

MAY 15 2017

RECEIVED

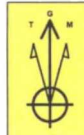


Lea County, NM (NAD 27 NME)

Neptune 10 State Com #701H

H&P 642

Plan #2



Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.61°

Magnetic Field
Strength: 47998.2nT
Dip Angle: 60.07°
Date: 11/17/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.61°
To convert a Magnetic Direction to a True Direction, Add 7.01° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

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: #701H

Ground Level: 3616.0
KB = 25' @ 3641.0usft (H&P 642)
Northing 446780.00 Easting 736977.00 Latitude 32° 13' 33.571 N Longitude 103° 34' 1.210 W

SECTION DETAILS

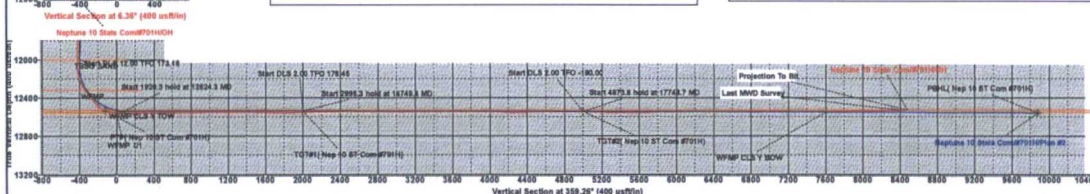
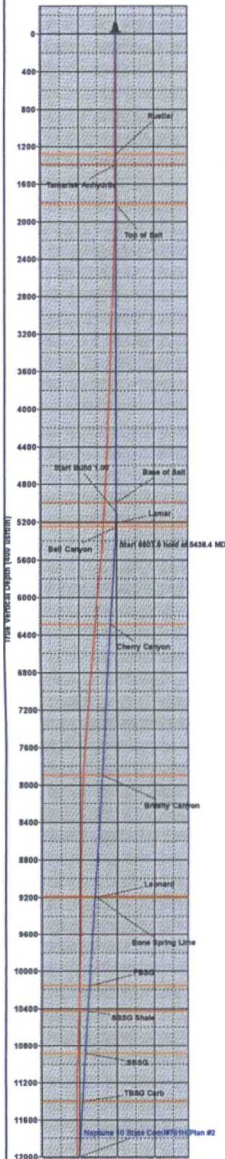
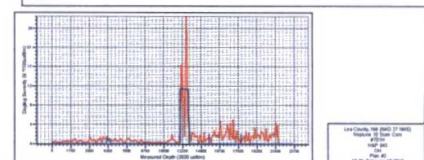
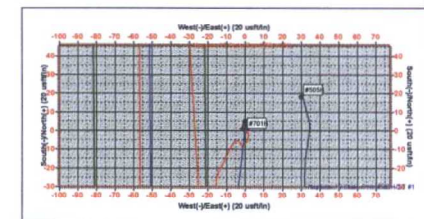
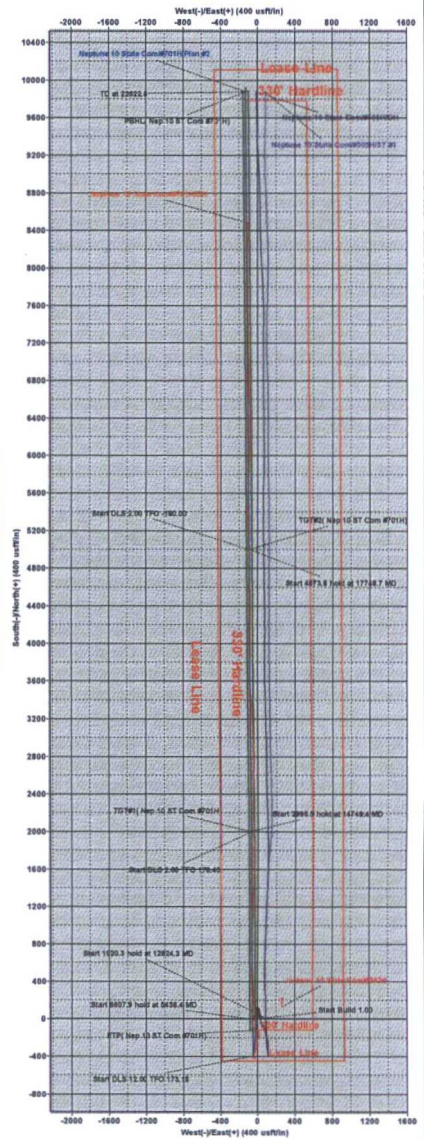
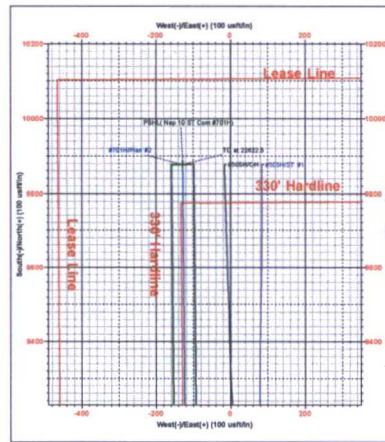
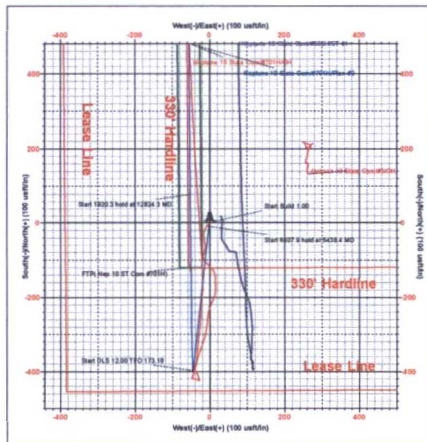
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5100.0	0.00	0.00	5100.0	0.0	0.0	0.00	0.00	0.0	
3	5438.4	3.38	186.36	5438.2	-9.9	-1.1	1.00	186.36	-9.9	
4	12046.3	3.38	186.36	12034.6	-397.6	-44.3	0.00	0.00	-396.9	
5	12824.3	90.00	359.55	12540.0	79.1	-51.6	12.00	173.18	79.7	
6	14744.6	90.00	359.55	12540.0	1999.3	-66.5	0.00	0.00	2000.0	TGT#1(Nep 10 ST Com #701H)
7	14749.4	89.90	359.56	12540.0	2004.1	-66.5	2.00	176.45	2004.8	
8	17744.7	89.90	359.56	12545.0	4999.3	-89.5	0.00	0.00	5000.0	TGT#2(Nep 10 ST Com #701H)
9	17748.7	89.82	359.56	12545.0	5003.3	-89.6	2.00	-180.00	5004.1	
10	22622.5	89.82	359.56	12560.0	9877.0	-127.0	0.00	0.00	9877.8	PBHL(Nep 10 ST Com #701H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP(Nep 10 ST Com #701H)	12540.0	-121.0	-80.0	446889.00	736927.00
TGT#1(Nep 10 ST Com #701H)	12540.0	1999.3	-48.5	446779.30	736910.80
TGT#2(Nep 10 ST Com #701H)	12545.0	4999.3	-89.5	451779.30	736887.48
PBHL(Nep 10 ST Com #701H)	12560.0	9877.0	-127.0	456667.00	736950.00





