



Lea County, NM (NAD 27 NME)

Speedy 16 State 501H

H&P 647

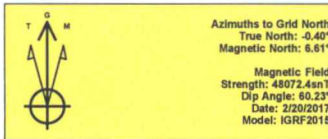
Plan #2

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

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1886
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: #201H

Ground Level: 3582.0
KB = 25 @ 3607.0usft (H&P 647)
Northing 509489.00 Easting 731143.00 Latitude 32° 23' 54.508 N Longitude 103° 35' 4.021 W



To convert a Magnetic Direction to a Grid Direction, Add 6.81°
To convert a Magnetic Direction to a True Direction, Add 7.01° East
To convert a True Direction to a Grid Direction, Subtract 0.40°

SECTION DETAILS

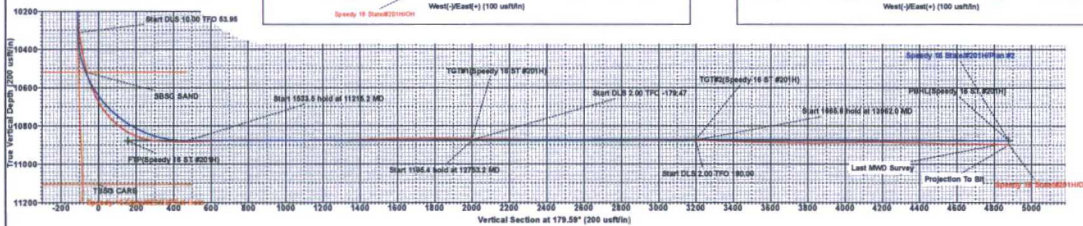
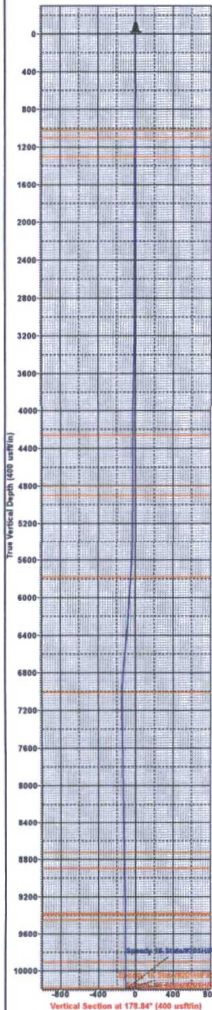
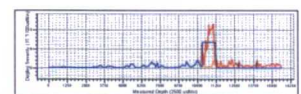
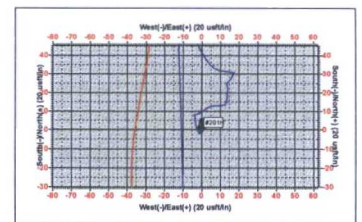
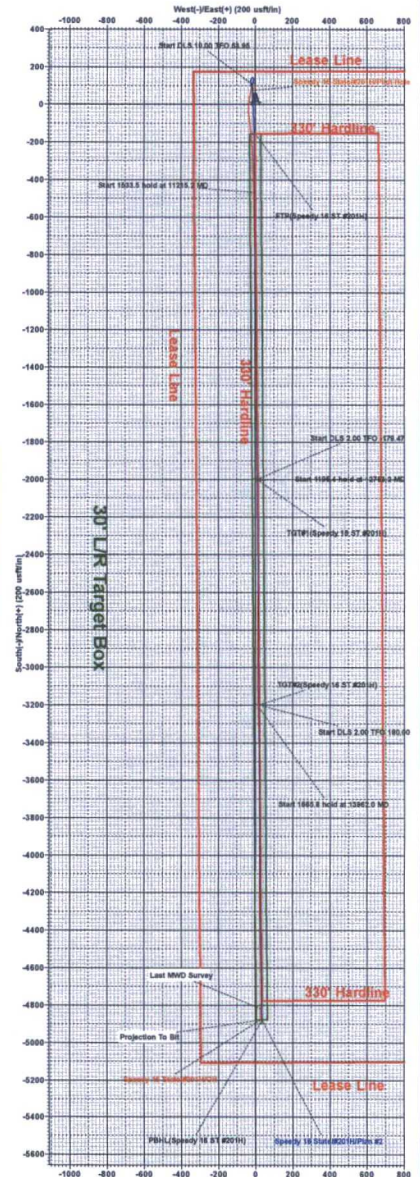
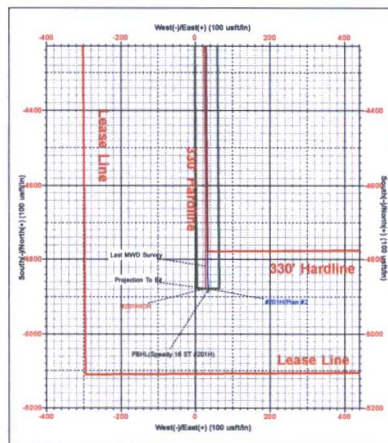
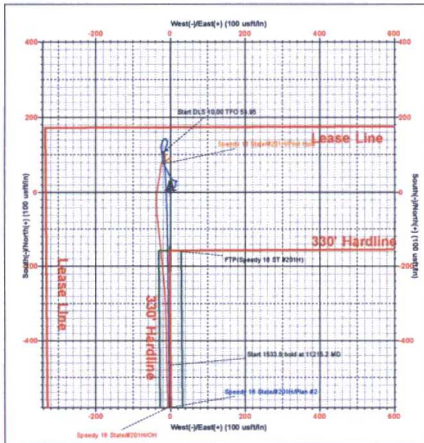
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	10320.3	1.18	125.56	10314.1	108.1	-17.1	0.00	0.00	-108.2	
2	11215.2	90.19	179.51	10880.0	-466.6	-2.7	10.00	53.95	466.6	
3	12748.7	90.19	179.51	10875.0	-2000.0	10.4	0.00	0.00	2000.0	TGT#1(Speedy 16 ST #201H)
4	12753.2	90.10	179.51	10875.0	-2004.6	10.4	2.00	-179.47	2004.6	TGT#2(Speedy 16 ST #201H)
5	13948.6	90.10	179.51	10873.0	-3199.9	20.6	0.00	0.00	3200.0	TGT#2(Speedy 16 ST #201H)
6	13962.0	89.83	179.51	10873.0	-3213.2	20.7	2.00	180.00	3213.3	PBHL(Speedy 16 ST #201H)
7	15627.8	89.83	179.51	10878.0	-4879.0	35.0	0.00	0.00	4879.1	PBHL(Speedy 16 ST #201H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
TGT#2(Speedy 16 ST #201H)	10873.0	-3199.9	20.6	506289.10	731163.63
TGT#1(Speedy 16 ST #201H)	10878.0	-2000.0	10.4	507488.00	731163.36
PBHL(Speedy 16 ST #201H)	10878.0	-4879.0	35.0	504610.00	731178.00
FTP(Speedy 16 ST #201H)	10880.0	-167.0	-1.0	509332.00	731142.00





