

HOBBS OCD
OCT 23 2018
RECEIVED

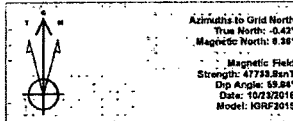
30-025-45287



Lea County, NM (NAD 83 NME)

Lomas Rojas 26 State #503H

Plan #0.1



To convert a Magnetic Direction to a Grid Direction Add 0.42°
To convert a Magnetic Direction to a True Direction Add 0.78° East
To convert a True Direction to a Grid Direction Subtract 0.42°

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: #503H

KB = 26 @ 3361.0m
Northing 403601.00 Easting 787324.00 Latitude 31° 6' 24.522 N Longitude 103° 32' 19.993 W

SECTION DETAILS

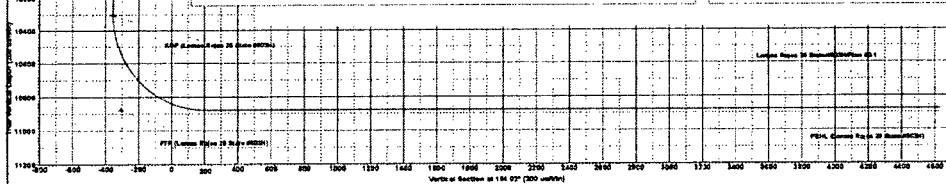
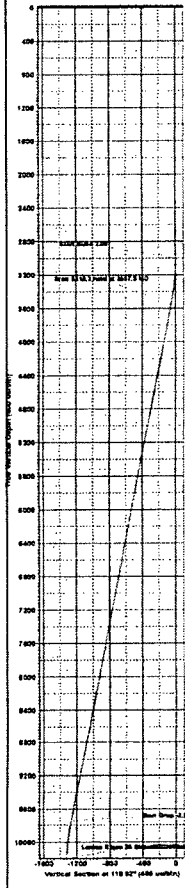
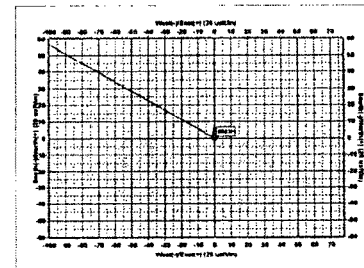
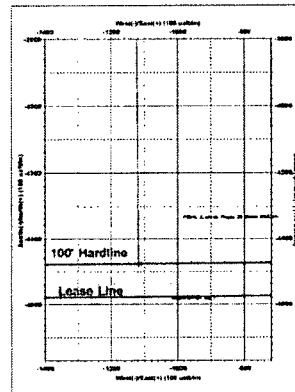
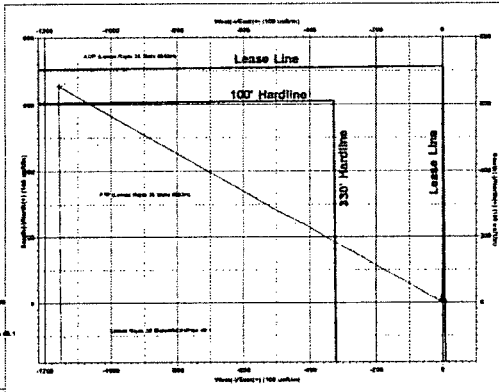
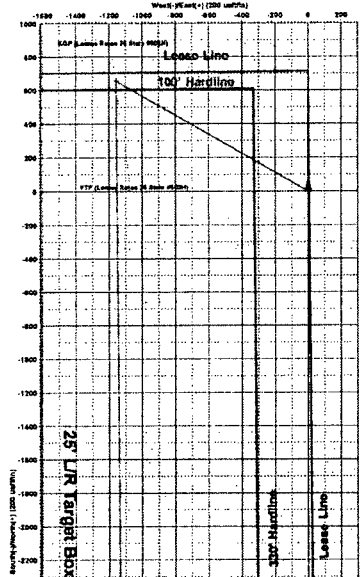
Sec	MD	Inc	Ad	TVD	+N/S	+E/W	Diag	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3657.5	11.18	299.52	3564.0	26.6	-47.1	2.00	299.52	-14.4	
4	9875.8	11.15	298.52	9781.0	428.4	-1109.9	0.00	0.00	-345.7	
6	10431.2	0.00	0.00	10308.0	658.0	-1157.0	2.00	180.00	-355.1	KOP (Lomas Rojas 26 State #503H)
6	11331.2	80.00	179.58	10878.0	82.1	-1152.6	10.00	179.58	199.7	
7	15389.4	80.00	179.58	10878.0	-4476.0	-1118.0	0.00	0.00	4613.5	PBHL (Lomas Rojas 26 State #503H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting
KOP (Lomas Rojas 26 State #503H)	10308.0	658.0	-1157.0	404106.00	786187.00
FTF (Lomas Rojas 26 State #503H)	10878.0	806.0	-1167.0	404106.00	786187.00
PBHL (Lomas Rojas 26 State #503H)	10878.0	-4476.0	-1118.0	338025.00	786208.00