HOBBS OCD
MAY 15 2017
RECEIVED

EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Neptune 10 State Com

#701H

OH

Design: OH

PVA

16 February, 2017



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Neptune 10 State Com
 Well: #701H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25' @ 3641.0usft (H&P 642)
 MD Reference: KB = 25' @ 3641.0usft (H&P 642)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

Project Lea County, NM (NAD 27 NME)

Map System: US State Plane 1927 (Exact solution)
 Geo Datum: NAD 1927 (NADCON CONUS)
 Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site Neptune 10 State Com

Site Position:		Northing:	446,603.00 usft	Latitude:	32° 13' 31.549 N
From: Map		Easting:	740,781.00 usft	Longitude:	103° 33' 16.943 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.42 °

Well #701H

Well Position	+N/-S	0.0 usft	Northing:	446,780.00 usft	Latitude:	32° 13' 33.571 N
	+E/-W	0.0 usft	Easting:	736,977.00 usft	Longitude:	103° 34' 1.210 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,616.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/17/2016	7.01	60.07	47,998

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)	Direction (°)
	0.0	0.0	0.0	359.26

Survey Program Date 2/16/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
169.0	21,274.0	Intrp MWD #1 (OH)	MWD	MWD - Standard



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Neptune 10 State Com
 Well: #701H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25' @ 3641.0usft (H&P 642)
 MD Reference: KB = 25' @ 3641.0usft (H&P 642)
 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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	
169.0	0.60	117.10	169.0	-0.4	0.8	0.36	0.36	0.00	-0.9	0.0	
284.0	0.70	154.00	284.0	-1.3	1.6	0.37	0.09	32.09	-1.9	0.9	
458.0	0.80	191.80	458.0	-3.5	1.8	0.28	0.06	21.72	-3.0	2.5	
583.0	0.50	188.50	583.0	-4.8	1.6	0.24	-0.24	-2.64	-4.6	2.3	
768.0	0.40	204.80	768.0	-6.2	1.2	0.09	-0.05	8.81	-5.2	3.7	
952.0	0.90	238.50	952.0	-7.6	-0.3	0.33	0.27	18.32	-4.2	6.3	
1,142.0	0.20	178.10	1,141.9	-8.7	-1.6	0.43	-0.37	-31.79	-8.6	-1.8	
1,236.0	0.40	94.70	1,235.9	-8.9	-1.2	0.45	0.21	-88.72	0.5	-8.9	
1,349.0	0.10	241.50	1,348.9	-9.0	-0.9	0.43	-0.27	129.91	-5.1	7.4	
1,420.0	0.30	241.90	1,419.9	-9.1	-1.1	0.28	0.28	0.56	-5.3	7.5	
1,607.0	0.90	338.70	1,606.9	-7.9	-2.1	0.53	0.32	51.76	6.6	4.8	
1,794.0	0.60	327.60	1,793.9	-5.7	-3.2	0.18	-0.16	-5.94	3.1	5.7	
1,981.0	1.00	237.70	1,980.9	-5.8	-5.1	0.62	0.21	-48.07	-7.4	2.2	
2,170.0	2.60	204.80	2,169.8	-10.6	-8.3	0.97	0.85	-17.41	-13.0	-3.1	
2,357.0	2.20	205.80	2,356.6	-17.6	-11.6	0.22	-0.21	0.53	-20.9	-2.8	
2,545.0	1.30	207.90	2,544.6	-22.8	-14.2	0.48	-0.48	1.12	-26.8	-1.9	
2,733.0	2.30	181.00	2,732.5	-28.4	-15.2	0.68	0.53	-14.31	-28.7	-14.7	
2,921.0	2.10	173.20	2,920.3	-35.6	-14.9	0.19	-0.11	-4.15	-33.6	-19.0	
3,109.0	2.70	177.60	3,108.2	-43.5	-14.3	0.33	0.32	2.34	-42.8	-16.1	
3,297.0	2.20	167.20	3,296.0	-51.4	-13.3	0.35	-0.27	-5.53	-47.2	-24.4	
3,484.0	1.60	153.10	3,482.9	-57.2	-11.3	0.40	-0.32	-7.54	-45.9	-36.0	
3,579.0	2.30	186.10	3,577.8	-60.3	-10.9	1.36	0.74	34.74	-61.1	-4.5	
3,767.0	1.50	176.40	3,765.7	-66.5	-11.2	0.46	-0.43	-5.16	-65.7	-15.3	
3,955.0	3.10	196.20	3,953.6	-73.9	-12.5	0.94	0.85	10.53	-74.4	8.7	
4,143.0	2.70	194.00	4,141.3	-83.0	-14.9	0.22	-0.21	-1.17	-84.2	5.6	
4,330.0	1.70	207.10	4,328.2	-89.8	-17.3	0.60	-0.53	7.01	-87.8	25.5	



