

MAY 15 2017

RECEIVED



Lea County, NM (NAD 27 NME)

Neptune 10 State Com #505H

H&P 642

Plan #3

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

Geodetic System: US State Plane 1927 (Exact solution)

Datum: NAD 1927 (NADCON CONUS)

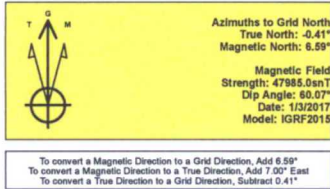
Ellipsoid: Clarke 1866

Zone: New Mexico East 3001

System Datum: Mean Sea Level

WELL DETAILS: #505H

Ground Level: 3615.0
 KB = 25' @ 3640.0usft (H&P 642)
 Northing 446798.00 Easting 737007.00 Latitude 32° 13' 33.747 N Longitude 103° 34' 0.859 W



SECTION DETAILS

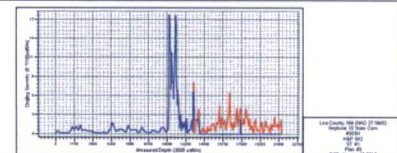
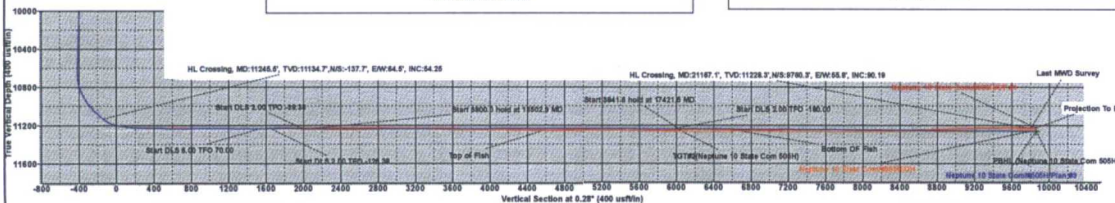
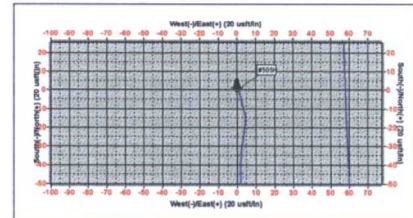
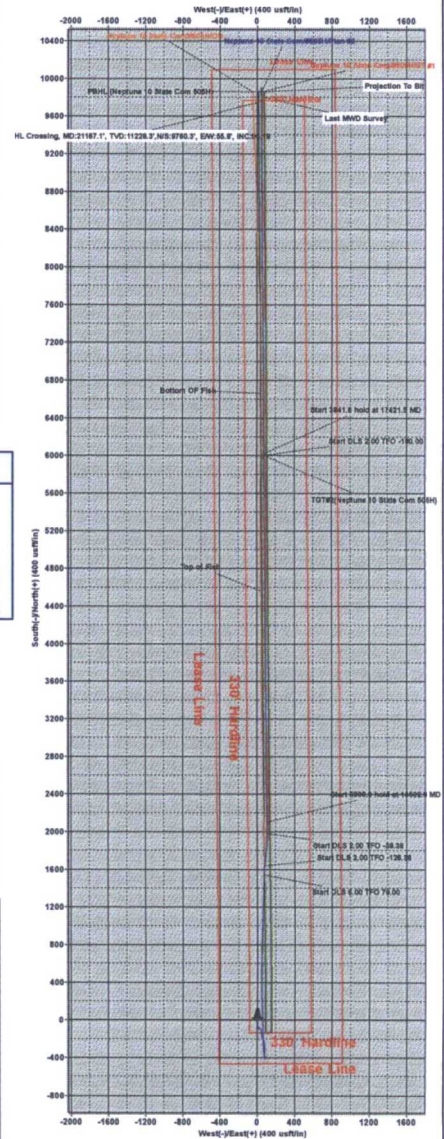
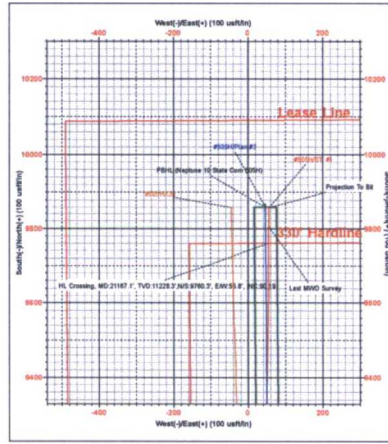
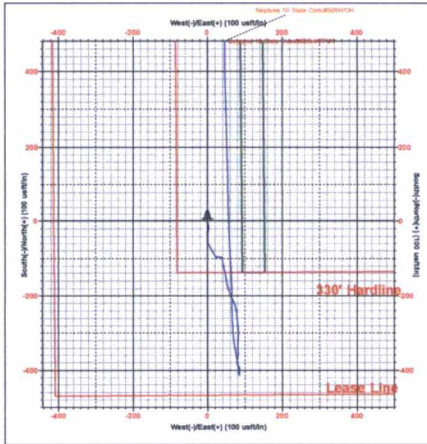
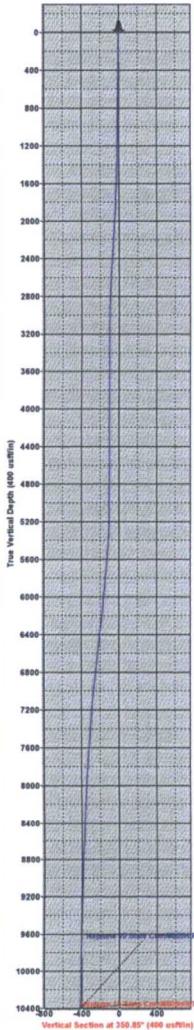
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	12943.0	90.10	0.90	11235.8	1541.5	77.2	0.00	0.00	1541.9	
2	13043.0	92.15	6.54	11233.8	1641.2	83.7	6.00	70.00	1641.6	
3	13381.7	88.13	1.09	11233.0	1979.0	106.2	2.00	-126.38	1979.5	
4	13502.9	90.00	359.56	11235.0	2100.1	106.9	2.00	-39.38	2100.6	
5	17402.9	90.00	359.56	11235.0	6000.0	77.0	0.00	0.00	6000.3	TGT#2(Neptune 10 State Com 505H)
6	17421.5	89.63	359.56	11235.1	6018.6	76.9	2.00	180.00	6018.9	
7	21263.1	89.63	359.56	11260.0	9860.0	47.4	0.00	0.00	9860.1	PBHL (Neptune 10 State Com 505H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
TGT#2(Neptune 10 State Com 505H)	11235.0	6000.0	77.0	452798.00	737084.00
PBHL (Neptune 10 State Com 505H)	11260.0	9860.0	47.4	456698.00	737054.40





