eog resources

Lea County, NM (NAD 83 NME)

Convoy 28 State Com #601H

HP 642

Plan #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

Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.50°

Magnetic Field
Strength: 47872.9snT
Dip Angle: 60.03°
Date: 11/30/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.50°
To convert a Magnetic Direction to a True Direction, Add 6.90° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

WELL DETAILS: #601H

3525.0
KB = 25 @ 3550.0usft (HP 642)

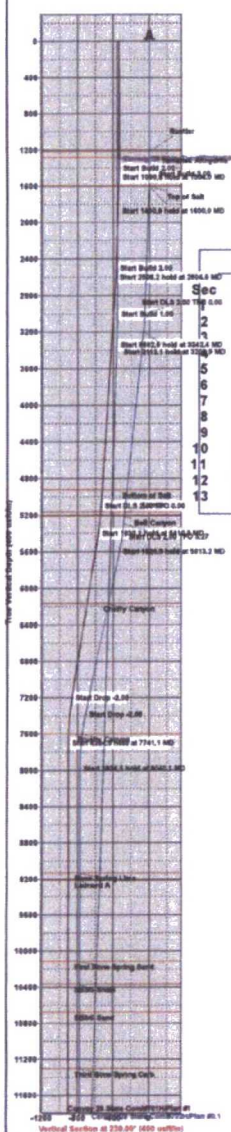
Northing	Easting	Latitude	Longitude
435286.00	776680.00	32° 11' 39.904 N	103° 34' 21.126 W

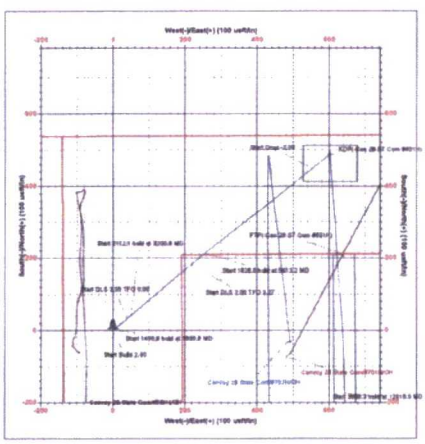
SECTION DETAILS

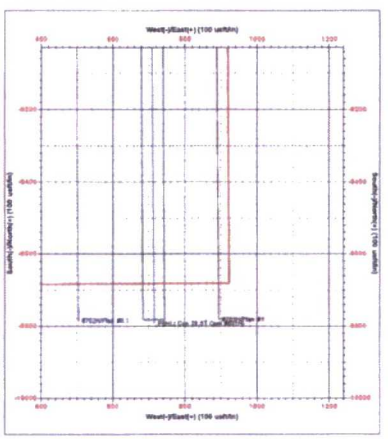
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
3	1600.0	2.00	50.00	1600.0	1.1	1.3	2.00	50.00	-1.0	
4	3000.9	2.00	50.00	3000.0	32.5	38.8	0.00	0.00	-29.6	
5	3200.9	6.00	50.00	3199.5	41.5	49.5	2.00	0.00	-37.8	
6	5313.0	6.00	50.00	5300.0	183.4	218.6	0.00	0.00	-167.0	
7	5613.2	12.00	51.65	5596.4	212.9	255.1	2.00	3.27	-193.8	
8	7440.1	12.00	51.65	7383.4	448.6	553.0	0.00	0.00	-407.2	
9	8040.1	0.00	0.00	7979.0	487.5	602.1	2.00	180.00	-442.3	
10	11874.6	0.00	0.00	11813.5	487.5	602.1	0.00	0.00	-442.3	KOP(Con 28 ST Com #601H)
11	12626.0	90.17	175.90	12291.0	9.8	636.3	12.00	175.90	36.6	
12	12810.0	90.17	179.58	12290.4	-174.0	643.6	2.00	90.00	220.4	
13	22418.3	90.17	179.58	12262.0	-9782.0	714.0	0.00	0.00	9808.0	PBHL(Con 28 ST Com #601H)

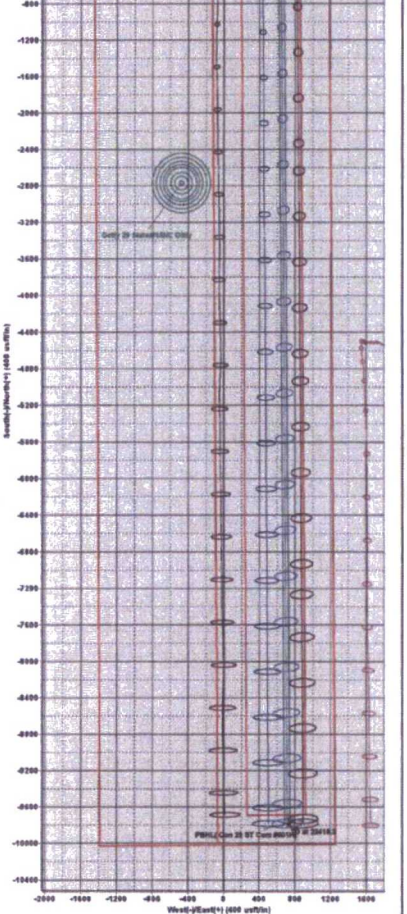
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

