

HOBBS CO

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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Speedy 16 State Com

#301H

OH

Design: OH

Final PVA Report

07 December, 2018



Final PVA Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Speedy 16 State Corn
 Well: #301H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #301H
 TVD Reference: KB = 25 @ 3595.0usft (HP 465)
 MD Reference: KB = 25 @ 3595.0usft (HP 465)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Project Lea County, NM (NAD 83 NME)

Map System: US State Plane 1983
 Geo Datum: North American Datum 1983
 Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Speedy 16 State Corn

Site Position:		Northing:	509,397.00 usft	Latitude:	32° 23' 53.425 N
From:	Map	Easting:	772,576.00 usft	Longitude:	103° 35' 2.858 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.40 "

Well #301H

Well Position	+N-S	0.0 usft	Northing:	509,340.00 usft	Latitude:	32° 23' 52.768 N
	+E-W	0.0 usft	Easting:	773,940.00 usft	Longitude:	103° 34' 46.955 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,570.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (mT)
	IGRF2015	10/30/2018	6.82	60.20	47,898.30630310

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	175.11	

Survey Program Date 12/7/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
140.0	14,650.0	Intrepid MWD #1 (OH)	MWD	OWSG MWD - Standard



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Site:	Speedy 16 State Com	MD Reference:	KB = 25 @ 3595.0usft (HP 465)
Well:	#301H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	EW (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
140.0	0.30	269.60	140.0	0.0	-0.4	0.21	0.21	0.00	-0.4	0.0	
228.0	0.40	109.50	228.0	-0.1	-0.3	0.80	0.12	-188.16	0.3	-0.2	
318.0	0.50	151.70	318.0	-0.6	0.2	0.37	0.11	45.87	-0.6	-0.1	
497.0	0.80	198.50	497.0	-2.4	0.2	0.33	0.17	28.15	-2.3	0.9	
681.0	1.20	195.30	681.0	-5.5	-0.8	0.22	0.22	-1.74	-5.5	0.7	
870.0	1.80	207.30	869.9	-10.1	-2.6	0.36	0.32	6.35	-10.2	2.3	
1,059.0	2.20	230.60	1,058.8	-15.0	-6.8	0.47	0.21	12.33	-14.8	7.3	
1,122.0	2.20	231.20	1,121.7	-18.5	-8.7	0.04	0.00	0.95	-17.1	7.4	
1,248.0	2.20	224.70	1,247.6	-19.8	-12.3	0.20	0.00	-5.16	-22.7	5.2	
1,436.0	1.50	64.00	1,435.6	-21.2	-12.6	1.94	-0.37	-85.48	20.6	-13.6	
1,625.0	1.90	52.40	1,624.5	-18.3	-7.9	0.28	0.21	-6.14	17.4	-9.7	
1,814.0	4.20	43.00	1,813.2	-11.3	-0.7	1.24	1.22	-4.97	8.7	-7.2	
2,003.0	4.50	43.90	2,001.7	-0.9	9.2	0.16	0.16	0.48	-5.7	-7.2	
2,191.0	4.30	43.20	2,189.1	9.6	19.1	0.11	-0.11	-0.37	-20.1	-7.4	
2,380.0	4.00	46.40	2,377.6	19.3	28.7	0.20	-0.16	1.69	-34.1	-5.9	
2,569.0	6.30	42.50	2,565.9	31.5	40.5	1.23	1.22	-2.06	-49.6	-8.6	
2,758.0	7.10	43.00	2,753.6	47.7	55.5	0.42	0.42	0.26	-61.2	-7.3	
2,946.0	7.50	46.80	2,940.1	64.6	72.4	0.33	0.21	2.02	-66.1	-2.4	
3,135.0	7.50	54.90	3,127.4	80.1	91.4	0.56	0.00	4.29	-70.8	5.9	
3,324.0	6.60	68.00	3,315.0	91.3	111.6	0.97	-0.48	6.93	-72.1	17.4	
3,512.0	6.30	35.90	3,501.9	103.7	127.7	1.90	-0.16	-17.07	-70.6	-25.3	
3,701.0	6.60	35.70	3,689.3	123.6	142.0	1.22	1.22	-0.11	-75.7	-21.8	
3,890.0	11.70	36.70	3,875.3	150.4	161.7	1.64	1.64	0.53	-90.0	-16.8	
4,079.0	10.00	41.80	4,060.9	178.0	184.1	1.03	-0.90	2.70	-107.1	-5.2	
4,268.0	9.30	50.90	4,247.3	199.9	206.9	0.89	-0.37	4.81	-118.5	13.0	
4,457.0	7.10	51.70	4,434.3	216.7	227.9	1.17	-1.16	0.42	-125.6	13.2	