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Neptune 10 State Com
 Well: #701H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25' @ 3641.0usft (H&P 642)
 MD Reference: KB = 25' @ 3641.0usft (H&P 642)
 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)
4,518.0	2.90	150.30	4,516.1	-96.4	-16.2	1.29	0.64	-30.21	-75.7	-61.9
4,705.0	2.80	143.50	4,702.8	-104.2	-11.1	0.19	-0.05	-3.64	-77.1	-71.0
4,799.0	4.00	138.60	4,796.7	-108.5	-7.6	1.31	1.28	-5.21	-76.3	-77.5
4,987.0	5.60	133.00	4,984.0	-119.7	3.5	0.89	0.85	-2.98	-83.9	-85.4
5,175.0	3.60	158.50	5,171.4	-131.4	12.3	1.50	-1.06	13.56	-126.4	-36.5
5,363.0	3.70	177.70	5,359.0	-143.0	14.7	0.65	0.05	10.21	-137.5	9.9
5,550.0	4.90	177.10	5,545.5	-157.0	15.4	0.64	0.64	-0.32	-141.2	10.1
5,737.0	5.80	175.90	5,731.7	-174.4	16.5	0.48	0.48	-0.64	-148.0	9.0
5,925.0	5.50	196.00	5,918.8	-192.5	14.7	1.06	-0.16	10.69	-142.9	60.7
6,113.0	5.10	203.60	6,106.0	-208.8	8.8	0.43	-0.21	4.04	-140.3	76.9
6,301.0	4.10	204.50	6,293.4	-222.6	2.7	0.53	-0.53	0.48	-143.7	75.7
6,488.0	5.70	190.30	6,479.7	-237.8	-1.7	1.07	0.86	-7.59	-162.6	35.9
6,676.0	5.30	187.90	6,666.8	-255.6	-4.6	0.25	-0.21	-1.28	-170.9	28.4
6,863.0	5.80	186.40	6,852.9	-273.5	-6.8	0.28	0.27	-0.80	-178.6	23.6
7,051.0	4.40	186.70	7,040.2	-290.1	-8.7	0.74	-0.74	0.16	-184.2	24.5
7,240.0	6.30	197.40	7,228.4	-307.2	-12.7	1.13	1.01	5.66	-183.0	57.5
7,333.0	5.70	197.20	7,320.9	-316.5	-15.6	0.65	-0.65	-0.22	-187.5	55.8
7,520.0	4.90	200.00	7,507.1	-332.9	-21.1	0.45	-0.43	1.50	-191.1	62.7
7,614.0	4.70	195.90	7,600.7	-340.4	-23.5	0.42	-0.21	-4.36	-197.5	47.7
7,803.0	3.30	201.20	7,789.3	-352.9	-27.6	0.77	-0.74	2.80	-194.6	63.6
7,990.0	2.70	197.70	7,976.0	-362.1	-30.9	0.34	-0.32	-1.87	-197.1	49.1
8,177.0	2.40	193.50	8,162.8	-370.1	-33.1	0.19	-0.16	-2.25	-197.5	32.9
8,366.0	1.10	193.60	8,351.7	-375.7	-34.5	0.69	-0.69	0.05	-192.2	31.8
8,554.0	0.50	195.50	8,539.7	-378.3	-35.1	0.32	-0.32	1.01	-182.7	36.5
8,743.0	0.40	171.20	8,728.7	-379.7	-35.2	0.11	-0.05	-12.86	-172.1	-39.3
8,931.0	0.40	308.80	8,916.7	-380.0	-35.6	0.40	0.00	73.19	94.4	136.2
9,119.0	0.70	265.50	9,104.7	-379.6	-37.3	0.26	0.16	-23.03	-24.3	152.5