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Neptune 10 State Com

#505H

ST #1

Design: ST #1

PVA

17 January, 2017

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EOG Resources, Inc.

PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #505H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25' @ 3640.0usft (H&P 642)
Site:	Neptune 10 State Com	MD Reference:	KB = 25' @ 3640.0usft (H&P 642)
Well:	#505H	North Reference:	Grid
Wellbore:	ST #1	Survey Calculation Method:	Minimum Curvature
Design:	ST #1	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	Neptune 10 State Com		
Site Position:		Northing:	446,603.00 usft
From:	Map	Easting:	740,781.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 13' 31.549 N
		Longitude:	103° 33' 16.943 W
		Grid Convergence:	0.42 °

Well	#505H		
Well Position	+N/-S	0.0 usft	Northing: 446,798.00 usft
	+E/-W	0.0 usft	Easting: 737,007.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 13' 33.747 N
		Longitude:	103° 34' 0.859 W
		Ground Level:	3,615.0 usft

Wellbore	ST #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	1/3/2017	7.00
			Dip Angle (°) 60.07
			Field Strength (nT) 47,985

Design	ST #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	12,943.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
		Direction (°)	0.28



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Site:	Neptune 10 State Com	MD Reference:	KB = 25' @ 3640.0usft (H&P 642)
Well:	#505H	North Reference:	Grid
Wellbore:	ST #1	Survey Calculation Method:	Minimum Curvature
Design:	ST #1	Database:	EDM 5000.1 Single User Db