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Speedy 16 State

501 H

OH

Design: OH

PVA

18 March, 2017

HOBBES OCD
MAY 18 2017
RECEIVED



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Speedy 16 State
 Well: #201H *501 H*
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #201H
 TVD Reference: KB = 25 @ 3607.0usft (H&P 647)
 MD Reference: KB = 25 @ 3607.0usft (H&P 647)
 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: Speedy 16 State

Site Position: Northing: 509,489.00 usft Latitude: 32° 23' 54.508 N
 From: Map Easting: 731,143.00 usft Longitude: 103° 35' 4.021 W
 Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.40 °

Well: #201H

Well Position: +N/-S 0.0 usft Northing: 509,489.00 usft Latitude: 32° 23' 54.508 N
 +E/-W 0.0 usft Easting: 731,143.00 usft Longitude: 103° 35' 4.021 W
 Position Uncertainty: 0.0 usft Wellhead Elevation: 0.0 usft Ground Level: 3,582.0 usft

Wellbore: OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/20/2017	7.01	60.23	48,072

Design: OH

Audit Notes:

Version: 1.0 Phase: ACTUAL Tie On Depth: 10,223.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.59



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Survey Program Date 3/18/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
169.0	10,223.0	Intrepid MWD #1 (Pilot Hole)	MWD	MWD - Standard
10,302.0	15,657.0	Intrepid MWD #2 (OH)	MWD	MWD - Standard