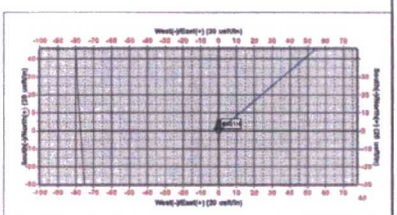
Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Con 28 ST Com #601H)	11813.5	487.5	602.1	436773.48	777282.08
PBHL(Con 28 ST Com #601H)	12262.0	-9782.0	714.0	425504.00	777394.00
FTP(Con 28 ST Com #601H)	12291.0	210.0	640.0	435496.00	777320.00

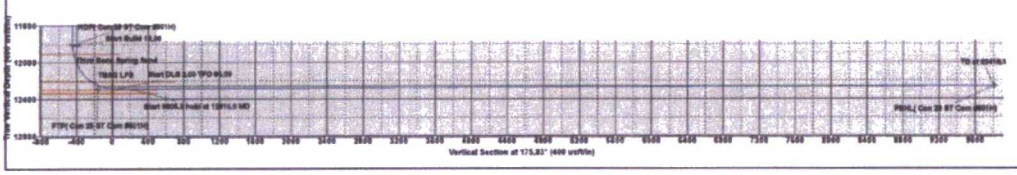


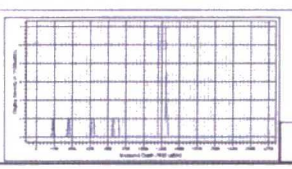












EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Convoy 28 State Com
#601H
74922
OH

Plan: Plan #1

Standard Planning Report

15 February, 2018

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #601H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3550.0usft (HP 642)
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3550.0usft (HP 642)
Site:	Convoy 28 State Com	**North Reference:**	Grid
Well:	#601H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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	Convoy 28 State Com				
Site Position:		**Northing:**	435,221.00 usft	**Latitude:**	32° 11' 39.126 N
From:	Map	**Easting:**	777,172.00 usft	**Longitude:**	103° 34' 15.406 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.41 °

Well	#601H					
Well Position	**+N/-S**	65.0 usft	**Northing:**	435,286.00 usft	**Latitude:**	32° 11' 39.804 N
	+E/-W	-492.0 usft	**Easting:**	776,680.00 usft	**Longitude:**	103° 34' 21.126 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,525.0 usft

Wellbore	OH			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	11/30/2017	6.90	60.03	47,872.94537558

Design	Plan #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	175.83

Plan Survey Tool Program **Date** 2/15/2018

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,418.3	Plan #1 (OH)	MWD	
				OWSG MWD - Standard	

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Site:	Convoy 28 State Com	**North Reference:**	Grid
Well:	#601H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,600.0	2.00	50.00	1,600.0	1.1	1.3	2.00	2.00	0.00	50.00	
3,000.9	2.00	50.00	3,000.0	32.5	38.8	0.00	0.00	0.00	0.00	
3,200.9	6.00	50.00	3,199.5	41.5	49.5	2.00	2.00	0.00	0.00	
5,313.0	6.00	50.00	5,300.0	183.4	218.6	0.00	0.00	0.00	0.00	
5,613.2	12.00	51.65	5,596.4	212.9	255.1	2.00	2.00	0.55	3.27	
7,440.1	12.00	51.65	7,383.4	448.6	553.0	0.00	0.00	0.00	0.00	
8,040.1	0.00	0.00	7,979.0	487.5	602.1	2.00	-2.00	0.00	180.00	
11,874.6	0.00	0.00	11,813.5	487.5	602.1	0.00	0.00	0.00	0.00	KOP(Con 28 ST Com
12,626.0	90.17	175.90	12,291.0	9.8	636.3	12.00	12.00	0.00	175.90	
12,810.0	90.17	179.58	12,290.4	-174.0	643.6	2.00	0.00	2.00	90.00	
22,418.3	90.17	179.58	12,262.0	-9,782.0	714.0	0.00	0.00	0.00	0.00	PBHL(Con 28 ST Co

