

Lea County, NM (NAD 27 NME)
Opheila 27 #503H
H&P 620
Plan #2

PROJECT DETAILS: Lea County, NM (NAD 27 NME)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: #503H
KB = 25' @ 2291' Surf (H&P 620)
Easting 739235.00
Latitude 32° 0' 53.73" N
Longitude 103° 33' 41.315" W
3266.0

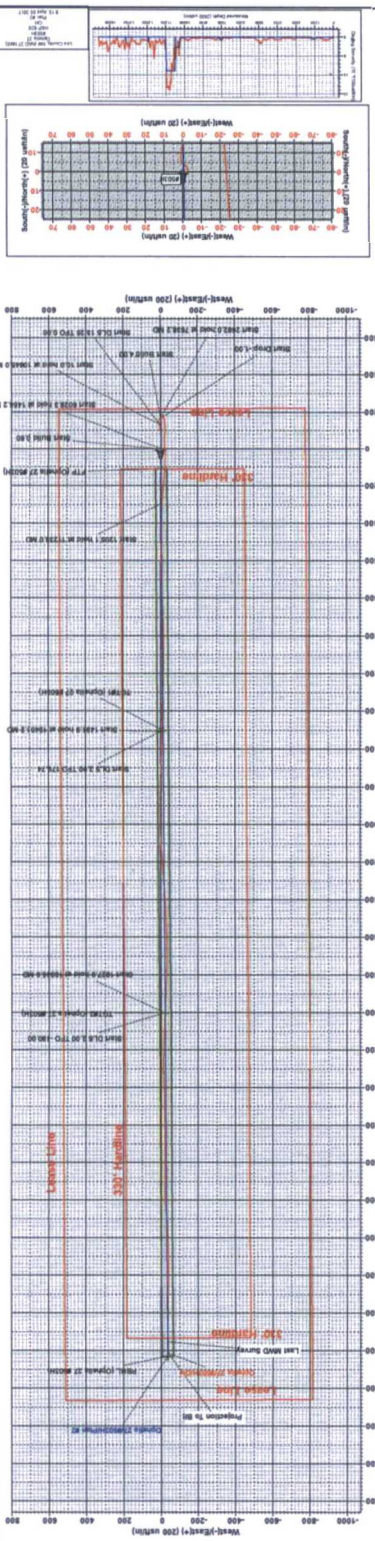
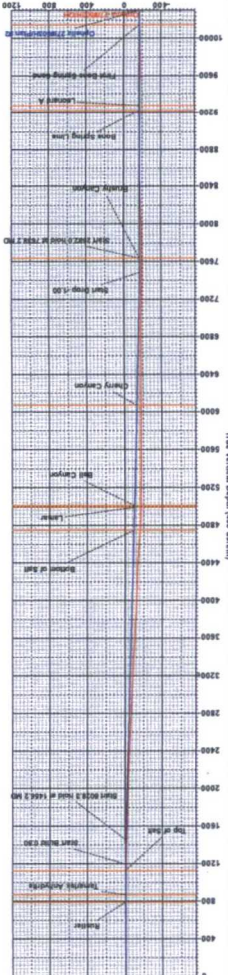
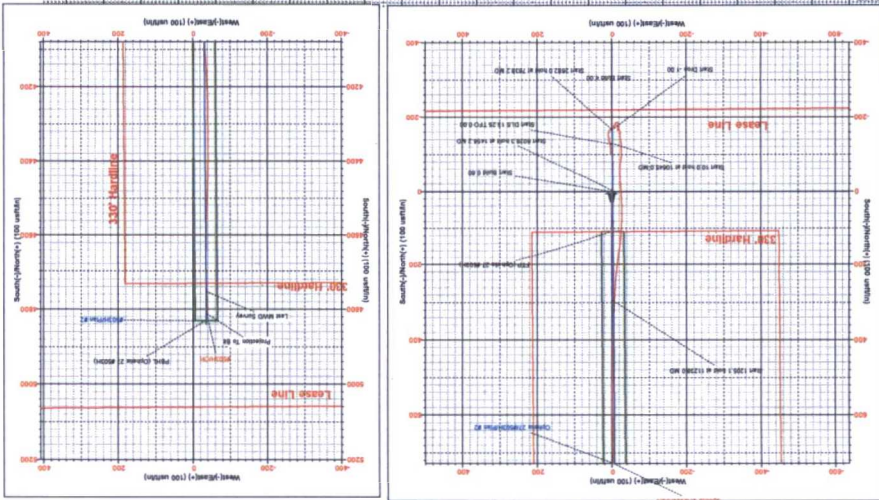
Section Details
To convert a Magnetic Declination to a Grid Declination, Add 0.55°
To convert a True Declination to a Grid Declination, Add 0.55° East
Magnetic Field
Strength: 47.641 Gauss
Date: 3/20/2017
Dip Angle: 68.87°
Azimuths to Grid North
True North: 0.41°
Magnetic North: 0.55°

