.00
9,800.00	7.17	156.07	9,758.36	-621.06	275.55	-599.88	0.00	0.00	0.00
9,900.00	7.17	156.07	9,857.57	-632.47	280.61	-610.90	0.00	0.00	0.00
10,000.00	7.17	156.07	9,956.79	-643.88	285.68	-621.92	0.00	0.00	0.00
10,100.00	7.17	156.07	10,056.01	-655.29	290.74	-632.95	0.00	0.00	0.00
10,200.00	7.17	156.07	10,155.23	-666.71	295.80	-643.97	0.00	0.00	0.00
10,300.00	7.17	156.07	10,254.44	-678.12	300.87	-654.99	0.00	0.00	0.00
10,400.00	7.17	156.07	10,353.66	-689.53	305.93	-666.02	0.00	0.00	0.00
10,500.00	7.17	156.07	10,452.88	-700.94	310.99	-677.04	0.00	0.00	0.00
10,600.00	7.17	156.07	10,552.10	-712.36	316.06	-688.07	0.00	0.00	0.00



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Wellbore: OH
Design: Plan #0.1

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

Well #502H
KB = 25' @ 3604.00usft
KB = 25' @ 3604.00usft
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)
10,700.00	7.17	156.07	10,651.31	-723.77	321.12	-699.09	0.00	0.00	0.00
10,731.42	7.17	156.07	10,682.49	-727.36	322.71	-702.55	0.00	0.00	0.00
10,750.00	5.21	146.20	10,700.96	-729.12	323.65	-704.24	12.00	-10.59	-53.14
10,775.00	3.16	114.75	10,725.89	-730.35	324.91	-705.38	12.00	-8.17	-125.80
10,800.00	3.30	59.50	10,750.86	-730.27	326.16	-705.22	12.00	0.56	-221.01
10,825.00	5.46	31.02	10,775.79	-728.89	327.39	-703.75	12.00	8.62	-113.90
10,850.00	8.16	19.87	10,800.61	-726.20	328.61	-700.98	12.00	10.83	-44.61
10,875.00	11.02	14.35	10,825.26	-722.21	329.80	-696.92	12.00	11.43	-22.09
10,900.00	13.94	11.10	10,849.67	-716.94	330.98	-691.57	12.00	11.67	-13.01
10,925.00	16.89	8.96	10,873.76	-710.40	332.12	-684.97	12.00	11.78	-8.56
10,950.00	19.85	7.44	10,897.49	-702.60	333.24	-677.11	12.00	11.85	-6.07
10,975.00	22.82	6.30	10,920.77	-693.57	334.32	-668.03	12.00	11.89	-4.55
11,000.00	25.80	5.42	10,943.55	-683.33	335.36	-657.74	12.00	11.91	-3.55
11,025.00	28.78	4.70	10,965.77	-671.92	336.37	-646.28	12.00	11.93	-2.86
11,050.00	31.77	4.11	10,987.36	-659.35	337.34	-633.68	12.00	11.94	-2.36
11,075.00	34.75	3.61	11,008.26	-645.67	338.26	-619.97	12.00	11.95	-2.00
11,100.00	37.74	3.18	11,028.42	-630.92	339.13	-605.19	12.00	11.96	-1.72
11,125.00	40.73	2.81	11,047.78	-615.13	339.96	-589.38	12.00	11.96	-1.50
11,150.00	43.72	2.48	11,066.29	-598.35	340.73	-572.59	12.00	11.97	-1.33
11,175.00	46.72	2.18	11,083.90	-580.62	341.45	-554.85	12.00	11.97	-1.19
11,200.00	49.71	1.91	11,100.55	-561.99	342.11	-536.23	12.00	11.97	-1.08
11,225.00	52.70	1.66	11,116.21	-542.52	342.72	-516.76	12.00	11.98	-0.99
11,250.00	55.70	1.43	11,130.84	-522.25	343.26	-496.50	12.00	11.98	-0.91
11,275.00	58.69	1.22	11,144.38	-501.24	343.75	-475.52	12.00	11.98	-0.85
11,300.00	61.69	1.02	11,156.81	-479.56	344.18	-453.86	12.00	11.98	-0.80
11,325.00	64.68	0.83	11,168.08	-457.25	344.54	-431.58	12.00	11.98	-0.75
11,350.00	67.68	0.66	11,178.18	-434.39	344.83	-408.75	12.00	11.98	-0.72
11,375.00	70.67	0.48	11,187.06	-411.02	345.07	-385.43	12.00	11.98	-0.69
11,400.00	73.67	0.32	11,194.72	-387.23	345.23	-361.68	12.00	11.98	-0.66
11,425.00	76.67	0.16	11,201.11	-363.06	345.33	-337.57	12.00	11.98	-0.64
11,450.00	79.66	0.00	11,206.24	-338.60	345.37	-313.17	12.00	11.98	-0.63
11,475.00	82.66	359.85	11,210.08	-313.90	345.33	-288.53	12.00	11.98	-0.61
11,500.00	85.66	359.70	11,212.63	-289.03	345.24	-263.74	12.00	11.98	-0.61
11,525.00	88.65	359.55	11,213.87	-264.06	345.07	-238.84	12.00	11.98	-0.60
11,536.25	90.00	359.48	11,214.00	-252.81	344.98	-227.63	12.00	11.99	-0.60
11,600.00	90.00	359.48	11,214.00	-189.07	344.40	-164.09	0.00	0.00	0.00
11,700.00	90.00	359.48	11,214.00	-89.07	343.49	-64.41	0.00	0.00	0.00
11,800.00	90.00	359.48	11,214.00	10.92	342.58	35.27	0.00	0.00	0.00
11,900.00	90.00	359.48	11,214.00	110.92	341.68	134.95	0.00	0.00	0.00
12,000.00	90.00	359.48	11,214.00	210.92	340.77	234.63	0.00	0.00	0.00
12,100.00	90.00	359.48	11,214.00	310.91	339.86	334.30	0.00	0.00	0.00
12,200.00	90.00	359.48	11,214.00	410.91	338.95	433.98	0.00	0.00	0.00
12,300.00	90.00	359.48	11,214.00	510.90	338.04	533.66	0.00	0.00	0.00
12,400.00	90.00	359.48	11,214.00	610.90	337.14	633.34	0.00	0.00	0.00
12,500.00	90.00	359.48	11,214.00	710.89	336.23	733.01	0.00	0.00	0.00
12,600.00	90.00	359.48	11,214.00	810.89	335.32	832.69	0.00	0.00	0.00
12,700.00	90.00	359.48	11,214.00	910.89	334.41	932.37	0.00	0.00	0.00
12,800.00	90.00	359.48	11,214.00	1,010.88	333.51	1,032.05	0.00	0.00	0.00
12,900.00	90.00	359.48	11,214.00	1,110.88	332.60	1,131.73	0.00	0.00	0.00
13,000.00	90.00	359.48	11,214.00	1,210.87	331.69	1,231.40	0.00	0.00	0.00
13,100.00	90.00	359.48	11,214.00	1,310.87	330.78	1,331.08	0.00	0.00	0.00
13,200.00	90.00	359.48	11,214.00	1,410.87	329.88	1,430.76	0.00	0.00	0.00
13,300.00	90.00	359.48	11,214.00	1,510.86	328.97	1,530.44	0.00	0.00	0.00
13,400.00	90.00	359.48	11,214.00	1,610.86	328.06	1,630.12	0.00	0.00	0.00