HOBBS OCD
OCT 23 2018
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Lomas Rojas 26 State

#503H

OH

Plan: Plan #0.1

Standard Planning Report

23 October, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #503H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3361.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3361.0usft
Site:	Lomas Rojas 26 State	North Reference:	Grid
Well:	#503H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Lomas Rojas 26 State				
Site Position:		Northing:	403,501.00 usft	Latitude:	32° 6' 24.522 N
From:	Map	Easting:	787,324.00 usft	Longitude:	103° 32' 19.992 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.42 °

Well	#503H					
Well Position	+N/-S	0.0 usft	Northing:	403,501.00 usft	Latitude:	32° 6' 24.522 N
	+E/-W	0.0 usft	Easting:	787,324.00 usft	Longitude:	103° 32' 19.992 W
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level:	3,336.0 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/23/2018	6.78	59.94	47,733.81938699

Design	Plan #0.1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	194.02

Plan Survey Tool Program	Date 10/23/2018			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1 0.0	15,889.4	Plan #0.1 (OH)	MWD	
			OWSG MWD - Standard	

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,557.5	11.15	299.52	3,554.0	26.6	-47.1	2.00	2.00	0.00	299.52	
9,873.8	11.15	299.52	9,751.0	628.4	-1,109.9	0.00	0.00	0.00	0.00	
10,431.2	0.00	0.00	10,305.0	655.0	-1,157.0	2.00	-2.00	0.00	180.00	KOP (Lomas Rojas 26)
11,331.2	90.00	179.56	10,878.0	82.1	-1,152.6	10.00	10.00	19.95	179.56	
15,889.4	90.00	179.56	10,878.0	-4,476.0	-1,118.0	0.00	0.00	0.00	0.00	PBHL (Lomas Rojas 26)



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #503H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3361.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3361.0usft
Site:	Lomas Rojas 26 State	North Reference:	Grid
Well:	#503H	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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	2.00	299.52	3,100.0	0.9	-1.5	-0.5	2.00	2.00	0.00
3,200.0	4.00	299.52	3,199.8	3.4	-6.1	-1.9	2.00	2.00	0.00
3,300.0	6.00	299.52	3,299.5	7.7	-13.7	-4.2	2.00	2.00	0.00
3,400.0	8.00	299.52	3,398.7	13.7	-24.3	-7.4	2.00	2.00	0.00
3,500.0	10.00	299.52	3,497.5	21.4	-37.9	-11.6	2.00	2.00	0.00
3,557.5	11.15	299.52	3,554.0	26.6	-47.1	-14.4	2.00	2.00	0.00
3,600.0	11.15	299.52	3,595.7	30.7	-54.2	-16.6	0.00	0.00	0.00
3,700.0	11.15	299.52	3,693.8	40.2	-71.0	-21.8	0.00	0.00	0.00
3,800.0	11.15	299.52	3,791.9	49.7	-87.9	-27.0	0.00	0.00	0.00
3,900.0	11.15	299.52	3,890.0	59.3	-104.7	-32.1	0.00	0.00	0.00
4,000.0	11.15	299.52	3,988.1	68.8	-121.5	-37.3	0.00	0.00	0.00
4,100.0	11.15	299.52	4,086.2	78.3	-138.3	-42.5	0.00	0.00	0.00
4,200.0	11.15	299.52	4,184.4	87.8	-155.2	-47.6	0.00	0.00	0.00
4,300.0	11.15	299.52	4,282.5	97.4	-172.0	-52.8	0.00	0.00	0.00
4,400.0	11.15	299.52	4,380.6	106.9	-188.8	-58.0	0.00	0.00	0.00
4,500.0	11.15	299.52	4,478.7	116.4	-205.7	-63.1	0.00	0.00	0.00
4,600.0	11.15	299.52	4,576.8	126.0	-222.5	-68.3	0.00	0.00	0.00
4,700.0	11.15	299.52	4,674.9	135.5	-239.3	-73.4	0.00	0.00	0.00
4,800.0	11.15	299.52	4,773.0	145.0	-256.1	-78.6	0.00	0.00	0.00
4,900.0	11.15	299.52	4,871.1	154.5	-273.0	-83.8	0.00	0.00	0.00
5,000.0	11.15	299.52	4,969.3	164.1	-289.8	-88.9	0.00	0.00	0.00
5,100.0	11.15	299.52	5,067.4	173.6	-306.6	-94.1	0.00	0.00	0.00
5,200.0	11.15	299.52	5,165.5	183.1	-323.5	-99.3	0.00	0.00	0.00



