

Results of Directional Survey

API number:	30-025-41815		
OGRID:		Operator:	EOG RESOURCES INC
		Property:	OPHELIA 27 # 602H

surface	ULSTR:	H	27	T	26S	R	33E
				2420	FNL	922	FEL

BH Loc	ULSTR:	I	22	T	26S	R	33E
16887	MD	12186.8	TVD	2408	FSL	779	FEL

Top Perf/OH	ULSTR:	H	27	T	26S	R	33E
12391	MD	12172.6	TVD	2081	FNL	718	FEL

Bot Perf/OH	ULSTR:	I	22	T	26S	R	33E
16675	MD	12190.6	TVD	2179	FSL	780	FEL

	MD	N/S	E/W	VD
	12373	321.80	202.00	12167.3
TOP PERFS/OH	12391	338.90	203.91	12172.63
	12421	367.40	207.10	12181.50
	16573	4514.50	141.30	12191.90
BOT PERFS/OH	16675	4598.76	141.92	12190.57
	16688	4609.50	142.00	12190.40

NEXT TO LAST	16789	4730.50	512.74	12188.10
LAST READING	16887	4828.40	143.40	12186.80
TD	16887	4828.40	143.40	12186.80

Surface Location	2420	FN	922	FE
Projected BHL	2408	FS	779	FE
Location of				
Top Perfs/OH	2081	FN	718	FE
Bottom Perfs/OH	2179	FS	780	FE

SUMMARY of Subsurface Locations

Surface Location	H-27-26S-33E	2420	FN	922	FE	Vert. Depth
Top Perfs/OH	H-27-26S-33E	2081	FN	718	FE	12172.63
Bottom Perfs/OH	I-22-26S-33E	2179	FS	780	FE	12190.57
Projected TD	I-22-26S-33E	2408	FS	779	FE	12186.80

NOV 01 2014

T DETAILS: Lea County, NM (NAD 27 NME)

System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
Datum: Mean Sea Level