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Neptune 10 State Com
 Well: #701H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25' @ 3641.0usft (H&P 642)
 MD Reference: KB = 25' @ 3641.0usft (H&P 642)
 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)
9,309.0	0.50	224.80	9,294.7	-380.3	-39.0	0.24	-0.11	-21.42	-110.8	92.1
9,497.0	0.40	215.00	9,482.7	-381.4	-40.0	0.07	-0.05	-5.21	-116.5	66.5
9,685.0	0.80	189.10	9,670.7	-383.3	-40.6	0.25	0.21	-13.78	-124.7	8.1
9,872.0	0.90	192.50	9,857.7	-386.0	-41.1	0.06	0.05	1.82	-115.8	14.4
10,060.0	1.30	168.70	10,045.6	-389.5	-41.0	0.32	0.21	-12.66	-104.7	-30.8
10,248.0	1.50	155.10	10,233.6	-393.8	-39.5	0.21	0.11	-7.23	-89.6	-49.2
10,437.0	1.80	149.60	10,422.5	-398.6	-37.0	0.18	0.16	-2.91	-80.9	-51.1
10,625.0	2.10	147.00	10,610.4	-404.1	-33.6	0.17	0.16	-1.38	-76.3	-47.8
10,812.0	1.80	164.40	10,797.3	-409.8	-31.0	0.35	-0.16	9.30	-83.1	-17.7
11,000.0	2.80	162.00	10,985.1	-417.0	-28.8	0.53	0.53	-1.28	-79.7	-16.7
11,188.0	1.30	172.00	11,173.0	-423.5	-27.0	0.82	-0.80	5.32	-77.3	0.9
11,281.0	1.00	273.70	11,266.0	-424.5	-27.7	1.93	-0.32	109.35	16.2	71.1
11,373.0	1.50	305.40	11,358.0	-423.7	-29.5	0.91	0.54	34.46	46.6	47.7
11,561.0	2.00	282.10	11,545.9	-421.6	-34.7	0.46	0.27	-12.39	17.2	50.2
11,748.0	2.00	287.70	11,732.8	-419.9	-41.0	0.10	0.00	2.99	13.4	37.8
11,806.0	1.80	286.70	11,790.7	-419.4	-42.8	0.35	-0.34	-1.72	10.2	34.6
11,940.0	1.30	280.20	11,924.7	-418.5	-46.4	0.39	-0.37	-4.85	2.1	27.4
12,034.0	1.50	200.10	12,018.7	-419.5	-47.8	1.92	0.21	-85.21	-22.7	4.4
12,127.0	5.70	15.50	12,111.5	-416.1	-47.0	7.74	4.52	188.60	20.0	-3.3
12,174.0	13.70	23.30	12,157.8	-408.8	-44.2	17.21	17.02	16.60	17.7	-8.6
12,222.0	18.00	20.10	12,204.0	-396.6	-39.4	9.14	8.96	-6.67	15.7	-12.0
12,267.0	24.30	6.80	12,246.0	-380.8	-35.9	17.52	14.00	-29.56	16.5	-12.0
12,315.0	30.30	3.70	12,288.6	-358.9	-33.9	12.84	12.50	-6.46	14.7	-13.4
12,362.0	34.70	7.00	12,328.2	-333.8	-31.5	10.09	9.36	7.02	11.9	-16.6
12,409.0	39.50	5.90	12,365.7	-305.6	-28.4	10.31	10.21	-2.34	10.8	-19.9
12,456.0	38.80	5.60	12,402.2	-276.1	-25.4	1.54	-1.49	-0.64	12.2	-23.4
12,502.0	41.10	3.50	12,437.4	-246.7	-23.1	5.80	5.00	-4.57	17.9	-26.1