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Site:	Convoy 28 State Com	**North Reference:**	Grid
Well:	#601H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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	2.00	50.00	1,600.0	1.1	1.3	-1.0	2.00	2.00	0.00
1,700.0	2.00	50.00	1,699.9	3.4	4.0	-3.1	0.00	0.00	0.00
1,800.0	2.00	50.00	1,799.9	5.6	6.7	-5.1	0.00	0.00	0.00
1,900.0	2.00	50.00	1,899.8	7.9	9.4	-7.1	0.00	0.00	0.00
2,000.0	2.00	50.00	1,999.7	10.1	12.0	-9.2	0.00	0.00	0.00
2,100.0	2.00	50.00	2,099.7	12.3	14.7	-11.2	0.00	0.00	0.00
2,200.0	2.00	50.00	2,199.6	14.6	17.4	-13.3	0.00	0.00	0.00
2,300.0	2.00	50.00	2,299.6	16.8	20.1	-15.3	0.00	0.00	0.00
2,400.0	2.00	50.00	2,399.5	19.1	22.7	-17.4	0.00	0.00	0.00
2,500.0	2.00	50.00	2,499.4	21.3	25.4	-19.4	0.00	0.00	0.00
2,600.0	2.00	50.00	2,599.4	23.6	28.1	-21.4	0.00	0.00	0.00
2,700.0	2.00	50.00	2,699.3	25.8	30.7	-23.5	0.00	0.00	0.00
2,800.0	2.00	50.00	2,799.2	28.0	33.4	-25.5	0.00	0.00	0.00
2,900.0	2.00	50.00	2,899.2	30.3	36.1	-27.6	0.00	0.00	0.00
3,000.9	2.00	50.00	3,000.0	32.5	38.8	-29.6	0.00	0.00	0.00
3,100.0	3.98	50.00	3,099.0	35.9	42.8	-32.7	2.00	2.00	0.00
3,200.9	6.00	50.00	3,199.5	41.5	49.5	-37.8	2.00	2.00	0.00
3,300.0	6.00	50.00	3,298.1	48.2	57.4	-43.9	0.00	0.00	0.00
3,400.0	6.00	50.00	3,397.5	54.9	65.4	-50.0	0.00	0.00	0.00
3,500.0	6.00	50.00	3,497.0	61.6	73.4	-56.1	0.00	0.00	0.00
3,600.0	6.00	50.00	3,596.4	68.3	81.4	-62.2	0.00	0.00	0.00
3,700.0	6.00	50.00	3,695.9	75.0	89.4	-68.3	0.00	0.00	0.00
3,800.0	6.00	50.00	3,795.3	81.8	97.4	-74.5	0.00	0.00	0.00
3,900.0	6.00	50.00	3,894.8	88.5	105.5	-80.6	0.00	0.00	0.00
4,000.0	6.00	50.00	3,994.2	95.2	113.5	-86.7	0.00	0.00	0.00
4,100.0	6.00	50.00	4,093.7	101.9	121.5	-92.8	0.00	0.00	0.00
4,200.0	6.00	50.00	4,193.1	108.6	129.5	-98.9	0.00	0.00	0.00
4,300.0	6.00	50.00	4,292.6	115.4	137.5	-105.0	0.00	0.00	0.00
4,400.0	6.00	50.00	4,392.0	122.1	145.5	-111.2	0.00	0.00	0.00
4,500.0	6.00	50.00	4,491.5	128.8	153.5	-117.3	0.00	0.00	0.00
4,600.0	6.00	50.00	4,590.9	135.5	161.5	-123.4	0.00	0.00	0.00
4,700.0	6.00	50.00	4,690.4	142.2	169.5	-129.5	0.00	0.00	0.00
4,800.0	6.00	50.00	4,789.8	149.0	177.5	-135.6	0.00	0.00	0.00
4,900.0	6.00	50.00	4,889.3	155.7	185.5	-141.8	0.00	0.00	0.00
5,000.0	6.00	50.00	4,988.7	162.4	193.5	-147.9	0.00	0.00	0.00
5,100.0	6.00	50.00	5,088.2	169.1	201.5	-154.0	0.00	0.00	0.00
5,200.0	6.00	50.00	5,187.6	175.8	209.6	-160.1	0.00	0.00	0.00
5,300.0	6.00	50.00	5,287.1	182.6	217.6	-166.2	0.00	0.00	0.00