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Diag	TFace	Vsect	Target
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	1200.0	0.0	0.0	1200.0	0.0	0.0	0.0	0.0	0.0	
3	1456.2	1.54	179.69	1456.2	-3.4	0.0	0.60	179.69	-3.4	
4	7484.5	1.54	179.69	7482.3	-165.2	0.9	1.00	180.00	-167.2	
5	7638.2	0.0	0.0	7636.0	-167.2	0.9	1.00	180.00	-167.2	
6	10320.2	0.0	0.0	10318.0	-167.2	0.9	1.00	180.00	-167.2	
7	10645.0	13.00	359.60	10640.0	-130.5	0.7	4.00	359.60	-130.5	
8	10655.0	13.00	359.60	10649.7	-128.3	0.6	0.00	0.00	-128.3	
9	11238.0	90.24	359.60	10985.0	294.9	-2.3	13.25	0.00	294.9	
10	12443.2	90.24	359.60	10980.0	1500.0	-10.8	0.00	0.00	1500.0	TGT#1 (Opheila 27 #503H)
11	12451.2	90.08	359.60	10980.0	1508.0	-10.8	2.00	179.74	1508.0	TGT#2 (Opheila 27 #503H)
12	13943.3	90.03	359.60	10978.0	2999.9	-21.2	2.00	-180.00	3002.2	PBHL (Opheila 27 #503H)
13	13945.3	90.03	359.60	10978.0	3002.1	-21.2	2.00	-180.00	3002.2	
14	15773.2	90.03	359.60	10977.0	4830.0	-34.0	0.00	0.00	4830.0	

TVD	MD	Name	Size
10640.0	10645.0	7 5/8"	7-5/8"

Name	MD	Size
PBHL (Opheila 27 #503H)	10977.0	4830.0
TGT#1 (Opheila 27 #503H)	10978.0	2999.9
TGT#2 (Opheila 27 #503H)	10978.0	2999.9
FTP (Opheila 27 #503H)	10985.0	109.0
	109.0	109.0
	-1.0	370119.00
	-10.8	371510.00
	-21.2	373008.00
	-34.0	374840.00
	+E-W	739235.00
	+N-S	739235.00





HOBBS OCD

MAY 18 2017

RECEIVED

EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Ophelia 27

#503H

OH

Design: OH

PVA

05 April, 2017



EOG Resources, Inc.

PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #503H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25' @ 3291.0usft (H&P 620)
Site:	Ophelia 27	MD Reference:	KB = 25' @ 3291.0usft (H&P 620)
Well:	#503H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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
From:	Map	Easting:	741,483.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 0' 53.711 N
		Longitude:	103° 33' 15.217 W
		Grid Convergence:	0.41 °

Well	#503H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 0' 53.723 N
		Longitude:	103° 33' 41.315 W
		Ground Level:	3,266.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	3/20/2017	6.96
			Dip Angle (°)
			59.87
			Field Strength (nT)
			47,841

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
		Direction (°)	359.60



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Site:	Ophelia 27	MD Reference:	KB = 25' @ 3291.0usft (H&P 620)
Well:	#503H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey Program		Date 4/5/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
182.0	931.0	Gyro (OH)	CT_GYRO_MS	Continuous Gyro Multishot
1,052.0	15,783.0	Intrepid MWD (OH)	MWD	MWD - Standard