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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3361.0usft
Site:	Lomas Rojas 26 State	North Reference:	Grid
Well:	#503H	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)	
5,300.0	11.15	299.52	5,263.6	192.6	-340.3	-104.4	0.00	0.00	0.00	
5,400.0	11.15	299.52	5,361.7	202.2	-357.1	-109.6	0.00	0.00	0.00	
5,500.0	11.15	299.52	5,459.8	211.7	-373.9	-114.8	0.00	0.00	0.00	
5,600.0	11.15	299.52	5,557.9	221.2	-390.8	-119.9	0.00	0.00	0.00	
5,700.0	11.15	299.52	5,656.0	230.7	-407.6	-125.1	0.00	0.00	0.00	
5,800.0	11.15	299.52	5,754.2	240.3	-424.4	-130.3	0.00	0.00	0.00	
5,900.0	11.15	299.52	5,852.3	249.8	-441.2	-135.4	0.00	0.00	0.00	
6,000.0	11.15	299.52	5,950.4	259.3	-458.1	-140.6	0.00	0.00	0.00	
6,100.0	11.15	299.52	6,048.5	268.9	-474.9	-145.8	0.00	0.00	0.00	
6,200.0	11.15	299.52	6,146.6	278.4	-491.7	-150.9	0.00	0.00	0.00	
6,300.0	11.15	299.52	6,244.7	287.9	-508.6	-156.1	0.00	0.00	0.00	
6,400.0	11.15	299.52	6,342.8	297.4	-525.4	-161.2	0.00	0.00	0.00	
6,500.0	11.15	299.52	6,440.9	307.0	-542.2	-166.4	0.00	0.00	0.00	
6,600.0	11.15	299.52	6,539.1	316.5	-559.0	-171.6	0.00	0.00	0.00	
6,700.0	11.15	299.52	6,637.2	326.0	-575.9	-176.7	0.00	0.00	0.00	
6,800.0	11.15	299.52	6,735.3	335.5	-592.7	-181.9	0.00	0.00	0.00	
6,900.0	11.15	299.52	6,833.4	345.1	-609.5	-187.1	0.00	0.00	0.00	
7,000.0	11.15	299.52	6,931.5	354.6	-626.4	-192.2	0.00	0.00	0.00	
7,100.0	11.15	299.52	7,029.6	364.1	-643.2	-197.4	0.00	0.00	0.00	
7,200.0	11.15	299.52	7,127.7	373.6	-660.0	-202.6	0.00	0.00	0.00	
7,300.0	11.15	299.52	7,225.8	383.2	-676.8	-207.7	0.00	0.00	0.00	
7,400.0	11.15	299.52	7,324.0	392.7	-693.7	-212.9	0.00	0.00	0.00	
7,500.0	11.15	299.52	7,422.1	402.2	-710.5	-218.1	0.00	0.00	0.00	
7,600.0	11.15	299.52	7,520.2	411.8	-727.3	-223.2	0.00	0.00	0.00	
7,700.0	11.15	299.52	7,618.3	421.3	-744.1	-228.4	0.00	0.00	0.00	
7,800.0	11.15	299.52	7,716.4	430.8	-761.0	-233.6	0.00	0.00	0.00	
7,900.0	11.15	299.52	7,814.5	440.3	-777.8	-238.7	0.00	0.00	0.00	
8,000.0	11.15	299.52	7,912.6	449.9	-794.6	-243.9	0.00	0.00	0.00	
8,100.0	11.15	299.52	8,010.7	459.4	-811.5	-249.0	0.00	0.00	0.00	
8,200.0	11.15	299.52	8,108.9	468.9	-828.3	-254.2	0.00	0.00	0.00	
8,300.0	11.15	299.52	8,207.0	478.4	-845.1	-259.4	0.00	0.00	0.00	
8,400.0	11.15	299.52	8,305.1	488.0	-861.9	-264.5	0.00	0.00	0.00	
8,500.0	11.15	299.52	8,403.2	497.5	-878.8	-269.7	0.00	0.00	0.00	
8,600.0	11.15	299.52	8,501.3	507.0	-895.6	-274.9	0.00	0.00	0.00	
8,700.0	11.15	299.52	8,599.4	516.5	-912.4	-280.0	0.00	0.00	0.00	
8,800.0	11.15	299.52	8,697.5	526.1	-929.3	-285.2	0.00	0.00	0.00	
8,900.0	11.15	299.52	8,795.6	535.6	-946.1	-290.4	0.00	0.00	0.00	
9,000.0	11.15	299.52	8,893.8	545.1	-962.9	-295.5	0.00	0.00	0.00	
9,100.0	11.15	299.52	8,991.9	554.6	-979.7	-300.7	0.00	0.00	0.00	
9,200.0	11.15	299.52	9,090.0	564.2	-996.6	-305.9	0.00	0.00	0.00	
9,300.0	11.15	299.52	9,188.1	573.7	-1,013.4	-311.0	0.00	0.00	0.00	
9,400.0	11.15	299.52	9,286.2	583.2	-1,030.2	-316.2	0.00	0.00	0.00	
9,500.0	11.15	299.52	9,384.3	592.8	-1,047.1	-321.4	0.00	0.00	0.00	
9,600.0	11.15	299.52	9,482.4	602.3	-1,063.9	-326.5	0.00	0.00	0.00	
9,700.0	11.15	299.52	9,580.6	611.8	-1,080.7	-331.7	0.00	0.00	0.00	
9,800.0	11.15	299.52	9,678.7	621.3	-1,097.5	-336.8	0.00	0.00	0.00	
9,873.8	11.15	299.52	9,751.0	628.4	-1,109.9	-340.7	0.00	0.00	0.00	
9,900.0	10.62	299.52	9,776.8	630.8	-1,114.3	-342.0	2.00	-2.00	0.00	
10,000.0	8.62	299.52	9,875.4	639.0	-1,128.8	-346.4	2.00	-2.00	0.00	
10,100.0	6.62	299.52	9,974.5	645.6	-1,140.4	-350.0	2.00	-2.00	0.00	
10,200.0	4.62	299.52	10,074.0	650.4	-1,148.9	-352.6	2.00	-2.00	0.00	
10,300.0	2.62	299.52	10,173.8	653.5	-1,154.4	-354.3	2.00	-2.00	0.00	
10,400.0	0.62	299.52	10,273.8	654.9	-1,156.9	-355.1	2.00	-2.00	0.00	
10,431.2	0.00	0.00	10,305.0	655.0	-1,157.0	-355.1	2.00	-2.00	0.00	