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MD Reference: KB = 25 @ 3595.0usft (HP 485)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

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)
4,645.0	4.40	54.30	4,621.4	228.1	242.9	1.44	-1.44	1.38	-124.2	16.9
4,697.0	3.80	53.40	4,673.2	230.3	245.9	1.16	-1.15	-1.73	-122.8	14.3
4,823.0	3.90	51.90	4,798.9	235.5	252.6	0.11	0.08	-1.19	-118.0	9.8
5,012.0	4.80	63.70	4,987.4	242.9	264.8	0.67	0.48	6.24	-102.9	27.4
5,201.0	6.20	48.30	5,175.5	253.2	279.5	1.07	0.74	-8.15	-88.1	-3.4
5,390.0	6.90	41.80	5,363.3	268.5	294.7	0.54	0.37	-3.44	-82.6	-13.2
5,580.0	6.90	38.20	5,551.9	286.0	309.3	0.23	0.00	-1.89	-88.4	-15.7
5,769.0	6.60	35.10	5,739.6	303.8	322.6	0.25	-0.16	-1.64	-84.0	-15.7
5,958.0	5.60	32.70	5,927.5	320.4	333.8	0.55	-0.53	-1.27	-77.9	-13.2
6,147.0	2.50	48.50	6,116.1	330.9	341.9	1.73	-1.64	8.36	-65.4	10.2
6,336.0	2.80	53.00	6,304.8	336.4	348.7	0.19	0.16	2.36	-47.1	12.8
6,525.0	1.80	117.60	6,493.7	337.8	355.0	1.38	-0.53	34.18	-4.9	27.5
6,714.0	1.80	120.40	6,682.6	335.0	360.2	0.05	0.00	1.48	-2.7	5.2
6,903.0	0.60	93.60	6,871.6	333.4	363.7	0.68	-0.83	-14.18	-0.1	-6.7
7,092.0	0.70	104.70	7,060.6	333.0	365.8	0.08	0.05	5.87	-2.8	-7.5
7,281.0	0.50	114.30	7,249.6	332.4	367.7	0.12	-0.11	5.08	-6.0	-6.7
7,470.0	0.40	114.20	7,438.6	331.8	369.1	0.05	-0.05	-0.05	-7.5	-6.7
7,659.0	0.40	133.20	7,627.6	331.1	370.1	0.07	0.00	10.05	-10.5	-3.7
7,848.0	0.40	177.00	7,816.5	330.0	370.6	0.16	0.00	23.17	-11.3	5.1
8,037.0	1.00	171.00	8,005.5	327.7	370.9	0.32	0.32	-3.17	-14.1	3.8
8,226.0	1.20	189.20	8,194.5	324.1	370.9	0.21	0.11	9.63	-15.8	8.5
8,415.0	1.50	340.80	8,383.5	324.5	369.8	1.39	0.16	80.26	17.2	0.9
8,603.0	1.20	321.60	8,571.4	328.3	367.7	0.29	-0.16	-10.27	11.6	5.7
8,793.0	1.10	284.70	8,761.4	330.4	364.7	0.39	-0.05	-18.42	2.4	10.4
8,981.0	1.90	262.10	8,949.3	330.4	359.9	0.52	0.43	-12.02	-6.5	9.8
9,170.0	3.30	245.90	9,138.1	327.7	351.8	0.83	0.74	-8.57	-17.4	6.7
9,211.0	3.70	240.70	9,179.1	326.6	349.6	1.24	0.98	-12.68	-20.5	5.0



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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Survey