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	0.30	279.70	169.0	0.1	-0.4	0.18	0.18	0.00	0.0	0.0
349.0	0.40	177.40	349.0	-0.5	-0.9	0.30	0.06	-56.83	0.0	0.0
531.0	0.40	159.30	531.0	-1.7	-0.6	0.07	0.00	-9.95	0.0	0.0
685.0	0.20	237.30	685.0	-2.4	-0.7	0.27	-0.13	50.65	0.0	0.0
869.0	0.40	323.10	869.0	-2.0	-1.3	0.24	0.11	46.63	0.0	0.0
1,068.0	1.00	337.80	1,068.0	0.2	-2.4	0.31	0.30	7.39	0.0	0.0
1,239.0	1.00	356.10	1,238.9	3.0	-3.0	0.19	0.00	10.70	0.0	0.0
1,425.0	0.60	352.90	1,424.9	5.6	-3.3	0.22	-0.22	-1.72	0.0	0.0
1,613.0	0.40	331.30	1,612.9	7.2	-3.7	0.14	-0.11	-11.49	0.0	0.0
1,800.0	0.10	351.70	1,799.9	7.9	-4.1	0.16	-0.16	10.91	0.0	0.0
1,989.0	0.20	94.20	1,988.9	8.0	-3.7	0.13	0.05	54.23	0.0	0.0
2,177.0	0.20	105.30	2,176.9	7.9	-3.1	0.02	0.00	5.90	0.0	0.0
2,365.0	0.40	65.20	2,364.9	8.1	-2.2	0.15	0.11	-21.33	0.0	0.0
2,553.0	0.70	57.40	2,552.9	9.0	-0.6	0.16	0.16	-4.15	0.0	0.0
2,741.0	0.60	59.40	2,740.9	10.1	1.2	0.05	-0.05	1.06	0.0	0.0
2,928.0	0.90	51.30	2,927.9	11.5	3.2	0.17	0.16	-4.33	0.0	0.0
3,116.0	1.20	83.50	3,115.8	12.7	6.3	0.35	0.16	17.13	0.0	0.0
3,303.0	1.50	94.10	3,302.8	12.7	10.7	0.21	0.16	5.67	0.0	0.0
3,490.0	1.40	8.50	3,489.8	14.8	13.4	1.05	-0.05	-45.78	0.0	0.0
3,677.0	1.40	3.20	3,676.7	19.4	13.9	0.07	0.00	-2.83	0.0	0.0



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Wellbore: OH
Design: OH

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MD Reference: KB = 25 @ 3607.0usft (H&P 647)
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)
3,864.0	0.90	357.60	3,863.7	23.1	14.0	0.27	-0.27	-2.99	0.0	0.0
4,052.0	0.40	235.80	4,051.7	24.2	13.4	0.62	-0.27	-64.79	0.0	0.0
4,239.0	0.70	38.10	4,238.7	24.7	13.5	0.58	0.16	86.79	0.0	0.0
4,426.0	0.70	50.10	4,425.6	26.4	15.1	0.08	0.00	6.42	0.0	0.0
4,614.0	0.60	25.30	4,613.6	28.0	16.4	0.16	-0.05	-13.19	0.0	0.0
4,744.0	0.40	27.10	4,743.6	29.0	16.9	0.15	-0.15	1.38	0.0	0.0
4,890.0	0.20	37.00	4,889.6	29.7	17.3	0.14	-0.14	6.78	0.0	0.0
5,077.0	0.30	32.70	5,076.6	30.4	17.8	0.05	0.05	-2.30	0.0	0.0
5,265.0	1.50	271.10	5,264.6	30.8	15.6	0.89	0.64	-64.68	0.0	0.0
5,450.0	2.00	279.20	5,449.5	31.4	10.0	0.30	0.27	4.38	0.0	0.0
5,544.0	2.80	306.30	5,543.4	33.0	6.5	1.45	0.85	28.83	0.0	0.0
5,638.0	3.70	325.40	5,637.3	36.9	2.9	1.49	0.96	20.32	0.0	0.0
5,731.0	4.50	331.40	5,730.0	42.5	-0.5	0.97	0.86	6.45	0.0	0.0
5,824.0	4.30	331.80	5,822.8	48.8	-3.9	0.22	-0.22	0.43	0.0	0.0
6,012.0	4.40	335.80	6,010.2	61.6	-10.2	0.17	0.05	2.13	0.0	0.0
6,198.0	4.10	335.70	6,195.7	74.2	-15.9	0.16	-0.16	-0.05	0.0	0.0
6,385.0	5.60	351.50	6,382.0	89.3	-20.0	1.07	0.80	8.45	0.0	0.0
6,570.0	4.90	349.50	6,566.3	106.0	-22.7	0.39	-0.38	-1.08	0.0	0.0
6,757.0	5.90	359.10	6,752.4	123.4	-24.4	0.72	0.53	5.13	0.0	0.0
6,946.0	3.70	47.00	6,940.8	137.3	-20.0	2.32	-1.16	25.34	0.0	0.0
7,034.0	2.50	44.50	7,028.7	140.6	-16.6	1.37	-1.36	-2.84	0.0	0.0
7,131.0	1.10	72.40	7,125.7	142.4	-14.2	1.66	-1.44	28.76	0.0	0.0
7,225.0	1.10	79.30	7,219.6	142.9	-12.5	0.14	0.00	7.34	0.0	0.0
7,318.0	1.70	154.70	7,312.6	141.8	-11.0	1.91	0.65	81.08	0.0	0.0
7,411.0	1.70	154.30	7,405.6	139.3	-9.8	0.01	0.00	-0.43	0.0	0.0
7,506.0	1.60	144.90	7,500.5	136.9	-8.5	0.30	-0.11	-9.89	0.0	0.0
7,600.0	0.90	161.20	7,594.5	135.2	-7.5	0.83	-0.74	17.34	0.0	0.0