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #503H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3361.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3361.0usft
Site:	Lomas Rojas 26 State	North Reference:	Grid
Well:	#503H	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)
KOP (Lomas Rojas 26 State #503H)									
10,450.0	1.88	179.56	10,323.8	654.7	-1,157.0	-354.8	10.00	10.00	0.00
10,500.0	6.88	179.56	10,373.6	650.9	-1,157.0	-351.1	10.00	10.00	0.00
10,550.0	11.88	179.56	10,422.9	642.7	-1,156.9	-343.2	10.00	10.00	0.00
10,600.0	16.88	179.56	10,471.3	630.3	-1,156.8	-331.2	10.00	10.00	0.00
10,650.0	21.88	179.56	10,518.5	613.7	-1,156.7	-315.1	10.00	10.00	0.00
10,700.0	26.88	179.56	10,564.0	593.1	-1,156.5	-295.2	10.00	10.00	0.00
10,750.0	31.88	179.56	10,607.6	568.6	-1,156.3	-271.4	10.00	10.00	0.00
10,800.0	36.88	179.56	10,648.8	540.4	-1,156.1	-244.1	10.00	10.00	0.00
10,850.0	41.88	179.56	10,687.5	508.7	-1,155.9	-213.4	10.00	10.00	0.00
10,900.0	46.88	179.56	10,723.2	473.7	-1,155.6	-179.5	10.00	10.00	0.00
10,901.1	46.99	179.56	10,724.0	472.9	-1,155.6	-178.7	10.00	10.00	0.00
FTP (Lomas Rojas 26 State #503H)									
10,950.0	51.88	179.56	10,755.7	435.8	-1,155.3	-142.8	10.00	10.00	0.00
11,000.0	56.88	179.56	10,784.8	395.1	-1,155.0	-103.5	10.00	10.00	0.00
11,050.0	61.88	179.56	10,810.3	352.1	-1,154.7	-61.8	10.00	10.00	0.00
11,100.0	66.88	179.56	10,831.9	307.1	-1,154.4	-18.2	10.00	10.00	0.00
11,150.0	71.88	179.56	10,849.5	260.3	-1,154.0	27.1	10.00	10.00	0.00
11,200.0	76.88	179.56	10,863.0	212.2	-1,153.6	73.7	10.00	10.00	0.00
11,250.0	81.88	179.56	10,872.2	163.0	-1,153.3	121.3	10.00	10.00	0.00
11,300.0	86.88	179.56	10,877.1	113.3	-1,152.9	169.5	10.00	10.00	0.00
11,331.2	90.00	179.56	10,878.0	82.1	-1,152.6	199.7	10.00	10.00	0.00
11,400.0	90.00	179.56	10,878.0	13.3	-1,152.1	266.3	0.00	0.00	0.00
11,500.0	90.00	179.56	10,878.0	-86.7	-1,151.4	363.1	0.00	0.00	0.00
11,600.0	90.00	179.56	10,878.0	-186.7	-1,150.6	460.0	0.00	0.00	0.00
11,700.0	90.00	179.56	10,878.0	-286.7	-1,149.8	556.8	0.00	0.00	0.00