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Site:	Convoy 28 State Com	**North Reference:**	Grid
Well:	#601H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
5,313.0	6.00	50.00	5,300.0	183.4	218.6	-167.0	0.00	0.00	0.00
5,400.0	7.74	50.74	5,386.4	190.1	226.6	-173.1	2.00	2.00	0.85
5,500.0	9.74	51.26	5,485.2	199.6	238.4	-181.7	2.00	2.00	0.52
5,600.0	11.74	51.61	5,583.5	211.2	253.0	-192.2	2.00	2.00	0.35
5,613.2	12.00	51.65	5,596.4	212.9	255.1	-193.8	2.00	2.00	0.28
5,700.0	12.00	51.65	5,681.3	224.1	269.3	-203.9	0.00	0.00	0.00
5,800.0	12.00	51.65	5,779.1	237.0	285.6	-215.6	0.00	0.00	0.00
5,900.0	12.00	51.65	5,876.9	249.9	301.9	-227.3	0.00	0.00	0.00
6,000.0	12.00	51.65	5,974.7	262.8	318.2	-238.9	0.00	0.00	0.00
6,100.0	12.00	51.65	6,072.6	275.7	334.5	-250.6	0.00	0.00	0.00
6,200.0	12.00	51.65	6,170.4	288.6	350.8	-262.3	0.00	0.00	0.00
6,300.0	12.00	51.65	6,268.2	301.5	367.1	-274.0	0.00	0.00	0.00
6,400.0	12.00	51.65	6,366.0	314.4	383.4	-285.7	0.00	0.00	0.00
6,500.0	12.00	51.65	6,463.8	327.3	399.7	-297.4	0.00	0.00	0.00
6,600.0	12.00	51.65	6,561.6	340.2	416.0	-309.0	0.00	0.00	0.00
6,700.0	12.00	51.65	6,659.4	353.1	432.3	-320.7	0.00	0.00	0.00
6,800.0	12.00	51.65	6,757.3	366.0	448.6	-332.4	0.00	0.00	0.00
6,900.0	12.00	51.65	6,855.1	378.9	464.9	-344.1	0.00	0.00	0.00
7,000.0	12.00	51.65	6,952.9	391.8	481.2	-355.8	0.00	0.00	0.00
7,100.0	12.00	51.65	7,050.7	404.7	497.5	-367.4	0.00	0.00	0.00
7,200.0	12.00	51.65	7,148.5	417.6	513.8	-379.1	0.00	0.00	0.00
7,300.0	12.00	51.65	7,246.3	430.5	530.2	-390.8	0.00	0.00	0.00
7,400.0	12.00	51.65	7,344.1	443.4	546.5	-402.5	0.00	0.00	0.00
7,440.1	12.00	51.65	7,383.4	448.6	553.0	-407.2	0.00	0.00	0.00
7,500.0	10.80	51.65	7,442.1	456.0	562.3	-413.8	2.00	-2.00	0.00
7,600.0	8.80	51.65	7,540.6	466.5	575.6	-423.4	2.00	-2.00	0.00
7,700.0	6.80	51.65	7,639.7	474.9	586.3	-431.0	2.00	-2.00	0.00
7,800.0	4.80	51.65	7,739.2	481.2	594.2	-436.7	2.00	-2.00	0.00
7,900.0	2.80	51.65	7,839.0	485.3	599.4	-440.4	2.00	-2.00	0.00
8,000.0	0.80	51.65	7,938.9	487.3	601.9	-442.2	2.00	-2.00	0.00
8,040.1	0.00	0.00	7,979.0	487.5	602.1	-442.3	2.00	-2.00	0.00
8,100.0	0.00	0.00	8,038.9	487.5	602.1	-442.3	0.00	0.00	0.00
8,200.0	0.00	0.00	8,138.9	487.5	602.1	-442.3	0.00	0.00	0.00
8,300.0	0.00	0.00	8,238.9	487.5	602.1	-442.3	0.00	0.00	0.00
8,400.0	0.00	0.00	8,338.9	487.5	602.1	-442.3	0.00	0.00	0.00
8,500.0	0.00	0.00	8,438.9	487.5	602.1	-442.3	0.00	0.00	0.00
8,600.0	0.00	0.00	8,538.9	487.5	602.1	-442.3	0.00	0.00	0.00
8,700.0	0.00	0.00	8,638.9	487.5	602.1	-442.3	0.00	0.00	0.00
8,800.0	0.00	0.00	8,738.9	487.5	602.1	-442.3	0.00	0.00	0.00
8,900.0	0.00	0.00	8,838.9	487.5	602.1	-442.3	0.00	0.00	0.00
9,000.0	0.00	0.00	8,938.9	487.5	602.1	-442.3	0.00	0.00	0.00
9,100.0	0.00	0.00	9,038.9	487.5	602.1	-442.3	0.00	0.00	0.00
9,200.0	0.00	0.00	9,138.9	487.5	602.1	-442.3	0.00	0.00	0.00
9,300.0	0.00	0.00	9,238.9	487.5	602.1	-442.3	0.00	0.00	0.00
9,400.0	0.00	0.00	9,338.9	487.5	602.1	-442.3	0.00	0.00	0.00
9,500.0	0.00	0.00	9,438.9	487.5	602.1	-442.3	0.00	0.00	0.00
9,600.0	0.00	0.00	9,538.9	487.5	602.1	-442.3	0.00	0.00	0.00
9,700.0	0.00	0.00	9,638.9	487.5	602.1	-442.3	0.00	0.00	0.00
9,800.0	0.00	0.00	9,738.9	487.5	602.1	-442.3	0.00	0.00	0.00
9,900.0	0.00	0.00	9,838.9	487.5	602.1	-442.3	0.00	0.00	0.00