Survey Program		Date 1/17/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
134.0	12,943.0	Intrp MWD #1 (OH)	MWD	MWD - Standard
13,017.0	21,266.0	Intrepid MWD #2 (ST #1)	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	0.0
134.0	0.40	105.00	134.0	-0.1	0.5	0.30	0.30	0.00	0.0	0.0	0.0
313.0	0.70	165.10	313.0	-1.3	1.3	0.34	0.17	33.58	0.0	0.0	0.0
487.0	0.90	167.10	487.0	-3.7	1.9	0.12	0.11	1.15	0.0	0.0	0.0
675.0	1.00	169.90	674.9	-6.8	2.5	0.06	0.05	1.49	0.0	0.0	0.0
860.0	0.80	162.00	859.9	-9.6	3.2	0.13	-0.11	-4.27	0.0	0.0	0.0
1,044.0	0.70	164.00	1,043.9	-11.9	3.9	0.06	-0.05	1.09	0.0	0.0	0.0
1,232.0	0.80	173.30	1,231.9	-14.3	4.4	0.08	0.05	4.95	0.0	0.0	0.0
1,316.0	1.00	173.30	1,315.9	-15.6	4.5	0.24	0.24	0.00	0.0	0.0	0.0
1,426.0	1.30	187.10	1,425.9	-17.8	4.5	0.37	0.27	12.55	0.0	0.0	0.0
1,613.0	3.10	187.40	1,612.7	-24.9	3.6	0.96	0.96	0.16	0.0	0.0	0.0
1,801.0	2.10	190.80	1,800.5	-33.3	2.3	0.54	-0.53	1.81	0.0	0.0	0.0
1,988.0	4.00	178.30	1,987.2	-43.2	1.8	1.07	1.02	-6.68	0.0	0.0	0.0
2,176.0	3.10	179.80	2,174.9	-54.9	2.1	0.48	-0.48	0.80	0.0	0.0	0.0
2,363.0	4.40	149.50	2,361.5	-66.1	5.7	1.24	0.70	-16.20	0.0	0.0	0.0
2,551.0	3.60	149.70	2,549.0	-77.4	12.3	0.43	-0.43	0.11	0.0	0.0	0.0
2,739.0	2.50	148.90	2,736.8	-86.0	17.4	0.59	-0.59	-0.43	0.0	0.0	0.0
2,927.0	1.80	142.20	2,924.6	-91.9	21.4	0.39	-0.37	-3.56	0.0	0.0	0.0
3,115.0	1.00	137.00	3,112.6	-95.4	24.3	0.43	-0.43	-2.77	0.0	0.0	0.0
3,303.0	0.40	90.60	3,300.6	-96.6	26.1	0.41	-0.32	-24.68	0.0	0.0	0.0
3,491.0	0.40	20.00	3,488.6	-96.0	27.0	0.25	0.00	-37.55	0.0	0.0	0.0



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Neptune 10 State Com
 Well: #505H
 Wellbore: ST #1
 Design: ST #1