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	
182.0	0.70	285.10	182.0	0.3	-1.1	0.38	0.38	0.00	-1.1	0.0	
296.0	0.80	211.70	296.0	-0.2	-2.2	0.79	0.09	-64.39	-1.3	-1.7	
383.0	0.30	305.10	383.0	-0.6	-2.7	1.00	-0.57	107.36	-1.8	2.0	
476.0	0.90	155.40	476.0	-1.1	-2.6	1.26	0.65	-160.97	0.1	-2.8	
570.0	0.40	228.60	570.0	-2.0	-2.5	0.93	-0.53	77.87	-3.2	-0.2	
664.0	1.10	124.20	664.0	-2.7	-2.0	1.34	0.74	-111.06	0.1	-3.4	
756.0	1.00	141.60	756.0	-3.9	-0.8	0.36	-0.11	18.91	-2.5	-3.0	
869.0	0.50	98.30	868.9	-4.7	0.3	0.64	-0.44	-38.32	-1.0	-4.6	
931.0	0.40	102.70	930.9	-4.8	0.8	0.17	-0.16	7.10	-1.8	-4.5	
1,052.0	0.30	190.10	1,051.9	-5.2	1.2	0.40	-0.08	72.23	-4.9	2.1	
1,145.0	0.40	180.30	1,144.9	-5.8	1.1	0.12	0.11	-10.54	-5.7	1.1	
1,329.0	2.00	182.20	1,328.9	-9.6	1.0	0.87	0.87	1.03	-8.7	1.3	
1,517.0	2.10	193.00	1,516.8	-16.2	0.1	0.21	0.05	5.74	-10.9	2.6	
1,705.0	1.60	180.00	1,704.7	-22.2	-0.7	0.35	-0.27	-6.91	-12.1	-0.7	
1,893.0	1.30	178.10	1,892.6	-27.0	-0.6	0.16	-0.16	-1.01	-11.8	-1.1	
2,082.0	2.00	181.50	2,081.5	-32.4	-0.6	0.37	0.37	1.80	-12.2	-0.4	
2,269.0	1.90	178.10	2,268.4	-38.8	-0.6	0.08	-0.05	-1.82	-13.5	-1.2	
2,457.0	1.90	170.80	2,456.3	-45.0	0.0	0.13	0.00	-3.88	-14.5	-2.5	
2,645.0	3.50	192.80	2,644.1	-53.6	-0.8	1.00	0.85	11.70	-18.1	3.1	
2,832.0	2.80	180.60	2,830.8	-63.8	-2.1	0.52	-0.37	-6.52	-23.5	-2.1	



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Ophelia 27
Well: #503H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #503H
TVD Reference: KB = 25' @ 3291.0usft (H&P 620)
MD Reference: KB = 25' @ 3291.0usft (H&P 620)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
3,020.0	2.50	174.90	3,018.6	-72.4	-1.8	0.21	-0.16	-3.03	-26.8	-4.4
3,207.0	3.20	178.70	3,205.4	-81.7	-1.3	0.39	0.37	2.03	-31.3	-2.3
3,395.0	2.70	180.40	3,393.2	-91.4	-1.2	0.27	-0.27	0.90	-36.0	-1.3
3,581.0	2.90	142.60	3,578.9	-99.5	1.6	0.98	0.11	-20.32	-31.9	-22.7
3,768.0	3.50	178.40	3,765.7	-109.0	4.6	1.09	0.32	19.14	-43.7	3.1
3,956.0	1.80	179.10	3,953.5	-117.7	4.9	0.90	-0.90	0.37	-47.3	3.7
4,143.0	1.80	185.10	4,140.4	-123.5	4.6	0.10	0.00	3.21	-47.5	8.5
4,330.0	1.90	154.80	4,327.3	-129.3	5.7	0.52	0.05	-16.20	-46.4	-16.0
4,518.0	4.10	170.60	4,515.0	-136.7	8.1	1.24	1.17	8.40	-53.7	-1.1
4,706.0	5.30	168.80	4,702.4	-153.9	10.9	0.64	0.64	-0.96	-64.1	-2.1
4,893.0	3.20	236.00	4,888.9	-165.3	8.3	2.68	-1.12	35.94	-32.6	62.1
5,081.0	1.10	271.10	5,076.8	-168.2	2.1	1.27	-1.12	18.67	2.8	67.5
5,269.0	0.70	174.40	5,264.8	-169.3	0.4	0.73	-0.21	-51.44	-63.3	-6.4
5,457.0	0.80	174.90	5,452.8	-171.7	0.6	0.05	0.05	0.27	-60.8	-5.4
5,644.0	0.50	255.00	5,639.8	-173.2	0.0	0.46	-0.16	42.83	-15.5	55.4
5,832.0	0.30	19.00	5,827.8	-173.0	-0.7	0.38	-0.11	65.96	49.8	-15.8
6,020.0	0.20	281.20	6,015.8	-172.5	-0.8	0.20	-0.05	-52.02	7.6	46.0
6,208.0	0.60	237.30	6,203.8	-172.9	-2.0	0.25	0.21	-23.35	-25.0	33.9
6,395.0	0.40	219.00	6,390.8	-174.0	-3.2	0.14	-0.11	-9.79	-32.1	20.9
6,583.0	0.30	197.20	6,578.8	-174.9	-3.8	0.09	-0.05	-11.60	-33.8	5.7
6,771.0	0.30	241.00	6,766.8	-175.6	-4.3	0.12	0.00	23.30	-18.9	23.5
6,958.0	1.20	241.60	6,953.7	-176.8	-6.5	0.48	0.48	0.32	-18.7	19.2
7,146.0	1.00	196.00	7,141.7	-179.3	-8.7	0.46	-0.11	-24.26	-25.0	-2.7
7,333.0	1.20	177.30	7,328.7	-182.9	-9.0	0.22	0.11	-10.00	-21.3	-10.9
7,521.0	0.60	235.50	7,516.6	-185.4	-9.8	0.54	-0.32	30.96	-19.8	9.9
7,709.0	0.80	219.80	7,704.6	-186.9	-11.4	0.15	0.11	-8.35	-23.0	3.2
7,896.0	1.90	315.30	7,891.6	-185.7	-14.4	1.14	0.59	51.07	2.4	23.9