EOG Resources, Inc.
Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #502H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3604.00usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3604.00usft
Site:	Ares 4 State	North Reference:	Grid
Well:	#502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)
13,500.00	90.00	359.48	11,214.00	1,710.85	327.15	1,729.79	0.00	0.00	0.00
13,600.00	90.00	359.48	11,214.00	1,810.85	326.25	1,829.47	0.00	0.00	0.00
13,700.00	90.00	359.48	11,214.00	1,910.85	325.34	1,929.15	0.00	0.00	0.00
13,800.00	90.00	359.48	11,214.00	2,010.84	324.43	2,028.83	0.00	0.00	0.00
13,900.00	90.00	359.48	11,214.00	2,110.84	323.52	2,128.51	0.00	0.00	0.00
14,000.00	90.00	359.48	11,214.00	2,210.83	322.62	2,228.18	0.00	0.00	0.00
14,100.00	90.00	359.48	11,214.00	2,310.83	321.71	2,327.86	0.00	0.00	0.00
14,200.00	90.00	359.48	11,214.00	2,410.82	320.80	2,427.54	0.00	0.00	0.00
14,300.00	90.00	359.48	11,214.00	2,510.82	319.89	2,527.22	0.00	0.00	0.00
14,400.00	90.00	359.48	11,214.00	2,610.82	318.99	2,626.89	0.00	0.00	0.00
14,500.00	90.00	359.48	11,214.00	2,710.81	318.08	2,726.57	0.00	0.00	0.00
14,600.00	90.00	359.48	11,214.00	2,810.81	317.17	2,826.25	0.00	0.00	0.00
14,700.00	90.00	359.48	11,214.00	2,910.80	316.26	2,925.93	0.00	0.00	0.00
14,800.00	90.00	359.48	11,214.00	3,010.80	315.36	3,025.61	0.00	0.00	0.00
14,900.00	90.00	359.48	11,214.00	3,110.80	314.45	3,125.28	0.00	0.00	0.00
15,000.00	90.00	359.48	11,214.00	3,210.79	313.54	3,224.96	0.00	0.00	0.00
15,100.00	90.00	359.48	11,214.00	3,310.79	312.63	3,324.64	0.00	0.00	0.00
15,200.00	90.00	359.48	11,214.00	3,410.78	311.73	3,424.32	0.00	0.00	0.00
15,300.00	90.00	359.48	11,214.00	3,510.78	310.82	3,524.00	0.00	0.00	0.00
15,400.00	90.00	359.48	11,214.00	3,610.78	309.91	3,623.67	0.00	0.00	0.00
15,500.00	90.00	359.48	11,214.00	3,710.77	309.00	3,723.35	0.00	0.00	0.00
15,600.00	90.00	359.48	11,214.00	3,810.77	308.10	3,823.03	0.00	0.00	0.00
15,700.00	90.00	359.48	11,214.00	3,910.76	307.19	3,922.71	0.00	0.00	0.00
15,800.00	90.00	359.48	11,214.00	4,010.76	306.28	4,022.39	0.00	0.00	0.00
15,900.00	90.00	359.48	11,214.00	4,110.75	305.37	4,122.06	0.00	0.00	0.00
16,000.00	90.00	359.48	11,214.00	4,210.75	304.47	4,221.74	0.00	0.00	0.00
16,051.25	90.00	359.48	11,214.00	4,262.00	304.00	4,272.83	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
FTP (Ares 4 State #502)	0.00	0.00	11,214.00	-455.00	347.00	451,989.00	776,472.00	32.24030501	-103.57282522
- plan misses target center by 41.06usft at 11345.64usft MD (11176.50 TVD, -438.42 N, 344.79 E)									
- Point									
PBHL (Ares 4 State #50)	0.00	0.00	11,214.00	4,262.00	304.00	456,706.00	776,429.00	32.25327124	-103.57285625
- plan hits target center									
- Point									