Local Co-ordinate Reference: Well #505H
 TVD Reference: KB = 25' @ 3640.0usft (H&P 642)
 MD Reference: KB = 25' @ 3640.0usft (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)
3,679.0	0.10	358.30	3,676.6	-95.2	27.2	0.16	-0.16	-11.54	0.0	0.0
3,867.0	0.10	324.00	3,864.6	-94.9	27.1	0.03	0.00	-18.24	0.0	0.0
4,055.0	0.20	124.50	4,052.6	-95.0	27.2	0.16	0.05	85.37	0.0	0.0
4,242.0	0.30	102.60	4,239.6	-95.2	28.0	0.07	0.05	-11.71	0.0	0.0
4,430.0	0.40	85.40	4,427.6	-95.3	29.1	0.08	0.05	-9.15	0.0	0.0
4,618.0	0.90	95.60	4,615.5	-95.4	31.3	0.27	0.27	5.43	0.0	0.0
4,805.0	0.90	99.50	4,802.5	-95.8	34.2	0.03	0.00	2.09	0.0	0.0
4,993.0	1.30	104.50	4,990.5	-96.6	37.7	0.22	0.21	2.66	0.0	0.0
5,087.0	0.80	98.80	5,084.5	-96.9	39.4	0.54	-0.53	-6.06	0.0	0.0
5,171.0	0.50	72.90	5,168.5	-96.9	40.3	0.49	-0.36	-30.83	0.0	0.0
5,359.0	2.80	177.20	5,356.4	-101.3	41.3	1.58	1.22	55.48	0.0	0.0
5,547.0	4.80	168.70	5,544.0	-113.6	43.1	1.10	1.06	-4.52	0.0	0.0
5,735.0	5.40	169.70	5,731.2	-130.0	46.2	0.32	0.32	0.53	0.0	0.0
5,922.0	4.50	166.80	5,917.5	-145.8	49.4	0.50	-0.48	-1.55	0.0	0.0
6,109.0	5.60	171.40	6,103.8	-161.9	52.5	0.63	0.59	2.46	0.0	0.0
6,297.0	6.20	162.30	6,290.8	-180.7	56.9	0.59	0.32	-4.84	0.0	0.0
6,485.0	6.80	158.30	6,477.6	-200.7	64.1	0.40	0.32	-2.13	0.0	0.0
6,673.0	6.90	155.40	6,664.3	-221.3	73.0	0.19	0.05	-1.54	0.0	0.0
6,860.0	6.70	174.60	6,850.0	-242.4	78.7	1.21	-0.11	10.27	0.0	0.0
7,048.0	5.40	171.90	7,036.9	-262.1	80.9	0.71	-0.69	-1.44	0.0	0.0
7,235.0	4.60	176.80	7,223.2	-278.2	82.6	0.48	-0.43	2.62	0.0	0.0
7,424.0	3.50	173.70	7,411.7	-291.6	83.7	0.59	-0.58	-1.64	0.0	0.0
7,612.0	4.50	180.60	7,599.3	-304.6	84.2	0.59	0.53	3.67	0.0	0.0
7,798.0	4.30	183.90	7,784.7	-318.9	83.7	0.17	-0.11	1.77	0.0	0.0
7,986.0	3.80	182.70	7,972.2	-332.1	82.9	0.27	-0.27	-0.64	0.0	0.0
8,175.0	2.10	176.70	8,161.0	-341.9	82.8	0.91	-0.90	-3.17	0.0	0.0
8,362.0	2.90	177.00	8,347.8	-350.0	83.2	0.43	0.43	0.16	0.0	0.0



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PVA

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 Design: ST #1

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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)
8,550.0	2.80	185.70	8,535.6	-359.3	83.0	0.24	-0.05	4.63	0.0	0.0
8,738.0	2.40	187.10	8,723.4	-367.8	82.1	0.22	-0.21	0.74	0.0	0.0
8,926.0	2.20	190.70	8,911.2	-375.2	80.9	0.13	-0.11	1.91	0.0	0.0
9,115.0	1.50	192.00	9,100.1	-381.2	79.7	0.37	-0.37	0.69	0.0	0.0
9,303.0	0.70	160.60	9,288.1	-384.7	79.6	0.52	-0.43	-16.70	0.0	0.0
9,491.0	1.10	136.70	9,476.1	-387.1	81.2	0.29	0.21	-12.71	0.0	0.0
9,679.0	1.50	132.00	9,664.0	-390.1	84.3	0.22	0.21	-2.50	0.0	0.0
9,869.0	1.40	155.30	9,854.0	-393.8	87.1	0.31	-0.05	12.26	0.0	0.0
10,057.0	1.10	240.40	10,041.9	-396.8	86.5	0.91	-0.16	45.27	0.0	0.0
10,244.0	2.00	190.00	10,228.9	-400.9	84.4	0.83	0.48	-26.95	0.0	0.0
10,432.0	1.70	180.10	10,416.8	-406.9	83.8	0.23	-0.16	-5.27	0.0	0.0
10,620.0	1.90	147.50	10,604.7	-412.4	85.5	0.55	0.11	-17.34	0.0	0.0
10,842.0	2.00	143.20	10,826.7	-413.0	85.9	0.81	0.45	-19.55	0.0	0.0
10,698.0	1.10	61.50	10,682.7	-413.5	87.0	3.82	-1.61	-145.89	0.0	0.0
10,736.0	6.80	351.10	10,720.6	-411.1	86.9	17.14	15.00	-185.26	0.0	0.0
10,783.0	14.30	349.90	10,766.7	-402.6	85.5	15.96	15.96	-2.55	0.0	0.0
10,829.0	20.00	349.90	10,810.7	-389.3	83.1	12.39	12.39	0.00	0.0	0.0
10,876.0	25.50	351.10	10,854.0	-371.4	80.1	11.74	11.70	2.55	0.0	0.0
10,923.0	28.30	348.70	10,895.9	-350.4	76.4	6.39	5.96	-5.11	0.0	0.0
10,970.0	33.50	352.10	10,936.2	-326.6	72.4	11.67	11.06	7.23	0.0	0.0
11,017.0	37.40	356.20	10,974.5	-299.5	69.7	9.71	8.30	8.72	0.0	0.0
11,064.0	40.80	357.20	11,011.0	-269.9	68.0	7.36	7.23	2.13	0.0	0.0
11,111.0	44.30	358.20	11,045.6	-238.2	66.7	7.58	7.45	2.13	0.0	0.0
11,158.0	46.40	359.80	11,078.6	-204.8	66.1	5.08	4.47	3.40	0.0	0.0
11,204.0	50.10	358.80	11,109.3	-170.5	65.7	8.21	8.04	-2.17	0.0	0.0
11,251.0	54.80	356.70	11,137.9	-133.2	64.2	10.61	10.00	-4.47	0.0	0.0
11,298.0	60.70	357.20	11,163.0	-93.6	62.1	12.59	12.55	1.06	0.0	0.0