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PVA

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Well:	#503H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
8,083.0	2.30	344.70	8,078.5	-179.9	-17.6	0.61	0.21	15.72	7.4	21.2	
8,270.0	2.00	9.40	8,265.3	-173.1	-18.1	0.52	-0.16	13.21	8.9	17.8	
8,458.0	1.40	18.90	8,453.3	-167.7	-16.8	0.35	-0.32	5.05	6.2	16.6	
8,645.0	0.40	65.20	8,640.2	-165.2	-15.4	0.62	-0.53	24.76	14.0	8.7	
8,832.0	0.20	53.90	8,827.2	-164.8	-14.6	0.11	-0.11	-6.04	11.1	11.1	
9,018.0	1.10	204.30	9,013.2	-166.2	-15.1	0.69	0.48	80.86	-5.6	-15.0	
9,206.0	0.10	213.80	9,201.2	-168.0	-15.9	0.53	-0.53	5.05	-10.0	-13.5	
9,393.0	0.80	175.40	9,388.2	-169.4	-15.9	0.39	0.37	-20.53	-0.8	-16.9	
9,582.0	1.90	160.10	9,577.2	-173.7	-14.7	0.61	0.58	-8.10	-0.8	-16.9	
9,769.0	1.10	352.20	9,764.1	-174.8	-13.9	1.60	-0.43	-89.79	5.5	15.7	
9,957.0	2.20	322.60	9,952.0	-170.2	-16.3	0.72	0.59	-15.74	-8.1	15.5	
10,145.0	1.60	341.20	10,139.9	-164.8	-19.4	0.45	-0.32	9.89	-8.8	18.4	
10,239.0	1.80	346.30	10,233.9	-162.1	-20.1	0.27	0.21	5.43	-9.9	19.2	
10,332.0	3.30	346.20	10,326.8	-158.1	-21.1	1.61	1.61	-0.11	-14.1	19.2	
10,379.0	6.40	3.60	10,373.6	-154.2	-21.3	7.23	6.60	37.02	-10.5	22.9	
10,426.0	7.10	358.10	10,420.3	-148.7	-21.2	2.03	1.49	-11.70	-15.6	21.6	
10,472.0	6.70	352.00	10,466.0	-143.2	-21.7	1.81	-0.87	-13.26	-19.2	20.1	
10,520.0	8.40	351.60	10,513.6	-136.9	-22.6	3.54	3.54	-0.83	-19.9	20.7	
10,566.0	10.30	350.60	10,558.9	-129.6	-23.7	4.15	4.13	-2.17	-20.7	21.5	
10,612.0	14.20	353.00	10,603.9	-119.9	-25.1	8.55	8.48	5.22	-21.0	23.5	
10,725.0	14.60	11.60	10,713.4	-92.2	-23.9	4.09	0.35	16.46	-9.8	26.9	
10,771.0	20.40	8.70	10,757.3	-78.6	-21.5	12.75	12.61	-6.30	-4.9	22.8	
10,819.0	25.40	1.10	10,801.5	-60.0	-20.1	12.08	10.42	-15.83	-0.1	20.3	
10,868.0	29.80	356.40	10,844.9	-37.3	-20.6	10.01	8.98	-9.59	7.5	21.1	
10,915.0	37.90	355.90	10,883.9	-11.2	-22.4	17.24	17.23	-1.06	16.1	23.2	
10,945.0	43.50	355.80	10,906.6	8.3	-23.8	18.67	18.67	-0.33	20.7	24.6	
10,978.0	49.10	357.50	10,929.4	32.1	-25.2	17.37	16.97	5.15	25.3	25.4	