MD (usft)	Inc (")	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	EW (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)
9,306.0	4.10	233.00	9,273.8	323.1	344.2	0.69	0.42	-8.11	-27.4	1.8
9,395.8	10.91	181.27	9,362.9	312.8	341.5	9.98	7.58	-57.61	-28.7	-23.2
KOP (Speedy 16 State Com #301H)										
9,400.0	11.30	180.50	9,367.0	311.8	341.4	9.98	9.33	-18.35	-29.2	-23.6
9,447.0	20.10	174.30	9,412.2	299.1	342.2	19.03	18.72	-13.19	-37.0	-27.3
9,471.3	23.80	174.38	9,434.7	290.1	343.1	15.21	15.21	0.24	-43.7	-27.1
HL Crossing, MD:9471.3', TVD:9434.7', N/S:290.1', E/W:343.1', INC:23.80										
9,495.0	27.40	174.40	9,456.1	279.9	344.1	15.21	15.21	0.18	-50.6	-26.9
9,542.0	29.90	173.70	9,497.4	257.5	346.4	5.37	5.32	-1.49	-63.8	-26.4
9,590.0	33.30	175.10	9,538.2	232.5	348.9	7.25	7.08	2.92	-76.2	-23.1
9,637.0	36.60	177.20	9,576.8	205.6	350.7	7.47	7.02	4.47	-86.9	-19.0
9,684.0	37.50	179.00	9,614.3	177.3	351.6	3.00	1.91	3.83	-94.5	-15.6
9,731.0	37.20	181.30	9,651.6	148.8	351.5	3.04	-0.64	4.89	-97.8	-12.7
9,778.0	39.60	181.30	9,688.5	119.6	350.9	5.11	5.11	0.00	-96.8	-13.8
9,825.0	43.10	180.00	9,723.7	88.6	350.5	7.67	7.45	-2.77	-93.4	-16.2
9,831.1	43.78	179.74	9,728.2	84.4	350.5	11.40	11.01	-4.28	-92.8	-16.5
FTP (Speedy 16 State Com #301H)										
9,873.0	48.40	178.10	9,757.2	54.2	351.1	11.40	11.05	-3.91	-88.7	-17.7
9,920.0	50.00	178.10	9,787.9	18.7	352.3	3.40	3.40	0.00	-82.8	-16.7
9,987.0	54.10	178.70	9,816.8	-18.4	353.3	8.78	8.72	1.28	-74.6	-15.5
10,014.0	59.60	180.30	9,842.5	-57.7	353.7	12.04	11.70	3.40	-66.5	-14.7
10,061.0	63.30	181.70	9,865.0	-99.0	352.9	8.30	7.87	2.88	-57.6	-15.5
10,108.0	68.20	181.70	9,884.3	-141.8	351.7	10.43	10.43	0.00	-47.9	-17.4
10,156.0	71.60	179.90	9,900.8	-186.9	351.0	7.91	7.08	-3.75	-37.1	-18.9
10,203.0	74.50	178.60	9,914.5	-231.8	351.6	6.71	6.17	-2.77	-25.1	-18.8
10,250.0	78.40	177.60	9,925.1	-277.6	353.2	10.63	10.43	-2.13	-14.7	-17.3
10,297.0	84.00	177.70	9,931.9	-324.0	355.1	9.79	9.79	0.21	-8.0	-15.7