10,000.0	0.00	0.00	9,938.9	487.5	602.1	-442.3	0.00	0.00	0.00
10,100.0	0.00	0.00	10,038.9	487.5	602.1	-442.3	0.00	0.00	0.00
10,200.0	0.00	0.00	10,138.9	487.5	602.1	-442.3	0.00	0.00	0.00
10,300.0	0.00	0.00	10,238.9	487.5	602.1	-442.3	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #601H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3550.0usft (HP 642)
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3550.0usft (HP 642)
Site:	Convoy 28 State Com	**North Reference:**	Grid
Well:	#601H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
10,400.0	0.00	0.00	10,338.9	487.5	602.1	-442.3	0.00	0.00	0.00
10,500.0	0.00	0.00	10,438.9	487.5	602.1	-442.3	0.00	0.00	0.00
10,600.0	0.00	0.00	10,538.9	487.5	602.1	-442.3	0.00	0.00	0.00
10,700.0	0.00	0.00	10,638.9	487.5	602.1	-442.3	0.00	0.00	0.00
10,800.0	0.00	0.00	10,738.9	487.5	602.1	-442.3	0.00	0.00	0.00
10,900.0	0.00	0.00	10,838.9	487.5	602.1	-442.3	0.00	0.00	0.00
11,000.0	0.00	0.00	10,938.9	487.5	602.1	-442.3	0.00	0.00	0.00
11,100.0	0.00	0.00	11,038.9	487.5	602.1	-442.3	0.00	0.00	0.00
11,200.0	0.00	0.00	11,138.9	487.5	602.1	-442.3	0.00	0.00	0.00
11,300.0	0.00	0.00	11,238.9	487.5	602.1	-442.3	0.00	0.00	0.00
11,400.0	0.00	0.00	11,338.9	487.5	602.1	-442.3	0.00	0.00	0.00
11,500.0	0.00	0.00	11,438.9	487.5	602.1	-442.3	0.00	0.00	0.00
11,600.0	0.00	0.00	11,538.9	487.5	602.1	-442.3	0.00	0.00	0.00
11,700.0	0.00	0.00	11,638.9	487.5	602.1	-442.3	0.00	0.00	0.00
11,800.0	0.00	0.00	11,738.9	487.5	602.1	-442.3	0.00	0.00	0.00
11,874.6	0.00	0.00	11,813.5	487.5	602.1	-442.3	0.00	0.00	0.00
11,900.0	3.05	175.90	11,838.9	486.8	602.1	-441.7	12.00	12.00	0.00
11,925.0	6.05	175.90	11,863.8	484.8	602.3	-439.7	12.00	12.00	0.00
11,950.0	9.05	175.90	11,888.6	481.5	602.5	-436.4	12.00	12.00	0.00
11,975.0	12.05	175.90	11,913.2	477.0	602.8	-431.8	12.00	12.00	0.00
12,000.0	15.05	175.90	11,937.5	471.1	603.3	-426.0	12.00	12.00	0.00
12,025.0	18.05	175.90	11,961.4	464.0	603.8	-418.8	12.00	12.00	0.00
12,050.0	21.05	175.90	11,985.0	455.7	604.4	-410.5	12.00	12.00	0.00
12,075.0	24.05	175.90	12,008.1	446.1	605.1	-400.9	12.00	12.00	0.00
12,100.0	27.05	175.90	12,030.6	435.4	605.8	-390.1	12.00	12.00	0.00
12,125.0	30.05	175.90	12,052.6	423.5	606.7	-378.2	12.00	12.00	0.00
12,150.0	33.05	175.90	12,073.9	410.4	607.6	-365.1	12.00	12.00	0.00
12,175.0	36.05	175.90	12,094.5	396.3	608.6	-350.9	12.00	12.00	0.00
12,200.0	39.05	175.90	12,114.3	381.1	609.7	-335.7	12.00	12.00	0.00
12,225.0	42.05	175.90	12,133.3	364.9	610.9	-319.4	12.00	12.00	0.00
12,250.0	45.05	175.90	12,151.4	347.7	612.1	-302.2	12.00	12.00	0.00
12,275.0	48.05	175.90	12,168.6	329.6	613.4	-284.1	12.00	12.00	0.00
12,300.0	51.05	175.90	12,184.8	310.6	614.8	-265.0	12.00	12.00	0.00
12,325.0	54.05	175.90	12,200.0	290.8	616.2	-245.2	12.00	12.00	0.00
12,350.0	57.05	175.90	12,214.2	270.3	617.7	-224.6	12.00	12.00	0.00
12,375.0	60.05	175.90	12,227.2	249.0	619.2	-203.3	12.00	12.00	0.00
12,400.0	63.05	175.90	12,239.1	227.1	620.8	-181.3	12.00	12.00	0.00
12,425.0	66.05	175.90	12,249.8	204.6	622.4	-158.7	12.00	12.00	0.00
12,450.0	69.05	175.90	12,259.4	181.5	624.0	-135.6	12.00	12.00	0.00
12,475.0	72.05	175.90	12,267.7	158.0	625.7	-112.0	12.00	12.00	0.00
12,500.0	75.05	175.90	12,274.8	134.1	627.4	-88.1	12.00	12.00	0.00