11,800.0	90.00	179.56	10,878.0	-386.7	-1,149.1	653.6	0.00	0.00	0.00
11,900.0	90.00	179.56	10,878.0	-486.7	-1,148.3	750.5	0.00	0.00	0.00
12,000.0	90.00	179.56	10,878.0	-586.7	-1,147.6	847.3	0.00	0.00	0.00
12,100.0	90.00	179.56	10,878.0	-686.7	-1,146.8	944.1	0.00	0.00	0.00
12,200.0	90.00	179.56	10,878.0	-786.7	-1,146.0	1,040.9	0.00	0.00	0.00
12,300.0	90.00	179.56	10,878.0	-886.7	-1,145.3	1,137.8	0.00	0.00	0.00
12,400.0	90.00	179.56	10,878.0	-986.7	-1,144.5	1,234.6	0.00	0.00	0.00
12,500.0	90.00	179.56	10,878.0	-1,086.7	-1,143.8	1,331.4	0.00	0.00	0.00
12,600.0	90.00	179.56	10,878.0	-1,186.7	-1,143.0	1,428.3	0.00	0.00	0.00
12,700.0	90.00	179.56	10,878.0	-1,286.7	-1,142.2	1,525.1	0.00	0.00	0.00
12,800.0	90.00	179.56	10,878.0	-1,386.7	-1,141.5	1,621.9	0.00	0.00	0.00
12,900.0	90.00	179.56	10,878.0	-1,486.7	-1,140.7	1,718.8	0.00	0.00	0.00
13,000.0	90.00	179.56	10,878.0	-1,586.7	-1,140.0	1,815.6	0.00	0.00	0.00
13,100.0	90.00	179.56	10,878.0	-1,686.6	-1,139.2	1,912.4	0.00	0.00	0.00
13,200.0	90.00	179.56	10,878.0	-1,786.6	-1,138.4	2,009.3	0.00	0.00	0.00
13,300.0	90.00	179.56	10,878.0	-1,886.6	-1,137.7	2,106.1	0.00	0.00	0.00
13,400.0	90.00	179.56	10,878.0	-1,986.6	-1,136.9	2,202.9	0.00	0.00	0.00
13,500.0	90.00	179.56	10,878.0	-2,086.6	-1,136.2	2,299.8	0.00	0.00	0.00
13,600.0	90.00	179.56	10,878.0	-2,186.6	-1,135.4	2,396.6	0.00	0.00	0.00
13,700.0	90.00	179.56	10,878.0	-2,286.6	-1,134.6	2,493.4	0.00	0.00	0.00
13,800.0	90.00	179.56	10,878.0	-2,386.6	-1,133.9	2,590.3	0.00	0.00	0.00
13,900.0	90.00	179.56	10,878.0	-2,486.6	-1,133.1	2,687.1	0.00	0.00	0.00
14,000.0	90.00	179.56	10,878.0	-2,586.6	-1,132.4	2,783.9	0.00	0.00	0.00
14,100.0	90.00	179.56	10,878.0	-2,686.6	-1,131.6	2,880.8	0.00	0.00	0.00
14,200.0	90.00	179.56	10,878.0	-2,786.6	-1,130.8	2,977.6	0.00	0.00	0.00
14,300.0	90.00	179.56	10,878.0	-2,886.6	-1,130.1	3,074.4	0.00	0.00	0.00
14,400.0	90.00	179.56	10,878.0	-2,986.6	-1,129.3	3,171.3	0.00	0.00	0.00
14,500.0	90.00	179.56	10,878.0	-3,086.6	-1,128.6	3,268.1	0.00	0.00	0.00