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Site:	Speedy 16 State Com	MD Reference:	KB = 25 @ 3595.0usft (HP 465)
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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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10,345.0	88.20	178.00	9,935.1	-371.9	358.9	8.77	8.75	0.62	-4.8	-14.3	
10,434.0	89.80	176.80	9,938.7	-460.7	360.9	2.25	1.80	-1.35	-3.3	-11.0	
10,529.0	88.20	177.70	9,938.3	-555.6	365.4	1.93	-1.68	0.95	-1.6	-7.2	
10,623.0	89.10	177.80	9,940.8	-649.5	369.1	0.96	0.96	0.11	0.6	-4.4	
10,718.0	90.40	177.70	9,941.0	-744.4	372.9	1.37	1.37	-0.11	1.0	-1.4	
10,812.0	88.70	179.60	9,941.7	-838.4	375.1	2.71	-1.81	2.02	1.8	0.0	
10,906.0	88.40	180.30	9,944.1	-932.4	375.2	0.81	-0.32	0.74	4.1	-0.8	
11,000.0	89.50	180.40	9,945.8	-1,026.4	374.6	1.18	1.17	0.11	5.9	-2.1	
11,094.0	90.20	180.20	9,946.1	-1,120.4	374.1	0.77	0.74	-0.21	6.1	-3.4	
11,188.0	91.10	180.30	9,945.0	-1,214.3	373.7	0.98	0.96	0.11	5.0	-4.7	
11,283.0	88.60	180.10	9,945.2	-1,309.3	373.4	2.64	-2.63	-0.21	5.3	-5.8	
11,377.0	88.80	179.90	9,947.4	-1,403.3	373.4	0.30	0.21	-0.21	7.4	-6.6	
11,472.0	89.10	179.70	9,949.1	-1,498.3	373.7	0.38	0.32	-0.21	9.1	-7.1	
11,565.0	89.90	180.00	9,949.9	-1,591.3	373.9	0.92	0.86	0.32	10.0	-7.6	
11,660.0	90.10	179.70	9,949.9	-1,686.3	374.2	0.38	0.21	-0.32	10.0	-8.2	
11,754.0	90.60	180.10	9,949.4	-1,780.3	374.3	0.68	0.53	0.43	9.4	-8.8	
11,849.0	91.50	179.90	9,947.6	-1,875.3	374.3	0.97	0.85	-0.21	7.6	-9.7	
11,943.0	89.40	179.30	9,946.9	-1,969.3	375.0	2.32	-2.23	-0.84	6.9	-9.8	
12,037.0	89.80	179.10	9,947.5	-2,063.2	376.3	0.57	0.53	-0.21	7.5	-8.3	
12,132.0	88.40	178.50	9,948.9	-2,158.2	378.3	1.70	-1.58	-0.83	8.9	-8.1	
12,227.0	88.70	178.80	9,951.3	-2,253.2	380.5	0.45	0.32	0.32	11.3	-6.7	
12,321.0	89.80	178.80	9,952.7	-2,347.1	382.5	0.96	0.96	0.00	12.7	-5.5	
12,415.0	90.50	178.70	9,952.6	-2,441.1	384.6	0.96	0.96	-0.11	12.6	-4.3	
12,509.0	88.90	178.70	9,953.1	-2,535.1	386.7	1.70	-1.70	0.00	13.1	-3.0	
12,604.0	89.80	179.20	9,954.1	-2,630.0	388.4	1.08	0.95	0.53	14.2	-2.0	
12,698.0	91.00	179.40	9,953.5	-2,724.0	389.6	1.29	1.28	0.21	13.5	-1.7	
12,793.0	90.90	180.60	9,951.9	-2,819.0	389.6	1.27	-0.11	1.26	11.9	-2.5	



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12,887.0	89.60	180.80	9,951.5	-2,913.0	388.4	1.40	-1.38	0.21	11.5	11.5	-4.5
12,982.0	90.40	180.10	9,951.5	-3,008.0	387.7	1.12	0.84	-0.74	11.5	11.5	-8.0
13,076.0	91.70	179.80	9,949.8	-3,102.0	387.8	1.42	1.38	-0.32	9.8	9.8	-8.8
13,171.0	89.00	179.70	9,949.2	-3,197.0	388.2	2.84	-2.84	-0.11	9.2	9.2	-7.2
13,265.0	87.20	179.10	9,952.3	-3,290.9	389.2	2.02	-1.91	-0.64	12.3	12.3	-7.0
13,360.0	88.00	178.90	9,956.3	-3,385.8	390.8	0.87	0.84	-0.21	18.3	18.3	-6.1
13,454.0	89.50	178.40	9,958.3	-3,479.8	393.0	1.68	1.60	-0.53	18.4	18.4	-4.7
13,549.0	90.80	178.20	9,958.1	-3,574.7	395.9	1.38	1.37	-0.21	18.1	18.1	-2.7
13,643.0	88.50	179.50	9,958.7	-3,668.7	397.7	2.81	-2.45	1.38	18.7	18.7	-1.6
13,738.0	89.60	179.00	9,960.2	-3,763.7	399.0	1.27	1.16	-0.53	20.3	20.3	-1.2
13,833.0	86.80	179.40	9,963.2	-3,858.6	400.3	2.98	-2.95	0.42	23.2	23.2	-0.7
13,927.0	87.30	179.00	9,966.1	-3,952.5	401.6	0.88	0.53	-0.43	28.1	28.1	-0.2
14,022.0	88.80	178.90	9,971.3	-4,047.4	403.4	1.58	1.58	-0.11	31.3	31.3	0.7
14,116.0	90.30	178.40	9,972.0	-4,141.4	405.6	1.68	1.60	-0.53	32.0	32.0	2.1
14,211.0	91.70	178.10	9,970.4	-4,236.3	408.5	1.51	1.47	-0.32	30.4	30.4	4.2
14,305.0	90.00	178.30	9,969.0	-4,330.2	411.4	1.82	-1.81	0.21	29.0	29.0	6.4
14,400.0	90.50	178.40	9,968.6	-4,425.2	414.2	0.54	0.53	0.11	28.6	28.6	8.3
14,494.0	91.50	178.20	9,966.9	-4,519.1	417.0	1.08	1.06	-0.21	26.9	26.9	10.3
14,589.0	92.40	177.60	9,963.7	-4,614.0	420.4	1.14	0.95	-0.83	23.7	23.7	12.9
Final MWD Survey (MD=14589.0')											
14,650.0	92.40	177.60	9,961.1	-4,674.9	423.0	0.00	0.00	0.00	21.2	21.2	15.0
Final Projection to Bit (MD=14650.0') - PBHL (Speedy 16 State Com #301H)											