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Neptune 10 State Com
Well: #701H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25' @ 3641.0usft (H&P 642)
MD Reference: KB = 25' @ 3641.0usft (H&P 642)
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)	
12,533.0	44.70	5.00	12,460.1	-225.6	-21.5	12.07	11.61	4.84	21.7	-28.5	
12,563.0	46.30	3.70	12,481.1	-204.3	-19.9	6.16	5.33	-4.33	26.6	-30.3	
12,594.0	52.00	2.70	12,501.4	-180.9	-18.6	18.55	18.39	-3.23	31.7	-31.6	
12,641.0	64.60	358.20	12,526.1	-141.0	-18.4	28.01	26.81	-9.57	36.1	-30.8	
12,661.4	69.51	357.48	12,534.0	-122.2	-19.1	24.31	24.09	-3.53	35.7	-30.2	
Formation 2											
12,714.0	82.20	355.80	12,546.8	-71.4	-22.1	24.31	24.12	-3.19	30.0	-27.9	
12,791.0	85.80	356.70	12,554.9	5.0	-27.1	4.82	4.68	1.17	20.6	-23.8	
12,885.0	88.60	356.20	12,559.5	98.7	-32.9	3.03	2.98	-0.53	19.5	-18.8	
12,978.0	90.30	356.60	12,560.4	191.5	-38.7	1.88	1.83	0.43	20.4	-13.7	
13,072.0	89.80	356.60	12,560.3	285.3	-44.3	0.53	-0.53	0.00	20.3	-8.8	
13,166.0	91.60	357.90	12,559.1	379.2	-48.8	2.36	1.91	1.38	19.1	-5.1	
13,260.0	89.70	356.90	12,558.1	473.1	-53.1	2.28	-2.02	-1.06	18.1	-1.5	
13,368.0	91.20	358.50	12,557.2	581.0	-57.4	2.03	1.39	1.48	17.2	2.0	
13,447.0	90.10	358.50	12,556.3	660.0	-59.5	1.39	-1.39	0.00	16.3	3.4	
13,541.0	89.50	359.80	12,556.7	753.9	-60.9	1.52	-0.64	1.38	16.7	4.1	
13,635.0	90.70	1.00	12,556.5	847.9	-60.2	1.81	1.28	1.28	16.5	2.7	
13,729.0	90.80	1.20	12,555.3	941.9	-58.4	0.24	0.11	0.21	15.3	0.2	
13,823.0	90.80	1.20	12,554.0	1,035.9	-56.5	0.00	0.00	0.00	14.0	-2.5	
13,917.0	89.10	1.40	12,554.0	1,129.9	-54.3	1.82	-1.81	0.21	14.0	-5.4	
14,010.0	90.10	2.00	12,554.7	1,222.8	-51.6	1.25	1.08	0.65	14.7	-8.9	
14,105.0	90.30	2.20	12,554.4	1,317.7	-48.1	0.30	0.21	0.21	14.4	-13.1	
14,199.0	90.10	2.30	12,554.0	1,411.7	-44.4	0.24	-0.21	0.11	14.0	-17.5	
14,293.0	89.10	0.30	12,554.7	1,505.6	-42.3	2.38	-1.06	-2.13	14.7	-20.4	
14,386.0	88.80	0.10	12,556.4	1,598.6	-41.9	0.39	-0.32	-0.22	16.4	-21.5	
14,480.0	89.20	0.70	12,558.0	1,692.6	-41.3	0.77	0.43	0.64	18.0	-22.8	
14,574.0	89.80	0.00	12,558.9	1,786.6	-40.7	0.98	0.64	-0.74	18.9	-24.1	