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PVA

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Wellbore: ST #1
Design: ST #1

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11,345.0	68.70	357.70	11,183.0	-51.2	60.2	17.05	17.02	1.06	0.0	0.0
11,390.0	75.80	357.80	11,196.7	-8.4	58.6	15.78	15.78	0.22	0.0	0.0
11,437.0	79.30	358.00	11,206.9	37.5	56.9	7.46	7.45	0.43	0.0	0.0
11,484.0	82.00	358.90	11,214.5	83.9	55.6	6.05	5.74	1.91	0.0	0.0
11,510.0	83.00	359.30	11,217.9	109.6	55.2	4.14	3.85	1.54	0.0	0.0
11,537.0	84.70	359.30	11,220.8	136.5	54.9	6.30	6.30	0.00	0.0	0.0
11,630.0	88.80	358.20	11,226.1	229.3	52.9	4.56	4.41	-1.18	0.0	0.0
11,723.0	89.30	357.60	11,227.6	322.2	49.5	0.84	0.54	-0.65	0.0	0.0
11,817.0	88.10	359.90	11,229.7	416.1	47.4	2.76	-1.28	2.45	0.0	0.0
11,911.0	87.90	0.30	11,233.0	510.1	47.6	0.48	-0.21	0.43	0.0	0.0
12,005.0	89.50	0.50	11,235.2	604.1	48.2	1.72	1.70	0.21	0.0	0.0
12,099.0	89.80	1.20	11,235.7	698.0	49.6	0.81	0.32	0.74	0.0	0.0
12,192.0	91.30	1.90	11,234.8	791.0	52.1	1.78	1.61	0.75	0.0	0.0
12,286.0	91.50	2.00	11,232.5	884.9	55.3	0.24	0.21	0.11	0.0	0.0
12,380.0	89.50	1.70	11,231.7	978.9	58.4	2.15	-2.13	-0.32	0.0	0.0
12,474.0	89.40	1.70	11,232.6	1,072.8	61.2	0.11	-0.11	0.00	0.0	0.0
12,567.0	89.40	2.00	11,233.6	1,165.8	64.2	0.32	0.00	0.32	0.0	0.0
12,661.0	89.70	2.50	11,234.3	1,259.7	67.8	0.62	0.32	0.53	0.0	0.0
12,755.0	89.40	2.90	11,235.1	1,353.6	72.3	0.53	-0.32	0.43	0.0	0.0
12,849.0	89.80	1.10	11,235.7	1,447.5	75.6	1.96	0.43	-1.91	0.0	0.0
12,943.0	90.10	0.90	11,235.8	1,541.5	77.2	0.38	0.32	-0.21	0.0	0.0
13,017.0	92.00	6.00	11,234.5	1,615.3	81.6	7.35	2.57	6.89	-0.2	-0.6
13,110.0	92.10	6.00	11,231.1	1,707.8	91.4	0.11	0.11	0.00	-0.7	-0.7
13,204.0	90.80	6.00	11,228.8	1,801.2	101.2	1.38	-1.38	0.00	-1.7	-2.8
13,298.0	89.50	5.10	11,228.5	1,894.8	110.3	1.68	-1.38	-0.96	-2.5	-6.7
13,392.0	89.90	3.10	11,229.0	1,988.5	117.0	2.17	0.43	-2.13	-4.3	-10.6
13,486.0	90.20	359.80	11,228.9	2,082.5	119.4	3.53	0.32	-3.51	-6.0	-12.4