WELL DETAILS: Ophelia 27 #602H

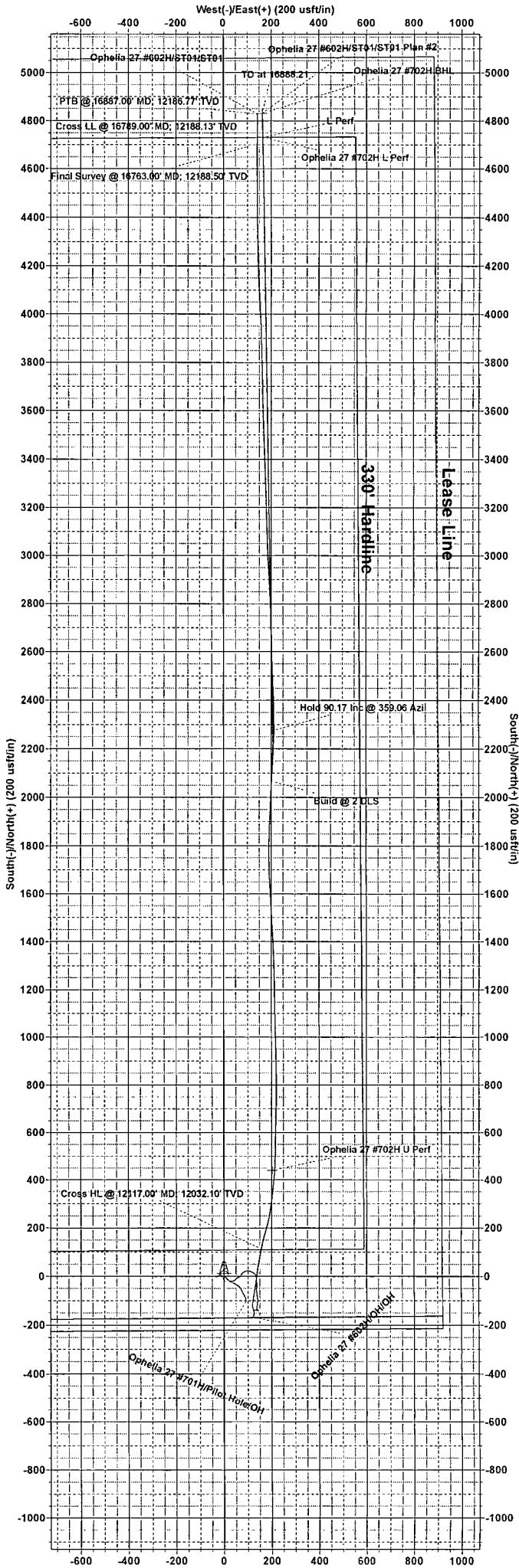
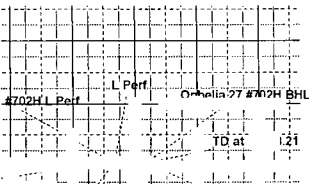
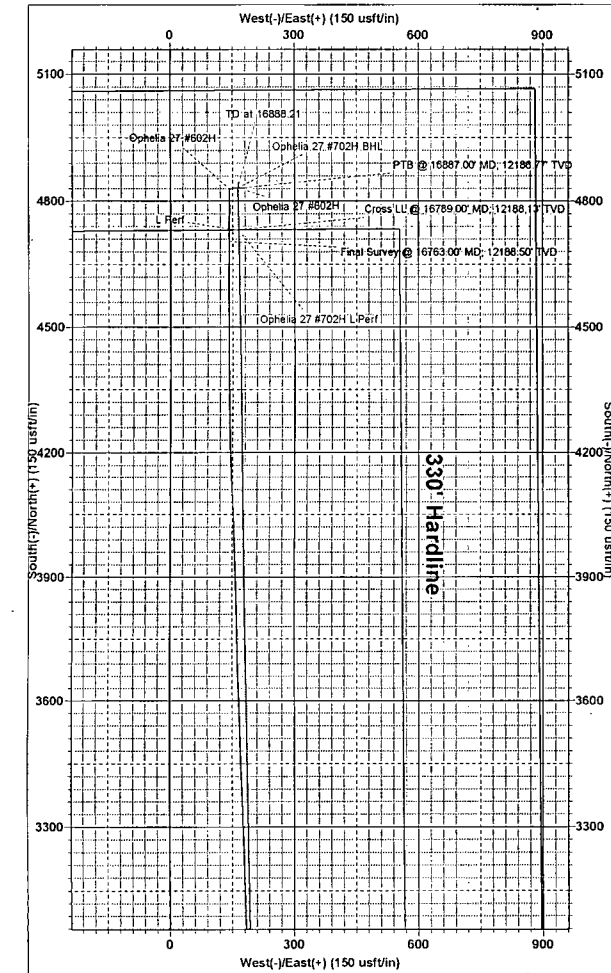
Ground Level: 3293.0
Easting 741515.00 Latitude 32° 0' 53.709 N Longitude 103° 33' 14.845 W

IN DETAILS

Vsect	Target	Annotation
2071.9		Build @ 2 DLS
2281.1		Hold 90.17 Inc @ 359.06 Azi
4833.8	Ophelia 27 #702H BHL	TD at 16888.21

ET DETAILS (MAP CO-ORDINATES)

+N/-S	+E/-W	Northing	Easting	Shape
4831.0	164.0	374856.00	741679.00	Point
4731.0	165.0	374756.00	741680.00	Point
441.0	202.0	370466.00	741717.00	Point





HOBBS OCD

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EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Ophelia 27

Ophelia 27 #602H

ST01

Design: ST01

Standard Survey Report

25 June, 2014



EOG Resources, Inc.
Survey Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well Ophelia 27 #602H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	WELL @ 3318.0usft (3293' GL + 25' KB)
Site:	Ophelia 27	MD Reference:	WELL @ 3318.0usft (3293' GL + 25' KB)
Well:	Ophelia 27 #602H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	EDM 5000.1 Single User Db

Project	Lea County, NM (NAD 27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Ophelia 27			
Site Position:		Northing:	370,025.00 usft	Latitude:	32° 0' 53.711 N
From:	Map	Easting:	741,483.00 usft	Longitude:	103° 33' 15.217 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.41 °

Well	Ophelia 27 #602H					
Well Position	+N/-S	0.0 usft	Northing:	370,025.00 usft	Latitude:	32° 0' 53.709 N
	+E/-W	0.0 usft	Easting:	741,515.00 usft	Longitude:	103° 33' 14.845 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,293.0 usft

Wellbore	ST01				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF201014	5/21/2014	7.20	59.92	48,200

Design	ST01			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 11,201.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	1.94