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Neptune 10 State Com
 Well: #701H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25' @ 3641.0usft (H&P 642)
 MD Reference: KB = 25' @ 3641.0usft (H&P 642)
 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)
14,698.0	90.40	358.50	12,558.6	1,910.6	-42.3	1.30	0.48	-1.21	18.6	-23.5
14,791.0	91.60	358.30	12,557.0	2,003.5	-44.9	1.31	1.29	-0.22	17.0	-21.6
14,885.0	92.70	358.70	12,553.5	2,097.4	-47.4	1.25	1.17	0.43	13.3	-19.9
14,979.0	92.50	358.60	12,549.2	2,191.3	-49.6	0.24	-0.21	-0.11	8.9	-18.4
15,073.0	92.40	0.40	12,545.2	2,285.2	-50.4	1.92	-0.11	1.91	4.7	-18.3
15,166.0	92.30	2.00	12,541.4	2,378.1	-48.5	1.72	-0.11	1.72	0.8	-20.9
15,260.0	89.70	2.30	12,539.8	2,472.0	-44.9	2.78	-2.77	0.32	-1.0	-25.2
15,354.0	88.50	1.30	12,541.2	2,566.0	-42.0	1.66	-1.28	-1.06	0.3	-28.9
15,447.0	89.00	0.10	12,543.3	2,658.9	-40.9	1.40	0.54	-1.29	2.2	-30.7
15,541.0	88.80	358.30	12,545.1	2,752.9	-42.2	1.93	-0.21	-1.91	3.8	-30.1
15,635.0	88.40	359.50	12,547.4	2,846.9	-44.0	1.35	-0.43	1.28	5.9	-29.0
15,732.0	87.80	356.40	12,550.6	2,943.7	-47.4	3.25	-0.62	-3.20	9.1	-26.3
15,827.0	92.30	357.60	12,550.5	3,038.6	-52.4	4.90	4.74	1.26	8.7	-22.1
15,920.0	90.60	357.40	12,548.1	3,131.5	-56.5	1.84	-1.83	-0.22	6.3	-18.7
16,014.0	90.20	356.90	12,547.5	3,225.3	-61.1	0.68	-0.43	-0.53	5.4	-14.8
16,108.0	90.90	355.90	12,546.6	3,319.1	-67.0	1.30	0.74	-1.06	4.4	-9.6
16,201.0	90.70	354.50	12,545.3	3,411.8	-74.8	1.52	-0.22	-1.51	2.9	-2.5
16,295.0	90.10	356.20	12,544.6	3,505.5	-82.4	1.92	-0.64	1.81	2.1	4.4
16,389.0	91.30	358.40	12,543.5	3,599.4	-86.9	2.67	1.28	2.34	0.8	8.1
16,483.0	91.50	2.30	12,541.2	3,693.3	-86.3	4.15	0.21	4.15	-1.7	6.8
16,577.0	88.70	3.10	12,541.0	3,787.2	-81.9	3.10	-2.98	0.85	-2.0	1.6
16,671.0	87.90	3.30	12,543.8	3,881.0	-76.6	0.88	-0.85	0.21	0.7	-4.3
16,765.0	88.90	359.20	12,546.4	3,974.9	-74.6	4.49	1.06	-4.36	3.1	-7.1
16,859.0	87.30	358.70	12,549.5	4,068.9	-76.3	1.78	-1.70	-0.53	6.1	-6.1
16,968.0	86.20	359.30	12,555.7	4,177.7	-78.2	1.15	-1.01	0.55	12.1	-5.0
17,047.0	90.30	359.40	12,558.1	4,256.6	-79.1	5.19	5.19	0.13	14.4	-4.7
17,096.0	90.80	359.40	12,557.7	4,305.6	-79.6	1.02	1.02	0.00	13.8	-4.6