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Neptune 10 State Com
 Well: #505H
 Wellbore: ST #1
 Design: ST #1

Local Co-ordinate Reference: Well #505H
 TVD Reference: KB = 25' @ 3640.0usft (H&P 642)
 MD Reference: KB = 25' @ 3640.0usft (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)	
13,579.0	89.90	359.40	11,228.8	2,175.5	118.7	0.54	-0.32	-0.43	-6.2	-12.4	
13,673.0	90.00	359.20	11,228.9	2,269.5	117.6	0.24	0.11	-0.21	-6.1	-12.0	
13,767.0	90.00	359.30	11,228.9	2,363.5	116.3	0.11	0.00	0.11	-6.1	-11.5	
13,861.0	89.40	358.80	11,229.4	2,457.5	114.8	0.83	-0.64	-0.53	-5.6	-10.6	
13,955.0	89.10	359.00	11,230.6	2,551.4	113.0	0.38	-0.32	0.21	-4.4	-9.5	
14,049.0	89.50	359.10	11,231.8	2,645.4	111.4	0.44	0.43	0.11	-3.2	-8.7	
14,143.0	89.50	358.80	11,232.6	2,739.4	109.7	0.32	0.00	-0.32	-2.4	-7.7	
14,237.0	89.50	358.70	11,233.4	2,833.4	107.6	0.11	0.00	-0.11	-1.6	-6.4	
14,331.0	90.40	359.10	11,233.5	2,927.3	105.8	1.05	0.96	0.43	-1.5	-5.3	
14,424.0	90.10	358.90	11,233.1	3,020.3	104.2	0.39	-0.32	-0.22	-1.9	-4.4	
14,518.0	89.50	359.20	11,233.4	3,114.3	102.7	0.71	-0.64	0.32	-1.6	-3.5	
14,612.0	89.90	359.00	11,233.9	3,208.3	101.2	0.48	0.43	-0.21	-1.1	-2.8	
14,706.0	91.00	358.60	11,233.2	3,302.3	99.2	1.25	1.17	-0.43	-1.8	-1.5	
14,799.0	90.50	359.80	11,232.0	3,395.3	97.9	1.40	-0.54	1.29	-3.0	-0.9	
14,893.0	89.20	359.90	11,232.2	3,489.3	97.7	1.39	-1.38	0.11	-2.8	-1.4	
14,987.0	89.10	359.30	11,233.6	3,583.2	97.0	0.65	-0.11	-0.64	-1.4	-1.5	
15,081.0	89.30	359.10	11,234.9	3,677.2	95.7	0.30	0.21	-0.21	-0.1	-0.9	
15,174.0	87.80	359.20	11,237.3	3,770.2	94.3	1.62	-1.61	0.11	2.3	-0.2	
15,268.0	86.50	359.10	11,241.9	3,864.0	92.9	1.39	-1.38	-0.11	6.9	0.4	
15,362.0	88.00	359.70	11,246.5	3,957.9	91.9	1.72	1.60	0.64	11.5	0.7	
15,455.0	91.50	0.90	11,246.9	4,050.9	92.4	3.98	3.76	1.29	11.9	-0.5	
15,549.0	90.70	0.90	11,245.1	4,144.9	93.9	0.85	-0.85	0.00	10.1	-2.7	
15,643.0	88.60	0.40	11,245.6	4,238.9	95.0	2.30	-2.23	-0.53	10.6	-4.5	
15,737.0	87.50	0.30	11,248.8	4,332.8	95.6	1.18	-1.17	-0.11	13.8	-5.8	
15,831.0	88.70	359.80	11,251.9	4,426.8	95.6	1.38	1.28	-0.53	16.9	-6.6	
15,925.0	90.50	359.50	11,252.6	4,520.8	95.1	1.94	1.91	-0.32	17.6	-6.7	
16,018.0	90.60	358.90	11,251.7	4,613.7	93.8	0.65	0.11	-0.65	16.7	-6.1	



EOG Resources, Inc.

PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #505H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25' @ 3640.0usft (H&P 642)
Site:	Neptune 10 State Corn	MD Reference:	KB = 25' @ 3640.0usft (H&P 642)
Well:	#505H	North Reference:	Grid
Wellbore:	ST #1	Survey Calculation Method:	Minimum Curvature
Design:	ST #1	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)	
16,112.0	90.00	359.30	11,251.2	4,707.7	92.3	0.77	-0.64	0.43	16.2	-5.4	
16,206.0	91.30	0.50	11,250.2	4,801.7	92.1	1.88	1.38	1.28	15.2	-5.9	
16,300.0	93.90	1.20	11,245.9	4,895.6	93.5	2.86	2.77	0.74	10.9	-8.0	
16,393.0	88.60	0.00	11,243.9	4,988.5	94.5	5.84	-5.70	-1.29	8.9	-9.7	
16,487.0	88.10	359.10	11,246.6	5,082.5	93.7	1.09	-0.53	-0.96	11.6	-9.7	
16,581.0	89.60	359.50	11,248.5	5,176.5	92.6	1.65	1.60	0.43	13.5	-9.3	
16,675.0	89.80	0.00	11,248.9	5,270.5	92.2	0.57	0.21	0.53	13.9	-9.6	
16,770.0	88.30	0.00	11,250.5	5,365.4	92.2	1.58	-1.58	0.00	15.5	-10.3	
16,863.0	87.80	0.70	11,253.7	5,458.4	92.8	0.92	-0.54	0.75	18.7	-11.6	
16,957.0	88.70	359.50	11,256.6	5,552.3	92.9	1.60	0.96	-1.28	21.6	-12.5	
17,051.0	91.60	357.70	11,256.3	5,646.3	90.6	3.63	3.09	-1.91	21.3	-10.9	
17,145.0	91.30	358.80	11,253.9	5,740.2	87.8	1.21	-0.32	1.17	18.9	-8.8	
17,239.0	90.50	0.50	11,252.5	5,834.2	87.2	2.00	-0.85	1.81	17.5	-8.9	
17,334.0	90.30	357.60	11,251.8	5,929.2	85.6	3.06	-0.21	-3.05	16.8	-8.1	
17,428.0	92.90	359.80	11,249.2	6,023.1	83.5	3.62	2.77	2.34	14.1	-6.7	
17,521.0	91.90	359.10	11,245.3	6,116.0	82.6	1.31	-1.08	-0.75	9.6	-6.5	
17,614.0	90.80	359.80	11,243.1	6,209.0	81.7	1.40	-1.18	0.75	6.8	-6.3	
17,707.0	88.80	359.80	11,243.4	6,302.0	81.4	2.15	-2.15	0.00	6.5	-6.7	
17,800.0	88.60	1.10	11,245.5	6,395.0	82.1	1.41	-0.22	1.40	8.0	-8.1	
17,894.0	89.00	357.80	11,247.5	6,488.9	81.2	3.54	0.43	-3.51	9.4	-7.9	
17,989.0	89.40	0.30	11,248.8	6,583.9	79.6	2.66	0.42	2.63	10.1	-7.1	
18,083.0	87.60	359.50	11,251.3	6,677.8	79.5	2.10	-1.91	-0.85	11.9	-7.7	
18,177.0	88.40	358.80	11,254.6	6,771.8	78.1	1.13	0.85	-0.74	14.6	-7.0	
18,271.0	90.40	358.50	11,255.5	6,865.7	75.8	2.15	2.13	-0.32	15.0	-5.5	
18,365.0	90.90	358.30	11,254.5	6,959.7	73.2	0.57	0.53	-0.21	13.3	-3.6	
18,459.0	91.80	359.00	11,252.3	7,053.6	71.0	1.21	0.96	0.74	10.5	-2.1	
18,553.0	91.60	359.10	11,249.5	7,147.6	69.4	0.24	-0.21	0.11	7.1	-1.2	



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Neptune 10 State Corn
 Well: #505H
 Wellbore: ST #1
 Design: ST #1