Survey Program	Date 6/23/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
179.0	11,201.0	Drilltech MWD (OH)	MWD	MWD - Standard
11,284.0	16,887.0	Drilltech MWD (ST01)	MWD	MWD - Standard

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
179.0	0.90	85.60	179.0	0.1	1.4	0.2	0.50	0.50	0.00
243.0	0.50	90.60	243.0	0.1	2.2	0.2	0.63	-0.63	7.81
304.0	0.90	122.60	304.0	-0.1	2.9	0.0	0.89	0.66	52.46
364.0	1.20	130.70	364.0	-0.8	3.7	-0.7	0.56	0.50	13.50
425.0	1.20	123.30	425.0	-1.5	4.7	-1.4	0.25	0.00	-12.13
455.0	1.40	131.10	455.0	-2.0	5.3	-1.8	0.89	0.67	26.00
549.0	2.50	140.90	548.9	-4.3	7.4	-4.1	1.22	1.17	10.43
640.0	2.30	138.30	639.8	-7.2	9.9	-6.9	0.25	-0.22	-2.86
826.0	2.10	132.50	825.7	-12.3	14.9	-11.8	0.16	-0.11	-3.12



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Well:	Ophelia 27 #602H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	EDM 5000.1 Single User Db

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)
941.0	2.50	122.10	940.6	-15.1	18.6	-14.4	0.50	0.35	-9.04
1,035.0	2.30	122.30	1,034.5	-17.2	21.9	-16.4	0.21	-0.21	0.21
1,130.0	2.10	118.90	1,129.4	-19.0	25.0	-18.2	0.25	-0.21	-3.58
1,224.0	3.00	86.80	1,223.3	-19.7	29.0	-18.7	1.76	0.96	-34.15
1,319.0	3.70	81.30	1,318.2	-19.1	34.5	-17.9	0.81	0.74	-5.79
1,414.0	3.20	80.10	1,413.0	-18.2	40.2	-16.8	0.53	-0.53	-1.26
1,508.0	1.20	49.90	1,506.9	-17.1	43.5	-15.6	2.39	-2.13	-32.13
1,603.0	1.10	40.70	1,601.9	-15.8	44.9	-14.2	0.22	-0.11	-9.68
1,697.0	1.10	47.80	1,695.9	-14.5	46.1	-12.9	0.14	0.00	7.55
1,792.0	1.20	40.40	1,790.9	-13.1	47.4	-11.5	0.19	0.11	-7.79
1,886.0	0.50	47.20	1,884.9	-12.1	48.4	-10.4	0.75	-0.74	7.23
1,981.0	0.90	48.30	1,979.9	-11.3	49.2	-9.6	0.42	0.42	1.16
2,076.0	0.90	22.60	2,074.9	-10.1	50.1	-8.4	0.42	0.00	-27.05
2,170.0	0.50	60.20	2,168.8	-9.2	50.7	-7.5	0.63	-0.43	40.00
2,265.0	0.50	12.80	2,263.8	-8.6	51.2	-6.9	0.42	0.00	-49.89
2,359.0	0.70	82.60	2,357.8	-8.1	51.8	-6.4	0.75	0.21	74.26
2,454.0	0.50	84.50	2,452.8	-8.0	52.8	-6.2	0.21	-0.21	2.00
2,548.0	0.90	75.50	2,546.8	-7.8	53.9	-6.0	0.44	0.43	-9.57
2,643.0	0.70	68.00	2,641.8	-7.4	55.2	-5.5	0.24	-0.21	-7.89
2,737.0	1.10	45.30	2,735.8	-6.6	56.4	-4.6	0.56	0.43	-24.15
2,832.0	1.10	76.40	2,830.8	-5.7	57.9	-3.7	0.62	0.00	32.74
2,927.0	1.10	82.90	2,925.8	-5.4	59.7	-3.3	0.13	0.00	6.84
3,021.0	2.10	42.50	3,019.7	-4.0	61.8	-1.9	1.54	1.06	-42.98
3,210.0	2.50	47.90	3,208.6	1.3	67.2	3.6	0.24	0.21	2.86
3,304.0	2.60	44.10	3,302.5	4.2	70.2	6.6	0.21	0.11	-4.04
3,399.0	2.50	36.20	3,397.4	7.5	72.9	9.9	0.38	-0.11	-8.32
3,494.0	2.50	27.00	3,492.3	11.0	75.1	13.5	0.42	0.00	-9.68
3,588.0	2.10	51.30	3,586.2	13.9	77.3	16.5	1.11	-0.43	25.85
3,683.0	2.60	59.50	3,681.2	16.1	80.5	18.8	0.63	0.53	8.63
3,777.0	3.30	66.00	3,775.0	18.2	84.8	21.1	0.82	0.74	6.91
3,872.0	2.80	61.60	3,869.9	20.5	89.4	23.5	0.58	-0.53	-4.63
3,967.0	3.00	72.90	3,964.8	22.3	93.8	25.5	0.64	0.21	11.89
4,061.0	1.10	64.80	4,058.7	23.4	97.0	26.7	2.04	-2.02	-8.62
4,250.0	1.10	115.80	4,247.7	23.4	100.2	26.8	0.50	0.00	26.98
4,440.0	2.50	103.30	4,437.6	21.6	105.9	25.2	0.76	0.74	-6.58
4,534.0	2.30	103.10	4,531.5	20.7	109.8	24.4	0.21	-0.21	-0.21
4,723.0	4.20	116.00	4,720.2	16.8	119.7	20.9	1.07	1.01	6.83
4,818.0	4.60	124.20	4,814.9	13.2	125.9	17.4	0.78	0.42	8.63
4,912.0	3.30	139.50	4,908.7	9.0	130.8	13.4	1.77	-1.38	16.28
5,007.0	2.30	169.60	5,003.6	5.0	132.9	9.5	1.84	-1.05	31.68
5,196.0	1.90	166.00	5,192.4	-1.7	134.4	2.8	0.22	-0.21	-1.90
5,291.0	1.90	173.40	5,287.4	-4.8	134.9	-0.2	0.26	0.00	7.79
5,386.0	1.90	178.50	5,382.3	-8.0	135.2	-3.4	0.18	0.00	5.37