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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)
7,694.0	0.60	201.30	7,688.5	134.0	-7.4	0.62	-0.32	42.66	0.0	0.0
7,880.0	0.70	189.60	7,874.5	132.0	-8.0	0.09	0.05	-6.29	0.0	0.0
8,069.0	1.00	194.60	8,063.5	129.2	-8.6	0.16	0.16	2.65	0.0	0.0
8,257.0	0.90	186.80	8,251.4	126.2	-9.2	0.09	-0.05	-4.15	0.0	0.0
8,442.0	0.90	202.30	8,436.4	123.4	-9.9	0.13	0.00	8.38	0.0	0.0
8,629.0	1.30	206.90	8,623.4	120.1	-11.4	0.22	0.21	2.46	0.0	0.0
8,817.0	1.50	199.40	8,811.3	115.9	-13.2	0.14	0.11	-3.99	0.0	0.0
9,004.0	1.20	90.80	8,998.3	113.6	-12.0	1.18	-0.16	-58.07	0.0	0.0
9,192.0	2.00	126.10	9,186.2	111.6	-7.4	0.66	0.43	18.78	0.0	0.0
9,285.0	0.70	24.20	9,279.2	111.2	-5.9	2.42	-1.40	-109.57	0.0	0.0
9,473.0	0.50	263.50	9,467.2	112.1	-6.2	0.56	-0.11	-64.20	0.0	0.0
9,660.0	1.50	252.80	9,654.2	111.3	-9.4	0.54	0.53	-5.72	0.0	0.0
9,848.0	3.70	245.00	9,842.0	108.0	-17.2	1.18	1.17	-4.15	0.0	0.0
9,942.0	2.10	279.30	9,935.9	107.0	-21.7	2.44	-1.70	36.49	0.0	0.0
10,036.0	1.10	54.20	10,029.8	107.8	-22.6	3.17	-1.06	143.51	0.0	0.0
10,223.0	1.30	94.10	10,216.8	108.7	-19.1	0.45	0.11	21.34	0.0	0.0
10,302.0	7.20	178.60	10,295.6	103.7	-18.0	9.10	7.47	106.96	-4.5	-0.7
10,334.0	9.40	183.60	10,327.2	99.1	-18.2	7.23	6.87	15.62	-8.7	-0.7
10,381.0	10.80	194.40	10,373.5	91.0	-19.5	5.00	2.98	22.98	-13.6	0.0
10,427.0	10.70	197.20	10,418.7	82.8	-21.8	1.16	-0.22	6.09	-15.4	-2.2
10,474.0	11.30	191.00	10,464.9	74.1	-24.0	2.82	1.28	-13.19	-13.0	-7.3
10,521.0	13.80	187.00	10,510.7	64.0	-25.6	5.63	5.32	-8.51	-7.7	-11.3
10,568.0	18.80	187.00	10,555.8	50.9	-27.2	10.64	10.64	0.00	-2.1	-14.4
10,614.0	21.70	190.10	10,599.0	35.2	-29.6	6.72	6.30	6.74	2.9	-18.5
10,660.0	25.40	191.10	10,641.1	17.1	-33.0	8.09	8.04	2.17	9.3	-24.0
10,707.0	30.80	187.20	10,682.6	-4.8	-36.4	12.13	11.49	-8.30	17.9	-28.4
10,754.0	37.20	179.10	10,721.6	-30.9	-37.7	16.66	13.62	-17.23	27.3	-28.2