12,525.0	78.05	175.90	12,280.6	109.8	629.2	-63.7	12.00	12.00	0.00
12,550.0	81.05	175.90	12,285.1	85.3	630.9	-39.2	12.00	12.00	0.00
12,575.0	84.05	175.90	12,288.4	60.6	632.7	-14.4	12.00	12.00	0.00
12,600.0	87.05	175.90	12,290.3	35.7	634.5	10.5	12.00	12.00	0.00
12,626.0	90.17	175.90	12,291.0	9.8	636.3	36.6	12.00	12.00	0.00
12,700.0	90.17	177.38	12,290.7	-64.1	640.7	110.5	2.00	0.00	2.00
12,800.0	90.17	179.38	12,290.4	-164.0	643.5	210.4	2.00	0.00	2.00
12,810.0	90.17	179.58	12,290.4	-174.0	643.6	220.4	2.00	0.00	2.00
12,900.0	90.17	179.58	12,290.2	-264.0	644.2	310.2	0.00	0.00	0.00
13,000.0	90.17	179.58	12,289.9	-364.0	645.0	410.0	0.00	0.00	0.00
13,100.0	90.17	179.58	12,289.6	-464.0	645.7	509.8	0.00	0.00	0.00
13,200.0	90.17	179.58	12,289.3	-564.0	646.4	609.6	0.00	0.00	0.00
13,300.0	90.17	179.58	12,289.0	-664.0	647.2	709.3	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #601H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3550.0usft (HP 642)
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3550.0usft (HP 642)
Site:	Convoy 28 State Com	**North Reference:**	Grid
Well:	#601H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
13,400.0	90.17	179.58	12,288.7	-764.0	647.9	809.1	0.00	0.00	0.00
13,500.0	90.17	179.58	12,288.4	-864.0	648.6	908.9	0.00	0.00	0.00
13,600.0	90.17	179.58	12,288.1	-964.0	649.4	1,008.7	0.00	0.00	0.00
13,700.0	90.17	179.58	12,287.8	-1,064.0	650.1	1,108.5	0.00	0.00	0.00
13,800.0	90.17	179.58	12,287.5	-1,164.0	650.8	1,208.3	0.00	0.00	0.00
13,900.0	90.17	179.58	12,287.2	-1,264.0	651.6	1,308.0	0.00	0.00	0.00
14,000.0	90.17	179.58	12,286.9	-1,364.0	652.3	1,407.8	0.00	0.00	0.00
14,100.0	90.17	179.58	12,286.6	-1,464.0	653.0	1,507.6	0.00	0.00	0.00
14,200.0	90.17	179.58	12,286.3	-1,564.0	653.8	1,607.4	0.00	0.00	0.00
14,300.0	90.17	179.58	12,286.0	-1,664.0	654.5	1,707.2	0.00	0.00	0.00
14,400.0	90.17	179.58	12,285.7	-1,764.0	655.2	1,807.0	0.00	0.00	0.00
14,500.0	90.17	179.58	12,285.4	-1,864.0	656.0	1,906.8	0.00	0.00	0.00
14,600.0	90.17	179.58	12,285.1	-1,963.9	656.7	2,006.5	0.00	0.00	0.00
14,700.0	90.17	179.58	12,284.8	-2,063.9	657.4	2,106.3	0.00	0.00	0.00
14,800.0	90.17	179.58	12,284.5	-2,163.9	658.2	2,206.1	0.00	0.00	0.00
14,900.0	90.17	179.58	12,284.2	-2,263.9	658.9	2,305.9	0.00	0.00	0.00
15,000.0	90.17	179.58	12,283.9	-2,363.9	659.6	2,405.7	0.00	0.00	0.00
15,100.0	90.17	179.58	12,283.6	-2,463.9	660.4	2,505.5	0.00	0.00	0.00
15,200.0	90.17	179.58	12,283.3	-2,563.9	661.1	2,605.3	0.00	0.00	0.00
15,300.0	90.17	179.58	12,283.1	-2,663.9	661.8	2,705.0	0.00	0.00	0.00
15,400.0	90.17	179.58	12,282.8	-2,763.9	662.6	2,804.8	0.00	0.00	0.00
15,500.0	90.17	179.58	12,282.5	-2,863.9	663.3	2,904.6	0.00	0.00	0.00
15,600.0	90.17	179.58	12,282.2	-2,963.9	664.0	3,004.4	0.00	0.00	0.00
15,700.0	90.17	179.58	12,281.9	-3,063.9	664.8	3,104.2	0.00	0.00	0.00
15,800.0	90.17	179.58	12,281.6	-3,163.9	665.5	3,204.0	0.00	0.00	0.00
15,900.0	90.17	179.58	12,281.3	-3,263.9	666.2	3,303.7	0.00	0.00	0.00
16,000.0	90.17	179.58	12,281.0	-3,363.9	667.0	3,403.5	0.00	0.00	0.00
16,100.0	90.17	179.58	12,280.7	-3,463.9	667.7	3,503.3	0.00	0.00	0.00
16,200.0	90.17	179.58	12,280.4	-3,563.9	668.4	3,603.1	0.00	0.00	0.00
16,300.0	90.17	179.58	12,280.1	-3,663.9	669.2	3,702.9	0.00	0.00	0.00