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Design:	ST01	Database:	EDM 5000.1 Single User Db

Survey

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5,575.0	1.80	178.20	5,571.2	-14.1	135.3	-9.5	0.05	-0.05	-0.16
5,669.0	1.80	176.80	5,665.2	-17.0	135.5	-12.4	0.05	0.00	-1.49
5,764.0	1.80	165.30	5,760.2	-19.9	135.9	-15.3	0.38	0.00	-12.11
5,858.0	2.10	172.20	5,854.1	-23.1	136.5	-18.4	0.40	0.32	7.34
5,953.0	2.10	176.90	5,949.0	-26.5	136.9	-21.9	0.18	0.00	4.95
6,047.0	2.10	173.40	6,043.0	-30.0	137.2	-25.3	0.14	0.00	-3.72
6,142.0	1.80	183.10	6,137.9	-33.2	137.3	-28.5	0.47	-0.32	10.21
6,237.0	1.80	180.60	6,232.9	-36.2	137.2	-31.5	0.08	0.00	-2.63
6,331.0	1.80	182.60	6,326.8	-39.1	137.1	-34.4	0.07	0.00	2.13
6,426.0	1.60	186.60	6,421.8	-41.9	136.9	-37.3	0.24	-0.21	4.21
6,615.0	1.80	184.70	6,610.7	-47.5	136.3	-42.9	0.11	0.11	-1.01
6,804.0	1.80	184.30	6,799.6	-53.4	135.9	-48.8	0.01	0.00	-0.21
6,993.0	1.60	173.10	6,988.5	-59.0	136.0	-54.4	0.20	-0.11	-5.93
7,182.0	1.80	175.50	7,177.4	-64.6	136.5	-59.9	0.11	0.11	1.27
7,371.0	1.80	173.10	7,366.3	-70.5	137.1	-65.8	0.04	0.00	-1.27
7,558.0	2.60	171.70	7,553.2	-77.6	138.1	-72.9	0.43	0.43	-0.75
7,743.0	2.60	166.80	7,738.0	-85.8	139.6	-81.1	0.12	0.00	-2.65
7,935.0	2.30	178.40	7,929.8	-93.9	140.7	-89.1	0.30	-0.16	6.04
8,124.0	2.50	182.90	8,118.7	-101.8	140.6	-97.0	0.15	0.11	2.38
8,313.0	3.00	181.20	8,307.5	-110.9	140.3	-106.1	0.27	0.26	-0.90
8,408.0	2.80	192.40	8,402.3	-115.7	139.8	-110.8	0.63	-0.21	11.79
8,502.0	3.00	190.00	8,496.2	-120.3	138.9	-115.5	0.25	0.21	-2.55
8,648.0	2.60	188.20	8,642.0	-127.4	137.7	-122.6	0.28	-0.27	-1.23
8,742.0	1.20	180.50	8,736.0	-130.5	137.4	-125.7	1.51	-1.49	-8.19
8,931.0	0.70	189.60	8,925.0	-133.6	137.2	-128.8	0.28	-0.26	4.81
9,026.0	0.70	199.40	9,020.0	-134.7	136.9	-130.0	0.13	0.00	10.32
9,121.0	0.70	192.60	9,114.9	-135.8	136.6	-131.1	0.09	0.00	-7.16
9,310.0	0.20	200.90	9,303.9	-137.2	136.2	-132.5	0.27	-0.26	4.39
9,499.0	0.40	126.50	9,492.9	-137.9	136.6	-133.2	0.21	0.11	-39.37
9,594.0	0.70	155.50	9,587.9	-138.7	137.1	-133.9	0.42	0.32	30.53
9,688.0	0.90	125.30	9,681.9	-139.6	138.0	-134.9	0.49	0.21	-32.13
9,877.0	1.10	94.20	9,870.9	-140.6	141.0	-135.7	0.30	0.11	-16.46
10,066.0	0.50	8.20	10,059.9	-139.9	142.9	-135.0	0.62	-0.32	-45.50
10,161.0	0.40	1.70	10,154.9	-139.2	143.0	-134.2	0.12	-0.11	-6.84
10,255.0	0.20	338.50	10,248.9	-138.7	142.9	-133.8	0.24	-0.21	-24.68
10,445.0	2.30	272.40	10,438.8	-138.2	139.0	-133.4	1.17	1.11	-34.79
10,539.0	2.60	263.80	10,532.7	-138.4	135.0	-133.7	0.50	0.32	-9.15
10,633.0	1.40	263.60	10,626.7	-138.7	131.7	-134.2	1.28	-1.28	-0.21
10,728.0	1.10	277.70	10,721.7	-138.7	129.7	-134.3	0.45	-0.32	14.84
10,822.0	1.10	263.80	10,815.6	-138.7	127.9	-134.3	0.28	0.00	-14.79
10,917.0	1.10	268.40	10,910.6	-138.8	126.1	-134.5	0.09	0.00	4.84
11,012.0	1.10	282.80	11,005.6	-138.7	124.3	-134.4	0.29	0.00	15.16
11,106.0	0.70	179.10	11,099.6	-139.0	123.4	-134.8	1.53	-0.43	-110.32