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Neptune 10 State Com
Well: #701H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25' @ 3641.0usft (H&P 642)
MD Reference: KB = 25' @ 3641.0usft (H&P 642)
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)	
17,190.0	92.40	359.10	12,555.0	4,399.6	-80.8	1.73	1.70	-0.32	11.0	-4.1	
17,285.0	92.70	359.10	12,550.8	4,494.5	-82.3	0.32	0.32	0.00	6.7	-3.3	
17,378.0	90.20	358.30	12,548.5	4,587.4	-84.4	2.82	-2.69	-0.86	4.1	-1.9	
17,472.0	90.60	358.30	12,547.8	4,681.4	-87.2	0.43	0.43	0.00	3.3	0.1	
17,566.0	89.60	357.90	12,547.6	4,775.3	-90.3	1.15	-1.06	-0.43	3.0	2.5	
17,660.0	89.10	358.20	12,548.7	4,869.2	-93.5	0.62	-0.53	0.32	3.9	5.0	
17,754.0	88.90	358.20	12,550.3	4,963.2	-96.5	0.21	-0.21	0.00	5.4	7.2	
17,849.0	89.50	358.50	12,551.7	5,058.1	-99.2	0.71	0.63	0.32	6.5	9.2	
17,943.0	88.80	357.70	12,553.1	5,152.1	-102.3	1.13	-0.74	-0.85	7.6	11.6	
18,036.0	89.50	359.10	12,554.4	5,245.0	-104.9	1.68	0.75	1.51	8.7	13.5	
18,129.0	89.80	359.20	12,555.0	5,338.0	-106.3	0.34	0.32	0.11	9.0	14.2	
18,222.0	90.10	1.60	12,555.1	5,431.0	-105.7	2.60	0.32	2.58	8.8	12.8	
18,315.0	89.60	2.00	12,555.3	5,523.9	-102.7	0.69	-0.54	0.43	8.7	9.2	
18,409.0	89.30	1.50	12,556.2	5,617.9	-99.9	0.62	-0.32	-0.53	9.3	5.6	
18,504.0	91.50	2.00	12,555.6	5,712.8	-97.0	2.37	2.32	0.53	8.4	2.0	
18,598.0	91.40	2.00	12,553.2	5,806.8	-93.7	0.11	-0.11	0.00	5.7	-2.0	
18,692.0	91.70	1.20	12,550.7	5,900.7	-91.1	0.91	0.32	-0.85	2.9	-5.4	
18,786.0	90.20	1.20	12,549.1	5,994.7	-89.1	1.60	-1.60	0.00	1.0	-8.1	
18,880.0	91.60	1.90	12,547.6	6,088.6	-86.6	1.67	1.49	0.74	-0.7	-11.3	
18,974.0	91.50	1.00	12,545.1	6,182.5	-84.2	0.96	-0.11	-0.96	-3.5	-14.4	
19,068.0	88.40	0.00	12,545.2	6,276.5	-83.4	3.47	-3.30	-1.06	-3.8	-16.0	
19,161.0	89.40	0.50	12,546.9	6,369.5	-83.0	1.20	1.08	0.54	-2.3	-17.1	
19,255.0	90.70	359.90	12,546.9	6,463.5	-82.6	1.52	1.38	-0.64	-2.6	-18.2	
19,349.0	91.10	358.00	12,545.4	6,557.5	-84.4	2.07	0.43	-2.02	-4.4	-17.2	
19,471.0	89.30	359.20	12,545.0	6,679.4	-87.3	1.77	-1.48	0.98	-5.2	-15.1	
19,565.0	89.90	358.50	12,545.6	6,773.4	-89.2	0.98	0.64	-0.74	-4.8	-13.9	
19,659.0	92.40	357.80	12,543.7	6,867.3	-92.3	2.76	2.66	-0.74	-7.0	-11.6	