16,400.0	90.17	179.58	12,279.8	-3,763.9	669.9	3,802.7	0.00	0.00	0.00
16,500.0	90.17	179.58	12,279.5	-3,863.9	670.6	3,902.5	0.00	0.00	0.00
16,600.0	90.17	179.58	12,279.2	-3,963.9	671.4	4,002.2	0.00	0.00	0.00
16,700.0	90.17	179.58	12,278.9	-4,063.9	672.1	4,102.0	0.00	0.00	0.00
16,800.0	90.17	179.58	12,278.6	-4,163.9	672.8	4,201.8	0.00	0.00	0.00
16,900.0	90.17	179.58	12,278.3	-4,263.9	673.6	4,301.6	0.00	0.00	0.00
17,000.0	90.17	179.58	12,278.0	-4,363.9	674.3	4,401.4	0.00	0.00	0.00
17,100.0	90.17	179.58	12,277.7	-4,463.9	675.0	4,501.2	0.00	0.00	0.00
17,200.0	90.17	179.58	12,277.4	-4,563.9	675.8	4,601.0	0.00	0.00	0.00
17,300.0	90.17	179.58	12,277.1	-4,663.9	676.5	4,700.7	0.00	0.00	0.00
17,400.0	90.17	179.58	12,276.8	-4,763.9	677.2	4,800.5	0.00	0.00	0.00
17,500.0	90.17	179.58	12,276.5	-4,863.9	678.0	4,900.3	0.00	0.00	0.00
17,600.0	90.17	179.58	12,276.3	-4,963.9	678.7	5,000.1	0.00	0.00	0.00
17,700.0	90.17	179.58	12,276.0	-5,063.9	679.4	5,099.9	0.00	0.00	0.00
17,800.0	90.17	179.58	12,275.7	-5,163.8	680.2	5,199.7	0.00	0.00	0.00
17,900.0	90.17	179.58	12,275.4	-5,263.8	680.9	5,299.4	0.00	0.00	0.00
18,000.0	90.17	179.58	12,275.1	-5,363.8	681.6	5,399.2	0.00	0.00	0.00
18,100.0	90.17	179.58	12,274.8	-5,463.8	682.4	5,499.0	0.00	0.00	0.00
18,200.0	90.17	179.58	12,274.5	-5,563.8	683.1	5,598.8	0.00	0.00	0.00
18,300.0	90.17	179.58	12,274.2	-5,663.8	683.8	5,698.6	0.00	0.00	0.00
18,400.0	90.17	179.58	12,273.9	-5,763.8	684.6	5,798.4	0.00	0.00	0.00
18,500.0	90.17	179.58	12,273.6	-5,863.8	685.3	5,898.2	0.00	0.00	0.00
18,600.0	90.17	179.58	12,273.3	-5,963.8	686.0	5,997.9	0.00	0.00	0.00
18,700.0	90.17	179.58	12,273.0	-6,063.8	686.7	6,097.7	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #601H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3550.0usft (HP 642)
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3550.0usft (HP 642)
Site:	Convoy 28 State Com	**North Reference:**	Grid
Well:	#601H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
18,800.0	90.17	179.58	12,272.7	-6,163.8	687.5	6,197.5	0.00	0.00	0.00
18,900.0	90.17	179.58	12,272.4	-6,263.8	688.2	6,297.3	0.00	0.00	0.00
19,000.0	90.17	179.58	12,272.1	-6,363.8	688.9	6,397.1	0.00	0.00	0.00
19,100.0	90.17	179.58	12,271.8	-6,463.8	689.7	6,496.9	0.00	0.00	0.00
19,200.0	90.17	179.58	12,271.5	-6,563.8	690.4	6,596.6	0.00	0.00	0.00
19,300.0	90.17	179.58	12,271.2	-6,663.8	691.1	6,696.4	0.00	0.00	0.00
19,400.0	90.17	179.58	12,270.9	-6,763.8	691.9	6,796.2	0.00	0.00	0.00
19,500.0	90.17	179.58	12,270.6	-6,863.8	692.6	6,896.0	0.00	0.00	0.00
19,600.0	90.17	179.58	12,270.3	-6,963.8	693.3	6,995.8	0.00	0.00	0.00
19,700.0	90.17	179.58	12,270.0	-7,063.8	694.1	7,095.6	0.00	0.00	0.00
19,800.0	90.17	179.58	12,269.7	-7,163.8	694.8	7,195.4	0.00	0.00	0.00
19,900.0	90.17	179.58	12,269.4	-7,263.8	695.5	7,295.1	0.00	0.00	0.00
20,000.0	90.17	179.58	12,269.2	-7,363.8	696.3	7,394.9	0.00	0.00	0.00
20,100.0	90.17	179.58	12,268.9	-7,463.8	697.0	7,494.7	0.00	0.00	0.00
20,200.0	90.17	179.58	12,268.6	-7,563.8	697.7	7,594.5	0.00	0.00	0.00
20,300.0	90.17	179.58	12,268.3	-7,663.8	698.5	7,694.3	0.00	0.00	0.00
20,400.0	90.17	179.58	12,268.0	-7,763.8	699.2	7,794.1	0.00	0.00	0.00
20,500.0	90.17	179.58	12,267.7	-7,863.8	699.9	7,893.9	0.00	0.00	0.00