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11,201.0	1.10	138.50	11,194.6	-140.3	124.0	-136.0	0.77	0.42	-42.74
11,284.0	0.70	148.60	11,277.6	-141.3	124.8	-137.0	0.52	-0.48	12.17
11,331.0	1.10	349.20	11,324.6	-141.1	124.9	-136.8	3.77	0.85	-339.15
11,379.0	3.20	348.70	11,372.5	-139.4	124.5	-135.1	4.38	4.38	-1.04
11,473.0	3.00	331.60	11,466.4	-134.6	122.8	-130.4	1.00	-0.21	-18.19
11,568.0	2.10	316.90	11,561.3	-131.2	120.5	-127.0	1.16	-0.95	-15.47
11,663.0	9.00	1.50	11,655.8	-122.5	119.5	-118.3	8.05	7.26	46.95
11,709.0	15.30	6.10	11,700.8	-112.8	120.2	-108.7	13.85	13.70	10.00
11,757.0	21.30	9.60	11,746.3	-97.9	122.3	-93.7	12.70	12.50	7.29
11,804.0	25.30	10.10	11,789.5	-79.6	125.5	-75.3	8.52	8.51	1.06
11,852.0	29.90	8.90	11,832.0	-57.7	129.2	-53.3	9.65	9.58	-2.50
11,899.0	35.50	8.70	11,871.6	-32.6	133.1	-28.1	11.92	11.91	-0.43
11,946.0	40.10	7.10	11,908.7	-4.1	137.0	0.6	10.01	9.79	-3.40
11,993.0	42.80	8.20	11,943.9	26.8	141.2	31.5	5.95	5.74	2.34
12,040.0	44.50	11.00	11,977.9	58.7	146.6	63.7	5.48	3.62	5.96
12,087.0	45.60	11.20	12,011.1	91.4	153.0	96.5	2.36	2.34	0.43
12,117.0	45.66	10.95	12,032.1	112.4	157.1	117.7	0.63	0.21	-0.83
Cross HL @ 12117.00' MD; 12032.10' TVD									
12,135.0	45.70	10.80	12,044.7	125.1	159.5	130.4	0.63	0.21	-0.83
12,182.0	50.10	15.10	12,076.2	159.0	167.4	164.6	11.56	9.36	9.15
12,229.0	56.10	16.50	12,104.4	195.2	177.6	201.1	12.99	12.77	2.98
12,276.0	61.80	11.90	12,128.6	234.2	187.4	240.4	14.74	12.13	-9.79
12,326.0	66.70	9.40	12,150.4	278.4	195.7	284.9	10.78	9.80	-5.00
12,373.0	70.90	7.10	12,167.3	321.8	202.0	328.5	10.03	8.94	-4.89
12,421.0	74.80	5.60	12,181.5	367.4	207.1	374.2	8.66	8.13	-3.13
12,468.0	80.60	4.50	12,191.5	413.1	211.1	420.0	12.55	12.34	-2.34
12,516.0	87.10	2.60	12,196.7	460.7	214.1	467.7	14.10	13.54	-3.96
12,610.0	91.30	1.30	12,198.0	554.6	217.3	561.6	4.68	4.47	-1.38
12,705.0	92.40	0.80	12,194.9	649.5	219.0	656.6	1.27	1.16	-0.53
12,799.0	92.60	0.80	12,190.8	743.4	220.3	750.5	0.21	0.21	0.00
12,894.0	91.80	358.90	12,187.1	838.4	220.1	845.3	2.17	-0.84	-2.00
12,989.0	90.80	358.70	12,185.0	933.3	218.1	940.2	1.07	-1.05	-0.21
13,083.0	91.80	359.10	12,182.9	1,027.3	216.3	1,034.0	1.15	1.06	0.43
13,178.0	90.40	358.70	12,181.0	1,122.2	214.5	1,128.9	1.53	-1.47	-0.42
13,272.0	89.60	359.60	12,181.0	1,216.2	213.1	1,222.7	1.28	-0.85	0.96
13,367.0	89.70	358.20	12,181.6	1,311.2	211.2	1,317.6	1.48	0.11	-1.47
13,462.0	87.30	356.60	12,184.1	1,406.1	206.9	1,412.3	3.04	-2.53	-1.68
13,556.0	88.70	356.60	12,187.4	1,499.8	201.4	1,505.8	1.49	1.49	0.00
13,651.0	90.30	357.10	12,188.2	1,594.7	196.1	1,600.4	1.76	1.68	0.53
13,745.0	89.60	357.60	12,188.3	1,688.6	191.8	1,694.1	0.92	-0.74	0.53
13,839.0	90.10	1.30	12,188.5	1,782.6	190.9	1,788.0	3.97	0.53	3.94
13,934.0	88.50	2.40	12,189.7	1,877.5	194.0	1,883.0	2.04	-1.68	1.16
14,029.0	88.20	2.40	12,192.4	1,972.4	197.9	1,978.0	0.32	-0.32	0.00
14,123.0	88.50	2.90	12,195.1	2,066.2	202.3	2,071.9	0.62	0.32	0.53



EOG Resources, Inc.

Survey Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well Ophelia 27 #602H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	WELL @ 3318.0usft (3293' GL + 25' KB)
Site:	Ophelia 27	MD Reference:	WELL @ 3318.0usft (3293' GL + 25' KB)
Well:	Ophelia 27 #602H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	EDM 5000.1 Single User Db