Local Co-ordinate Reference: Well #505H
 TVD Reference: KB = 25' @ 3640.0usft (H&P 642)
 MD Reference: KB = 25' @ 3640.0usft (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)
18,646.0	91.80	359.10	11,246.7	7,240.5	68.0	0.22	0.22	0.00	3.7	-0.5
18,740.0	90.90	0.40	11,244.5	7,334.5	67.6	1.68	-0.96	1.38	0.9	-0.8
18,835.0	89.10	1.10	11,244.5	7,429.5	68.8	2.03	-1.89	0.74	0.3	-2.8
18,928.0	89.00	1.50	11,246.0	7,522.5	70.9	0.44	-0.11	0.43	1.2	-5.6
19,022.0	89.50	1.90	11,247.3	7,616.4	73.7	0.68	0.53	0.43	1.8	-9.1
19,116.0	89.30	1.70	11,248.3	7,710.4	76.7	0.30	-0.21	-0.21	2.2	-12.8
19,210.0	89.20	2.00	11,249.5	7,804.3	79.7	0.34	-0.11	0.32	2.8	-16.5
19,303.0	88.60	0.90	11,251.3	7,897.3	82.1	1.35	-0.65	-1.18	4.0	-19.6
19,397.0	89.70	359.80	11,252.7	7,991.2	82.6	1.65	1.17	-1.17	4.8	-20.9
19,490.0	89.60	359.70	11,253.2	8,084.2	82.2	0.15	-0.11	-0.11	4.8	-21.2
19,582.0	89.40	359.60	11,254.0	8,176.2	81.7	0.24	-0.22	-0.11	5.0	-21.4
19,674.0	89.60	358.40	11,254.8	8,268.2	80.1	1.32	0.22	-1.30	5.2	-20.5
19,767.0	91.30	358.20	11,254.1	8,361.2	77.3	1.84	1.83	-0.22	3.8	-18.4
19,861.0	90.70	357.60	11,252.5	8,455.1	73.9	0.90	-0.64	-0.64	1.6	-15.7
19,953.0	91.60	357.90	11,250.6	8,547.0	70.2	1.03	0.98	0.33	-0.9	-12.8
20,046.0	91.10	357.30	11,248.4	8,639.9	66.4	0.84	-0.54	-0.65	-3.7	-9.6
20,141.0	91.20	357.40	11,246.5	8,734.8	62.0	0.15	0.11	0.11	-6.2	-5.9
20,234.0	92.30	358.10	11,243.7	8,827.6	58.3	1.40	1.18	0.75	-9.6	-3.0
20,327.0	92.60	357.70	11,239.7	8,920.5	54.9	0.54	0.32	-0.43	-14.2	-0.3
20,421.0	91.70	358.60	11,236.2	9,014.4	51.9	1.35	-0.96	0.96	-18.3	2.0
20,514.0	92.30	359.40	11,232.9	9,107.3	50.3	1.07	0.65	0.86	-22.2	2.9
20,607.0	90.10	359.80	11,231.0	9,200.3	49.6	2.40	-2.37	0.43	-24.7	2.9
20,701.0	90.80	0.50	11,230.2	9,294.3	49.8	1.05	0.74	0.74	-26.1	1.9
20,794.0	91.40	1.30	11,228.5	9,387.2	51.3	1.08	0.65	0.86	-28.5	-0.3
20,888.0	90.10	1.10	11,227.2	9,481.2	53.3	1.40	-1.38	-0.21	-30.3	-3.0
20,982.0	90.20	0.60	11,227.0	9,575.2	54.7	0.54	0.11	-0.53	-31.2	-5.1
21,075.0	89.00	0.30	11,227.6	9,668.2	55.4	1.33	-1.29	-0.32	-31.1	-6.5



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Neptune 10 State Com
Well: #505H
Wellbore: ST #1
Design: ST #1

Local Co-ordinate Reference: Well #505H
TVD Reference: KB = 25' @ 3640.0usft (H&P 642)
MD Reference: KB = 25' @ 3640.0usft (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)
21,167.1	90.19	0.20	11,228.3	9,760.3	55.8	1.29	1.29	-0.11	-31.1	-7.6
HL Crossing, MD:21167.1', TVD:11228.3', N/S:9760.3', E/W:55.8', INC:90.19										
21,168.0	90.20	0.20	11,228.3	9,761.2	55.8	1.29	1.29	-0.11	-31.1	-7.6
21,212.0	89.50	359.70	11,228.4	9,805.2	55.8	1.96	-1.59	-1.14	-31.2	-7.9
Last MWD Survey										
21,266.0	89.50	359.70	11,228.9	9,859.2	55.5	0.00	0.00	0.00	-31.1	-8.1
Projection To Bit										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
21,167.1	11,228.3	9,760.3	55.8	HL Crossing, MD:21167.1', TVD:11228.3', N/S:9760.3', E/W:55.8', INC:90.19
21,212.0	11,228.4	9,805.2	55.8	Last MWD Survey
21,266.0	11,228.9	9,859.2	55.5	Projection To Bit

Checked By: _____ Approved By: _____ Date: _____