20,600.0	90.17	179.58	12,267.4	-7,963.8	700.7	7,993.6	0.00	0.00	0.00
20,700.0	90.17	179.58	12,267.1	-8,063.8	701.4	8,093.4	0.00	0.00	0.00
20,800.0	90.17	179.58	12,266.8	-8,163.8	702.1	8,193.2	0.00	0.00	0.00
20,900.0	90.17	179.58	12,266.5	-8,263.8	702.9	8,293.0	0.00	0.00	0.00
21,000.0	90.17	179.58	12,266.2	-8,363.7	703.6	8,392.8	0.00	0.00	0.00
21,100.0	90.17	179.58	12,265.9	-8,463.7	704.3	8,492.6	0.00	0.00	0.00
21,200.0	90.17	179.58	12,265.6	-8,563.7	705.1	8,592.3	0.00	0.00	0.00
21,300.0	90.17	179.58	12,265.3	-8,663.7	705.8	8,692.1	0.00	0.00	0.00
21,400.0	90.17	179.58	12,265.0	-8,763.7	706.5	8,791.9	0.00	0.00	0.00
21,500.0	90.17	179.58	12,264.7	-8,863.7	707.3	8,891.7	0.00	0.00	0.00
21,600.0	90.17	179.58	12,264.4	-8,963.7	708.0	8,991.5	0.00	0.00	0.00
21,700.0	90.17	179.58	12,264.1	-9,063.7	708.7	9,091.3	0.00	0.00	0.00
21,800.0	90.17	179.58	12,263.8	-9,163.7	709.5	9,191.1	0.00	0.00	0.00
21,900.0	90.17	179.58	12,263.5	-9,263.7	710.2	9,290.8	0.00	0.00	0.00
22,000.0	90.17	179.58	12,263.2	-9,363.7	710.9	9,390.6	0.00	0.00	0.00
22,100.0	90.17	179.58	12,262.9	-9,463.7	711.7	9,490.4	0.00	0.00	0.00
22,200.0	90.17	179.58	12,262.6	-9,563.7	712.4	9,590.2	0.00	0.00	0.00
22,300.0	90.17	179.58	12,262.3	-9,663.7	713.1	9,690.0	0.00	0.00	0.00
22,400.0	90.17	179.58	12,262.1	-9,763.7	713.9	9,789.8	0.00	0.00	0.00
22,418.3	90.17	179.58	12,262.0	-9,782.0	714.0	9,808.0	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #601H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3550.0usft (HP 642)
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3550.0usft (HP 642)
Site:	Convoy 28 State Com	**North Reference:**	Grid
Well:	#601H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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(Con 28 ST Com #	0.00	0.00	11,813.5	487.5	602.1	435,773.45	777,282.09	32° 11' 44.585 N	103° 34' 14.079 W
- plan hits target center									
- Polygon									
Point 1			11,813.5	25.0	-75.0	435,798.45	777,207.09		
Point 2			11,813.5	25.0	75.0	435,798.45	777,357.09		
Point 3			11,813.5	-75.0	75.0	435,698.45	777,357.09		
Point 4			11,813.5	-75.0	-75.0	435,698.45	777,207.09		
PBHL(Con 28 ST Com ;	90.00	179.58	12,262.0	-9,782.0	714.0	425,504.00	777,394.00	32° 10' 2.959 N	103° 34' 13.624 W
- plan hits target center									
- Rectangle (sides W60.0 H0.0 D9,991.0)									
FTP(Con 28 ST Com #6	0.00	0.01	12,291.0	210.0	640.0	435,496.00	777,320.00	32° 11' 41.837 N	103° 34' 13.661 W
- plan misses target center by 43.4usft at 12436.9usft MD (12254.5 TVD, 193.7 N, 623.1 E)									
- Point									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,214.0	1,214.0	Rustler		0.00	
1,281.0	1,281.0	Tamarisk Anhydrite		0.00	
1,596.0	1,596.0	Top of Salt		0.00	
4,938.9	4,928.0	Bottom of Salt		0.00	
5,181.3	5,169.0	Lamar		0.00	
5,231.5	5,219.0	Bell Canyon		0.00	
6,198.6	6,169.0	Cherry Canyon		0.00	
7,662.0	7,602.0	Brushy Canyon		0.00	
9,193.1	9,132.0	Bone Spring Lime		0.00	
9,276.1	9,215.0	Leonard A		0.00	
10,180.1	10,119.0	First Bone Spring Sand		0.00	
10,432.1	10,371.0	SBSG Shale		0.00	
10,743.1	10,682.0	SBSG Sand		0.00	
11,370.1	11,309.0	Third Bone Spring Carb		0.00	
11,976.9	11,915.0	Third Bone Spring Sand		0.00	
12,351.6	12,215.0	TBSG LFS		0.00	