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10,801.0	42.20	173.70	10,757.7	-60.9	-35.7	12.92	10.64	-11.49	34.2	-24.8
10,846.0	48.80	173.30	10,789.2	-92.7	-32.1	14.68	14.67	-0.89	37.8	-21.6
10,894.0	56.10	174.30	10,818.5	-130.5	-28.0	15.30	15.21	2.08	39.1	-18.8
10,941.0	63.00	173.60	10,842.3	-170.8	-23.7	14.74	14.68	-1.49	38.6	-15.3
10,988.0	70.70	174.00	10,860.7	-213.7	-19.1	16.40	16.38	0.85	35.5	-11.9
11,035.0	77.90	175.40	10,873.4	-258.8	-14.9	15.58	15.32	2.98	30.0	-9.1
11,081.0	85.20	178.30	10,880.2	-304.2	-12.4	17.05	15.87	6.30	22.3	-7.9
11,144.0	88.60	179.00	10,883.6	-367.0	-10.9	5.51	5.40	1.11	11.8	-7.2
11,192.0	88.70	178.50	10,884.7	-415.0	-9.9	1.06	0.21	-1.04	6.9	-6.7
11,285.0	91.60	178.80	10,884.5	-508.0	-7.7	3.13	3.12	0.32	4.6	-5.3
11,379.0	92.00	179.00	10,881.5	-601.9	-5.9	0.48	0.43	0.21	2.0	-4.3
11,473.0	91.90	179.10	10,878.3	-695.8	-4.3	0.15	-0.11	0.11	-0.9	-3.6
11,567.0	89.60	178.40	10,877.1	-789.8	-2.3	2.56	-2.45	-0.74	-1.8	-2.3
11,661.0	89.80	178.60	10,877.6	-883.8	0.2	0.30	0.21	0.21	-1.0	-0.6
11,754.0	90.20	179.40	10,877.6	-976.8	1.8	0.96	0.43	0.86	-0.7	0.2
11,848.0	89.80	179.90	10,877.6	-1,070.8	2.4	0.68	-0.43	0.53	-0.4	0.0
11,942.0	89.80	180.40	10,877.9	-1,164.8	2.1	0.53	0.00	0.53	0.2	-1.1
12,036.0	89.60	180.40	10,878.4	-1,258.8	1.5	0.21	-0.21	0.00	1.0	-2.6
12,130.0	92.00	181.20	10,877.1	-1,352.7	0.2	2.69	2.55	0.85	0.0	-4.7
12,223.0	92.40	180.40	10,873.5	-1,445.6	-1.1	0.96	0.43	-0.86	-3.3	-6.8
12,317.0	90.60	178.00	10,871.1	-1,539.6	0.2	3.19	-1.91	-2.55	-5.4	-6.2
12,410.0	90.40	177.50	10,870.3	-1,632.5	3.8	0.58	-0.22	-0.54	-5.9	-3.4
12,503.0	91.20	178.30	10,869.0	-1,725.4	7.2	1.22	0.86	0.86	-6.9	-0.8
12,597.0	89.50	177.60	10,868.4	-1,819.4	10.6	1.96	-1.81	-0.74	-7.2	1.8
12,690.0	89.30	177.10	10,869.4	-1,912.3	14.9	0.58	-0.22	-0.54	-5.9	5.3
12,783.0	89.10	179.20	10,870.7	-2,005.2	17.9	2.27	-0.22	2.26	-4.3	7.5
12,875.0	89.10	179.90	10,872.1	-2,097.2	18.6	0.76	0.00	0.76	-2.7	7.4