Final PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Speedy 18 State Com
Well: #301H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #301H
TVD Reference: KB = 25 @ 3595.0usft (HP 465)
MD Reference: KB = 25 @ 3595.0usft (HP 465)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
9,471.3	9,434.7	290.1	343.1	HL Crossing, MD:9471.3', TVD:9434.7', N/S:290.1', E/W:343.1', INC:23.80
14,589.0	9,963.7	-4,614.0	420.4	Final MWD Survey (MD=14589.0')
14,650.0	9,961.1	-4,674.9	423.0	Final Projection to Bit (MD=14650.0')

Checked By: _____ Approved By: _____ Date: _____

I certify this survey to be true and correct to the best of my belief and knowledge.

Kay Maddox
Signed

01/06/2020
Date



Lea County, NM (NAD 83 NME)

Speedy 16 State Com #301H

HP 465

Plan #1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #301H

KB = 25 @ 3535.0m (HP 465) 3570.0
Northing 609340.00 Easting 773940.00 Latitude 32° 23' 52.766 N Longitude 103° 34' 45.955 W



To convert a Magnetic Direction to a Grid Direction, Add 6.42°
To convert a Magnetic Direction to a True Direction, Add 6.82° East
To convert a True Direction to a Grid Direction, Subtract 0.40°

SECTION DETAILS

Sec	MD	Ino	Azi	TVD	+N-S	+E-W	Diag	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.00	0.00	0.00	0.0	
2	2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	
3	2800.0	8.00	48.95	2799.6	10.7	11.5	2.00	46.95	-6.7	
4	4771.3	8.00	48.95	4760.0	151.4	162.0	0.00	0.00	-137.0	
5	4856.8	7.95	48.94	4856.8	159.5	170.7	2.00	-0.02	-144.3	
6	6592.4	7.95	48.94	6563.8	322.2	344.9	0.00	0.00	-291.6	
7	6989.9	0.00	0.00	6989.0	341.0	355.0	2.00	180.00	-308.6	
8	8396.9	0.00	0.00	8367.0	341.0	355.0	0.00	0.00	-308.6	KOP (Speedy 16 State Com #301H)
9	10296.9	90.00	179.51	9940.0	-231.9	359.9	10.00	179.51	262.6	
10	14844.1	90.00	179.51	9940.0	-4779.0	408.9	0.00	0.00	4798.4	PBHL (Speedy 16 State Com #301H)

CASING DETAILS
No casing data is available

WELLSBORO TARGEY DETAILS (MAP COORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
KOP (Speedy 16 State Com #301H)	8367.0	341.0	355.0	609340.00	773940.00
FTP (Speedy 16 State Com #301H)	8940.0	291.0	359.0	609351.00	774399.00
PBHL (Speedy 16 State Com #301H)	9940.0	-4779.0	408.9	604261.04	774348.91