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11,008.0	55.00	359.60	10,947.9	55.7	-25.8	20.42	19.67	7.00	28.6	25.2
11,040.0	61.00	3.10	10,964.8	82.9	-25.1	20.91	18.75	10.94	31.0	23.4
11,072.0	66.90	5.20	10,978.9	111.5	-23.0	19.36	18.44	6.56	31.8	20.7
11,101.0	72.60	6.40	10,988.9	138.6	-20.3	20.03	19.66	4.14	31.2	17.8
11,134.0	79.10	6.90	10,997.0	170.3	-16.6	19.75	19.70	1.52	29.1	14.1
11,195.0	91.30	5.90	11,002.0	230.6	-9.8	20.07	20.00	-1.64	21.5	7.7
11,289.0	93.00	1.40	10,998.5	324.3	-3.8	5.11	1.81	-4.79	13.7	1.3
11,383.0	93.80	0.80	10,992.9	418.2	-2.0	1.06	0.85	-0.64	8.5	-1.2
11,476.0	95.60	0.70	10,985.3	510.8	-0.8	1.94	1.94	-0.11	1.3	-3.0
11,570.0	93.30	359.10	10,978.0	604.5	-1.0	2.98	-2.45	-1.70	-5.7	-3.5
11,665.0	93.90	358.60	10,972.1	699.3	-2.9	0.82	0.63	-0.53	-11.2	-2.3
11,759.0	92.10	358.20	10,967.1	793.2	-5.5	1.96	-1.91	-0.43	-15.8	-0.3
11,853.0	89.90	357.80	10,965.5	887.1	-8.8	2.38	-2.34	-0.43	-17.0	2.3
11,947.0	89.00	357.20	10,966.4	981.0	-12.9	1.15	-0.96	-0.64	-15.7	5.8
12,042.0	96.00	0.60	10,962.3	1,075.8	-14.7	8.19	7.37	3.58	-19.5	7.0
12,136.0	94.30	1.00	10,953.8	1,169.4	-13.4	1.86	-1.81	0.43	-27.5	5.0
12,230.0	92.60	1.80	10,948.2	1,263.2	-11.1	2.00	-1.81	0.85	-32.8	2.0
12,325.0	88.70	1.60	10,947.1	1,358.1	-8.3	4.11	-4.11	-0.21	-33.5	-1.5
12,418.0	88.70	1.50	10,949.2	1,451.1	-5.8	0.11	0.00	-0.11	-31.0	-4.6
12,512.0	89.60	1.00	10,950.6	1,545.1	-3.7	1.10	0.96	-0.53	-29.3	-7.3
12,606.0	88.30	1.60	10,952.3	1,639.0	-1.6	1.52	-1.38	0.64	-27.5	-10.1
12,699.0	89.30	1.50	10,954.3	1,732.0	0.9	1.08	1.08	-0.11	-25.4	-13.3
12,793.0	89.80	0.30	10,955.0	1,825.9	2.4	1.38	0.53	-1.28	-24.6	-15.4
12,887.0	90.70	0.50	10,954.6	1,919.9	3.0	0.98	0.96	0.21	-24.8	-16.7
12,981.0	89.20	358.80	10,954.7	2,013.9	2.5	2.41	-1.60	-1.81	-24.6	-16.8
13,075.0	91.20	356.70	10,954.4	2,107.8	-1.2	3.09	2.13	-2.23	-24.8	-13.8
13,169.0	92.70	354.80	10,951.2	2,201.5	-8.2	2.57	1.60	-2.02	-27.9	-7.4