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Speedy 16 State
Well: #201H 501 H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #201H
TVD Reference: KB = 25 @ 3607.0usft (H&P 647)
MD Reference: KB = 25 @ 3607.0usft (H&P 647)
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)
12,969.0	89.60	180.60	10,873.2	-2,191.2	18.2	0.92	0.53	0.74	-1.5	6.2
13,063.0	89.30	180.60	10,874.1	-2,285.2	17.2	0.32	-0.32	0.00	-0.4	4.4
13,157.0	89.70	180.90	10,874.9	-2,379.2	16.0	0.53	0.43	0.32	0.5	2.4
13,252.0	90.40	181.20	10,874.8	-2,474.2	14.2	0.80	0.74	0.32	0.6	-0.2
13,345.0	90.00	180.50	10,874.5	-2,567.1	12.9	0.87	-0.43	-0.75	0.4	-2.3
13,439.0	89.80	179.90	10,874.7	-2,661.1	12.5	0.67	-0.21	-0.64	0.8	-3.5
13,532.0	89.70	180.30	10,875.1	-2,754.1	12.4	0.44	-0.11	0.43	1.3	-4.4
13,627.0	89.60	180.50	10,875.7	-2,849.1	11.7	0.24	-0.11	0.21	2.1	-5.9
13,720.0	89.80	179.80	10,876.1	-2,942.1	11.5	0.78	0.22	-0.75	2.7	-6.9
13,814.0	90.40	179.80	10,876.0	-3,036.1	11.8	0.64	0.64	0.00	2.7	-7.4
13,907.0	90.20	179.00	10,875.5	-3,129.1	12.8	0.89	-0.22	-0.86	2.4	-7.2
14,001.0	87.60	178.10	10,877.3	-3,223.1	15.1	2.93	-2.77	-0.96	4.3	-5.7
14,095.0	87.80	178.40	10,881.1	-3,316.9	18.0	0.38	0.21	0.32	7.7	-3.6
14,189.0	88.60	179.40	10,884.0	-3,410.9	19.8	1.36	0.85	1.06	10.4	-2.6
14,282.0	88.80	179.70	10,886.1	-3,503.9	20.6	0.39	0.22	0.32	12.2	-2.7
14,376.0	88.50	179.70	10,888.3	-3,597.8	21.0	0.32	-0.32	0.00	14.2	-3.0
14,470.0	89.00	179.40	10,890.4	-3,691.8	21.8	0.62	0.53	-0.32	15.9	-3.1
14,563.0	89.50	179.30	10,891.6	-3,784.8	22.8	0.55	0.54	-0.11	16.9	-2.8
14,657.0	90.40	179.60	10,891.7	-3,878.8	23.7	1.01	0.96	0.32	16.7	-2.7
14,752.0	91.30	180.00	10,890.3	-3,973.8	24.1	1.04	0.95	0.42	15.0	-3.2
14,846.0	91.10	180.50	10,888.3	-4,067.7	23.7	0.57	-0.21	0.53	12.7	-4.4
14,939.0	89.80	180.20	10,887.6	-4,160.7	23.1	1.43	-1.40	-0.32	11.7	-5.8
15,034.0	89.20	178.90	10,888.4	-4,255.7	23.8	1.51	-0.63	-1.37	12.3	-5.8
15,128.0	88.10	179.40	10,890.6	-4,349.7	25.2	1.29	-1.17	0.53	14.2	-5.2
15,221.0	87.80	179.20	10,894.0	-4,442.6	26.4	0.39	-0.32	-0.22	17.3	-4.9
15,315.0	89.30	179.60	10,896.3	-4,536.6	27.4	1.65	1.60	0.43	19.4	-4.7
15,408.0	90.10	179.50	10,896.8	-4,629.6	28.1	0.87	0.86	-0.11	19.6	-4.8



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Speedy 16 State
 Well: #201H 501 H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #201H
 TVD Reference: KB = 25 @ 3607.0usft (H&P 647)
 MD Reference: KB = 25 @ 3607.0usft (H&P 647)
 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)
15,502.0	89.10	180.10	10,897.5	-4,723.6	28.4	1.24	-1.06	0.64	19.9	-5.3
15,596.0	89.40	180.50	10,898.7	-4,817.6	27.9	0.53	0.32	0.43	20.9	-6.6
Last MWD Survey										
15,657.0	89.40	180.50	10,899.3	-4,878.6	27.4	0.00	0.00	0.00	21.3	-7.6
Projection To Bit										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
15,596.0	10,898.7	-4,817.6	27.9	Last MWD Survey
15,657.0	10,899.3	-4,878.6	27.4	Projection To Bit

Checked By: _____ Approved By: _____ Date: _____