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Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3361.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3361.0usft
Site:	Lomas Rojas 26 State	North Reference:	Grid
Well:	#503H	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)
14,600.0	90.00	179.56	10,878.0	-3,186.6	-1,127.8	3,364.9	0.00	0.00	0.00
14,700.0	90.00	179.56	10,878.0	-3,286.6	-1,127.0	3,461.8	0.00	0.00	0.00
14,800.0	90.00	179.56	10,878.0	-3,386.6	-1,126.3	3,558.6	0.00	0.00	0.00
14,900.0	90.00	179.56	10,878.0	-3,486.6	-1,125.5	3,655.4	0.00	0.00	0.00
15,000.0	90.00	179.56	10,878.0	-3,586.6	-1,124.8	3,752.3	0.00	0.00	0.00
15,100.0	90.00	179.56	10,878.0	-3,686.6	-1,124.0	3,849.1	0.00	0.00	0.00
15,200.0	90.00	179.56	10,878.0	-3,786.6	-1,123.2	3,945.9	0.00	0.00	0.00
15,300.0	90.00	179.56	10,878.0	-3,886.6	-1,122.5	4,042.8	0.00	0.00	0.00
15,400.0	90.00	179.56	10,878.0	-3,986.6	-1,121.7	4,139.6	0.00	0.00	0.00
15,500.0	90.00	179.56	10,878.0	-4,086.6	-1,121.0	4,236.4	0.00	0.00	0.00
15,600.0	90.00	179.56	10,878.0	-4,186.6	-1,120.2	4,333.2	0.00	0.00	0.00
15,700.0	90.00	179.56	10,878.0	-4,286.6	-1,119.4	4,430.1	0.00	0.00	0.00
15,800.0	90.00	179.56	10,878.0	-4,386.6	-1,118.7	4,526.9	0.00	0.00	0.00
15,889.4	90.00	179.56	10,878.0	-4,476.0	-1,118.0	4,613.5	0.00	0.00	0.00
PBHL (Lomas Rojas 26 State #503H)									

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
KOP (Lomas Rojas 26 S - plan hits target center - Point	0.00	0.00	10,305.0	655.0	-1,157.0	404,156.00	786,167.00	32° 6' 31.088 N	103° 32' 33.387 W
FTP (Lomas Rojas 26 S - plan misses target center by 202.9usft at 10901.1usft MD (10724.0 TVD, 472.9 N, -1155.6 E) - Point	0.00	0.00	10,878.0	605.0	-1,157.0	404,106.00	786,167.00	32° 6' 30.593 N	103° 32' 33.392 W
PBHL (Lomas Rojas 26 - plan hits target center - Point	0.00	0.00	10,878.0	-4,476.0	-1,118.0	399,025.00	786,206.00	32° 5' 40.312 N	103° 32' 33.371 W