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Ophelia 27
Well: #503H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #503H
TVD Reference: KB = 25' @ 3291.0usft (H&P 620)
MD Reference: KB = 25' @ 3291.0usft (H&P 620)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
13,263.0	90.50	356.40	10,948.5	2,295.2	-15.4	2.89	-2.34	1.70	-30.4	-0.9	
13,357.0	89.10	356.40	10,948.9	2,389.0	-21.3	1.49	-1.49	0.00	-30.0	4.3	
13,450.0	90.10	357.80	10,949.5	2,481.9	-26.0	1.85	1.08	1.51	-29.2	8.4	
13,544.0	89.60	358.00	10,949.8	2,575.8	-29.4	0.57	-0.53	0.21	-28.8	11.2	
13,638.0	90.20	359.90	10,949.9	2,669.8	-31.2	2.12	0.64	2.02	-28.5	12.2	
13,732.0	93.90	2.40	10,946.6	2,763.7	-29.3	4.75	3.94	2.66	-31.8	9.7	
13,826.0	91.40	1.90	10,942.2	2,857.5	-25.8	2.71	-2.66	-0.53	-36.0	5.5	
13,920.0	93.60	2.10	10,938.1	2,951.4	-22.5	2.35	2.34	0.21	-40.0	1.6	
14,014.0	89.00	2.70	10,936.0	3,045.2	-18.5	4.94	-4.89	0.64	-42.0	-3.0	
14,107.0	89.70	1.90	10,937.0	3,138.2	-14.8	1.14	0.75	-0.86	-40.9	-7.4	
14,201.0	90.80	0.30	10,936.6	3,232.1	-13.0	2.07	1.17	-1.70	-41.3	-9.8	
14,295.0	87.80	359.00	10,937.8	3,326.1	-13.6	3.48	-3.19	-1.38	-40.1	-9.9	
14,389.0	91.50	357.90	10,938.3	3,420.1	-16.1	4.11	3.94	-1.17	-39.4	-8.0	
14,482.0	91.60	359.30	10,935.8	3,513.0	-18.4	1.51	0.11	1.51	-41.9	-6.4	
14,576.0	91.60	359.80	10,933.2	3,607.0	-19.1	0.53	0.00	0.53	-44.5	-6.3	
14,670.0	89.20	359.00	10,932.5	3,700.9	-20.1	2.69	-2.55	-0.85	-45.1	-6.0	
14,764.0	89.80	0.10	10,933.4	3,794.9	-20.9	1.33	0.64	1.17	-44.2	-5.9	
14,858.0	87.40	0.00	10,935.7	3,888.9	-20.8	2.56	-2.55	-0.11	-41.9	-6.7	
14,952.0	87.20	357.67	10,940.1	3,982.8	-22.7	2.49	-0.21	-2.48	-37.4	-5.4	
15,046.0	89.50	354.60	10,942.8	4,076.5	-29.0	4.08	2.45	-3.27	-34.6	0.3	
15,140.0	94.20	357.30	10,939.8	4,170.2	-35.7	5.77	5.00	2.87	-37.6	6.3	
15,234.0	93.90	358.90	10,933.1	4,263.9	-38.8	1.73	-0.32	1.70	-44.2	8.7	
15,327.0	91.60	0.10	10,928.7	4,356.8	-39.6	2.79	-2.47	1.29	-48.6	8.9	
15,421.0	91.60	2.30	10,926.0	4,450.7	-37.6	2.34	0.00	2.34	-51.2	6.2	
15,515.0	88.60	1.50	10,925.9	4,544.6	-34.5	3.30	-3.19	-0.85	-51.3	2.5	
15,609.0	87.10	0.60	10,929.4	4,638.6	-32.8	1.86	-1.60	-0.96	-47.7	0.1	
15,703.0	86.10	358.20	10,935.0	4,732.4	-33.7	2.76	-1.06	-2.55	-42.1	0.4	



EOG Resources, Inc.

PVA

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Local Co-ordinate Reference: Well #503H
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 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
15,723.0	86.50	357.60	10,936.3	4,752.3	-34.5	3.60	2.00	-3.00	-40.8	1.0
Last MWD Survey										
15,783.0	86.50	357.60	10,939.9	4,812.2	-37.0	0.00	0.00	0.00	-37.1	3.1
Projection To Bit										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
15,723.0	10,936.3	4,752.3	-34.5	Last MWD Survey	
15,783.0	10,939.9	4,812.2	-37.0	Projection To Bit	

Checked By: _____ Approved By: _____ Date: _____