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)	
14,217.0	89.00	3.30	12,197.2	2,160.1	207.4	2,165.9	0.68	0.53	0.43	
14,312.0	88.90	0.50	12,198.9	2,255.0	210.5	2,260.8	2.95	-0.11	-2.95	
14,406.0	88.70	358.90	12,200.9	2,349.0	210.0	2,354.7	1.72	-0.21	-1.70	
14,500.0	89.90	358.40	12,202.1	2,442.9	207.8	2,448.6	1.38	1.28	-0.53	
14,595.0	89.60	357.10	12,202.5	2,537.9	204.1	2,543.3	1.40	-0.32	-1.37	
14,689.0	91.00	358.90	12,202.0	2,631.8	200.8	2,637.1	2.43	1.49	1.91	
14,783.0	91.80	358.50	12,199.7	2,725.7	198.7	2,730.9	0.95	0.85	-0.43	
14,877.0	90.10	357.80	12,198.1	2,819.7	195.6	2,824.7	1.96	-1.81	-0.74	
14,971.0	88.90	356.90	12,198.9	2,913.6	191.3	2,918.4	1.60	-1.28	-0.96	
15,066.0	89.00	357.50	12,200.7	3,008.4	186.6	3,013.0	0.64	0.11	0.63	
15,160.0	90.60	358.00	12,201.0	3,102.4	182.9	3,106.8	1.78	1.70	0.53	
15,254.0	92.00	358.20	12,198.9	3,196.3	179.8	3,200.5	1.50	1.49	0.21	
15,348.0	91.30	358.20	12,196.2	3,290.2	176.9	3,294.3	0.74	-0.74	0.00	
15,442.0	89.00	358.00	12,195.9	3,384.1	173.8	3,388.1	2.46	-2.45	-0.21	
15,536.0	89.60	357.80	12,197.1	3,478.1	170.3	3,481.8	0.67	0.64	-0.21	
15,631.0	90.10	358.00	12,197.3	3,573.0	166.8	3,576.6	0.57	0.53	0.21	
15,724.0	91.00	358.70	12,196.4	3,666.0	164.2	3,669.4	1.23	0.97	0.75	
15,819.0	91.70	359.10	12,194.2	3,760.9	162.3	3,764.3	0.85	0.74	0.42	
15,913.0	89.70	358.20	12,193.0	3,854.9	160.1	3,858.1	2.33	-2.13	-0.96	
16,007.0	89.70	358.20	12,193.5	3,948.8	157.2	3,951.9	0.00	0.00	0.00	
16,101.0	89.90	357.30	12,193.9	4,042.8	153.5	4,045.6	0.98	0.21	-0.96	
16,195.0	89.90	356.90	12,194.0	4,136.6	148.7	4,139.3	0.43	0.00	-0.43	
16,290.0	89.90	358.40	12,194.2	4,231.6	144.8	4,234.0	1.58	0.00	1.58	
16,384.0	91.70	359.10	12,192.9	4,325.5	142.8	4,327.9	2.05	1.91	0.74	
16,478.0	89.60	359.40	12,191.8	4,419.5	141.6	4,421.8	2.26	-2.23	0.32	
16,573.0	90.30	0.30	12,191.9	4,514.5	141.3	4,516.7	1.20	0.74	0.95	
16,668.0	91.50	0.60	12,190.4	4,609.5	142.0	4,611.6	1.30	1.26	0.32	
16,763.0	90.80	0.30	12,188.5	4,704.5	142.8	4,706.6	0.80	-0.74	-0.32	
Final Survey @ 16763.00' MD; 12188.50' TVD										
16,789.0	90.80	0.30	12,188.1	4,730.5	142.9	4,732.6	0.00	0.00	0.00	
Cross LL @ 16789.00' MD; 12188.13' TVD										
16,887.0	90.80	0.30	12,186.8	4,828.4	143.4	4,830.5	0.00	0.00	0.00	
PTB @ 16887.00' MD; 12186.77' TVD										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,117.0	12,032.1	112.4	157.1	Cross HL @ 12117.00' MD; 12032.10' TVD
16,763.0	12,188.5	4,704.5	142.8	Final Survey @ 16763.00' MD; 12188.50' TVD
16,789.0	12,188.1	4,730.5	142.9	Cross LL @ 16789.00' MD; 12188.13' TVD
16,887.0	12,186.8	4,828.4	143.4	PTB @ 16887.00' MD; 12186.77' TVD



EOG Resources, Inc.

Survey Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well Ophelia 27 #602H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	WELL @ 3318.0usft (3293' GL + 25' KB)
Site:	Ophelia 27	MD Reference:	WELL @ 3318.0usft (3293' GL + 25' KB)
Well:	Ophelia 27 #602H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	EDM 5000.1 Single User Db

Checked By: _____	Approved By: _____	Date: _____
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