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Neptune 10 State Com
 Well: #701H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25' @ 3641.0usft (H&P 642)
 MD Reference: KB = 25' @ 3641.0usft (H&P 642)
 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)
19,753.0	90.50	359.00	12,541.4	6,961.3	-94.9	2.39	-2.02	1.28	-9.7	-9.7
19,846.0	88.40	358.80	12,542.2	7,054.2	-96.7	2.27	-2.26	-0.22	-9.1	-8.7
19,940.0	88.60	359.40	12,544.7	7,148.2	-98.1	0.67	0.21	0.64	-6.9	-7.9
20,032.0	88.10	358.90	12,547.4	7,240.1	-99.5	0.77	-0.54	-0.54	-4.5	-7.3
20,124.0	91.10	359.50	12,548.0	7,332.1	-100.8	3.33	3.26	0.65	-4.2	-6.7
20,217.0	90.50	359.10	12,546.7	7,425.1	-101.9	0.78	-0.65	-0.43	-5.8	-6.2
20,310.0	90.50	358.70	12,545.9	7,518.1	-103.7	0.43	0.00	-0.43	-6.9	-5.2
20,404.0	89.50	358.60	12,545.9	7,612.0	-105.9	1.07	-1.06	-0.11	-7.1	-3.7
20,495.0	91.00	359.80	12,545.5	7,703.0	-107.2	2.11	1.65	1.32	-7.8	-3.1
20,588.0	92.10	359.70	12,543.0	7,796.0	-107.6	1.19	1.18	-0.11	-10.6	-3.4
20,683.0	90.10	359.10	12,541.2	7,891.0	-108.6	2.20	-2.11	-0.63	-12.7	-3.2
20,775.0	91.90	359.70	12,539.5	7,982.9	-109.6	2.06	1.96	0.65	-14.6	-2.9
20,869.0	90.50	359.90	12,537.6	8,076.9	-109.9	1.50	-1.49	0.21	-16.9	-3.3
20,963.0	87.50	0.70	12,539.2	8,170.9	-109.4	3.30	-3.19	0.85	-15.5	-4.5
21,056.0	91.70	1.20	12,539.9	8,263.9	-107.8	4.55	4.52	0.54	-15.2	-6.8
21,149.0	93.20	1.50	12,535.9	8,356.7	-105.7	1.64	1.61	0.32	-19.4	-9.7
21,180.0	93.60	1.70	12,534.1	8,387.7	-104.8	1.44	1.29	0.65	-21.4	-10.8
21,212.0	92.40	1.40	12,532.4	8,419.6	-103.9	3.87	-3.75	-0.94	-23.1	-11.9
Last MWD Survey										
21,274.0	92.40	1.40	12,529.8	8,481.5	-102.4	0.00	0.00	0.00	-25.9	-13.9
Projection To Bit										

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
12,661.4	12,535.6	Formation 2	Empty	0.74	



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Neptune 10 State Com
Well: #701H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25' @ 3641.0usft (H&P 642)
MD Reference: KB = 25' @ 3641.0usft (H&P 642)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
21,212.0	12,532.4	8,419.6	-103.9	Last MWD Survey
21,274.0	12,529.8	8,481.5	-102.4	Projection To Bit

Checked By: _____ Approved By: _____ Date: _____